ERA-NET SIINN

Safe **I**mplementation of **I**nnovative

Nanoscience and **N**anotechnology

Deliverable D3.3

Health Data Selection

Mats-Olof Mattsson (AIT)

24 April 2015

Approved by Executive Board on 30-04-2015

Deliverable no. **D.3.3** under the European Commission's Seventh Framework Programme
Grant Agreement Number265799 for Project SIINN

Introduction

Part of ERA-Net SIINNs WP3 is to perform "Validation of evidence-based risk assessment for human health" (Task 3.2).
According to the projects Description of Work,
"The objective of this task is to critically evaluate the available safety and toxicological data for NMs with respect to their suitability for performing an assessment of NM risks to human health and to thus identify areas requiring further research (to be used as input for Task 3.4)."

Furthermore, "Consideration will be paid to information regarding exposures and exposure path-ways, hazard identifications and mode of action studies. This task will thus focus on:
• The selection and evaluation of individual pieces of information,
• Risk assessment overviews based on all available information,
- Exposure assessment (exposure of general public as well as occupational exposure),
- Hazard assessment (animal studies, in vitro studies, human studies),
- Mode of action assessment."

"The acceptability of data for the purpose of risk assessment will rely on the data's:
i) Relevance,
ii) Validity, quality and reliability. This includes the evaluation of data in terms of inherent quality, to what degree the experimental procedures have been validated, and whether or not the findings are reproducible between experiments (deliverable D3.3)."

In other words, in order to be able to evaluate if the publicly available data body is appropriate for the different facets of risk assessment, as well as for identifying data gaps that are the foundation for the Call Topics in the SIINN Calls, an appropriate collection of data has to be built up. This data collection is the backbone for all the work performed in Tasks 3.2 and 3.4.

The process of building up and maintaining the data collection, the considerations in selection of individual pieces of data, and an index of part of the data collection (Annex; references obtained from PubMed using specific search criteria) are presented in this deliverable.

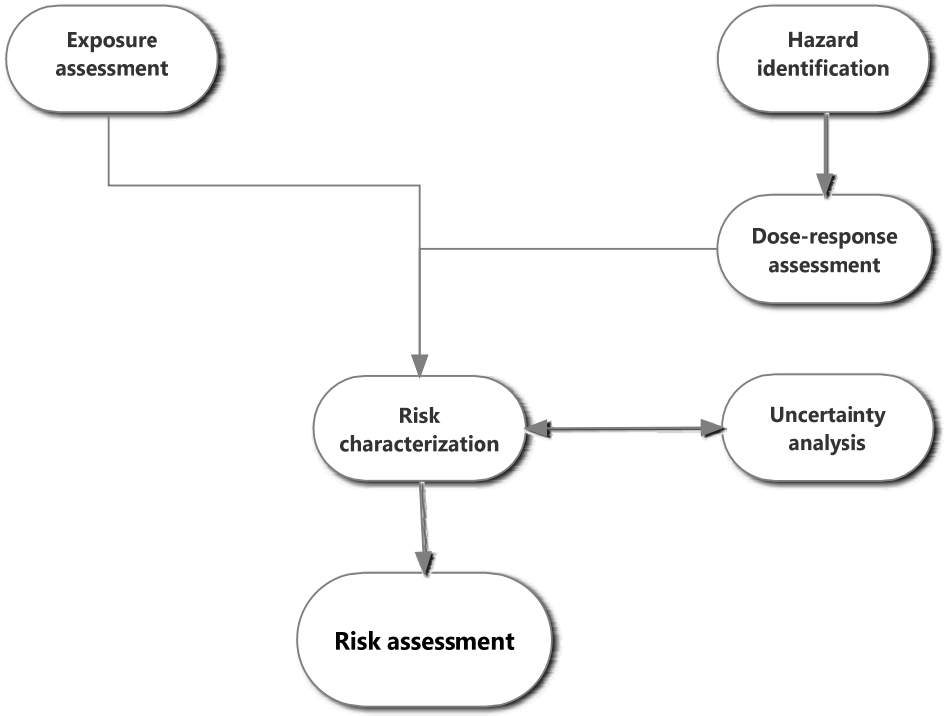
Risk assessment requirements

The key driver for the health data selection and subsequent data collection is the usefulness of the data for risk assessment. The purpose of risk assessment is to provide risk managers (authorities, health and safety personnel etc.) with a science-based foundation for decision making in management of agents possibly affecting health and environment.

The principal stages of risk assessment are depicted in the flow chart below and can be summarized as follows:

- Hazard identification
- Examination of dose-response relationships (hazard characterization)

- Exposure assessment
- To highlight uncertainties in the determination of hazards and dose-response relationships
- To evaluate possible modes (mechanisms) of actions for the hazard of concern.



Accordingly, the data that has been searched for is selected on the basis of suitability for the different aspects of risk assessment.

Data sources for risk assessment

The data used for the task has been searched for and collected continuously during the entire period of the project. Typically, publicly available data bases (PubMed, Chemical Abstracts, Biological Abstracts) have been searched on a regular basis. A number of different keywords have been regularly used during the period 2010-2015. Appropriate data pieces have then been collected and evaluated for the usefulness for the task at hand.

Information has been obtained primarily from original research papers published in international peer-reviewed scientific journals in the English language (with some exceptions of papers published in German or Swedish). This includes meta-analyses and reviews when deemed appropriate. Additional sources of information have also been considered, including web-based information retrieval, and documents from Governmental bodies and authorities.

Quality criteria for health data selection

Not all pieces of data were found to be appropriate for the purpose of the task. In contrast, a large amount of the initially identified studies are either lacking in quality or not useful because of other reasons, such as a focus of the study that did not correspond to the different aspects of risk assessment.

The table below summarizes the different criteria that need to be fulfilled for a study to be useful. Note that there are different types of studies that may have a bearing on the overall purpose.

- "Epidem." stands for epidemiologal studies, which can be of different types, such as ecological, case-control, or cohort studies.
- Clinical studies are studies performed on individual subjects (healthy or diseased) under strictly controlled conditions.
- *In vivo* studies refer in this case mainly to experiments done on rodents. There are also occasional studies employing non-mammalian species.
- *In vitro* studies are performed on animal cells in culture, most commonly from mammalian tissues (normal or neoplastic).
- *In silico* studies are modelling and simulation studies using appropriate computer software. Also certain statistical studies belong in this category.

Regarding the different parameters listed in the table, the "devil is in the details". The usefulness of an article is mostly not possible to estimate unless the noted categories are investigated in detail.

- Exposure refers to the identification of the ENM and its amount and duration.
- Dosimetry partially overlaps exposure (amount, such as mass or concentration) may be a dose metric as well, but the dosimetry also includes other physical-chemical parameters and also tissue distribution, kinetcs etc.
- The biological model should be appropriate for the study objective, and/or the hypothesis.
- The endpoint should be relevant for the study objective and furthermore investigated with the most appropriate experimental approach
- The statistical approach should be adequately chosen, taking into account parameters such as power and sample size. Also replication number, independent experiments, and replicability belong in this category.
- Blinding procedures are necessary for avoiding subject and/or experimenter bias. For clinical studies, anything less than a "double blind" study is inadequate.

- Necessary controls, both positive and negative, are needed to be included to validate the approahc the obtained results. Also historical data can be useful to put data into perspective, but cannot replace controls.

Study type	**Exposure**	**Dosimetry**	**Biol. model**	**End-point**	**Statistics**	**Blinding**	**Controls**
Epidem.	X			X	X		
Clinical	X	X		X	X	X	X
In vivo	X	X	X	X	X	X	X
In vitro	X	X	X	X	X	X	X
In silico	X	X	X	X	X		

Annex 1. Sample data collection for the period 1985-2015.

This particular collection is based on montly searches on PubMed (http://www.ncbi.nlm.nih.gov/pubmed) using the search terms

nanomaterial OR nanoparticle AND inflammation OR inflammatory marker.

The collection is not edited or adjusted according to quality criteria, but represent the collection in its "raw" form.

1. Rose TL, Kelliher EM, Robblee LS.Assessment of capacitor electrodes for intracortical neural stimulation.J Neurosci Methods. 1985 Jan;12(3):181-93.PubMed [citation] PMID: 2984478

2. Schürch S, Gehr P, Im Hof V, Geiser M, Green F.Surfactant displaces particles toward the epithelium in airways and alveoli.Respir Physiol. 1990 Apr;80(1):17-32.PubMed [citation] PMID: 2367749

3. Speiser PP.Nanoparticles and liposomes: a state of the art.Methods Find Exp Clin Pharmacol. 1991 Jun;13(5):337-42. Review.PubMed [citation] PMID: 1921570

4. Kotter JM, Zieger G.[Sarcoid granulomatosis after many years of exposure to zirconium, "zirconium lung"].Pathologe. 1992 Apr;13(2):104-9. German. No abstract available. PubMed [citation] PMID: 1603771

5. Blagoeva PM, Balansky RM, Mircheva TJ, Simeonova MI.Diminished genotoxicity of mitomycin C and farmorubicin included in polybutylcyanoacrylate nanoparticles.Mutat Res. 1992 Jul;268(1):77-82.PubMed [citation] PMID: 1378189

6. Oberdörster G, Ferin J, Gelein R, Soderholm SC, Finkelstein J.Role of the alveolar macrophage in lung injury: studies with ultrafine particles.Environ Health Perspect. 1992 Jul;97:193-9.PubMed [citation] PMID: 1396458, PMCID: PMC1519541

7. Rosen BR, Brady TJ.Future uses of MR imaging agents.J Comput Assist Tomogr. 1993;17 Suppl 1:S36-42. Review.PubMed [citation] PMID: 8486829

8. Kreuter J.Drug targeting with nanoparticles.Eur J Drug Metab Pharmacokinet. 1994 Jul-Sep;19(3):253-6. Review.PubMed [citation] PMID: 7867668

9. Diaz-Sanchez D, Dotson AR, Takenaka H, Saxon A.Diesel exhaust particles induce local IgE production in vivo and alter the pattern of IgE messenger RNA isoforms.J Clin Invest. 1994 Oct;94(4):1417-25.PubMed [citation] PMID: 7523450,

PMCID: PMC295270

10. Kreuter J, Alyautdin RN, Kharkevich DA, Ivanov AA.Passage of peptides through the blood-brain barrier with colloidal polymer particles (nanoparticles).Brain Res. 1995 Mar 13;674(1):171-4.PubMed [citation] PMID: 7773690

11. Yamago S, Tokuyama H, Nakamura E, Kikuchi K, Kananishi S, Sueki K, Nakahara H, Enomoto S, Ambe F.In vivo biological behavior of a water-miscible fullerene: 14C labeling, absorption, distribution, excretion and acute toxicity.Chem Biol. 1995 Jun;2(6):385-9.PubMed [citation] PMID: 9383440

12. Kobzik L.Lung macrophage uptake of unopsonized environmental particulates. Role of scavenger-type receptors.J Immunol. 1995 Jul 1;155(1):367-76.PubMed [citation] PMID: 7541421

13. Zimmer C, Weissleder R, O'Connor D, LaPointe L, Brady TJ, Enochs WS.Cerebral iron oxide distribution: in vivo mapping with MR imaging.Radiology. 1995 Aug;196(2):521-7.PubMed [citation] PMID: 7617871

14. Yu O, Namer IJ, Steibel J, Eclancher B, Poulet P, Chambron J.Susceptibility-based MRI contrast of the CSF by intravascular superparamagnetic nanoparticles.MAGMA. 1995 Sep-Dec;3(3-4):169-72.PubMed [citation] PMID: 8749736

15. Muldoon LL, Nilaver G, Kroll RA, Pagel MA, Breakefield XO, Chiocca EA, Davidson BL, Weissleder R, Neuwelt EA.Comparison of intracerebral inoculation and osmotic blood-brain barrier disruption for delivery of adenovirus, herpesvirus, and iron oxide particles to normal rat brain.Am J Pathol. 1995 Dec;147(6):1840-51.PubMed [citation] PMID: 7495307, PMCID: PMC1869962

16. Rainov NG, Zimmer C, Chase M, Kramm CM, Chiocca EA, Weissleder R, Breakefield XO.Selective uptake of viral and monocrystalline particles delivered intra-arterially to experimental brain neoplasms.Hum Gene Ther. 1995 Dec;6(12):1543-52.PubMed [citation] PMID: 8664379

17. Benderbous S, Bonnemain B.[Magnetic resonance contract agents and perfusion imaging].J Mal Vasc. 1996;21(1):16-21. French. PubMed [citation] PMID: 8656086

18. Schröder U, Sabel BA.Nanoparticles, a drug carrier system to pass the blood-brain barrier, permit central analgesic effects of i.v. dalargin injections.Brain Res. 1996 Feb 26;710(1-2):121-4.PubMed [citation] PMID: 8963650

19. Remsen LG, McCormick CI, Roman-Goldstein S, Nilaver G, Weissleder R, Bogdanov A, Hellström I, Kroll RA, Neuwelt EA.MR of carcinoma-specific monoclonal antibody conjugated to monocrystalline iron oxide nanoparticles: the potential for noninvasive diagnosis.AJNR Am J Neuroradiol. 1996 Mar;17(3):411-8.PubMed [citation] PMID: 8881233

20. Aliautdin RN, Petrov VE, Ivanov AA, Kreuter J, Kharkevich DA.[Transport of the hexapeptide dalargin across the hemato-encephalic barrier into the brain using polymer nanoparticles].Eksp Klin Farmakol. 1996 May-Jun;59(3):57-60. Russian.

PubMed [citation] PMID: 8974587

21. Kreuter J.Nanoparticles and microparticles for drug and vaccine delivery.J Anat. 1996 Dec;189 (Pt 3):503-5. Review.PubMed [citation] PMID: 8982823, PMCID: PMC1167690

22. Gehr P, Green FH, Geiser M, Im Hof V, Lee MM, Schürch S.Airway surfactant, a primary defense barrier: mechanical and immunological aspects.J Aerosol Med. 1996 Summer;9(2):163-81. Review.PubMed [citation] PMID: 10163349

23. Alyautdin RN, Petrov VE, Langer K, Berthold A, Kharkevich DA, Kreuter J.Delivery of loperamide across the blood-brain barrier with polysorbate 80-coated polybutylcyanoacrylate nanoparticles.Pharm Res. 1997 Mar;14(3):325-8.PubMed [citation] PMID: 9098875

24. Peters A, Wichmann HE, Tuch T, Heinrich J, Heyder J.Respiratory effects are associated with the number of ultrafine particles.Am J Respir Crit Care Med. 1997 Apr;155(4):1376-83.PubMed [citation] PMID: 9105082

25. Lu DR, Mehta SC, Chen W.Selective boron drug delivery to brain tumors for boron neutron capture therapy.Adv Drug Deliv Rev. 1997 Jul 7;26(2-3):231-247.PubMed [citation] PMID: 10837545

26. Ueda M, Kreuter J.Optimization of the preparation of loperamide-loaded poly (L-lactide) nanoparticles by high pressure emulsification-solvent evaporation.J Microencapsul. 1997 Sep-Oct;14(5):593-605.PubMed [citation] PMID: 9292435

27. Rousseau V, Denizot B, Pouliquen D, Jallet P, Le Jeune JJ.Investigation of blood-brain barrier permeability to magnetite-dextran nanoparticles (MD3) after osmotic disruption in rats.MAGMA. 1997 Sep;5(3):213-22.PubMed [citation] PMID: 9351025

28. Alyautdin RN, Tezikov EB, Ramge P, Kharkevich DA, Begley DJ, Kreuter J.Significant entry of tubocurarine into the brain of rats by adsorption to polysorbate 80-coated polybutylcyanoacrylate nanoparticles: an in situ brain perfusion study.J Microencapsul. 1998 Jan-Feb;15(1):67-74.PubMed [citation] PMID: 9463808

29. Aliautdin RN, Petrov VE, Langer K, Berthold A, Kreuter J, Kharkevich DA.[The delivery of loperamide to the brain by using polybutyl cyanoacrylate nanoparticles].Eksp Klin Farmakol. 1998 Jan-Feb;61(1):17-20. Russian. PubMed [citation] PMID: 9575405

30. Schroeder U, Sommerfeld P, Sabel BA.Efficacy of oral dalargin-loaded nanoparticle delivery across the blood-brain barrier.Peptides. 1998;19(4):777-80.PubMed [citation] PMID: 9622035

31. Kroll RA, Pagel MA, Muldoon LL, Roman-Goldstein S, Fiamengo SA, Neuwelt EA.Improving drug delivery to intracerebral tumor and surrounding brain in a rodent model: a comparison of osmotic versus bradykinin modification of the

blood-brain and/or blood-tumor barriers.Neurosurgery. 1998 Oct;43(4):879-86; discussion 886-9.PubMed [citation] PMID: 9766316

32. Schroeder U, Sommerfeld P, Ulrich S, Sabel BA.Nanoparticle technology for delivery of drugs across the blood-brain barrier.J Pharm Sci. 1998 Nov;87(11):1305-7.PubMed [citation] PMID: 9811481

33. Salvi S, Blomberg A, Rudell B, Kelly F, Sandström T, Holgate ST, Frew A.Acute inflammatory responses in the airways and peripheral blood after short-term exposure to diesel exhaust in healthy human volunteers.Am J Respir Crit Care Med. 1999 Mar;159(3):702-9.PubMed [citation] PMID: 10051240

34. Yang S, Zhu J, Lu Y, Liang B, Yang C.Body distribution of camptothecin solid lipid nanoparticles after oral administration.Pharm Res. 1999 May;16(5):751-7.PubMed [citation] PMID: 10350020

35. Tsao N, Kanakamma PP, Luh TY, Chou CK, Lei HY.Inhibition of Escherichia coli-induced meningitis by carboxyfullerence.Antimicrob Agents Chemother. 1999 Sep;43(9):2273-7.PubMed [citation] PMID: 10471578, PMCID: PMC89460

36. Schroeder U, Sabel BA, Schroeder H.Diffusion enhancement of drugs by loaded nanoparticles in vitro.Prog Neuropsychopharmacol Biol Psychiatry. 1999 Jul;23(5):941-9.PubMed [citation] PMID: 10509386

37. Fenart L, Casanova A, Dehouck B, Duhem C, Slupek S, Cecchelli R, Betbeder D.Evaluation of effect of charge and lipid coating on ability of 60-nm nanoparticles to cross an in vitro model of the blood-brain barrier.J Pharmacol Exp Ther. 1999 Dec;291(3):1017-22.PubMed [citation] PMID: 10565819

38. Ramge P, Kreuter J, Lemmer B.Circadian phase-dependent antinociceptive reaction in mice determined by the hot-plate test and the tail-flick test after intravenous injection of dalargin-loaded nanoparticles.Chronobiol Int. 1999 Nov;16(6):767-77.PubMed [citation] PMID: 10584177

39. Gulyaev AE, Gelperina SE, Skidan IN, Antropov AS, Kivman GY, Kreuter J.Significant transport of doxorubicin into the brain with polysorbate 80-coated nanoparticles.Pharm Res. 1999 Oct;16(10):1564-9.PubMed [citation] PMID: 10554098

40. Olivier JC, Fenart L, Chauvet R, Pariat C, Cecchelli R, Couet W.Indirect evidence that drug brain targeting using polysorbate 80-coated polybutylcyanoacrylate nanoparticles is related to toxicity.Pharm Res. 1999 Dec;16(12):1836-42.PubMed [citation] PMID: 10644071

41. Salvi SS, Nordenhall C, Blomberg A, Rudell B, Pourazar J, Kelly FJ, Wilson S, Sandström T, Holgate ST, Frew AJ.Acute exposure to diesel exhaust increases IL-8 and GRO-alpha production in healthy human airways.Am J Respir Crit Care Med. 2000 Feb;161(2 Pt 1):550-7.PubMed [citation] PMID: 10673199

42. Friese A, Seiller E, Quack G, Lorenz B, Kreuter J.Increase of the duration of the anticonvulsive activity of a novel NMDA receptor antagonist using

poly(butylcyanoacrylate) nanoparticles as a parenteral controlled release system.Eur J Pharm Biopharm. 2000 Mar;49(2):103-9.PubMed [citation] PMID: 10704892

43. Stone V, Tuinman M, Vamvakopoulos JE, Shaw J, Brown D, Petterson S, Faux SP, Borm P, MacNee W, Michaelangeli F, Donaldson K.Increased calcium influx in a monocytic cell line on exposure to ultrafine carbon black.Eur Respir J. 2000 Feb;15(2):297-303.PubMed [citation] PMID: 10706495

44. Schroeder U, Schroeder H, Sabel BA.Body distribution of 3H-labelled dalargin bound to poly(butyl cyanoacrylate) nanoparticles after i.v. injections to mice.Life Sci. 2000;66(6):495-502.PubMed [citation] PMID: 10794066

45. Ramge P, Unger RE, Oltrogge JB, Zenker D, Begley D, Kreuter J, Von Briesen H.Polysorbate-80 coating enhances uptake of polybutylcyanoacrylate (PBCA)-nanoparticles by human and bovine primary brain capillary endothelial cells.Eur J Neurosci. 2000 Jun;12(6):1931-40.PubMed [citation] PMID: 10886334

46. Diaz-Sanchez D, Jyrala M, Ng D, Nel A, Saxon A.In vivo nasal challenge with diesel exhaust particles enhances expression of the CC chemokines rantes, MIP-1alpha, and MCP-3 in humans.Clin Immunol. 2000 Nov;97(2):140-5.PubMed [citation] PMID: 11027454

47. Johnston CJ, Finkelstein JN, Mercer P, Corson N, Gelein R, Oberdörster G.Pulmonary effects induced by ultrafine PTFE particles.Toxicol Appl Pharmacol. 2000 Nov 1;168(3):208-15.PubMed [citation] PMID: 11042093

48. Darius J, Meyer FP, Sabel BA, Schroeder U.Influence of nanoparticles on the brain-to-serum distribution and the metabolism of valproic acid in mice.J Pharm Pharmacol. 2000 Sep;52(9):1043-7.PubMed [citation] PMID: 11045883

49. Samet JM, Dominici F, Curriero FC, Coursac I, Zeger SL.Fine particulate air pollution and mortality in 20 U.S. cities, 1987-1994.N Engl J Med. 2000 Dec 14;343(24):1742-9.PubMed [citation] PMID: 11114312

50. Oberdörster G, Finkelstein JN, Johnston C, Gelein R, Cox C, Baggs R, Elder AC.Acute pulmonary effects of ultrafine particles in rats and mice.Res Rep Health Eff Inst. 2000 Aug;(96):5-74; disc. 75-86.PubMed [citation] PMID: 11205815

51. Kreuter J.Nanoparticulate systems for brain delivery of drugs.Adv Drug Deliv Rev. 2001 Mar 23;47(1):65-81. Review.PubMed [citation] PMID: 11251246

52. Gessner A, Olbrich C, Schröder W, Kayser O, Müller RH.The role of plasma proteins in brain targeting: species dependent protein adsorption patterns on brain-specific lipid drug conjugate (LDC) nanoparticles.Int J Pharm. 2001 Feb 19;214(1-2):87-91.PubMed [citation] PMID: 11282243

53. Merodio M, Irache JM, Eclancher F, Mirshahi M, Villarroya H.Distribution of albumin nanoparticles in animals induced with the experimental allergic encephalomyelitis.J Drug Target. 2000;8(5):289-303.PubMed [citation] PMID:

11328657

54. Bargoni A, Cavalli R, Zara GP, Fundarò A, Caputo O, Gasco MR.Transmucosal transport of tobramycin incorporated in solid lipid nanoparticles (SLN) after duodenal administration to rats. Part II--tissue distribution.Pharmacol Res. 2001 May;43(5):497-502.PubMed [citation] PMID: 11394943

55. Peters A, Dockery DW, Muller JE, Mittleman MA.Increased particulate air pollution and the triggering of myocardial infarction.Circulation. 2001 Jun 12;103(23):2810-5.PubMed [citation] PMID: 11401937

56. Takenaka S, Karg E, Roth C, Schulz H, Ziesenis A, Heinzmann U, Schramel P, Heyder J.Pulmonary and systemic distribution of inhaled ultrafine silver particles in rats.Environ Health Perspect. 2001 Aug;109 Suppl 4:547-51.PubMed [citation] PMID: 11544161, PMCID: PMC1240579

57. Calvo P, Gouritin B, Chacun H, Desmaële D, D'Angelo J, Noel JP, Georgin D, Fattal E, Andreux JP, Couvreur P.Long-circulating PEGylated polycyanoacrylate nanoparticles as new drug carrier for brain delivery.Pharm Res. 2001 Aug;18(8):1157-66.PubMed [citation] PMID: 11587488

58. Alyaudtin RN, Reichel A, Löbenberg R, Ramge P, Kreuter J, Begley DJ.Interaction of poly(butylcyanoacrylate) nanoparticles with the blood-brain barrier in vivo and in vitro.J Drug Target. 2001 Jun;9(3):209-21.PubMed [citation] PMID: 11697206

59. Nemmar A, Vanbilloen H, Hoylaerts MF, Hoet PH, Verbruggen A, Nemery B.Passage of intratracheally instilled ultrafine particles from the lung into the systemic circulation in hamster.Am J Respir Crit Care Med. 2001 Nov 1;164(9):1665-8.PubMed [citation] PMID: 11719307

60. Gelperina SE, Khalansky AS, Skidan IN, Smirnova ZS, Bobruskin AI, Severin SE, Turowski B, Zanella FE, Kreuter J.Toxicological studies of doxorubicin bound to polysorbate 80-coated poly(butyl cyanoacrylate) nanoparticles in healthy rats and rats with intracranial glioblastoma.Toxicol Lett. 2002 Jan 25;126(2):131-41.PubMed [citation] PMID: 11751017

61. Lode J, Fichtner I, Kreuter J, Berndt A, Diederichs JE, Reszka R.Influence of surface-modifying surfactants on the pharmacokinetic behavior of 14C-poly (methylmethacrylate) nanoparticles in experimental tumor models.Pharm Res. 2001 Nov;18(11):1613-9.PubMed [citation] PMID: 11758771

62. Brown JS, Zeman KL, Bennett WD.Regional deposition of coarse particles and ventilation distribution in healthy subjects and patients with cystic fibrosis.J Aerosol Med. 2001 Winter;14(4):443-54.PubMed [citation] PMID: 11791685

63. Nemmar A, Hoet PH, Vanquickenborne B, Dinsdale D, Thomeer M, Hoylaerts MF, Vanbilloen H, Mortelmans L, Nemery B.Passage of inhaled particles into the blood circulation in humans.Circulation. 2002 Jan 29;105(4):411-4.PubMed [citation] PMID: 11815420

64. Lockman PR, Mumper RJ, Khan MA, Allen DD.Nanoparticle technology for drug delivery across the blood-brain barrier.Drug Dev Ind Pharm. 2002 Jan;28(1):1-13. Review.PubMed [citation] PMID: 11858519

65. Suwa T, Hogg JC, Quinlan KB, Ohgami A, Vincent R, van Eeden SF.Particulate air pollution induces progression of atherosclerosis.J Am Coll Cardiol. 2002 Mar 20;39(6):935-42.PubMed [citation] PMID: 11897432

66. Wichmann HE, Spix C, Tuch T, Wölke G, Peters A, Heinrich J, Kreyling WG, Heyder J.Daily mortality and fine and ultrafine particles in Erfurt, Germany part I: role of particle number and particle mass.Res Rep Health Eff Inst. 2000 Nov;(98):5-86; discussion 87-94.PubMed [citation] PMID: 11918089

67. Lehn JM.Toward complex matter: supramolecular chemistry and self-organization.Proc Natl Acad Sci U S A. 2002 Apr 16;99(8):4763-8. Epub 2002 Apr 2. No abstract available. PubMed [citation] PMID: 11929970, PMCID: PMC122664

68. Zara GP, Bargoni A, Cavalli R, Fundarò A, Vighetto D, Gasco MR.Pharmacokinetics and tissue distribution of idarubicin-loaded solid lipid nanoparticles after duodenal administration to rats.J Pharm Sci. 2002 May;91(5):1324-33.PubMed [citation] PMID: 11977108

69. Calvo P, Gouritin B, Villarroya H, Eclancher F, Giannavola C, Klein C, Andreux JP, Couvreur P.Quantification and localization of PEGylated polycyanoacrylate nanoparticles in brain and spinal cord during experimental allergic encephalomyelitis in the rat.Eur J Neurosci. 2002 Apr;15(8):1317-26.PubMed [citation] PMID: 11994126

70. Lomer MC, Thompson RP, Powell JJ.Fine and ultrafine particles of the diet: influence on the mucosal immune response and association with Crohn's disease.Proc Nutr Soc. 2002 Feb;61(1):123-30. Review.PubMed [citation] PMID: 12002786

71. Chuang VT, Kragh-Hansen U, Otagiri M.Pharmaceutical strategies utilizing recombinant human serum albumin.Pharm Res. 2002 May;19(5):569-77. Review.PubMed [citation] PMID: 12069157

72. Oberdörster G.Toxicokinetics and effects of fibrous and nonfibrous particles.Inhal Toxicol. 2002 Jan;14(1):29-56. Review.PubMed [citation] PMID: 12122559

73. Fisher RS, Ho J.Potential new methods for antiepileptic drug delivery.CNS Drugs. 2002;16(9):579-93. Review.PubMed [citation] PMID: 12153331

74. Kreuter J, Shamenkov D, Petrov V, Ramge P, Cychutek K, Koch-Brandt C, Alyautdin R.Apolipoprotein-mediated transport of nanoparticle-bound drugs across the blood-brain barrier.J Drug Target. 2002 Jun;10(4):317-25.PubMed [citation] PMID: 12164380

75. von Klot S, Wölke G, Tuch T, Heinrich J, Dockery DW, Schwartz J, Kreyling WG,

Wichmann HE, Peters A.Increased asthma medication use in association with ambient fine and ultrafine particles.Eur Respir J. 2002 Sep;20(3):691-702.PubMed [citation] PMID: 12358349

76. Nemmar A, Hoylaerts MF, Hoet PH, Dinsdale D, Smith T, Xu H, Vermylen J, Nemery B.Ultrafine particles affect experimental thrombosis in an in vivo hamster model.Am J Respir Crit Care Med. 2002 Oct 1;166(7):998-1004.PubMed [citation] PMID: 12359661

77. Kreyling WG, Semmler M, Erbe F, Mayer P, Takenaka S, Schulz H, Oberdörster G, Ziesenis A.Translocation of ultrafine insoluble iridium particles from lung epithelium to extrapulmonary organs is size dependent but very low.J Toxicol Environ Health A. 2002 Oct 25;65(20):1513-30.PubMed [citation] PMID: 12396866

78. Oberdörster G, Sharp Z, Atudorei V, Elder A, Gelein R, Lunts A, Kreyling W, Cox C.Extrapulmonary translocation of ultrafine carbon particles following whole-body inhalation exposure of rats.J Toxicol Environ Health A. 2002 Oct 25;65(20):1531-43.PubMed [citation] PMID: 12396867

79. Brown JS, Zeman KL, Bennett WD.Ultrafine particle deposition and clearance in the healthy and obstructed lung.Am J Respir Crit Care Med. 2002 Nov 1;166(9):1240-7.PubMed [citation] PMID: 12403694

80. Olbrich C, Gessner A, Kayser O, Müller RH.Lipid-drug-conjugate (LDC) nanoparticles as novel carrier system for the hydrophilic antitrypanosomal drug diminazenediaceturate.J Drug Target. 2002 Aug;10(5):387-96.PubMed [citation] PMID: 12442809

81. Wang JX, Sun X, Zhang ZR.Enhanced brain targeting by synthesis of 3',5'-dioctanoyl-5-fluoro-2'-deoxyuridine and incorporation into solid lipid nanoparticles.Eur J Pharm Biopharm. 2002 Nov;54(3):285-90.PubMed [citation] PMID: 12445558

82. Wilson MR, Lightbody JH, Donaldson K, Sales J, Stone V.Interactions between ultrafine particles and transition metals in vivo and in vitro.Toxicol Appl Pharmacol. 2002 Nov 1;184(3):172-9.PubMed [citation] PMID: 12460745

83. Härtig W, Paulke BR, Varga C, Seeger J, Harkany T, Kacza J.Electron microscopic analysis of nanoparticles delivering thioflavin-T after intrahippocampal injection in mouse: implications for targeting beta-amyloid in Alzheimer's disease.Neurosci Lett. 2003 Feb 27;338(2):174-6.PubMed [citation] PMID: 12566180

84. Bogoyevitch MA, Kendrick TS, Ng DC, Barr RK.Taking the cell by stealth or storm? Protein transduction domains (PTDs) as versatile vectors for delivery.DNA Cell Biol. 2002 Dec;21(12):879-94. Review.PubMed [citation] PMID: 12573048

85. Nemmar A, Hoylaerts MF, Hoet PH, Vermylen J, Nemery B.Size effect of intratracheally instilled particles on pulmonary inflammation and vascular thrombosis.Toxicol Appl Pharmacol. 2003 Jan 1;186(1):38-45.PubMed [citation] PMID: 12583991

86. Nemmar A, Hoet PH, Dinsdale D, Vermylen J, Hoylaerts MF, Nemery B.Diesel exhaust particles in lung acutely enhance experimental peripheral thrombosis.Circulation. 2003 Mar 4;107(8):1202-8.PubMed [citation] PMID: 12615802

87. Westedt U, Barbu-Tudoran L, Schaper AK, Kalinowski M, Alfke H, Kissel T.Deposition of nanoparticles in the arterial vessel by porous balloon catheters: localization by confocal laser scanning microscopy and transmission electron microscopy.AAPS PharmSci. 2002;4(4):E41.PubMed [citation] PMID: 12646012, PMCID: PMC2751330

88. Kreuter J, Ramge P, Petrov V, Hamm S, Gelperina SE, Engelhardt B, Alyautdin R, von Briesen H, Begley DJ.Direct evidence that polysorbate-80-coated poly(butylcyanoacrylate) nanoparticles deliver drugs to the CNS via specific mechanisms requiring prior binding of drug to the nanoparticles.Pharm Res. 2003 Mar;20(3):409-16.PubMed [citation] PMID: 12669961

89. Li N, Sioutas C, Cho A, Schmitz D, Misra C, Sempf J, Wang M, Oberley T, Froines J, Nel A.Ultrafine particulate pollutants induce oxidative stress and mitochondrial damage.Environ Health Perspect. 2003 Apr;111(4):455-60.PubMed [citation] PMID: 12676598, PMCID: PMC1241427

90. Lockman PR, Koziara J, Roder KE, Paulson J, Abbruscato TJ, Mumper RJ, Allen DD.In vivo and in vitro assessment of baseline blood-brain barrier parameters in the presence of novel nanoparticles.Pharm Res. 2003 May;20(5):705-13.PubMed [citation] PMID: 12751624

91. Hunt A, Abraham JL, Judson B, Berry CL.Toxicologic and epidemiologic clues from the characterization of the 1952 London smog fine particulate matter in archival autopsy lung tissues.Environ Health Perspect. 2003 Jul;111(9):1209-14.PubMed [citation] PMID: 12842775, PMCID: PMC1241576

92. Peira E, Marzola P, Podio V, Aime S, Sbarbati A, Gasco MR.In vitro and in vivo study of solid lipid nanoparticles loaded with superparamagnetic iron oxide.J Drug Target. 2003 Jan;11(1):19-24.PubMed [citation] PMID: 12852437

93. Wadghiri YZ, Sigurdsson EM, Sadowski M, Elliott JI, Li Y, Scholtzova H, Tang CY, Aguinaldo G, Pappolla M, Duff K, Wisniewski T, Turnbull DH.Detection of Alzheimer's amyloid in transgenic mice using magnetic resonance microimaging.Magn Reson Med. 2003 Aug;50(2):293-302.PubMed [citation] PMID: 12876705

94. Elder AC, Gelein R, Finkelstein JN, Cox C, Oberdörster G.Pulmonary inflammatory response to inhaled ultrafine particles is modified by age, ozone exposure, and bacterial toxin.Inhal Toxicol. 2000;12 Suppl 4:227-46.PubMed [citation] PMID: 12881894

95. Xiang JJ, Tang JQ, Zhu SG, Nie XM, Lu HB, Shen SR, Li XL, Tang K, Zhou M, Li GY.IONP-PLL: a novel non-viral vector for efficient gene delivery.J Gene Med. 2003 Sep;5(9):803-17.PubMed [citation] PMID: 12950071

96. Aliautdin RN, Kreuter J, Kharkevich DA.[Drug delivery to the brain with nanoparticles].Eksp Klin Farmakol. 2003 Mar-Apr;66(2):65-8. Review. Russian. PubMed [citation] PMID: 12962052

97. Nemmar A, Nemery B, Hoet PH, Vermylen J, Hoylaerts MF.Pulmonary inflammation and thrombogenicity caused by diesel particles in hamsters: role of histamine.Am J Respir Crit Care Med. 2003 Dec 1;168(11):1366-72. Epub 2003 Sep 11. Erratum in: Am J Respir Crit Care Med. 2004 Apr 1;169(7):885. PubMed [citation] PMID: 12969870

98. Lam CW, James JT, McCluskey R, Hunter RL.Pulmonary toxicity of single-wall carbon nanotubes in mice 7 and 90 days after intratracheal instillation.Toxicol Sci. 2004 Jan;77(1):126-34. Epub 2003 Sep 26.PubMed [citation] PMID: 14514958

99. Brown DM, Donaldson K, Borm PJ, Schins RP, Dehnhardt M, Gilmour P, Jimenez LA, Stone V.Calcium and ROS-mediated activation of transcription factors and TNF-alpha cytokine gene expression in macrophages exposed to ultrafine particles.Am J Physiol Lung Cell Mol Physiol. 2004 Feb;286(2):L344-53. Epub 2003 Oct 10.PubMed [citation] PMID: 14555462

100. Göppert TM, Müller RH.Plasma protein adsorption of Tween 80- and poloxamer 188-stabilized solid lipid nanoparticles.J Drug Target. 2003 May;11(4):225-31.PubMed [citation] PMID: 14578109

101. Lockman PR, Oyewumi MO, Koziara JM, Roder KE, Mumper RJ, Allen DD.Brain uptake of thiamine-coated nanoparticles.J Control Release. 2003 Dec 12;93(3):271-82.PubMed [citation] PMID: 14644577

102. Park JB.Phagocytosis induces superoxide formation and apoptosis in macrophages.Exp Mol Med. 2003 Oct 31;35(5):325-35. Review.PubMed [citation] PMID: 14646585

103. Koziara JM, Lockman PR, Allen DD, Mumper RJ.In situ blood-brain barrier transport of nanoparticles.Pharm Res. 2003 Nov;20(11):1772-8.PubMed [citation] PMID: 14661921

104. Feng SS, Mu L, Win KY, Huang G.Nanoparticles of biodegradable polymers for clinical administration of paclitaxel.Curr Med Chem. 2004 Feb;11(4):413-24.PubMed [citation] PMID: 14965222

105. Steiniger SC, Kreuter J, Khalansky AS, Skidan IN, Bobruskin AI, Smirnova ZS, Severin SE, Uhl R, Kock M, Geiger KD, Gelperina SE.Chemotherapy of glioblastoma in rats using doxorubicin-loaded nanoparticles.Int J Cancer. 2004 May 1;109(5):759-67.PubMed [citation] PMID: 14999786

106. Khandoga A, Stampfl A, Takenaka S, Schulz H, Radykewicz R, Kreyling W, Krombach F.Ultrafine particles exert prothrombotic but not inflammatory effects on the hepatic microcirculation in healthy mice in vivo.Circulation. 2004 Mar 16;109(10):1320-5. Epub 2004 Mar 8.PubMed [citation] PMID: 15007013

107. Nigavekar SS, Sung LY, Llanes M, El-Jawahri A, Lawrence TS, Becker CW, Balogh L, Khan MK.3H dendrimer nanoparticle organ/tumor distribution.Pharm Res. 2004 Mar;21(3):476-83.PubMed [citation] PMID: 15070099

108. Kabanov AV, Batrakova EV.New technologies for drug delivery across the blood brain barrier.Curr Pharm Des. 2004;10(12):1355-63. Review.PubMed [citation] PMID: 15134486, PMCID: PMC2711206

109. Oberdörster G, Sharp Z, Atudorei V, Elder A, Gelein R, Kreyling W, Cox C.Translocation of inhaled ultrafine particles to the brain.Inhal Toxicol. 2004 Jun;16(6-7):437-45.PubMed [citation] PMID: 15204759

110. Semmler M, Seitz J, Erbe F, Mayer P, Heyder J, Oberdörster G, Kreyling WG.Long-term clearance kinetics of inhaled ultrafine insoluble iridium particles from the rat lung, including transient translocation into secondary organs.Inhal Toxicol. 2004 Jun;16(6-7):453-9.PubMed [citation] PMID: 15204761

111. Westedt U, Barbu-Tudoran L, Schaper AK, Kalinowski M, Alfke H, Kissel T.Effects of different application parameters on penetration characteristics and arterial vessel wall integrity after local nanoparticle delivery using a porous balloon catheter.Eur J Pharm Biopharm. 2004 Jul;58(1):161-8.PubMed [citation] PMID: 15207550

112. Rausch M, Hiestand P, Foster CA, Baumann DR, Cannet C, Rudin M.Predictability of FTY720 efficacy in experimental autoimmune encephalomyelitis by in vivo macrophage tracking: clinical implications for ultrasmall superparamagnetic iron oxide-enhanced magnetic resonance imaging.J Magn Reson Imaging. 2004 Jul;20(1):16-24.PubMed [citation] PMID: 15221804

113. Yang CS, Chang CH, Tsai PJ, Chen WY, Tseng FG, Lo LW.Nanoparticle-based in vivo investigation on blood-brain barrier permeability following ischemia and reperfusion.Anal Chem. 2004 Aug 1;76(15):4465-71.PubMed [citation] PMID: 15283589

114. Koziara JM, Lockman PR, Allen DD, Mumper RJ.Paclitaxel nanoparticles for the potential treatment of brain tumors.J Control Release. 2004 Sep 30;99(2):259-69.PubMed [citation] PMID: 15380635

115. Ali SS, Hardt JI, Quick KL, Kim-Han JS, Erlanger BF, Huang TT, Epstein CJ, Dugan LL.A biologically effective fullerene (C60) derivative with superoxide dismutase mimetic properties.Free Radic Biol Med. 2004 Oct 15;37(8):1191-202.PubMed [citation] PMID: 15451059

116. Müller RH, Keck CM.Drug delivery to the brain--realization by novel drug carriers.J Nanosci Nanotechnol. 2004 May;4(5):471-83. Review.PubMed [citation] PMID: 15503432

117. Kreuter J.Influence of the surface properties on nanoparticle-mediated transport of drugs to the brain.J Nanosci Nanotechnol. 2004 May;4(5):484-8. Review.PubMed [citation] PMID: 15503433

118. Borm PJ, Kreyling W.Toxicological hazards of inhaled nanoparticles--potential implications for drug delivery.J Nanosci Nanotechnol. 2004 May;4(5):521-31. Review.PubMed [citation] PMID: 15503438

119. Campbell A, Oldham M, Becaria A, Bondy SC, Meacher D, Sioutas C, Misra C, Mendez LB, Kleinman M.Particulate matter in polluted air may increase biomarkers of inflammation in mouse brain.Neurotoxicology. 2005 Jan;26(1):133-40.PubMed [citation] PMID: 15527881

120. Brown DM, Donaldson K, Stone V.Effects of PM10 in human peripheral blood monocytes and J774 macrophages.Respir Res. 2004 Dec 21;5:29.PubMed [citation] PMID: 15613243, PMCID: PMC545043

121. Lockman PR, Koziara JM, Mumper RJ, Allen DD.Nanoparticle surface charges alter blood-brain barrier integrity and permeability.J Drug Target. 2004;12(9-10):635-41.PubMed [citation] PMID: 15621689

122. Homma S, Miyamoto A, Sakamoto S, Kishi K, Motoi N, Yoshimura K.Pulmonary fibrosis in an individual occupationally exposed to inhaled indium-tin oxide.Eur Respir J. 2005 Jan;25(1):200-4.PubMed [citation] PMID: 15640342

123. Monteiro-Riviere NA, Nemanich RJ, Inman AO, Wang YY, Riviere JE.Multi-walled carbon nanotube interactions with human epidermal keratinocytes.Toxicol Lett. 2005 Mar 15;155(3):377-84.PubMed [citation] PMID: 15649621

124. Cui Z, Lockman PR, Atwood CS, Hsu CH, Gupte A, Allen DD, Mumper RJ.Novel D-penicillamine carrying nanoparticles for metal chelation therapy in Alzheimer's and other CNS diseases.Eur J Pharm Biopharm. 2005 Feb;59(2):263-72.PubMed [citation] PMID: 15661498

125. Santra S, Yang H, Holloway PH, Stanley JT, Mericle RA.Synthesis of water-dispersible fluorescent, radio-opaque, and paramagnetic CdS:Mn/ZnS quantum dots: a multifunctional probe for bioimaging.J Am Chem Soc. 2005 Feb 16;127(6):1656-7.PubMed [citation] PMID: 15700997

126. Stefani D, Wardman D, Lambert T.The implosion of the Calgary General Hospital: ambient air quality issues.J Air Waste Manag Assoc. 2005 Jan;55(1):52-9.PubMed [citation] PMID: 15704539

127. Olivier JC.Drug transport to brain with targeted nanoparticles.NeuroRx. 2005 Jan;2(1):108-19. Review.PubMed [citation] PMID: 15717062, PMCID: PMC539329

128. Frampton MW, Utell MJ, Zareba W, Oberdörster G, Cox C, Huang LS, Morrow PE, Lee FE, Chalupa D, Frasier LM, Speers DM, Stewart J.Effects of exposure to ultrafine carbon particles in healthy subjects and subjects with asthma.Res Rep Health Eff Inst. 2004 Dec;(126):1-47; discussion 49-63.PubMed [citation] PMID: 15768531

129. Donaldson K, Borm P.Particle and Fibre Toxicology, a new journal to meet a real need.Part Fibre Toxicol. 2004 Dec 3;1(1):1.PubMed [citation] PMID: 15813982, PMCID: PMC1074348

130. Long H, Shi T, Borm PJ, Määttä J, Husgafvel-Pursiainen K, Savolainen K, Krombach F.ROS-mediated TNF-alpha and MIP-2 gene expression in alveolar macrophages exposed to pine dust.Part Fibre Toxicol. 2004 Dec 13;1(1):3.PubMed [citation] PMID: 15813983, PMCID: PMC1074350

131. Lu W, Tan YZ, Hu KL, Jiang XG.Cationic albumin conjugated pegylated nanoparticle with its transcytosis ability and little toxicity against blood-brain barrier.Int J Pharm. 2005 May 13;295(1-2):247-60.PubMed [citation] PMID: 15848009

132. Das D, Lin S.Double-coated poly (butylcynanoacrylate) nanoparticulate delivery systems for brain targeting of dalargin via oral administration.J Pharm Sci. 2005 Jun;94(6):1343-53.PubMed [citation] PMID: 15858853

133. Garcia-Garcia E, Andrieux K, Gil S, Couvreur P.Colloidal carriers and blood-brain barrier (BBB) translocation: a way to deliver drugs to the brain?Int J Pharm. 2005 Jul 25;298(2):274-92. Review.PubMed [citation] PMID: 15896933

134. Garcia-Garcia E, Gil S, Andrieux K, Desmaële D, Nicolas V, Taran F, Georgin D, Andreux JP, Roux F, Couvreur P.A relevant in vitro rat model for the evaluation of blood-brain barrier translocation of nanoparticles.Cell Mol Life Sci. 2005 Jun;62(12):1400-8.PubMed [citation] PMID: 15905957, PMCID: PMC2773840

135. Garcia-Garcia E, Andrieux K, Gil S, Kim HR, Le Doan T, Desmaële D, d'Angelo J, Taran F, Georgin D, Couvreur P.A methodology to study intracellular distribution of nanoparticles in brain endothelial cells.Int J Pharm. 2005 Jul 25;298(2):310-4.PubMed [citation] PMID: 15923094

136. Roux F, Couraud PO.Rat brain endothelial cell lines for the study of blood-brain barrier permeability and transport functions.Cell Mol Neurobiol. 2005 Feb;25(1):41-58. Review.PubMed [citation] PMID: 15962508

137. Wang HF, Hu Y, Sun WQ, Xie CS.[Polylactic acid nanoparticles across the brain-blood barrier observed with analytical electron microscopy].Sheng Wu Gong Cheng Xue Bao. 2004 Sep;20(5):790-4. Chinese. PubMed [citation] PMID: 15974011

138. Fortner JD, Lyon DY, Sayes CM, Boyd AM, Falkner JC, Hotze EM, Alemany LB, Tao YJ, Guo W, Ausman KD, Colvin VL, Hughes JB.C60 in water: nanocrystal formation and microbial response.Environ Sci Technol. 2005 Jun 1;39(11):4307-16.PubMed [citation] PMID: 15984814

139. Oberdörster G, Oberdörster E, Oberdörster J.Nanotoxicology: an emerging discipline evolving from studies of ultrafine particles.Environ Health Perspect. 2005 Jul;113(7):823-39. Review. Erratum in: Environ Health Perspect. 2010 Sep;118(9):A380. PubMed [citation] PMID: 16002369, PMCID: PMC1257642

140. Liu G, Garrett MR, Men P, Zhu X, Perry G, Smith MA.Nanoparticle and other metal chelation therapeutics in Alzheimer disease.Biochim Biophys Acta. 2005 Sep 25;1741(3):246-52. Review.PubMed [citation] PMID: 16051470

141. Delfino RJ, Sioutas C, Malik S.Potential role of ultrafine particles in associations between airborne particle mass and cardiovascular health.Environ Health Perspect. 2005 Aug;113(8):934-46. Review.PubMed [citation] PMID: 16079061, PMCID: PMC1280331

142. Sioutas C, Delfino RJ, Singh M.Exposure assessment for atmospheric ultrafine particles (UFPs) and implications in epidemiologic research.Environ Health Perspect. 2005 Aug;113(8):947-55. Review.PubMed [citation] PMID: 16079062, PMCID: PMC1280332

143. Penn A, Murphy G, Barker S, Henk W, Penn L.Combustion-derived ultrafine particles transport organic toxicants to target respiratory cells.Environ Health Perspect. 2005 Aug;113(8):956-63.PubMed [citation] PMID: 16079063, PMCID: PMC1280333

144. Risom L, Møller P, Loft S.Oxidative stress-induced DNA damage by particulate air pollution.Mutat Res. 2005 Dec 30;592(1-2):119-37. Epub 2005 Aug 8. Review.PubMed [citation] PMID: 16085126

145. Huang KH, Zhu ZH, Liu JH, Chen QK, Liu XY, Chang J.[Preparation and release efficiency of polylactic acid nanoparticle].Ai Zheng. 2005 Aug;24(8):1023-6. Chinese. PubMed [citation] PMID: 16086887

146. Costantino L, Gandolfi F, Tosi G, Rivasi F, Vandelli MA, Forni F.Peptide-derivatized biodegradable nanoparticles able to cross the blood-brain barrier.J Control Release. 2005 Nov 2;108(1):84-96. Epub 2005 Sep 8.PubMed [citation] PMID: 16154222

147. Chen MY, Hoffer A, Morrison PF, Hamilton JF, Hughes J, Schlageter KS, Lee J, Kelly BR, Oldfield EH.Surface properties, more than size, limiting convective distribution of virus-sized particles and viruses in the central nervous system.J Neurosurg. 2005 Aug;103(2):311-9.PubMed [citation] PMID: 16175862

148. Tsuji JS, Maynard AD, Howard PC, James JT, Lam CW, Warheit DB, Santamaria AB.Research strategies for safety evaluation of nanomaterials, part IV: risk assessment of nanoparticles.Toxicol Sci. 2006 Jan;89(1):42-50. Epub 2005 Sep 21. Review.PubMed [citation] PMID: 16177233

149. Kipen HM, Laskin DL.Smaller is not always better: nanotechnology yields nanotoxicology.Am J Physiol Lung Cell Mol Physiol. 2005 Nov;289(5):L696-7. Review. No abstract available. PubMed [citation] PMID: 16214820

150. Manninger SP, Muldoon LL, Nesbit G, Murillo T, Jacobs PM, Neuwelt EA.An exploratory study of ferumoxtran-10 nanoparticles as a blood-brain barrier imaging agent targeting phagocytic cells in CNS inflammatory lesions.AJNR Am J Neuroradiol. 2005 Oct;26(9):2290-300.PubMed [citation] PMID: 16219835

151. Kim JS, Yoon TJ, Yu KN, Kim BG, Park SJ, Kim HW, Lee KH, Park SB, Lee JK, Cho MH.Toxicity and tissue distribution of magnetic nanoparticles in mice.Toxicol Sci. 2006 Jan;89(1):338-47. Epub 2005 Oct 19. Erratum in: Toxicol Sci. 2006 Mar;90(1):267. PubMed [citation] PMID: 16237191

152. Muldoon LL, Sàndor M, Pinkston KE, Neuwelt EA.Imaging, distribution, and toxicity of superparamagnetic iron oxide magnetic resonance nanoparticles in the rat brain and intracerebral tumor.Neurosurgery. 2005 Oct;57(4):785-96; discussion 785-96.PubMed [citation] PMID: 16239893

153. Donaldson K, Tran L, Jimenez LA, Duffin R, Newby DE, Mills N, MacNee W, Stone V.Combustion-derived nanoparticles: a review of their toxicology following inhalation exposure.Part Fibre Toxicol. 2005 Oct 21;2:10.PubMed [citation] PMID: 16242040, PMCID: PMC1280930

154. Koruga D, Nikolić A, Mihajlović S, Matija L.Nanomagnetic behavior of fullerene thin films in Earth magnetic field in dark and under polarization light influences.J Nanosci Nanotechnol. 2005 Oct;5(10):1660-4.PubMed [citation] PMID: 16245524

155. Roney C, Kulkarni P, Arora V, Antich P, Bonte F, Wu A, Mallikarjuana NN, Manohar S, Liang HF, Kulkarni AR, Sung HW, Sairam M, Aminabhavi TM.Targeted nanoparticles for drug delivery through the blood-brain barrier for Alzheimer's disease.J Control Release. 2005 Nov 28;108(2-3):193-214. Epub 2005 Oct 24. Review.PubMed [citation] PMID: 16246446

156. Inoue K, Takano H, Yanagisawa R, Hirano S, Ichinose T, Shimada A, Yoshikawa T.The role of toll-like receptor 4 in airway inflammation induced by diesel exhaust particles.Arch Toxicol. 2006 May;80(5):275-9. Epub 2005 Oct 28.PubMed [citation] PMID: 16254717

157. Geiser M, Rothen-Rutishauser B, Kapp N, Schürch S, Kreyling W, Schulz H, Semmler M, Im Hof V, Heyder J, Gehr P.Ultrafine particles cross cellular membranes by nonphagocytic mechanisms in lungs and in cultured cells.Environ Health Perspect. 2005 Nov;113(11):1555-60.PubMed [citation] PMID: 16263511, PMCID: PMC1310918

158. Aktaş Y, Yemisci M, Andrieux K, Gürsoy RN, Alonso MJ, Fernandez-Megia E, Novoa-Carballal R, Quiñoá E, Riguera R, Sargon MF, Celik HH, Demir AS, Hincal AA, Dalkara T, Capan Y, Couvreur P.Development and brain delivery of chitosan-PEG nanoparticles functionalized with the monoclonal antibody OX26.Bioconjug Chem. 2005 Nov-Dec;16(6):1503-11.PubMed [citation] PMID: 16287248

159. Chen Y, Dalwadi G, Benson HA.Drug delivery across the blood-brain barrier.Curr Drug Deliv. 2004 Oct;1(4):361-76. Review.PubMed [citation] PMID: 16305398

160. Tarnuzzer RW, Colon J, Patil S, Seal S.Vacancy engineered ceria nanostructures for protection from radiation-induced cellular damage.Nano Lett. 2005 Dec;5(12):2573-7.PubMed [citation] PMID: 16351218

161. Klajnert B, Janiszewska J, Urbanczyk-Lipkowska Z, Bryszewska M, Shcharbin D, Labieniec M.Biological properties of low molecular mass peptide dendrimers.Int J Pharm. 2006 Feb 17;309(1-2):208-17. Epub 2006 Jan 18.PubMed [citation] PMID: 16386860

162. Ambruosi A, Yamamoto H, Kreuter J.Body distribution of polysorbate-80 and doxorubicin-loaded [14C]poly(butyl cyanoacrylate) nanoparticles after i.v. administration in rats.J Drug Target. 2005 Dec;13(10):535-42.PubMed [citation] PMID: 16390814

163. Gao K, Jiang X.Influence of particle size on transport of methotrexate across blood brain barrier by polysorbate 80-coated polybutylcyanoacrylate nanoparticles.Int J Pharm. 2006 Mar 9;310(1-2):213-9. Epub 2006 Jan 19.PubMed [citation] PMID: 16426779

164. Hardman R.A toxicologic review of quantum dots: toxicity depends on physicochemical and environmental factors.Environ Health Perspect. 2006 Feb;114(2):165-72. Review.PubMed [citation] PMID: 16451849, PMCID: PMC1367826

165. Blasini DR, Flores-Torres S, Smilgies DM, Abruña HD.Stepwise self-assembly of ordered supramolecular assemblies based on coordination chemistry.Langmuir. 2006 Feb 28;22(5):2082-9.PubMed [citation] PMID: 16489792

166. Wu G, Barth RF, Yang W, Lee RJ, Tjarks W, Backer MV, Backer JM.Boron containing macromolecules and nanovehicles as delivery agents for neutron capture therapy.Anticancer Agents Med Chem. 2006 Mar;6(2):167-84. Review.PubMed [citation] PMID: 16529539

167. Michaelis K, Hoffmann MM, Dreis S, Herbert E, Alyautdin RN, Michaelis M, Kreuter J, Langer K.Covalent linkage of apolipoprotein e to albumin nanoparticles strongly enhances drug transport into the brain.J Pharmacol Exp Ther. 2006 Jun;317(3):1246-53. Epub 2006 Mar 22.PubMed [citation] PMID: 16554356

168. Sendova M, Sendova-Vassileva M, Pivin JC, Hofmeister H, Coffey K, Warren A.Experimental study of interaction of laser radiation with silver nanoparticles in SiO2 matrix.J Nanosci Nanotechnol. 2006 Mar;6(3):748-55.PubMed [citation] PMID: 16573132

169. Kar S, Panda SK, Satpati B, Satyam PV, Chaudhuri S.Morphology and size dependent optical properties of CdS nanostructures.J Nanosci Nanotechnol. 2006 Mar;6(3):771-6.PubMed [citation] PMID: 16573135

170. Chen J, Tan M, Nemmar A, Song W, Dong M, Zhang G, Li Y.Quantification of extrapulmonary translocation of intratracheal-instilled particles in vivo in rats: effect of lipopolysaccharide.Toxicology. 2006 May 15;222(3):195-201. Epub 2006 Apr 11.PubMed [citation] PMID: 16584826

171. Mishra V, Mahor S, Rawat A, Gupta PN, Dubey P, Khatri K, Vyas SP.Targeted brain delivery of AZT via transferrin anchored pegylated albumin nanoparticles.J Drug Target. 2006 Jan;14(1):45-53.PubMed [citation] PMID: 16603451

172. Ambruosi A, Khalansky AS, Yamamoto H, Gelperina SE, Begley DJ, Kreuter J.Biodistribution of polysorbate 80-coated doxorubicin-loaded [14C]-poly(butyl cyanoacrylate) nanoparticles after intravenous administration to glioblastoma-bearing rats.J Drug Target. 2006 Feb;14(2):97-105.PubMed [citation]

PMID: 16608736

173. Tiwari SB, Amiji MM.A review of nanocarrier-based CNS delivery systems.Curr Drug Deliv. 2006 Apr;3(2):219-32. Review.PubMed [citation] PMID: 16611008

174. Auger F, Gendron MC, Chamot C, Marano F, Dazy AC.Responses of well-differentiated nasal epithelial cells exposed to particles: role of the epithelium in airway inflammation.Toxicol Appl Pharmacol. 2006 Sep 15;215(3):285-94. Epub 2006 May 2.PubMed [citation] PMID: 16647095

175. Lam CW, James JT, McCluskey R, Arepalli S, Hunter RL.A review of carbon nanotube toxicity and assessment of potential occupational and environmental health risks.Crit Rev Toxicol. 2006 Mar;36(3):189-217. Review.PubMed [citation] PMID: 16686422

176. Zhu S, Oberdörster E, Haasch ML.Toxicity of an engineered nanoparticle (fullerene, C60) in two aquatic species, Daphnia and fathead minnow.Mar Environ Res. 2006 Jul;62 Suppl:S5-9. Epub 2006 Apr 22.PubMed [citation] PMID: 16709433

177. Hussain SM, Javorina AK, Schrand AM, Duhart HM, Ali SF, Schlager JJ.The interaction of manganese nanoparticles with PC-12 cells induces dopamine depletion.Toxicol Sci. 2006 Aug;92(2):456-63. Epub 2006 May 19.PubMed [citation] PMID: 16714391

178. Costantino L, Gandolfi F, Bossy-Nobs L, Tosi G, Gurny R, Rivasi F, Vandelli MA, Forni F.Nanoparticulate drug carriers based on hybrid poly(D,L-lactide-co-glycolide)-dendron structures.Biomaterials. 2006 Sep;27(26):4635-45. Epub 2006 May 22.PubMed [citation] PMID: 16716395

179. Liu H, Ni J, Wang R.In vitro release performance and analgesic activity of endomorphin-1 loaded nanoparticles.Pharmazie. 2006 May;61(5):450-2.PubMed [citation] PMID: 16724544

180. Porter AE, Muller K, Skepper J, Midgley P, Welland M.Uptake of C60 by human monocyte macrophages, its localization and implications for toxicity: studied by high resolution electron microscopy and electron tomography.Acta Biomater. 2006 Jul;2(4):409-19. Epub 2006 Apr 18.PubMed [citation] PMID: 16765881

181. Moss OR, Wong VA.When nanoparticles get in the way: impact of projected area on in vivo and in vitro macrophage function.Inhal Toxicol. 2006 Sep;18(10):711-6.PubMed [citation] PMID: 16774859

182. Kuempel ED, Tran CL, Castranova V, Bailer AJ.Lung dosimetry and risk assessment of nanoparticles: evaluating and extending current models in rats and humans.Inhal Toxicol. 2006 Sep;18(10):717-24.PubMed [citation] PMID: 16774860

183. Phalen RF, Hoover MD.Aerosol dosimetry research needs.Inhal Toxicol. 2006 Sep;18(10):841-3. No abstract available. PubMed [citation] PMID: 16774874

184. Smith MW, Gumbleton M.Endocytosis at the blood-brain barrier: from basic

understanding to drug delivery strategies.J Drug Target. 2006 May;14(4):191-214. Review.PubMed [citation] PMID: 16777679

185. Lu W, Tan YZ, Jiang XG.Establishment of coculture model of blood-brain barrier in vitro for nanoparticle's transcytosis and toxicity evaluation.Yao Xue Xue Bao. 2006 Apr;41(4):296-304.PubMed [citation] PMID: 16856472

186. Garnett MC, Kallinteri P.Nanomedicines and nanotoxicology: some physiological principles.Occup Med (Lond). 2006 Aug;56(5):307-11. Review.PubMed [citation] PMID: 16868128

187. Elder A, Gelein R, Silva V, Feikert T, Opanashuk L, Carter J, Potter R, Maynard A, Ito Y, Finkelstein J, Oberdörster G.Translocation of inhaled ultrafine manganese oxide particles to the central nervous system.Environ Health Perspect. 2006 Aug;114(8):1172-8. Erratum in: Environ Health Perspect. 2006 Aug;114(8):1178. PubMed [citation] PMID: 16882521, PMCID: PMC1552007

188. Zhang QZ, Zha LS, Zhang Y, Jiang WM, Lu W, Shi ZQ, Jiang XG, Fu SK.The brain targeting efficiency following nasally applied MPEG-PLA nanoparticles in rats.J Drug Target. 2006 Jun;14(5):281-90.PubMed [citation] PMID: 16882548

189. Xia T, Kovochich M, Brant J, Hotze M, Sempf J, Oberley T, Sioutas C, Yeh JI, Wiesner MR, Nel AE.Comparison of the abilities of ambient and manufactured nanoparticles to induce cellular toxicity according to an oxidative stress paradigm.Nano Lett. 2006 Aug;6(8):1794-807.PubMed [citation] PMID: 16895376

190. Thrall L.Study links TiO2 nanoparticles with potential for brain-cell damage.Environ Sci Technol. 2006 Jul 15;40(14):4326-7. No abstract available. PubMed [citation] PMID: 16903262

191. Long TC, Saleh N, Tilton RD, Lowry GV, Veronesi B.Titanium dioxide (P25) produces reactive oxygen species in immortalized brain microglia (BV2): implications for nanoparticle neurotoxicity.Environ Sci Technol. 2006 Jul 15;40(14):4346-52.PubMed [citation] PMID: 16903269

192. Auffan M, Decome L, Rose J, Orsiere T, De Meo M, Briois V, Chaneac C, Olivi L, Berge-Lefranc JL, Botta A, Wiesner MR, Bottero JY.In vitro interactions between DMSA-coated maghemite nanoparticles and human fibroblasts: A physicochemical and cyto-genotoxical study.Environ Sci Technol. 2006 Jul 15;40(14):4367-73.PubMed [citation] PMID: 16903272

193. Borm PJ, Robbins D, Haubold S, Kuhlbusch T, Fissan H, Donaldson K, Schins R, Stone V, Kreyling W, Lademann J, Krutmann J, Warheit D, Oberdorster E.The potential risks of nanomaterials: a review carried out for ECETOC.Part Fibre Toxicol. 2006 Aug 14;3:11.PubMed [citation] PMID: 16907977, PMCID: PMC1584248

194. Liu G, Men P, Harris PL, Rolston RK, Perry G, Smith MA.Nanoparticle iron chelators: a new therapeutic approach in Alzheimer disease and other neurologic disorders associated with trace metal imbalance.Neurosci Lett. 2006 Oct 9;406(3):189-93. Epub 2006 Aug 21.PubMed [citation] PMID: 16919875

195. Kuo YC, Chen HH.Effect of nanoparticulate polybutylcyanoacrylate and methylmethacrylate-sulfopropylmethacrylate on the permeability of zidovudine and lamivudine across the in vitro blood-brain barrier.Int J Pharm. 2006 Dec 11;327(1-2):160-9. Epub 2006 Jul 29.PubMed [citation] PMID: 16939704

196. Danscher G, Stoltenberg M.Silver enhancement of quantum dots resulting from (1) metabolism of toxic metals in animals and humans, (2) in vivo, in vitro and immersion created zinc-sulphur/zinc-selenium nanocrystals, (3) metal ions liberated from metal implants and particles.Prog Histochem Cytochem. 2006;41(2):57-139. Epub 2006 Aug 7. Review.PubMed [citation] PMID: 16949439

197. Hynynen K, McDannold N, Vykhodtseva N, Raymond S, Weissleder R, Jolesz FA, Sheikov N.Focal disruption of the blood-brain barrier due to 260-kHz ultrasound bursts: a method for molecular imaging and targeted drug delivery.J Neurosurg. 2006 Sep;105(3):445-54.PubMed [citation] PMID: 16961141

198. Peters A, Veronesi B, Calderón-Garcidueñas L, Gehr P, Chen LC, Geiser M, Reed W, Rothen-Rutishauser B, Schürch S, Schulz H.Translocation and potential neurological effects of fine and ultrafine particles a critical update.Part Fibre Toxicol. 2006 Sep 8;3:13.PubMed [citation] PMID: 16961926, PMCID: PMC1570474

199. Ambruosi A, Gelperina S, Khalansky A, Tanski S, Theisen A, Kreuter J.Influence of surfactants, polymer and doxorubicin loading on the anti-tumour effect of poly(butyl cyanoacrylate) nanoparticles in a rat glioma model.J Microencapsul. 2006 Aug;23(5):582-92.PubMed [citation] PMID: 16980278

200. Yao P, Huang J, Kang CS, Pu PY, Chang J.[Construction of multifunctonal nano-delivery system crossing blood brain barrier].Zhongguo Yi Xue Ke Xue Yuan Xue Bao. 2006 Aug;28(4):481-5. Chinese. PubMed [citation] PMID: 16995297

201. Sun W, Wang H, Xie C, Hu Y, Yang X, Xu H.An attempt to directly trace polymeric nanoparticles in vivo with electron microscopy.J Control Release. 2006 Oct 27;115(3):259-65. Epub 2006 Aug 17.PubMed [citation] PMID: 17010467

202. Juillerat-Jeanneret L, Schmitt F.Chemical modification of therapeutic drugs or drug vector systems to achieve targeted therapy: looking for the grail.Med Res Rev. 2007 Jul;27(4):574-90. Review.PubMed [citation] PMID: 17022028

203. Warheit DB, Webb TR, Colvin VL, Reed KL, Sayes CM.Pulmonary bioassay studies with nanoscale and fine-quartz particles in rats: toxicity is not dependent upon particle size but on surface characteristics.Toxicol Sci. 2007 Jan;95(1):270-80. Epub 2006 Oct 9.PubMed [citation] PMID: 17030555

204. Koziara JM, Lockman PR, Allen DD, Mumper RJ.The blood-brain barrier and brain drug delivery.J Nanosci Nanotechnol. 2006 Sep-Oct;6(9-10):2712-35. Review.PubMed [citation] PMID: 17048477

205. Newton HB.Advances in strategies to improve drug delivery to brain tumors.Expert Rev Neurother. 2006 Oct;6(10):1495-509. Review.PubMed [citation] PMID: 17078789

206. Teeguarden JG, Hinderliter PM, Orr G, Thrall BD, Pounds JG.Particokinetics in vitro: dosimetry considerations for in vitro nanoparticle toxicity assessments.Toxicol Sci. 2007 Feb;95(2):300-12. Epub 2006 Nov 10. Review. Erratum in: Toxicol Sci. 2007 Jun;97(2):614. PubMed [citation] PMID: 17098817

207. Koo YE, Reddy GR, Bhojani M, Schneider R, Philbert MA, Rehemtulla A, Ross BD, Kopelman R.Brain cancer diagnosis and therapy with nanoplatforms.Adv Drug Deliv Rev. 2006 Dec 1;58(14):1556-77. Epub 2006 Sep 28. Review.PubMed [citation] PMID: 17107738

208. Kashiwada S.Distribution of nanoparticles in the see-through medaka (Oryzias latipes).Environ Health Perspect. 2006 Nov;114(11):1697-702.PubMed [citation] PMID: 17107855, PMCID: PMC1665399

209. Kreuter J.Nanoparticles--a historical perspective.Int J Pharm. 2007 Feb 22;331(1):1-10. Epub 2006 Oct 21.PubMed [citation] PMID: 17110063

210. Roller M, Pott F.Lung tumor risk estimates from rat studies with not specifically toxic granular dusts.Ann N Y Acad Sci. 2006 Sep;1076:266-80.PubMed [citation] PMID: 17119208

211. Daroczi B, Kari G, McAleer MF, Wolf JC, Rodeck U, Dicker AP.In vivo radioprotection by the fullerene nanoparticle DF-1 as assessed in a zebrafish model.Clin Cancer Res. 2006 Dec 1;12(23):7086-91.PubMed [citation] PMID: 17145832

212. Petri B, Bootz A, Khalansky A, Hekmatara T, Müller R, Uhl R, Kreuter J, Gelperina S.Chemotherapy of brain tumour using doxorubicin bound to surfactant-coated poly(butyl cyanoacrylate) nanoparticles: revisiting the role of surfactants.J Control Release. 2007 Jan 22;117(1):51-8. Epub 2006 Oct 21.PubMed [citation] PMID: 17150277

213. Morfeld P.Lung dosimetry and risk assessment of nanoparticles.Inhal Toxicol. 2007 Feb;19(2):195; author reply 197-8. No abstract available. PubMed [citation] PMID: 17169866

214. Lu W, Sun Q, Wan J, She Z, Jiang XG.Cationic albumin-conjugated pegylated nanoparticles allow gene delivery into brain tumors via intravenous administration.Cancer Res. 2006 Dec 15;66(24):11878-87.PubMed [citation] PMID: 17178885

215. Dhawan A, Taurozzi JS, Pandey AK, Shan W, Miller SM, Hashsham SA, Tarabara VV.Stable colloidal dispersions of C60 fullerenes in water: evidence for genotoxicity.Environ Sci Technol. 2006 Dec 1;40(23):7394-401.PubMed [citation] PMID: 17180994

216. Lee Y, Song HJ, Shin HS, Shin HJ, Choi HC.Spontaneous formation of transition-metal nanoparticles on single-walled carbon nanotubes anchored with conjugated molecules.Small. 2005 Oct;1(10):975-9. No abstract available. PubMed [citation] PMID: 17193381

217. Praetorius NP, Mandal TK.Engineered nanoparticles in cancer therapy.Recent Pat Drug Deliv Formul. 2007;1(1):37-51. Review.PubMed [citation] PMID: 19075873

218. Müller M, Böcher A, Buchter A.[Induction of urothelial carcinoma due to chronic arsenic ingestion? A occupational medicine-toxicological excursion].Urologe A. 2007 May;46(5):511-2, 514-5. German. PubMed [citation] PMID: 17216513

219. Kratzer I, Wernig K, Panzenboeck U, Bernhart E, Reicher H, Wronski R, Windisch M, Hammer A, Malle E, Zimmer A, Sattler W.Apolipoprotein A-I coating of protamine-oligonucleotide nanoparticles increases particle uptake and transcytosis in an in vitro model of the blood-brain barrier.J Control Release. 2007 Feb 26;117(3):301-11. Epub 2006 Nov 28.PubMed [citation] PMID: 17239472

220. Lu W, Wan J, She Z, Jiang X.Brain delivery property and accelerated blood clearance of cationic albumin conjugated pegylated nanoparticle.J Control Release. 2007 Mar 12;118(1):38-53. Epub 2006 Nov 24.PubMed [citation] PMID: 17240471

221. Kreuter J, Hekmatara T, Dreis S, Vogel T, Gelperina S, Langer K.Covalent attachment of apolipoprotein A-I and apolipoprotein B-100 to albumin nanoparticles enables drug transport into the brain.J Control Release. 2007 Mar 12;118(1):54-8. Epub 2006 Dec 20.PubMed [citation] PMID: 17250920

222. Silva GA.Nanotechnology approaches for drug and small molecule delivery across the blood brain barrier.Surg Neurol. 2007 Feb;67(2):113-6. Review.PubMed [citation] PMID: 17254859

223. Kim HR, Gil S, Andrieux K, Nicolas V, Appel M, Chacun H, Desmaële D, Taran F, Georgin D, Couvreur P.Low-density lipoprotein receptor-mediated endocytosis of PEGylated nanoparticles in rat brain endothelial cells.Cell Mol Life Sci. 2007 Feb;64(3):356-64.PubMed [citation] PMID: 17256088

224. Curtis J, Greenberg M, Kester J, Phillips S, Krieger G.Nanotechnology and nanotoxicology: a primer for clinicians.Toxicol Rev. 2006;25(4):245-60. Review.PubMed [citation] PMID: 17288496

225. Kagan VE, Bayir H, Shvedova AA.Nanomedicine and nanotoxicology: two sides of the same coin.Nanomedicine. 2005 Dec;1(4):313-6. Review.PubMed [citation] PMID: 17292104

226. Veranth JM, Kaser EG, Veranth MM, Koch M, Yost GS.Cytokine responses of human lung cells (BEAS-2B) treated with micron-sized and nanoparticles of metal oxides compared to soil dusts.Part Fibre Toxicol. 2007 Feb 27;4:2.PubMed [citation] PMID: 17326846, PMCID: PMC1821039

227. DeNardo SJ, DeNardo GL, Natarajan A, Miers LA, Foreman AR, Gruettner C, Adamson GN, Ivkov R.Thermal dosimetry predictive of efficacy of 111In-ChL6 nanoparticle AMF--induced thermoablative therapy for human breast cancer in mice.J Nucl Med. 2007 Mar;48(3):437-44.PubMed [citation] PMID: 17332622

228. Arenz A, Hellweg CE, Stojicic N, Baumstark-Khan C, Grotheer HH.Gene expression modulation in A549 human lung cells in response to combustion-generated nano-sized particles.Ann N Y Acad Sci. 2006 Dec;1091:170-83.PubMed [citation] PMID: 17341612

229. Papageorgiou I, Brown C, Schins R, Singh S, Newson R, Davis S, Fisher J, Ingham E, Case CP.The effect of nano- and micron-sized particles of cobalt-chromium alloy on human fibroblasts in vitro.Biomaterials. 2007 Jul;28(19):2946-58. Epub 2007 Mar 1.PubMed [citation] PMID: 17379299

230. Kuo YC, Su FL.Transport of stavudine, delavirdine, and saquinavir across the blood-brain barrier by polybutylcyanoacrylate, methylmethacrylate-sulfopropylmethacrylate, and solid lipid nanoparticles.Int J Pharm. 2007 Aug 1;340(1-2):143-52. Epub 2007 Mar 12.PubMed [citation] PMID: 17418986

231. Jain KK.Use of nanoparticles for drug delivery in glioblastoma multiforme.Expert Rev Neurother. 2007 Apr;7(4):363-72. Review.PubMed [citation] PMID: 17425491

232. Westmeyer GG, Jasanoff A.Genetically controlled MRI contrast mechanisms and their prospects in systems neuroscience research.Magn Reson Imaging. 2007 Jul;25(6):1004-10. Epub 2007 Apr 23. Review.PubMed [citation] PMID: 17451901

233. Nohynek GJ, Lademann J, Ribaud C, Roberts MS.Grey goo on the skin? Nanotechnology, cosmetic and sunscreen safety.Crit Rev Toxicol. 2007 Mar;37(3):251-77. Review.PubMed [citation] PMID: 17453934

234. Malik DK, Baboota S, Ahuja A, Hasan S, Ali J.Recent advances in protein and peptide drug delivery systems.Curr Drug Deliv. 2007 Apr;4(2):141-51. Review.PubMed [citation] PMID: 17456033

235. Brioschi A, Zenga F, Zara GP, Gasco MR, Ducati A, Mauro A.Solid lipid nanoparticles: could they help to improve the efficacy of pharmacologic treatments for brain tumors?Neurol Res. 2007 Apr;29(3):324-30. Review.PubMed [citation] PMID: 17509234

236. Tetley TD.Health effects of nanomaterials.Biochem Soc Trans. 2007 Jun;35(Pt 3):527-31. Review.PubMed [citation] PMID: 17511644

237. Arayne MS, Sultana N, Noor-Us-Sabah.Fabrication of solid nanoparticles for drug delivery.Pak J Pharm Sci. 2007 Jul;20(3):251-9. Review.PubMed [citation] PMID: 17545113

238. Kim HR, Andrieux K, Delomenie C, Chacun H, Appel M, Desmaële D, Taran F, Georgin D, Couvreur P, Taverna M.Analysis of plasma protein adsorption onto PEGylated nanoparticles by complementary methods: 2-DE, CE and Protein Lab-on-chip system.Electrophoresis. 2007 Jul;28(13):2252-61.PubMed [citation] PMID: 17557357

239. Blasi P, Giovagnoli S, Schoubben A, Ricci M, Rossi C.Solid lipid nanoparticles

for targeted brain drug delivery.Adv Drug Deliv Rev. 2007 Jul 10;59(6):454-77. Epub 2007 May 22. Review.PubMed [citation] PMID: 17570559

240. Oberdörster G, Oberdörster E, Oberdörster J.Concepts of nanoparticle dose metric and response metric.Environ Health Perspect. 2007 Jun;115(6):A290. No abstract available. PubMed [citation] PMID: 17589571, PMCID: PMC1892118

241. Petry KG, Boiziau C, Dousset V, Brochet B.Magnetic resonance imaging of human brain macrophage infiltration.Neurotherapeutics. 2007 Jul;4(3):434-42. Review.PubMed [citation] PMID: 17599709

242. Shamenkov DA, Petrov VE, Alyautdin RN.Effects of apolipoproteins on dalargin transport across the blood-brain barrier.Bull Exp Biol Med. 2006 Dec;142(6):703-6. English, Russian. PubMed [citation] PMID: 17603675

243. Arayne MS, Sultana N, Qureshi F.Review: nanoparticles in delivery of cardiovascular drugs.Pak J Pharm Sci. 2007 Oct;20(4):340-8. Review.PubMed [citation] PMID: 17604260

244. Jain KK.Nanobiotechnology-based drug delivery to the central nervous system.Neurodegener Dis. 2007;4(4):287-91.PubMed [citation] PMID: 17627131

245. Gao X, Wu B, Zhang Q, Chen J, Zhu J, Zhang W, Rong Z, Chen H, Jiang X.Brain delivery of vasoactive intestinal peptide enhanced with the nanoparticles conjugated with wheat germ agglutinin following intranasal administration.J Control Release. 2007 Aug 28;121(3):156-67. Epub 2007 Jun 2.PubMed [citation] PMID: 17628165

246. Risom L, Lundby C, Thomsen JJ, Mikkelsen L, Loft S, Friis G, Møller P.Acute hypoxia and reoxygenation-induced DNA oxidation in human mononuclear blood cells.Mutat Res. 2007 Dec 1;625(1-2):125-33. Epub 2007 Jun 14.PubMed [citation] PMID: 17644143

247. Sharma HS, Sharma A.Nanoparticles aggravate heat stress induced cognitive deficits, blood-brain barrier disruption, edema formation and brain pathology.Prog Brain Res. 2007;162:245-73. Review.PubMed [citation] PMID: 17645923

248. Tosi G, Costantino L, Rivasi F, Ruozi B, Leo E, Vergoni AV, Tacchi R, Bertolini A, Vandelli MA, Forni F.Targeting the central nervous system: in vivo experiments with peptide-derivatized nanoparticles loaded with Loperamide and Rhodamine-123.J Control Release. 2007 Sep 11;122(1):1-9. Epub 2007 May 26.PubMed [citation] PMID: 17651855

249. Jallouli Y, Paillard A, Chang J, Sevin E, Betbeder D.Influence of surface charge and inner composition of porous nanoparticles to cross blood-brain barrier in vitro.Int J Pharm. 2007 Nov 1;344(1-2):103-9. Epub 2007 Jun 22.PubMed [citation] PMID: 17651930

250. BéruBé K, Balharry D, Sexton K, Koshy L, Jones T.Combustion-derived

nanoparticles: mechanisms of pulmonary toxicity.Clin Exp Pharmacol Physiol. 2007 Oct;34(10):1044-50. Review.PubMed [citation] PMID: 17714092

251. Béduneau A, Saulnier P, Benoit JP.Active targeting of brain tumors using nanocarriers.Biomaterials. 2007 Nov;28(33):4947-67. Epub 2007 Aug 22. Review.PubMed [citation] PMID: 17716726

252. Federici G, Shaw BJ, Handy RD.Toxicity of titanium dioxide nanoparticles to rainbow trout (Oncorhynchus mykiss): gill injury, oxidative stress, and other physiological effects.Aquat Toxicol. 2007 Oct 30;84(4):415-30. Epub 2007 Jul 25.PubMed [citation] PMID: 17727975

253. Kuo YC, Chen IC.Evaluation of surface charge density and surface potential by electrophoretic mobility for solid lipid nanoparticles and human brain-microvascular endothelial cells.J Phys Chem B. 2007 Sep 27;111(38):11228-36. Epub 2007 Sep 6.PubMed [citation] PMID: 17803300

254. Desai A, Vyas T, Amiji M.Cytotoxicity and apoptosis enhancement in brain tumor cells upon coadministration of paclitaxel and ceramide in nanoemulsion formulations.J Pharm Sci. 2008 Jul;97(7):2745-56.PubMed [citation] PMID: 17854074

255. Baker GL, Gupta A, Clark ML, Valenzuela BR, Staska LM, Harbo SJ, Pierce JT, Dill JA.Inhalation toxicity and lung toxicokinetics of C60 fullerene nanoparticles and microparticles.Toxicol Sci. 2008 Jan;101(1):122-31. Epub 2007 Sep 17.PubMed [citation] PMID: 17878152

256. Iwasaki Y, Maie H, Akiyoshi K.Cell-specific delivery of polymeric nanoparticles to carbohydrate-tagging cells.Biomacromolecules. 2007 Oct;8(10):3162-8. Epub 2007 Sep 21.PubMed [citation] PMID: 17883278

257. Sadauskas E, Wallin H, Stoltenberg M, Vogel U, Doering P, Larsen A, Danscher G.Kupffer cells are central in the removal of nanoparticles from the organism.Part Fibre Toxicol. 2007 Oct 19;4:10.PubMed [citation] PMID: 17949501, PMCID: PMC2146996

258. Choi AO, Brown SE, Szyf M, Maysinger D.Quantum dot-induced epigenetic and genotoxic changes in human breast cancer cells.J Mol Med (Berl). 2008 Mar;86(3):291-302. Epub 2007 Oct 27.PubMed [citation] PMID: 17965848

259. Kuo YC, Kuo CY.Electromagnetic interference in the permeability of saquinavir across the blood-brain barrier using nanoparticulate carriers.Int J Pharm. 2008 Mar 3;351(1-2):271-81. Epub 2007 Sep 22.PubMed [citation] PMID: 17976933

260. Kaiser JP, Wick P, Manser P, Spohn P, Bruinink A.Single walled carbon nanotubes (SWCNT) affect cell physiology and cell architecture.J Mater Sci Mater Med. 2008 Apr;19(4):1523-7. Epub 2007 Nov 8.PubMed [citation] PMID: 17990080

261. Shin SH, Ye MK, Kim HS, Kang HS.The effects of nano-silver on the proliferation and cytokine expression by peripheral blood mononuclear cells.Int Immunopharmacol. 2007 Dec 15;7(13):1813-8. Epub 2007 Sep 21.PubMed [citation]

PMID: 17996693

262. Fabian E, Landsiedel R, Ma-Hock L, Wiench K, Wohlleben W, van Ravenzwaay B.Tissue distribution and toxicity of intravenously administered titanium dioxide nanoparticles in rats.Arch Toxicol. 2008 Mar;82(3):151-7. Epub 2007 Nov 14.PubMed [citation] PMID: 18000654

263. Singh S, Nalwa HS.Nanotechnology and health safety--toxicity and risk assessments of nanostructured materials on human health.J Nanosci Nanotechnol. 2007 Sep;7(9):3048-70. Review.PubMed [citation] PMID: 18019130

264. Liu CH, You Z, Ren J, Kim YR, Eikermann-Haerter K, Liu PK.Noninvasive delivery of gene targeting probes to live brains for transcription MRI.FASEB J. 2008 Apr;22(4):1193-203. Epub 2007 Nov 20.PubMed [citation] PMID: 18029447, PMCID: PMC2648863

265. Blaser SA, Scheringer M, Macleod M, Hungerbühler K.Estimation of cumulative aquatic exposure and risk due to silver: contribution of nano-functionalized plastics and textiles.Sci Total Environ. 2008 Feb 15;390(2-3):396-409. Epub 2007 Nov 26.PubMed [citation] PMID: 18031795

266. Zink MC.Translational research models and novel adjunctive therapies for neuroAIDS.J Neuroimmune Pharmacol. 2007 Mar;2(1):14-9. Epub 2007 Jan 9. Review.PubMed [citation] PMID: 18040821

267. Kisin ER, Murray AR, Keane MJ, Shi XC, Schwegler-Berry D, Gorelik O, Arepalli S, Castranova V, Wallace WE, Kagan VE, Shvedova AA.Single-walled carbon nanotubes: geno- and cytotoxic effects in lung fibroblast V79 cells.J Toxicol Environ Health A. 2007 Dec;70(24):2071-9.PubMed [citation] PMID: 18049996

268. Suri SS, Fenniri H, Singh B.Nanotechnology-based drug delivery systems.J Occup Med Toxicol. 2007 Dec 1;2:16.PubMed [citation] PMID: 18053152, PMCID: PMC2222591

269. Mroz RM, Schins RP, Li H, Jimenez LA, Drost EM, Holownia A, MacNee W, Donaldson K.Nanoparticle-driven DNA damage mimics irradiation-related carcinogenesis pathways.Eur Respir J. 2008 Feb;31(2):241-51. Epub 2007 Dec 5.PubMed [citation] PMID: 18057054

270. Cha KE, Myung H.Cytotoxic effects of nanoparticles assessed in vitro and in vivo.J Microbiol Biotechnol. 2007 Sep;17(9):1573-8.PubMed [citation] PMID: 18062241

271. Drobne D.Nanotoxicology for safe and sustainable nanotechnology.Arh Hig Rada Toksikol. 2007 Dec;58(4):471-8. Review.PubMed [citation] PMID: 18063532

272. Sawosz E, Binek M, Grodzik M, Zielińska M, Sysa P, Szmidt M, Niemiec T, Chwalibog A.Influence of hydrocolloidal silver nanoparticles on gastrointestinal microflora and morphology of enterocytes of quails.Arch Anim Nutr. 2007 Dec;61(6):444-51.PubMed [citation] PMID: 18069616

273. Bouchat V, Nuttens VE, Lucas S, Michiels C, Masereel B, Féron O, Gallez B, Vander Borght T.Radioimmunotherapy with radioactive nanoparticles: first results of dosimetry for vascularized and necrosed solid tumors.Med Phys. 2007 Nov;34(11):4504-13.PubMed [citation] PMID: 18072516

274. Teixidó M, Giralt E.The role of peptides in blood-brain barrier nanotechnology.J Pept Sci. 2008 Feb;14(2):163-73. Review.PubMed [citation] PMID: 18085720

275. Sharma HS.Nanoneuroscience: emerging concepts on nanoneurotoxicity and nanoneuroprotection.Nanomedicine (Lond). 2007 Dec;2(6):753-8. Review. No abstract available. PubMed [citation] PMID: 18095842

276. Liu L, Guo K, Lu J, Venkatraman SS, Luo D, Ng KC, Ling EA, Moochhala S, Yang YY.Biologically active core/shell nanoparticles self-assembled from cholesterol-terminated PEG-TAT for drug delivery across the blood-brain barrier.Biomaterials. 2008 Apr;29(10):1509-17. Epub 2007 Dec 21.PubMed [citation] PMID: 18155137

277. Fischer HC, Chan WC.Nanotoxicity: the growing need for in vivo study.Curr Opin Biotechnol. 2007 Dec;18(6):565-71. Epub 2007 Dec 21. Review.PubMed [citation] PMID: 18160274

278. Lewinski N, Colvin V, Drezek R.Cytotoxicity of nanoparticles.Small. 2008 Jan;4(1):26-49. doi: 10.1002/smll.200700595. Review.PubMed [citation] PMID: 18165959

279. Dhanikula RS, Argaw A, Bouchard JF, Hildgen P.Methotrexate loaded polyether-copolyester dendrimers for the treatment of gliomas: enhanced efficacy and intratumoral transport capability.Mol Pharm. 2008 Jan-Feb;5(1):105-16. doi: 10.1021/mp700086j. Epub 2008 Jan 3.PubMed [citation] PMID: 18171013

280. Gilmore JL, Yi X, Quan L, Kabanov AV.Novel nanomaterials for clinical neuroscience.J Neuroimmune Pharmacol. 2008 Jun;3(2):83-94. doi: 10.1007/s11481-007-9099-6. Epub 2008 Jan 22. Review.PubMed [citation] PMID: 18210200, PMCID: PMC2566785

281. Stone V, Johnston H, Clift MJ.Air pollution, ultrafine and nanoparticle toxicology: cellular and molecular interactions.IEEE Trans Nanobioscience. 2007 Dec;6(4):331-40. Review.PubMed [citation] PMID: 18217626

282. De Jong WH, Hagens WI, Krystek P, Burger MC, Sips AJ, Geertsma RE.Particle size-dependent organ distribution of gold nanoparticles after intravenous administration.Biomaterials. 2008 Apr;29(12):1912-9. doi: 10.1016/j.biomaterials.2007.12.037. Epub 2008 Feb 1.PubMed [citation] PMID: 18242692

283. Tosi G, Costantino L, Ruozi B, Forni F, Vandelli MA.Polymeric nanoparticles for the drug delivery to the central nervous system.Expert Opin Drug Deliv. 2008 Feb;5(2):155-74. doi: 10.1517/17425247.5.2.155. Review.PubMed [citation] PMID: 18248316

284. Reeves JF, Davies SJ, Dodd NJ, Jha AN.Hydroxyl radicals (*OH) are associated with titanium dioxide (TiO(2)) nanoparticle-induced cytotoxicity and oxidative DNA damage in fish cells.Mutat Res. 2008 Apr 2;640(1-2):113-22. doi: 10.1016/j.mrfmmm.2007.12.010. Epub 2007 Dec 31.PubMed [citation] PMID: 18258270

285. Kwon JT, Hwang SK, Jin H, Kim DS, Minai-Tehrani A, Yoon HJ, Choi M, Yoon TJ, Han DY, Kang YW, Yoon BI, Lee JK, Cho MH.Body distribution of inhaled fluorescent magnetic nanoparticles in the mice.J Occup Health. 2008;50(1):1-6.PubMed [citation] PMID: 18285638

286. Wilson B, Samanta MK, Santhi K, Kumar KP, Paramakrishnan N, Suresh B.Poly(n-butylcyanoacrylate) nanoparticles coated with polysorbate 80 for the targeted delivery of rivastigmine into the brain to treat Alzheimer's disease.Brain Res. 2008 Mar 20;1200:159-68. doi: 10.1016/j.brainres.2008.01.039. Epub 2008 Jan 26.PubMed [citation] PMID: 18291351

287. Hirano S.[Health effects of nanoparticles and nanomaterials (I) recent oveview of health effects of nanoparticles].Nihon Eiseigaku Zasshi. 2008 Jan;63(1):36-41. Review. Japanese. PubMed [citation] PMID: 18306656

288. Kaur IP, Bhandari R, Bhandari S, Kakkar V.Potential of solid lipid nanoparticles in brain targeting.J Control Release. 2008 Apr 21;127(2):97-109. doi: 10.1016/j.jconrel.2007.12.018. Epub 2008 Jan 24. Review.PubMed [citation] PMID: 18313785

289. Linkov I, Satterstrom FK, Corey LM.Nanotoxicology and nanomedicine: making hard decisions.Nanomedicine. 2008 Jun;4(2):167-71. doi: 10.1016/j.nano.2008.01.001. Epub 2008 Mar 10. Review.PubMed [citation] PMID: 18329962

290. Craft GE, Graham ME, Bache N, Larsen MR, Robinson PJ.The in vivo phosphorylation sites in multiple isoforms of amphiphysin I from rat brain nerve terminals.Mol Cell Proteomics. 2008 Jun;7(6):1146-61. doi: 10.1074/mcp.M700351-MCP200. Epub 2008 Mar 14.PubMed [citation] PMID: 18344231

291. Handy RD, von der Kammer F, Lead JR, Hassellöv M, Owen R, Crane M.The ecotoxicology and chemistry of manufactured nanoparticles.Ecotoxicology. 2008 May;17(4):287-314. doi: 10.1007/s10646-008-0199-8. Epub 2008 Mar 19. Review.PubMed [citation] PMID: 18351458

292. Choi O, Deng KK, Kim NJ, Ross L Jr, Surampalli RY, Hu Z.The inhibitory effects of silver nanoparticles, silver ions, and silver chloride colloids on microbial growth.Water Res. 2008 Jun;42(12):3066-74. doi: 10.1016/j.watres.2008.02.021. Epub 2008 Mar 4.PubMed [citation] PMID: 18359055

293. Lison D, Thomassen LC, Rabolli V, Gonzalez L, Napierska D, Seo JW, Kirsch-Volders M, Hoet P, Kirschhock CE, Martens JA.Nominal and effective dosimetry of silica nanoparticles in cytotoxicity assays.Toxicol Sci. 2008 Jul;104(1):155-62. doi: 10.1093/toxsci/kfn072. Epub 2008 Apr 8.PubMed [citation] PMID: 18400775

294. Wilson BC, Patterson MS.The physics, biophysics and technology of photodynamic therapy.Phys Med Biol. 2008 May 7;53(9):R61-109. doi: 10.1088/0031-9155/53/9/R01. Epub 2008 Apr 9. Review.PubMed [citation] PMID: 18401068

295. Handy RD, Henry TB, Scown TM, Johnston BD, Tyler CR.Manufactured nanoparticles: their uptake and effects on fish--a mechanistic analysis.Ecotoxicology. 2008 Jul;17(5):396-409. doi: 10.1007/s10646-008-0205-1. Epub 2008 Apr 12.PubMed [citation] PMID: 18408995

296. Liu L, Venkatraman SS, Yang YY, Guo K, Lu J, He B, Moochhala S, Kan L.Polymeric micelles anchored with TAT for delivery of antibiotics across the blood-brain barrier.Biopolymers. 2008;90(5):617-23. doi: 10.1002/bip.20998.PubMed [citation] PMID: 18412128

297. Pang Z, Lu W, Gao H, Hu K, Chen J, Zhang C, Gao X, Jiang X, Zhu C.Preparation and brain delivery property of biodegradable polymersomes conjugated with OX26.J Control Release. 2008 Jun 4;128(2):120-7. doi: 10.1016/j.jconrel.2008.03.007. Epub 2008 Mar 14.PubMed [citation] PMID: 18436327

298. Liu M, Li H, Luo G, Liu Q, Wang Y.Pharmacokinetics and biodistribution of surface modification polymeric nanoparticles.Arch Pharm Res. 2008 Apr;31(4):547-54. doi: 10.1007/s12272-001-1191-8. Epub 2008 May 1.PubMed [citation] PMID: 18449515

299. Kumar M, Misra A, Babbar AK, Mishra AK, Mishra P, Pathak K.Intranasal nanoemulsion based brain targeting drug delivery system of risperidone.Int J Pharm. 2008 Jun 24;358(1-2):285-91. doi: 10.1016/j.ijpharm.2008.03.029. Epub 2008 Mar 27.PubMed [citation] PMID: 18455333

300. Wilson B, Samanta MK, Santhi K, Kumar KP, Paramakrishnan N, Suresh B.Targeted delivery of tacrine into the brain with polysorbate 80-coated poly(n-butylcyanoacrylate) nanoparticles.Eur J Pharm Biopharm. 2008 Sep;70(1):75-84. doi: 10.1016/j.ejpb.2008.03.009. Epub 2008 Mar 27.PubMed [citation] PMID: 18472255

301. Xu G, Yong KT, Roy I, Mahajan SD, Ding H, Schwartz SA, Prasad PN.Bioconjugated quantum rods as targeted probes for efficient transmigration across an in vitro blood-brain barrier.Bioconjug Chem. 2008 Jun;19(6):1179-85. doi: 10.1021/bc700477u. Epub 2008 May 13.PubMed [citation] PMID: 18473444

302. Akhtari M, Bragin A, Cohen M, Moats R, Brenker F, Lynch MD, Vinters HV, Engel J Jr.Functionalized magnetonanoparticles for MRI diagnosis and localization in epilepsy.Epilepsia. 2008 Aug;49(8):1419-30. doi: 10.1111/j.1528-1167.2008.01615.x. Epub 2008 May 8.PubMed [citation] PMID: 18479391, PMCID: PMC2685186

303. Colognato R, Bonelli A, Ponti J, Farina M, Bergamaschi E, Sabbioni E, Migliore L.Comparative genotoxicity of cobalt nanoparticles and ions on human peripheral leukocytes in vitro.Mutagenesis. 2008 Sep;23(5):377-82. doi: 10.1093/mutage/gen024. Epub 2008 May 25.PubMed [citation] PMID: 18504271

304. da Silva EM, Poskus LT, Guimarães JG.Influence of light-polymerization modes on the degree of conversion and mechanical properties of resin composites: a comparative analysis between a hybrid and a nanofilled composite.Oper Dent. 2008 May-Jun;33(3):287-93. doi: 10.2341/07-81.PubMed [citation] PMID: 18505219

305. Chattopadhyay N, Zastre J, Wong HL, Wu XY, Bendayan R.Solid lipid nanoparticles enhance the delivery of the HIV protease inhibitor, atazanavir, by a human brain endothelial cell line.Pharm Res. 2008 Oct;25(10):2262-71. doi: 10.1007/s11095-008-9615-2. Epub 2008 May 31.PubMed [citation] PMID: 18516666

306. Intra J, Salem AK.Characterization of the transgene expression generated by branched and linear polyethylenimine-plasmid DNA nanoparticles in vitro and after intraperitoneal injection in vivo.J Control Release. 2008 Sep 10;130(2):129-38. doi: 10.1016/j.jconrel.2008.04.014. Epub 2008 Apr 24.PubMed [citation] PMID: 18538436, PMCID: PMC2603176

307. Klasson A, Ahrén M, Hellqvist E, Söderlind F, Rosén A, Käll PO, Uvdal K, Engström M.Positive MRI contrast enhancement in THP-1 cells with Gd2O3 nanoparticles.Contrast Media Mol Imaging. 2008 May-Jun;3(3):106-11. doi: 10.1002/cmmi.236.PubMed [citation] PMID: 18546094

308. Caraglia M, Marra M, Budillon A.Highlights of the Annual Meeting of the Italian Association for Cell Cultures (AICC): new drug delivery strategies and technological platforms for diagnosis and therapy of tumors. Part II. 6 - 7 December 2007, Naples, Italy.Expert Opin Biol Ther. 2008 Jul;8(7):1031-5. doi: 10.1517/14712598.8.7.1031 .PubMed [citation] PMID: 18549332

309. Kreuter J, Gelperina S.Use of nanoparticles for cerebral cancer.Tumori. 2008 Mar-Apr;94(2):271-7.PubMed [citation] PMID: 18564616

310. Wu WH, Sun X, Yu YP, Hu J, Zhao L, Liu Q, Zhao YF, Li YM.TiO2 nanoparticles promote beta-amyloid fibrillation in vitro.Biochem Biophys Res Commun. 2008 Aug 22;373(2):315-8. doi: 10.1016/j.bbrc.2008.06.035. Epub 2008 Jun 20.PubMed [citation] PMID: 18571499

311. Reimold I, Domke D, Bender J, Seyfried CA, Radunz HE, Fricker G.Delivery of nanoparticles to the brain detected by fluorescence microscopy.Eur J Pharm Biopharm. 2008 Oct;70(2):627-32. doi: 10.1016/j.ejpb.2008.05.007. Epub 2008 Jun 5.PubMed [citation] PMID: 18577452

312. Cha K, Hong HW, Choi YG, Lee MJ, Park JH, Chae HK, Ryu G, Myung H.Comparison of acute responses of mice livers to short-term exposure to nano-sized or micro-sized silver particles.Biotechnol Lett. 2008 Nov;30(11):1893-9. doi: 10.1007/s10529-008-9786-2. Epub 2008 Jul 5.PubMed [citation] PMID: 18604478

313. Weiss CK, Kohnle MV, Landfester K, Hauk T, Fischer D, Schmitz-Wienke J, Mailänder V.The first step into the brain: uptake of NIO-PBCA nanoparticles by endothelial cells in vitro and in vivo, and direct evidence for their blood-brain barrier permeation.ChemMedChem. 2008 Sep;3(9):1395-403. doi: 10.1002/cmdc.200800130.PubMed [citation] PMID: 18613205

314. Jacobsen NR, Pojana G, White P, Møller P, Cohn CA, Korsholm KS, Vogel U, Marcomini A, Loft S, Wallin H.Genotoxicity, cytotoxicity, and reactive oxygen species induced by single-walled carbon nanotubes and C(60) fullerenes in the FE1-Mutatrade markMouse lung epithelial cells.Environ Mol Mutagen. 2008 Jul;49(6):476-87. doi: 10.1002/em.20406.PubMed [citation] PMID: 18618583

315. Tang M, Xing T, Zeng J, Wang H, Li C, Yin S, Yan D, Deng H, Liu J, Wang M, Chen J, Ruan DY.Unmodified CdSe quantum dots induce elevation of cytoplasmic calcium levels and impairment of functional properties of sodium channels in rat primary cultured hippocampal neurons.Environ Health Perspect. 2008 Jul;116(7):915-22. doi: 10.1289/ehp.11225.PubMed [citation] PMID: 18629314, PMCID: PMC2453160

316. López T, Recillas S, Guevara P, Sotelo J, Alvarez M, Odriozola JA.Pt/TiO2 brain biocompatible nanoparticles: GBM treatment using the C6 model in Wistar rats.Acta Biomater. 2008 Nov;4(6):2037-44. doi: 10.1016/j.actbio.2008.05.027. Epub 2008 Jun 8.PubMed [citation] PMID: 18640082

317. Wong-Ekkabut J, Baoukina S, Triampo W, Tang IM, Tieleman DP, Monticelli L.Computer simulation study of fullerene translocation through lipid membranes.Nat Nanotechnol. 2008 Jun;3(6):363-8. doi: 10.1038/nnano.2008.130. Epub 2008 May 18.PubMed [citation] PMID: 18654548

318. Ali SS, Hardt JI, Dugan LL.SOD activity of carboxyfullerenes predicts their neuroprotective efficacy: a structure-activity study.Nanomedicine. 2008 Dec;4(4):283-94. doi: 10.1016/j.nano.2008.05.003. Epub 2008 Jul 24.PubMed [citation] PMID: 18656425, PMCID: PMC2651828

319. Sugibayashi K, Todo H, Kimura E.Safety evaluation of titanium dioxide nanoparticles by their absorption and elimination profiles.J Toxicol Sci. 2008 Aug;33(3):293-8. Erratum in: J Toxicol Sci.2008 Dec;33(5):668-9. PubMed [citation] PMID: 18670160

320. Mitala CM, Wang Y, Borland LM, Jung M, Shand S, Watkins S, Weber SG, Michael AC.Impact of microdialysis probes on vasculature and dopamine in the rat striatum: a combined fluorescence and voltammetric study.J Neurosci Methods. 2008 Sep 30;174(2):177-85. doi: 10.1016/j.jneumeth.2008.06.034. Epub 2008 Jul 15.PubMed [citation] PMID: 18674561, PMCID: PMC2713687

321. De Jong WH, Borm PJ.Drug delivery and nanoparticles:applications and hazards.Int J Nanomedicine. 2008;3(2):133-49. Review.PubMed [citation] PMID: 18686775, PMCID: PMC2527668

322. Agyare EK, Curran GL, Ramakrishnan M, Yu CC, Poduslo JF, Kandimalla KK.Development of a smart nano-vehicle to target cerebrovascular amyloid deposits and brain parenchymal plaques observed in Alzheimer's disease and cerebral amyloid angiopathy.Pharm Res. 2008 Nov;25(11):2674-84. doi: 10.1007/s11095-008-9688-y. Epub 2008 Aug 20.PubMed [citation] PMID: 18712585, PMCID: PMC3766361

323. Keegan GM, Learmonth ID, Case CP.A systematic comparison of the actual, potential, and theoretical health effects of cobalt and chromium exposures from industry and surgical implants.Crit Rev Toxicol. 2008;38(8):645-74. doi: 10.1080/10408440701845534 . Review.PubMed [citation] PMID: 18720105

324. Sonavane G, Tomoda K, Makino K.Biodistribution of colloidal gold nanoparticles after intravenous administration: effect of particle size.Colloids Surf B Biointerfaces. 2008 Oct 15;66(2):274-80. doi: 10.1016/j.colsurfb.2008.07.004. Epub 2008 Jul 15.PubMed [citation] PMID: 18722754

325. Tang M, Wang M, Xing T, Zeng J, Wang H, Ruan DY.Mechanisms of unmodified CdSe quantum dot-induced elevation of cytoplasmic calcium levels in primary cultures of rat hippocampal neurons.Biomaterials. 2008 Nov;29(33):4383-91. doi: 10.1016/j.biomaterials.2008.08.001. Epub 2008 Aug 26.PubMed [citation] PMID: 18752844

326. Rao KS, Reddy MK, Horning JL, Labhasetwar V.TAT-conjugated nanoparticles for the CNS delivery of anti-HIV drugs.Biomaterials. 2008 Nov;29(33):4429-38. doi: 10.1016/j.biomaterials.2008.08.004. Epub 2008 Aug 28.PubMed [citation] PMID: 18760470, PMCID: PMC2570783

327. Gheshlaghi ZN, Riazi GH, Ahmadian S, Ghafari M, Mahinpour R.Toxicity and interaction of titanium dioxide nanoparticles with microtubule protein.Acta Biochim Biophys Sin (Shanghai). 2008 Sep;40(9):777-82.PubMed [citation] PMID: 18776989

328. Selvi BR, Jagadeesan D, Suma BS, Nagashankar G, Arif M, Balasubramanyam K, Eswaramoorthy M, Kundu TK.Intrinsically fluorescent carbon nanospheres as a nuclear targeting vector: delivery of membrane-impermeable molecule to modulate gene expression in vivo.Nano Lett. 2008 Oct;8(10):3182-8. doi: 10.1021/nl801503m. Epub 2008 Sep 19.PubMed [citation] PMID: 18800851

329. Ulbrich K, Hekmatara T, Herbert E, Kreuter J.Transferrin- and transferrin-receptor-antibody-modified nanoparticles enable drug delivery across the blood-brain barrier (BBB).Eur J Pharm Biopharm. 2009 Feb;71(2):251-6. doi: 10.1016/j.ejpb.2008.08.021. Epub 2008 Sep 5.PubMed [citation] PMID: 18805484

330. Chen L, Yokel RA, Hennig B, Toborek M.Manufactured aluminum oxide nanoparticles decrease expression of tight junction proteins in brain vasculature.J Neuroimmune Pharmacol. 2008 Dec;3(4):286-95. doi: 10.1007/s11481-008-9131-5. Epub 2008 Oct 1.PubMed [citation] PMID: 18830698, PMCID: PMC2771674

331. Cheng Q, Feng J, Chen J, Zhu X, Li F.Brain transport of neurotoxin-I with PLA nanoparticles through intranasal administration in rats: a microdialysis study.Biopharm Drug Dispos. 2008 Nov;29(8):431-9. doi: 10.1002/bdd.621.PubMed [citation] PMID: 18837064

332. Juillerat-Jeanneret L.The targeted delivery of cancer drugs across the blood-brain barrier: chemical modifications of drugs or drug-nanoparticles?Drug Discov Today. 2008 Dec;13(23-24):1099-106. doi: 10.1016/j.drudis.2008.09.005.

Epub 2008 Oct 22. Review.PubMed [citation] PMID: 18848640

333. van Landeghem FK, Maier-Hauff K, Jordan A, Hoffmann KT, Gneveckow U, Scholz R, Thiesen B, Brück W, von Deimling A.Post-mortem studies in glioblastoma patients treated with thermotherapy using magnetic nanoparticles.Biomaterials. 2009 Jan;30(1):52-7. doi: 10.1016/j.biomaterials.2008.09.044. Epub 2008 Oct 10.PubMed [citation] PMID: 18848723

334. Gao X, Chen J, Chen J, Wu B, Chen H, Jiang X.Quantum dots bearing lectin-functionalized nanoparticles as a platform for in vivo brain imaging.Bioconjug Chem. 2008 Nov 19;19(11):2189-95. doi: 10.1021/bc8002698.PubMed [citation] PMID: 18922029

335. Wang J, Liu Y, Jiao F, Lao F, Li W, Gu Y, Li Y, Ge C, Zhou G, Li B, Zhao Y, Chai Z, Chen C.Time-dependent translocation and potential impairment on central nervous system by intranasally instilled TiO(2) nanoparticles.Toxicology. 2008 Dec 5;254(1-2):82-90. doi: 10.1016/j.tox.2008.09.014. Epub 2008 Sep 25.PubMed [citation] PMID: 18929619

336. Chopra D, Gulati M, Saluja V, Pathak P, Bansal P.Brain permeable nanoparticles.Recent Pat CNS Drug Discov. 2008 Nov;3(3):216-25. Review.PubMed [citation] PMID: 18991811

337. Kumar M, Pathak K, Misra A.Formulation and characterization of nanoemulsion-based drug delivery system of risperidone.Drug Dev Ind Pharm. 2009 Apr;35(4):387-95. doi: 10.1080/03639040802363704 .PubMed [citation] PMID: 19016058

338. Kurakhmaeva KB, Voronina TA, Kapica IG, Kreuter J, Nerobkova LN, Seredenin SB, Balabanian VY, Alyautdin RN.Antiparkinsonian effect of nerve growth factor adsorbed on polybutylcyanoacrylate nanoparticles coated with polysorbate-80.Bull Exp Biol Med. 2008 Feb;145(2):259-62.PubMed [citation] PMID: 19023984

339. Valavanidis A, Fiotakis K, Vlachogianni T.Airborne particulate matter and human health: toxicological assessment and importance of size and composition of particles for oxidative damage and carcinogenic mechanisms.J Environ Sci Health C Environ Carcinog Ecotoxicol Rev. 2008 Oct-Dec;26(4):339-62. doi: 10.1080/10590500802494538. Review.PubMed [citation] PMID: 19034792

340. Ghosh A, Mandal AK, Sarkar S, Panda S, Das N.Nanoencapsulation of quercetin enhances its dietary efficacy in combating arsenic-induced oxidative damage in liver and brain of rats.Life Sci. 2009 Jan 16;84(3-4):75-80. doi: 10.1016/j.lfs.2008.11.001. Epub 2008 Nov 12.PubMed [citation] PMID: 19036345

341. Zhang W, Fang XL.[Significant role of poloxamer in drug transport across blood-brain barrier].Yao Xue Xue Bao. 2008 Sep;43(9):890-7. Review. Chinese. PubMed [citation] PMID: 19048778

342. Yamada T, Jung DY, Sawada R, Matsuoka A, Nakaoka R, Tsuchiya T.Effects intracerebral microinjection and intraperitoneal injection of [60]fullerene on brain functions differ in rats.J Nanosci Nanotechnol. 2008

Aug;8(8):3973-80.PubMed [citation] PMID: 19049160

343. Jeffery ND, McBain SC, Dobson J, Chari DM.Uptake of systemically administered magnetic nanoparticles (MNPs) in areas of experimental spinal cord injury (SCI).J Tissue Eng Regen Med. 2009 Feb;3(2):153-7. doi: 10.1002/term.139.PubMed [citation] PMID: 19051217

344. Patel MM, Goyal BR, Bhadada SV, Bhatt JS, Amin AF.Getting into the brain: approaches to enhance brain drug delivery.CNS Drugs. 2009;23(1):35-58. doi: 10.2165/0023210-200923010-00003. Review.PubMed [citation] PMID: 19062774

345. Liu H, Ma L, Zhao J, Liu J, Yan J, Ruan J, Hong F.Biochemical toxicity of nano-anatase TiO2 particles in mice.Biol Trace Elem Res. 2009 Summer;129(1-3):170-80. doi: 10.1007/s12011-008-8285-6. Epub 2008 Dec 9. Erratum in: Biol Trace Elem Res. 2014 Jul;160(1):152. PubMed [citation] PMID: 19066734

346. Sarin H, Kanevsky AS, Wu H, Brimacombe KR, Fung SH, Sousa AA, Auh S, Wilson CM, Sharma K, Aronova MA, Leapman RD, Griffiths GL, Hall MD.Effective transvascular delivery of nanoparticles across the blood-brain tumor barrier into malignant glioma cells.J Transl Med. 2008 Dec 18;6:80. doi: 10.1186/1479-5876-6-80.PubMed [citation] PMID: 19094226, PMCID: PMC2639552

347. van Kasteren SI, Campbell SJ, Serres S, Anthony DC, Sibson NR, Davis BG.Glyconanoparticles allow pre-symptomatic in vivo imaging of brain disease.Proc Natl Acad Sci U S A. 2009 Jan 6;106(1):18-23. doi: 10.1073/pnas.0806787106. Epub 2008 Dec 23. Erratum in: Proc Natl Acad Sci U S A. 2009 Mar 10;106(10):4061. PubMed [citation] PMID: 19106304, PMCID: PMC2607245

348. Silva GA.Nanotechnology approaches to crossing the blood-brain barrier and drug delivery to the CNS.BMC Neurosci. 2008 Dec 10;9 Suppl 3:S4. doi: 10.1186/1471-2202-9-S3-S4. Review.PubMed [citation] PMID: 19091001, PMCID: PMC2604882

349. Reddy MK, Labhasetwar V.Nanoparticle-mediated delivery of superoxide dismutase to the brain: an effective strategy to reduce ischemia-reperfusion injury.FASEB J. 2009 May;23(5):1384-95. doi: 10.1096/fj.08-116947. Epub 2009 Jan 5.PubMed [citation] PMID: 19124559

350. López-Viota J, Mandal S, Delgado AV, Toca-Herrera JL, Möller M, Zanuttin F, Balestrino M, Krol S.Electrophoretic characterization of gold nanoparticles functionalized with human serum albumin (HSA) and creatine.J Colloid Interface Sci. 2009 Apr 1;332(1):215-23. doi: 10.1016/j.jcis.2008.11.077. Epub 2009 Jan 19.PubMed [citation] PMID: 19155019

351. Denora N, Trapani A, Laquintana V, Lopedota A, Trapani G.Recent advances in medicinal chemistry and pharmaceutical technology--strategies for drug delivery to the brain.Curr Top Med Chem. 2009;9(2):182-96. Review.PubMed [citation] PMID: 19200004

352. Kordonets OL, Godukhin OV, Podolski IY, Chailakhyan LM.Effect of fullerenes C60

on the activity of pyramidal neurons in the CA1 field of rat hippocampal slices.Dokl Biol Sci. 2008 Nov-Dec;423:382-4. No abstract available. PubMed [citation] PMID: 19213414

353. Gil ES, Li J, Xiao H, Lowe TL.Quaternary ammonium beta-cyclodextrin nanoparticles for enhancing doxorubicin permeability across the in vitro blood-brain barrier.Biomacromolecules. 2009 Mar 9;10(3):505-16. doi: 10.1021/bm801026k.PubMed [citation] PMID: 19216528

354. Shubar HM, Dunay IR, Lachenmaier S, Dathe M, Bushrab FN, Mauludin R, Müller RH, Fitzner R, Borner K, Liesenfeld O.The role of apolipoprotein E in uptake of atovaquone into the brain in murine acute and reactivated toxoplasmosis.J Drug Target. 2009 May;17(4):257-67. doi: 10.1080/10611860902718680.PubMed [citation] PMID: 19255896

355. Agarwal A, Lariya N, Saraogi G, Dubey N, Agrawal H, Agrawal GP.Nanoparticles as novel carrier for brain delivery: a review.Curr Pharm Des. 2009;15(8):917-25. Review.PubMed [citation] PMID: 19275654

356. Chekhonin VP, Dmitrieva TB, Zhirkov IuA, Kabanov AV, Gendel'man KhE.[Nanosystems and targeted transport of medicinal preparations to the brain].Vestn Ross Akad Med Nauk. 2009;(2):32-40. Review. Russian. PubMed [citation] PMID: 19280985

357. Zensi A, Begley D, Pontikis C, Legros C, Mihoreanu L, Wagner S, Büchel C, von Briesen H, Kreuter J.Albumin nanoparticles targeted with Apo E enter the CNS by transcytosis and are delivered to neurones.J Control Release. 2009 Jul 1;137(1):78-86. doi: 10.1016/j.jconrel.2009.03.002. Epub 2009 Mar 11.PubMed [citation] PMID: 19285109

358. Faraji AH, Wipf P.Nanoparticles in cellular drug delivery.Bioorg Med Chem. 2009 Apr 15;17(8):2950-62. doi: 10.1016/j.bmc.2009.02.043. Epub 2009 Feb 26. Review.PubMed [citation] PMID: 19299149

359. Bennewitz MF, Saltzman WM.Nanotechnology for delivery of drugs to the brain for epilepsy.Neurotherapeutics. 2009 Apr;6(2):323-36. doi: 10.1016/j.nurt.2009.01.018. Review.PubMed [citation] PMID: 19332327, PMCID: PMC2673491

360. Kubek MJ, Domb AJ, Veronesi MC.Attenuation of kindled seizures by intranasal delivery of neuropeptide-loaded nanoparticles.Neurotherapeutics. 2009 Apr;6(2):359-71. doi: 10.1016/j.nurt.2009.02.001. Review.PubMed [citation] PMID: 19332331

361. Vergoni AV, Tosi G, Tacchi R, Vandelli MA, Bertolini A, Costantino L.Nanoparticles as drug delivery agents specific for CNS: in vivo biodistribution.Nanomedicine. 2009 Dec;5(4):369-77. doi: 10.1016/j.nano.2009.02.005. Epub 2009 Mar 31.PubMed [citation] PMID: 19341816

362. Graf A, McDowell A, Rades T.Poly(alkylcyanoacrylate) nanoparticles for enhanced delivery of therapeutics - is there real potential?Expert Opin Drug Deliv. 2009

Apr;6(4):371-87. doi: 10.1517/17425240902870413 . Review.PubMed [citation] PMID: 19382881

363. Shriver LP, Koudelka KJ, Manchester M.Viral nanoparticles associate with regions of inflammation and blood brain barrier disruption during CNS infection.J Neuroimmunol. 2009 Jun 25;211(1-2):66-72. doi: 10.1016/j.jneuroim.2009.03.015. Epub 2009 Apr 25.PubMed [citation] PMID: 19394707, PMCID: PMC2858070

364. Rapoport M, Lorberboum-Galski H.TAT-based drug delivery system--new directions in protein delivery for new hopes?Expert Opin Drug Deliv. 2009 May;6(5):453-63. doi: 10.1517/17425240902887029 . Review.PubMed [citation] PMID: 19413454

365. Zhang LW, Monteiro-Riviere NA.Mechanisms of quantum dot nanoparticle cellular uptake.Toxicol Sci. 2009 Jul;110(1):138-55. doi: 10.1093/toxsci/kfp087. Epub 2009 May 4.PubMed [citation] PMID: 19414515

366. Chang J, Jallouli Y, Kroubi M, Yuan XB, Feng W, Kang CS, Pu PY, Betbeder D.Characterization of endocytosis of transferrin-coated PLGA nanoparticles by the blood-brain barrier.Int J Pharm. 2009 Sep 11;379(2):285-92. doi: 10.1016/j.ijpharm.2009.04.035. Epub 2009 May 3.PubMed [citation] PMID: 19416749

367. Kuo YC, Lin CW.Impact of arginine-modified solid lipid nanoparticles on the membrane charge of human brain-microvascular endothelial cells.Colloids Surf B Biointerfaces. 2009 Sep 1;72(2):201-7. doi: 10.1016/j.colsurfb.2009.04.004. Epub 2009 Apr 11.PubMed [citation] PMID: 19419848

368. Park K.Transport across the blood-brain barrier using albumin nanoparticles.J Control Release. 2009 Jul 1;137(1):1. doi: 10.1016/j.jconrel.2009.05.004. Epub 2009 May 7. No abstract available. PubMed [citation] PMID: 19427883

369. Liu G, Men P, Kudo W, Perry G, Smith MA.Nanoparticle-chelator conjugates as inhibitors of amyloid-beta aggregation and neurotoxicity: a novel therapeutic approach for Alzheimer disease.Neurosci Lett. 2009 May 22;455(3):187-90. doi: 10.1016/j.neulet.2009.03.064. Epub 2009 Mar 25.PubMed [citation] PMID: 19429118, PMCID: PMC2683427

370. Li DC, Zhong XK, Zeng ZP, Jiang JG, Li L, Zhao MM, Yang XQ, Chen J, Zhang BS, Zhao QZ, Xie MY, Xiong H, Deng ZY, Zhang XM, Xu SY, Gao YX.Application of targeted drug delivery system in Chinese medicine.J Control Release. 2009 Sep 1;138(2):103-12. doi: 10.1016/j.jconrel.2009.05.008. Epub 2009 May 9. Review.PubMed [citation] PMID: 19433120

371. Liu Y, Huang R, Han L, Ke W, Shao K, Ye L, Lou J, Jiang C.Brain-targeting gene delivery and cellular internalization mechanisms for modified rabies virus glycoprotein RVG29 nanoparticles.Biomaterials. 2009 Sep;30(25):4195-202. doi: 10.1016/j.biomaterials.2009.02.051. Epub 2009 May 20.PubMed [citation] PMID: 19467700

372. Bonoiu A, Mahajan SD, Ye L, Kumar R, Ding H, Yong KT, Roy I, Aalinkeel R, Nair B, Reynolds JL, Sykes DE, Imperiale MA, Bergey EJ, Schwartz SA, Prasad PN.MMP-9 gene

silencing by a quantum dot-siRNA nanoplex delivery to maintain the integrity of the blood brain barrier.Brain Res. 2009 Jul 28;1282:142-55. doi: 10.1016/j.brainres.2009.05.047. Epub 2009 May 27.PubMed [citation] PMID: 19477169, PMCID: PMC2762384

373. Li XB, Zheng H, Zhang ZR, Li M, Huang ZY, Schluesener HJ, Li YY, Xu SQ.Glia activation induced by peripheral administration of aluminum oxide nanoparticles in rat brains.Nanomedicine. 2009 Dec;5(4):473-9. doi: 10.1016/j.nano.2009.01.013. Epub 2009 Feb 13.PubMed [citation] PMID: 19523415

374. Dou H, Grotepas CB, McMillan JM, Destache CJ, Chaubal M, Werling J, Kipp J, Rabinow B, Gendelman HE.Macrophage delivery of nanoformulated antiretroviral drug to the brain in a murine model of neuroAIDS.J Immunol. 2009 Jul 1;183(1):661-9. doi: 10.4049/jimmunol.0900274. Epub 2009 Jun 17.PubMed [citation] PMID: 19535632, PMCID: PMC2765254

375. Wang Z, Zhao J, Li F, Gao D, Xing B.Adsorption and inhibition of acetylcholinesterase by different nanoparticles.Chemosphere. 2009 Sep;77(1):67-73. doi: 10.1016/j.chemosphere.2009.05.015. Epub 2009 Jun 21.PubMed [citation] PMID: 19540550

376. Kreyling WG, Semmler-Behnke M, Seitz J, Scymczak W, Wenk A, Mayer P, Takenaka S, Oberdörster G.Size dependence of the translocation of inhaled iridium and carbon nanoparticle aggregates from the lung of rats to the blood and secondary target organs.Inhal Toxicol. 2009 Jul;21 Suppl 1:55-60. doi: 10.1080/08958370902942517.PubMed [citation] PMID: 19558234

377. Warheit DB, Reed KL, Sayes CM.A role for nanoparticle surface reactivity in facilitating pulmonary toxicity and development of a base set of hazard assays as a component of nanoparticle risk management.Inhal Toxicol. 2009 Jul;21 Suppl 1:61-7. doi: 10.1080/08958370902942640.PubMed [citation] PMID: 19558235

378. Simeonova PP, Erdely A.Engineered nanoparticle respiratory exposure and potential risks for cardiovascular toxicity: predictive tests and biomarkers.Inhal Toxicol. 2009 Jul;21 Suppl 1:68-73. doi: 10.1080/08958370902942566.PubMed [citation] PMID: 19558236

379. Sárközi L, Horváth E, Kónya Z, Kiricsi I, Szalay B, Vezér T, Papp A.Subacute intratracheal exposure of rats to manganese nanoparticles: behavioral, electrophysiological, and general toxicological effects.Inhal Toxicol. 2009 Jul;21 Suppl 1:83-91. doi: 10.1080/08958370902939406.PubMed [citation] PMID: 19558238

380. Wilson B.Brain targeting PBCA nanoparticles and the blood-brain barrier.Nanomedicine (Lond). 2009 Jul;4(5):499-502. doi: 10.2217/nnm.09.29. No abstract available. PubMed [citation] PMID: 19572813

381. Liu L, Xu K, Wang H, Tan PK, Fan W, Venkatraman SS, Li L, Yang YY.Self-assembled cationic peptide nanoparticles as an efficient antimicrobial agent.Nat Nanotechnol. 2009 Jul;4(7):457-63. doi: 10.1038/nnano.2009.153. Epub 2009 Jun

28.PubMed [citation] PMID: 19581900

382. Ramsden CS, Smith TJ, Shaw BJ, Handy RD.Dietary exposure to titanium dioxide nanoparticles in rainbow trout, (Oncorhynchus mykiss): no effect on growth, but subtle biochemical disturbances in the brain.Ecotoxicology. 2009 Oct;18(7):939-51. doi: 10.1007/s10646-009-0357-7. Epub 2009 Jul 10.PubMed [citation] PMID: 19590957

383. Khalil NM, Mainardes RM.Colloidal polymeric nanoparticles and brain drug delivery.Curr Drug Deliv. 2009 Jul;6(3):261-73. Review.PubMed [citation] PMID: 19604140

384. Songjiang Z, Lixiang W.Amyloid-beta associated with chitosan nano-carrier has favorable immunogenicity and permeates the BBB.AAPS PharmSciTech. 2009;10(3):900-5. doi: 10.1208/s12249-009-9279-1. Epub 2009 Jul 16.PubMed [citation] PMID: 19609682, PMCID: PMC2802149

385. Ren T, Xu N, Cao C, Yuan W, Yu X, Chen J, Ren J.Preparation and therapeutic efficacy of polysorbate-80-coated amphotericin B/PLA-b-PEG nanoparticles.J Biomater Sci Polym Ed. 2009;20(10):1369-80. doi: 10.1163/092050609X12457418779185.PubMed [citation] PMID: 19622277

386. Patri A, Umbreit T, Zheng J, Nagashima K, Goering P, Francke-Carroll S, Gordon E, Weaver J, Miller T, Sadrieh N, McNeil S, Stratmeyer M.Energy dispersive X-ray analysis of titanium dioxide nanoparticle distribution after intravenous and subcutaneous injection in mice.J Appl Toxicol. 2009 Nov;29(8):662-72. doi: 10.1002/jat.1454.PubMed [citation] PMID: 19626582

387. Mailänder V, Landfester K.Interaction of nanoparticles with cells.Biomacromolecules. 2009 Sep 14;10(9):2379-400. doi: 10.1021/bm900266r. Review.PubMed [citation] PMID: 19637907

388. Huang R, Ke W, Han L, Liu Y, Shao K, Ye L, Lou J, Jiang C, Pei Y.Brain-targeting mechanisms of lactoferrin-modified DNA-loaded nanoparticles.J Cereb Blood Flow Metab. 2009 Dec;29(12):1914-23. doi: 10.1038/jcbfm.2009.104. Epub 2009 Aug 5.PubMed [citation] PMID: 19654588

389. Tysiak E, Asbach P, Aktas O, Waiczies H, Smyth M, Schnorr J, Taupitz M, Wuerfel J.Beyond blood brain barrier breakdown - in vivo detection of occult neuroinflammatory foci by magnetic nanoparticles in high field MRI.J Neuroinflammation. 2009 Aug 6;6:20. doi: 10.1186/1742-2094-6-20.PubMed [citation] PMID: 19660125, PMCID: PMC2731086

390. Schmid O, Möller W, Semmler-Behnke M, Ferron GA, Karg E, Lipka J, Schulz H, Kreyling WG, Stoeger T.Dosimetry and toxicology of inhaled ultrafine particles.Biomarkers. 2009 Jul;14 Suppl 1:67-73. doi: 10.1080/13547500902965617. Review.PubMed [citation] PMID: 19604063

391. Liu Y, Gao Y, Zhang L, Wang T, Wang J, Jiao F, Li W, Liu Y, Li Y, Li B, Chai Z, Wu G, Chen C.Potential health impact on mice after nasal instillation of

nano-sized copper particles and their translocation in mice.J Nanosci Nanotechnol. 2009 Nov;9(11):6335-43.PubMed [citation] PMID: 19908531

392. Geiser M.Update on macrophage clearance of inhaled micro- and nanoparticles.J Aerosol Med Pulm Drug Deliv. 2010 Aug;23(4):207-17. doi: 10.1089/jamp.2009.0797. Review.PubMed [citation] PMID: 20109124

393. Hsu J, Northrup L, Bhowmick T, Muro S.Enhanced delivery of α-glucosidase for Pompe disease by ICAM-1-targeted nanocarriers: comparative performance of a strategy for three distinct lysosomal storage disorders.Nanomedicine. 2012 Jul;8(5):731-9. doi: 10.1016/j.nano.2011.08.014. Epub 2011 Sep 9.PubMed [citation] PMID: 21906578, PMCID: PMC3279604

394. Gui S, Zhang Z, Zheng L, Cui Y, Liu X, Li N, Sang X, Sun Q, Gao G, Cheng Z, Cheng J, Wang L, Tang M, Hong F.Molecular mechanism of kidney injury of mice caused by exposure to titanium dioxide nanoparticles.J Hazard Mater. 2011 Nov 15;195:365-70. doi: 10.1016/j.jhazmat.2011.08.055. Epub 2011 Aug 24.PubMed [citation] PMID: 21907489

395. Götz AA, Vidal-Puig A, Rödel HG, de Angelis MH, Stoeger T.Carbon-nanoparticle-triggered acute lung inflammation and its resolution are not altered in PPARγ-defective (P465L) mice.Part Fibre Toxicol. 2011 Sep 20;8:28. doi: 10.1186/1743-8977-8-28.PubMed [citation] PMID: 21933390, PMCID: PMC3197489

396. Kim JS, Adamcakova-Dodd A, O'Shaughnessy PT, Grassian VH, Thorne PS.Effects of copper nanoparticle exposure on host defense in a murine pulmonary infection model.Part Fibre Toxicol. 2011 Sep 24;8:29. doi: 10.1186/1743-8977-8-29.PubMed [citation] PMID: 21943386, PMCID: PMC3193802

397. Park MV, Neigh AM, Vermeulen JP, de la Fonteyne LJ, Verharen HW, Briedé JJ, van Loveren H, de Jong WH.The effect of particle size on the cytotoxicity, inflammation, developmental toxicity and genotoxicity of silver nanoparticles.Biomaterials. 2011 Dec;32(36):9810-7. doi: 10.1016/j.biomaterials.2011.08.085. Epub 2011 Sep 25.PubMed [citation] PMID: 21944826

398. Yang YC, Lu HH, Wang WT, Liau I.Selective and absolute quantification of endogenous hypochlorous acid with quantum-dot conjugated microbeads.Anal Chem. 2011 Nov 1;83(21):8267-72. doi: 10.1021/ac202077x. Epub 2011 Oct 13.PubMed [citation] PMID: 21950322

399. Bhowmick T, Berk E, Cui X, Muzykantov VR, Muro S.Effect of flow on endothelial endocytosis of nanocarriers targeted to ICAM-1.J Control Release. 2012 Feb 10;157(3):485-92. doi: 10.1016/j.jconrel.2011.09.067. Epub 2011 Sep 16.PubMed [citation] PMID: 21951807, PMCID: PMC3274617

400. Götz AA, Rozman J, Rödel HG, Fuchs H, Gailus-Durner V, Hrabě de Angelis M, Klingenspor M, Stoeger T.Comparison of particle-exposure triggered pulmonary and systemic inflammation in mice fed with three different diets.Part Fibre Toxicol. 2011 Sep 27;8:30. doi: 10.1186/1743-8977-8-30.PubMed [citation] PMID: 21951864,

PMCID: PMC3197490

401. Zhou J, Neff CP, Liu X, Zhang J, Li H, Smith DD, Swiderski P, Aboellail T, Huang Y, Du Q, Liang Z, Peng L, Akkina R, Rossi JJ.Systemic administration of combinatorial dsiRNAs via nanoparticles efficiently suppresses HIV-1 infection in humanized mice.Mol Ther. 2011 Dec;19(12):2228-38. doi: 10.1038/mt.2011.207. Epub 2011 Sep 27.PubMed [citation] PMID: 21952167, PMCID: PMC3242666

402. Yallapu MM, Jaggi M, Chauhan SC.Curcumin nanoformulations: a future nanomedicine for cancer.Drug Discov Today. 2012 Jan;17(1-2):71-80. doi: 10.1016/j.drudis.2011.09.009. Epub 2011 Sep 18. Review.PubMed [citation] PMID: 21959306, PMCID: PMC3259195

403. Saathoff JG, Inman AO, Xia XR, Riviere JE, Monteiro-Riviere NA.In vitro toxicity assessment of three hydroxylated fullerenes in human skin cells.Toxicol In Vitro. 2011 Dec;25(8):2105-12. doi: 10.1016/j.tiv.2011.09.013. Epub 2011 Sep 22.PubMed [citation] PMID: 21964474, PMCID: PMC3217115

404. Jensen LB, Griger J, Naeye B, Varkouhi AK, Raemdonck K, Schiffelers R, Lammers T, Storm G, de Smedt SC, Sproat BS, Nielsen HM, Foged C.Comparison of polymeric siRNA nanocarriers in a murine LPS-activated macrophage cell line: gene silencing, toxicity and off-target gene expression.Pharm Res. 2012 Mar;29(3):669-82. doi: 10.1007/s11095-011-0589-0. Epub 2011 Oct 5.PubMed [citation] PMID: 21971827

405. Jain S, Thakare VS, Das M, Godugu C, Jain AK, Mathur R, Chuttani K, Mishra AK.Toxicity of multiwalled carbon nanotubes with end defects critically depends on their functionalization density.Chem Res Toxicol. 2011 Nov 21;24(11):2028-39. doi: 10.1021/tx2003728. Epub 2011 Oct 18.PubMed [citation] PMID: 21978239

406. Grant DN, Benson J, Cozad MJ, Whelove OE, Bachman SL, Ramshaw BJ, Grant DA, Grant SA.Conjugation of gold nanoparticles to polypropylene mesh for enhanced biocompatibility.J Mater Sci Mater Med. 2011 Dec;22(12):2803-12. doi: 10.1007/s10856-011-4449-6. Epub 2011 Oct 7.PubMed [citation] PMID: 21979166

407. Jubeli E, Moine L, Vergnaud-Gauduchon J, Barratt G.E-selectin as a target for drug delivery and molecular imaging.J Control Release. 2012 Mar 10;158(2):194-206. doi: 10.1016/j.jconrel.2011.09.084. Epub 2011 Sep 29. Review.PubMed [citation] PMID: 21983284

408. Leuschner F, Dutta P, Gorbatov R, Novobrantseva TI, Donahoe JS, Courties G, Lee KM, Kim JI, Markmann JF, Marinelli B, Panizzi P, Lee WW, Iwamoto Y, Milstein S, Epstein-Barash H, Cantley W, Wong J, Cortez-Retamozo V, Newton A, Love K, Libby P, Pittet MJ, et al.Therapeutic siRNA silencing in inflammatory monocytes in mice.Nat Biotechnol. 2011 Oct 9;29(11):1005-10. doi: 10.1038/nbt.1989.Pub

409. Saber AT, Koponen IK, Jensen KA, Jacobsen NR, Mikkelsen L, Møller P, Loft S, Vogel U, Wallin H.Inflammatory and genotoxic effects of sanding dust generated from nanoparticle-containing paints and lacquers.Nanotoxicology. 2012 Nov;6(7):776-88. doi: 10.3109/17435390.2011.620745. Epub 2011 Oct 13.PubMed

[citation] PMID: 21995293

410. Scherbart AM, Langer J, Bushmelev A, van Berlo D, Haberzettl P, van Schooten FJ, Schmidt AM, Rose CR, Schins RP, Albrecht C.Contrasting macrophage activation by fine and ultrafine titanium dioxide particles is associated with different uptake mechanisms.Part Fibre Toxicol. 2011 Oct 13;8:31. doi: 10.1186/1743-8977-8-31.PubMed [citation] PMID: 21995556, PMCID: PMC3214143

411. Masuda S, Nakano K, Funakoshi K, Zhao G, Meng W, Kimura S, Matoba T, Miyagawa M, Iwata E, Sunagawa K, Egashira K.Imatinib mesylate-incorporated nanoparticle-eluting stent attenuates in-stent neointimal formation in porcine coronary arteries.J Atheroscler Thromb. 2011;18(12):1043-53. Epub 2011 Oct 13.PubMed [citation] PMID: 21996703

412. Win-Shwe TT, Fujitani Y, Hirano S, Fujimaki H.[Exposure to nanoparticle-rich diesel exhaust affects hippocampal functions in mice].Nihon Eiseigaku Zasshi. 2011 Sep;66(4):628-33. Japanese. PubMed [citation] PMID: 21996758

413. Ito Y, Ramdhan DH, Yanagiba Y, Yamagishi N, Kamijima M, Nakajima T.[Exposure to nanoparticle-rich diesel exhaust may cause liver damage].Nihon Eiseigaku Zasshi. 2011 Sep;66(4):638-42. Review. Japanese. PubMed [citation] PMID: 21996760

414. Shao X, Zhang H, Rajian JR, Chamberland DL, Sherman PS, Quesada CA, Koch AE, Kotov NA, Wang X.125I-labeled gold nanorods for targeted imaging of inflammation.ACS Nano. 2011 Nov 22;5(11):8967-73. doi: 10.1021/nn203138t. Epub 2011 Oct 27.PubMed [citation] PMID: 22003968, PMCID: PMC3222780

415. Bernier MC, El Kirat K, Besse M, Morandat S, Vayssade M.Preosteoblasts and fibroblasts respond differently to anatase titanium dioxide nanoparticles: a cytotoxicity and inflammation study.Colloids Surf B Biointerfaces. 2012 Feb 1;90:68-74. doi: 10.1016/j.colsurfb.2011.09.044. Epub 2011 Oct 5.PubMed [citation] PMID: 22019048

416. Ma-Hock L, Brill S, Wohlleben W, Farias PM, Chaves CR, Tenório DP, Fontes A, Santos BS, Landsiedel R, Strauss V, Treumann S, Ravenzwaay Bv.Short term inhalation toxicity of a liquid aerosol of CdS/$Cd(OH)_2$ core shell quantum dots in male Wistar rats.Toxicol Lett. 2012 Jan 25;208(2):115-24. doi: 10.1016/j.toxlet.2011.10.011. Epub 2011 Oct 20.PubMed [citation] PMID: 22027348

417. Iezzi R, Guru BR, Glybina IV, Mishra MK, Kennedy A, Kannan RM.Dendrimer-based targeted intravitreal therapy for sustained attenuation of neuroinflammation in retinal degeneration.Biomaterials. 2012 Jan;33(3):979-88. doi: 10.1016/j.biomaterials.2011.10.010. Epub 2011 Nov 1.PubMed [citation] PMID: 22048009

418. Szelenyi I.Nanomedicine: evolutionary and revolutionary developments in the treatment of certain inflammatory diseases.Inflamm Res. 2012 Jan;61(1):1-9. doi: 10.1007/s00011-011-0393-7. Epub 2011 Nov 5. Review.PubMed [citation] PMID: 22057873

419. Moscicki AB, Kaul R, Ma Y, Scott ME, Daud II, Bukusi EA, Shiboski S, Rebbapragada A, Huibner S, Cohen CR.Measurement of mucosal biomarkers in a phase 1 trial of intravaginal 3% StarPharma LTD 7013 gel (VivaGel) to assess expanded safety.J Acquir Immune Defic Syndr. 2012 Feb 1;59(2):134-40. doi: 10.1097/QAI.0b013e31823f2aeb.PubMed [citation] PMID: 22067666, PMCID: PMC3261360

420. Wadhwa S, Jain A, Woodward JG, Mumper RJ.Lipid nanocapsule as vaccine carriers for his-tagged proteins: evaluation of antigen-specific immune responses to HIV I His-Gag p41 and systemic inflammatory responses.Eur J Pharm Biopharm. 2012 Feb;80(2):315-22. doi: 10.1016/j.ejpb.2011.10.016. Epub 2011 Oct 31.PubMed [citation] PMID: 22068049, PMCID: PMC3273636

421. Nalabotu SK, Kolli MB, Triest WE, Ma JY, Manne ND, Katta A, Addagarla HS, Rice KM, Blough ER.Intratracheal instillation of cerium oxide nanoparticles induces hepatic toxicity in male Sprague-Dawley rats.Int J Nanomedicine. 2011;6:2327-35. doi: 10.2147/IJN.S25119. Epub 2011 Oct 14.PubMed [citation] PMID: 22072870, PMCID: PMC3205129

422. Mikkelsen L, Sheykhzade M, Jensen KA, Saber AT, Jacobsen NR, Vogel U, Wallin H, Loft S, Møller P.Modest effect on plaque progression and vasodilatory function in atherosclerosis-prone mice exposed to nanosized TiO(2).Part Fibre Toxicol. 2011 Nov 10;8:32. doi: 10.1186/1743-8977-8-32.PubMed [citation] PMID: 22074227, PMCID: PMC3245428

423. Dagenais M, Skeldon A, Saleh M.The inflammasome: in memory of Dr. Jurg Tschopp.Cell Death Differ. 2012 Jan;19(1):5-12. doi: 10.1038/cdd.2011.159. Epub 2011 Nov 11.PubMed [citation] PMID: 22075986, PMCID: PMC3252823

424. Canzi L, Castellaneta V, Navone S, Nava S, Dossena M, Zucca I, Mennini T, Bigini P, Parati EA.Human skeletal muscle stem cell antiinflammatory activity ameliorates clinical outcome in amyotrophic lateral sclerosis models.Mol Med. 2012 May 9;18:401-11. doi: 10.2119/molmed.2011.00123.PubMed [citation] PMID: 22076467, PMCID: PMC3356418

425. Wang CY, Yang CH, Lin YS, Chen CH, Huang KS.Anti-inflammatory effect with high intensity focused ultrasound-mediated pulsatile delivery of diclofenac.Biomaterials. 2012 Feb;33(5):1547-53. doi: 10.1016/j.biomaterials.2011.10.047. Epub 2011 Nov 13.PubMed [citation] PMID: 22082618

426. Beni V, Zewdu T, Joda H, Katakis I, O'Sullivan CK.Gold nanoparticle fluorescent molecular beacon for low-resolution DQ2 gene HLA typing.Anal Bioanal Chem. 2012 Jan;402(3):1001-9. doi: 10.1007/s00216-011-5493-2. Epub 2011 Nov 16.PubMed [citation] PMID: 22086396

427. Licha K, Welker P, Weinhart M, Wegner N, Kern S, Reichert S, Gemeinhardt I, Weissbach C, Ebert B, Haag R, Schirner M.Fluorescence imaging with multifunctional polyglycerol sulfates: novel polymeric near-IR probes targeting inflammation.Bioconjug Chem. 2011 Dec 21;22(12):2453-60. doi: 10.1021/bc2002727. Epub 2011 Nov 17.PubMed [citation] PMID: 22092336

428. Kilpadi DV, Cunningham MR.Evaluation of closed incision management with negative pressure wound therapy (CIM): hematoma/seroma and involvement of the lymphatic system.Wound Repair Regen. 2011 Sep-Oct;19(5):588-96. doi: 10.1111/j.1524-475X.2011.00714.x.PubMed [citation] PMID: 22092797

429. Lindberg HK, Falck GC, Catalán J, Koivisto AJ, Suhonen S, Järventaus H, Rossi EM, Nykäsenoja H, Peltonen Y, Moreno C, Alenius H, Tuomi T, Savolainen KM, Norppa H.Genotoxicity of inhaled nanosized TiO(2) in mice.Mutat Res. 2012 Jun 14;745(1-2):58-64. doi: 10.1016/j.mrgentox.2011.10.011. Epub 2011 Nov 7.PubMed [citation] PMID: 22094288

430. Ho CC, Chang H, Tsai HT, Tsai MH, Yang CS, Ling YC, Lin P.Quantum dot 705, a cadmium-based nanoparticle, induces persistent inflammation and granuloma formation in the mouse lung.Nanotoxicology. 2013 Feb;7(1):105-15. doi: 10.3109/17435390.2011.635814. Epub 2011 Nov 22.PubMed [citation] PMID: 22107365

431. Mura S, Hillaireau H, Nicolas J, Le Droumaguet B, Gueutin C, Zanna S, Tsapis N, Fattal E.Influence of surface charge on the potential toxicity of PLGA nanoparticles towards Calu-3 cells.Int J Nanomedicine. 2011;6:2591-605. doi: 10.2147/IJN.S24552. Epub 2011 Oct 26.PubMed [citation] PMID: 22114491, PMCID: PMC3218574

432. Jackson P, Halappanavar S, Hougaard KS, Williams A, Madsen AM, Lamson JS, Andersen O, Yauk C, Wallin H, Vogel U.Maternal inhalation of surface-coated nanosized titanium dioxide (UV-Titan) in C57BL/6 mice: effects in prenatally exposed offspring on hepatic DNA damage and gene expression.Nanotoxicology. 2013 Feb;7(1):85-96. doi: 10.3109/17435390.2011.633715. Epub 2011 Nov 28.PubMed [citation] PMID: 22117692

433. Shah PP, Desai PR, Patel AR, Singh MS.Skin permeating nanogel for the cutaneous co-delivery of two anti-inflammatory drugs.Biomaterials. 2012 Feb;33(5):1607-17. doi: 10.1016/j.biomaterials.2011.11.011. Epub 2011 Nov 26.PubMed [citation] PMID: 22118820, PMCID: PMC3242008

434. Ho M, Wu KY, Chein HM, Chen LC, Cheng TJ.Pulmonary toxicity of inhaled nanoscale and fine zinc oxide particles: mass and surface area as an exposure metric.Inhal Toxicol. 2011 Dec;23(14):947-56. doi: 10.3109/08958378.2011.629235.PubMed [citation] PMID: 22122307

435. Goncalves DM, de Liz R, Girard D.Activation of neutrophils by nanoparticles.ScientificWorldJournal. 2011;11:1877-85. doi: 10.1100/2011/768350. Epub 2011 Oct 24. Review.PubMed [citation] PMID: 22125444, PMCID: PMC3217611

436. Gargiulo P, D'Amore C, Dellegrottaglie S, Leosco D, Rengo G, Musella F, Pirozzi E, Mosca S, Casaretti L, Formisano R, Bologna A, Parente A, Conte S, Perrone-Filardi P.[From myocardium to the atherosclerotic plaque: new perspectives in cardiologic imaging].Monaldi Arch Chest Dis. 2011 Jun;76(2):60-5. Review. Italian. PubMed [citation] PMID: 22128608

437. Corbalan JJ, Medina C, Jacoby A, Malinski T, Radomski MW.Amorphous silica nanoparticles trigger nitric oxide/peroxynitrite imbalance in human endothelial cells: inflammatory and cytotoxic effects.Int J Nanomedicine. 2011;6:2821-35. doi: 10.2147/IJN.S25071. Epub 2011 Nov 9.PubMed [citation] PMID: 22131828, PMCID: PMC3224709

438. Wong R, Chen X, Wang Y, Hu X, Jin MM.Visualizing and quantifying acute inflammation using ICAM-1 specific nanoparticles and MRI quantitative susceptibility mapping.Ann Biomed Eng. 2012 Jun;40(6):1328-38. doi: 10.1007/s10439-011-0482-3. Epub 2011 Dec 6.PubMed [citation] PMID: 22143599

439. Zhu M, Li Y, Shi J, Feng W, Nie G, Zhao Y.Exosomes as extrapulmonary signaling conveyors for nanoparticle-induced systemic immune activation.Small. 2012 Feb 6;8(3):404-12. doi: 10.1002/smll.201101708. Epub 2011 Dec 6.PubMed [citation] PMID: 22144073

440. Hwang do W, Lee DS, Kim S.Gene expression profiles for genotoxic effects of silica-free and silica-coated cobalt ferrite nanoparticles.J Nucl Med. 2012 Jan;53(1):106-12. doi: 10.2967/jnumed.111.088443. Epub 2011 Dec 6.PubMed [citation] PMID: 22147119

441. Sharma A, Soliman GM, Al-Hajaj N, Sharma R, Maysinger D, Kakkar A.Design and evaluation of multifunctional nanocarriers for selective delivery of coenzyme Q10 to mitochondria.Biomacromolecules. 2012 Jan 9;13(1):239-52. doi: 10.1021/bm201538j. Epub 2011 Dec 16.PubMed [citation] PMID: 22148549

442. Abdelhalim MA.Gold nanoparticles administration induces disarray of heart muscle, hemorrhagic, chronic inflammatory cells infiltrated by small lymphocytes, cytoplasmic vacuolization and congested and dilated blood vessels.Lipids Health Dis. 2011 Dec 9;10:233. doi: 10.1186/1476-511X-10-233.PubMed [citation] PMID: 22151883, PMCID: PMC3278398

443. Khandare J, Calderón M, Dagia NM, Haag R.Multifunctional dendritic polymers in nanomedicine: opportunities and challenges.Chem Soc Rev. 2012 Apr 7;41(7):2824-48. doi: 10.1039/c1cs15242d. Epub 2011 Dec 12. Review.PubMed [citation] PMID: 22158998

444. Chen P, Migita S, Kanehira K, Sonezaki S, Taniguchi A.Development of sensor cells using NF-κB pathway activation for detection of nanoparticle-induced inflammation.Sensors (Basel). 2011;11(7):7219-30. doi: 10.3390/s110707219. Epub 2011 Jul 18.PubMed [citation] PMID: 22164013, PMCID: PMC3231678

445. Li CH, Liao PL, Shyu MK, Liu CW, Kao CC, Huang SH, Cheng YW, Kang JJ.Zinc oxide nanoparticles-induced intercellular adhesion molecule 1 expression requires Rac1/Cdc42, mixed lineage kinase 3, and c-Jun N-terminal kinase activation in endothelial cells.Toxicol Sci. 2012 Mar;126(1):162-72. doi: 10.1093/toxsci/kfr331. Epub 2011 Dec 13.PubMed [citation] PMID: 22166487

446. Lenz QF, Guterres SS, Pohlmann A, Alves MP.Semi-solid topical formulations containing nimesulide-loaded nanocapsules showed in-vivo anti-inflammatory

activity in chronic arthritis and fibrovascular tissue models.Inflamm Res. 2012 Apr;61(4):305-10. doi: 10.1007/s00011-011-0411-9. Epub 2011 Dec 18.PubMed [citation] PMID: 22179794

447. Liu T, Li L, Fu C, Liu H, Chen D, Tang F.Pathological mechanisms of liver injury caused by continuous intraperitoneal injection of silica nanoparticles.Biomaterials. 2012 Mar;33(7):2399-407. doi: 10.1016/j.biomaterials.2011.12.008. Epub 2011 Dec 17.PubMed [citation] PMID: 22182752

448. Hardy CL, LeMasurier JS, Belz GT, Scalzo-Inguanti K, Yao J, Xiang SD, Kanellakis P, Bobik A, Strickland DH, Rolland JM, O'Hehir RE, Plebanski M.Inert 50-nm polystyrene nanoparticles that modify pulmonary dendritic cell function and inhibit allergic airway inflammation.J Immunol. 2012 Feb 1;188(3):1431-41. doi: 10.4049/jimmunol.1100156. Epub 2011 Dec 21.PubMed [citation] PMID: 22190179

449. Fireman E.Ultrafine and nanoparticles-induced oxidative stress: the role of heme oxygenase-1 and carbon monoxide as anti-inflammatory pathways.J Asthma. 2012 Feb;49(1):8-9. doi: 10.3109/02770903.2011.641047. Epub 2011 Dec 22. Review.PubMed [citation] PMID: 22191422

450. Yang X, Liu X, Lu H, Zhang X, Ma L, Gao R, Zhang Y.Real-time investigation of acute toxicity of ZnO nanoparticles on human lung epithelia with hopping probe ion conductance microscopy.Chem Res Toxicol. 2012 Feb 20;25(2):297-304. doi: 10.1021/tx2004823. Epub 2012 Jan 6.PubMed [citation] PMID: 22191635

451. Boraschi D, Costantino L, Italiani P.Interaction of nanoparticles with immunocompetent cells: nanosafety considerations.Nanomedicine (Lond). 2012 Jan;7(1):121-31. doi: 10.2217/nnm.11.169. Review.PubMed [citation] PMID: 22191781

452. Weise G, Basse-Lüsebrink TC, Kleinschnitz C, Kampf T, Jakob PM, Stoll G.In vivo imaging of stepwise vessel occlusion in cerebral photothrombosis of mice by 19F MRI.PLoS One. 2011;6(12):e28143. doi: 10.1371/journal.pone.0028143. Epub 2011 Dec 15.PubMed [citation] PMID: 22194810, PMCID: PMC3240623

453. Zou L, Nair A, Weng H, Tsai YT, Hu Z, Tang L.Intraocular pressure changes: an important determinant of the biocompatibility of intravitreous implants.PLoS One. 2011;6(12):e28720. doi: 10.1371/journal.pone.0028720. Epub 2011 Dec 14.PubMed [citation] PMID: 22194895, PMCID: PMC3237488

454. Schinwald A, Murphy FA, Jones A, MacNee W, Donaldson K.Graphene-based nanoplatelets: a new risk to the respiratory system as a consequence of their unusual aerodynamic properties.ACS Nano. 2012 Jan 24;6(1):736-46. doi: 10.1021/nn204229f. Epub 2012 Jan 6.PubMed [citation] PMID: 22195731

455. Vandebriel RJ, De Jong WH.A review of mammalian toxicity of ZnO nanoparticles.Nanotechnol Sci Appl. 2012 Aug 15;5:61-71. doi: 10.2147/NSA.S23932. Review.PubMed [citation] PMID: 24198497, PMCID: PMC3781722

456. Chawla V, Saraf SA.Rheological studies on solid lipid nanoparticle based carbopol

gels of aceclofenac.Colloids Surf B Biointerfaces. 2012 Apr 1;92:293-8. doi: 10.1016/j.colsurfb.2011.12.006. Epub 2011 Dec 20.PubMed [citation] PMID: 22221454

457. Sharma G, van der Walle CF, Ravi Kumar MN.Antacid co-encapsulated polyester nanoparticles for peroral delivery of insulin: development, pharmacokinetics, biodistribution and pharmacodynamics.Int J Pharm. 2013 Jan 2;440(1):99-110. doi: 10.1016/j.ijpharm.2011.12.038. Epub 2011 Dec 30.PubMed [citation] PMID: 22227604

458. Song W, Yu X, Wang S, Blasier R, Markel DC, Mao G, Shi T, Ren W.Cyclodextrin-erythromycin complexes as a drug delivery device for orthopedic application.Int J Nanomedicine. 2011;6:3173-86. doi: 10.2147/IJN.S23530. Epub 2011 Dec 8.PubMed [citation] PMID: 22228990, PMCID: PMC3252670

459. Landesman-Milo D, Peer D.Altering the immune response with lipid-based nanoparticles.J Control Release. 2012 Jul 20;161(2):600-8. doi: 10.1016/j.jconrel.2011.12.034. Epub 2011 Dec 30. Review.PubMed [citation] PMID: 22230342

460. Hazer DB, Hazer B, Dinçer N.Soft tissue response to the presence of polypropylene-G-poly(ethylene glycol) comb-type graft copolymers containing gold nanoparticles.J Biomed Biotechnol. 2011;2011:956169. doi: 10.1155/2011/956169. Epub 2011 Dec 25.PubMed [citation] PMID: 22235166, PMCID: PMC3253541

461. Goncalves DM, de Liz R, Girard D.The inflammatory process in response to nanoparticles.ScientificWorldJournal. 2011;11:2441-2. doi: 10.1100/2011/143947. Epub 2011 Dec 15. No abstract available. PubMed [citation] PMID: 22235176, PMCID: PMC3251797

462. Leung K.Cy5.5-Gly-Pro-Leu-Gly-Val-Arg-Gly-(TDOPA)(3)-flower-like gold–Fe(3)O(4) optical nanoparticles.2011 Oct 06 [updated 2012 Jan 05]. Molecular Imaging and Contrast Agent Database (MICAD) [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2004-2013.PubMed [citation] PMID: 22238802

463. Wilkinson LJ, White RJ, Chipman JK.Silver and nanoparticles of silver in wound dressings: a review of efficacy and safety.J Wound Care. 2011 Nov;20(11):543-9. Review.PubMed [citation] PMID: 22240850

464. Cho WS, Duffin R, Thielbeer F, Bradley M, Megson IL, Macnee W, Poland CA, Tran CL, Donaldson K.Zeta potential and solubility to toxic ions as mechanisms of lung inflammation caused by metal/metal oxide nanoparticles.Toxicol Sci. 2012 Apr;126(2):469-77. doi: 10.1093/toxsci/kfs006. Epub 2012 Jan 12.PubMed [citation] PMID: 22240982

465. Chakraborty S, Stalin S, Das N, Choudhury ST, Ghosh S, Swarnakar S.The use of nano-quercetin to arrest mitochondrial damage and MMP-9 upregulation during prevention of gastric inflammation induced by ethanol in rat.Biomaterials. 2012 Apr;33(10):2991-3001. doi: 10.1016/j.biomaterials.2011.12.037. Epub 2012 Jan 16.PubMed [citation] PMID: 22257724

466. Truong L, Tilton SC, Zaikova T, Richman E, Waters KM, Hutchison JE, Tanguay

RL.Surface functionalities of gold nanoparticles impact embryonic gene expression responses.Nanotoxicology. 2013 Mar;7(2):192-201. doi: 10.3109/17435390.2011.648225. Epub 2012 Jan 20.PubMed [citation] PMID: 22263968, PMCID: PMC3399027

467. Song KS, Sung JH, Ji JH, Lee JH, Lee JS, Ryu HR, Lee JK, Chung YH, Park HM, Shin BS, Chang HK, Kelman B, Yu IJ.Recovery from silver-nanoparticle-exposure-induced lung inflammation and lung function changes in Sprague Dawley rats.Nanotoxicology. 2013 Mar;7(2):169-80. doi: 10.3109/17435390.2011.648223. Epub 2012 Jan 20.PubMed [citation] PMID: 22264098

468. Rubinstein I, Weinberg GL.Nanomedicines for chronic non-infectious arthritis: the clinician's perspective.Maturitas. 2012 Sep;73(1):68-73. doi: 10.1016/j.maturitas.2011.11.021. Epub 2012 Jan 20. Review.PubMed [citation] PMID: 22264497

469. Ma-Hock L, Landsiedel R, Wiench K, Geiger D, Strauss V, Gröters S, Ravenzwaay Bv, Gerst M, Wohlleben W, Scherer G.Short-term rat inhalation study with aerosols of acrylic ester-based polymer dispersions containing a fraction of nanoparticles.Int J Toxicol. 2012 Jan-Feb;31(1):46-57. doi: 10.1177/1091581811424778. Epub 2012 Jan 19.PubMed [citation] PMID: 22267870

470. Cheng TH, Ko FC, Chang JL, Wu KA.Bronchiolitis obliterans organizing pneumonia due to titanium nanoparticles in paint.Ann Thorac Surg. 2012 Feb;93(2):666-9. doi: 10.1016/j.athoracsur.2011.07.062.PubMed [citation] PMID: 22269741

471. Prabhu P, Shetty R, Koland M, Vijayanarayana K, Vijayalakshmi KK, Nairy MH, Nisha GS.Investigation of nano lipid vesicles of methotrexate for anti-rheumatoid activity.Int J Nanomedicine. 2012;7:177-86. doi: 10.2147/IJN.S25310. Epub 2012 Jan 9.PubMed [citation] PMID: 22275833, PMCID: PMC3263410

472. Panas A, Marquardt C, Nalcaci O, Bockhorn H, Baumann W, Paur HR, Mülhopt S, Diabaté S, Weiss C.Screening of different metal oxide nanoparticles reveals selective toxicity and inflammatory potential of silica nanoparticles in lung epithelial cells and macrophages.Nanotoxicology. 2013 May;7(3):259-73. doi: 10.3109/17435390.2011.652206. Epub 2012 Jan 26.PubMed [citation] PMID: 22276741

473. Attarwala H, Amiji M.Multi-compartmental nanoparticles-in-emulsion formulation for macrophage-specific anti-inflammatory gene delivery.Pharm Res. 2012 Jun;29(6):1637-49. doi: 10.1007/s11095-012-0677-9. Epub 2012 Jan 27.PubMed [citation] PMID: 22281760

474. Schairer D, Martinez LR, Blecher K, Chouake J, Nacharaju P, Gialanella P, Friedman JM, Nosanchuk JD, Friedman A.Nitric oxide nanoparticles: pre-clinical utility as a therapeutic for intramuscular abscesses.Virulence. 2012 Jan-Feb;3(1):62-7. doi: 10.4161/viru.3.1.18816. Epub 2012 Jan 1.PubMed [citation] PMID: 22286699, PMCID: PMC3337151

475. Akhtar MJ, Ahamed M, Fareed M, Alrokayan SA, Kumar S.Protective effect of sulphoraphane against oxidative stress mediated toxicity induced by CuO

nanoparticles in mouse embryonic fibroblasts BALB 3T3.J Toxicol Sci. 2012 Feb;37(1):139-48.PubMed [citation] PMID: 22293418

476. Yoo JW.Toward improved selectivity of targeted delivery: the potential of magnetic nanoparticles.Arch Pharm Res. 2012 Jan;35(1):1-2. doi: 10.1007/s12272-012-0100-4.PubMed [citation] PMID: 22297736

477. Escribano E, Fernández-Pacheco R, Valdivia JG, Ibarra MR, Marquina C, Queralt J.Effect of magnet implant on iron biodistribution of Fe@C nanoparticles in the mouse.Arch Pharm Res. 2012 Jan;35(1):93-100. doi: 10.1007/s12272-012-0109-8. Epub 2012 Feb 2.PubMed [citation] PMID: 22297747

478. Saber AT, Jacobsen NR, Mortensen A, Szarek J, Jackson P, Madsen AM, Jensen KA, Koponen IK, Brunborg G, Gützkow KB, Vogel U, Wallin H.Nanotitanium dioxide toxicity in mouse lung is reduced in sanding dust from paint.Part Fibre Toxicol. 2012 Feb 2;9:4. doi: 10.1186/1743-8977-9-4.PubMed [citation] PMID: 22300483, PMCID: PMC3298479

479. Bourdon JA, Saber AT, Jacobsen NR, Jensen KA, Madsen AM, Lamson JS, Wallin H, Møller P, Loft S, Yauk CL, Vogel UB.Carbon black nanoparticle instillation induces sustained inflammation and genotoxicity in mouse lung and liver.Part Fibre Toxicol. 2012 Feb 2;9:5. doi: 10.1186/1743-8977-9-5.PubMed [citation] PMID: 22300514, PMCID: PMC3293019

480. Collnot EM, Ali H, Lehr CM.Nano- and microparticulate drug carriers for targeting of the inflamed intestinal mucosa.J Control Release. 2012 Jul 20;161(2):235-46. doi: 10.1016/j.jconrel.2012.01.028. Epub 2012 Jan 25. Review.PubMed [citation] PMID: 22306429

481. Ema M, Tanaka J, Kobayashi N, Naya M, Endoh S, Maru J, Hosoi M, Nagai M, Nakajima M, Hayashi M, Nakanishi J.Genotoxicity evaluation of fullerene C60 nanoparticles in a comet assay using lung cells of intratracheally instilled rats.Regul Toxicol Pharmacol. 2012 Apr;62(3):419-24. doi: 10.1016/j.yrtph.2012.01.003. Epub 2012 Jan 28.PubMed [citation] PMID: 22306441

482. Maiseyeu A, Badgeley MA, Kampfrath T, Mihai G, Deiuliis JA, Liu C, Sun Q, Parthasarathy S, Simon DI, Croce K, Rajagopalan S.In vivo targeting of inflammation-associated myeloid-related protein 8/14 via gadolinium immunonanoparticles.Arterioscler Thromb Vasc Biol. 2012 Apr;32(4):962-70. doi: 10.1161/ATVBAHA.111.244509. Epub 2012 Feb 2.PubMed [citation] PMID: 22308043, PMCID: PMC3348503

483. Newman KL, Newman LS.Occupational causes of sarcoidosis.Curr Opin Allergy Clin Immunol. 2012 Apr;12(2):145-50. doi: 10.1097/ACI.0b013e3283515173. Review.PubMed [citation] PMID: 22314258, PMCID: PMC4196683

484. Liu X, Cheng D, Gray BD, Wang Y, Akalin A, Rusckowski M, Pak KY, Hnatowich DJ.Radiolabeled Zn-DPA as a potential infection imaging agent.Nucl Med Biol. 2012 Jul;39(5):709-14. doi: 10.1016/j.nucmedbio.2011.12.006. Epub 2012 Feb 10.PubMed [citation] PMID: 22321532

485. Asharani P, Sethu S, Lim HK, Balaji G, Valiyaveettil S, Hande MP.Differential regulation of intracellular factors mediating cell cycle, DNA repair and inflammation following exposure to silver nanoparticles in human cells.Genome Integr. 2012 Feb 10;3(1):2. doi: 10.1186/2041-9414-3-2.PubMed [citation] PMID: 22321936, PMCID: PMC3305596

486. Jubeli E, Moine L, Nicolas V, Barratt G.Preparation of E-selectin-targeting nanoparticles and preliminary in vitro evaluation.Int J Pharm. 2012 Apr 15;426(1-2):291-301. doi: 10.1016/j.ijpharm.2012.01.029. Epub 2012 Jan 23.PubMed [citation] PMID: 22322211

487. Han CC, Wang Y.Anti-inflammation effects of Sophora flavescens nanoparticles.Inflammation. 2012 Aug;35(4):1262-8. doi: 10.1007/s10753-012-9437-6.PubMed [citation] PMID: 22327863

488. Hwang JH, Kim SJ, Kim YH, Noh JR, Gang GT, Chung BH, Song NW, Lee CH.Susceptibility to gold nanoparticle-induced hepatotoxicity is enhanced in a mouse model of nonalcoholic steatohepatitis.Toxicology. 2012 Mar 29;294(1):27-35. doi: 10.1016/j.tox.2012.01.013. Epub 2012 Jan 28.PubMed [citation] PMID: 22330258

489. Corbalan JJ, Medina C, Jacoby A, Malinski T, Radomski MW.Amorphous silica nanoparticles aggregate human platelets: potential implications for vascular homeostasis.Int J Nanomedicine. 2012;7:631-9. doi: 10.2147/IJN.S28293. Epub 2012 Feb 7.PubMed [citation] PMID: 22334785, PMCID: PMC3278227

490. Kaittanis C, Santra S, Asati A, Perez JM.A cerium oxide nanoparticle-based device for the detection of chronic inflammation via optical and magnetic resonance imaging.Nanoscale. 2012 Mar 21;4(6):2117-23. doi: 10.1039/c2nr11956k. Epub 2012 Feb 15.PubMed [citation] PMID: 22337314

491. Acharya G, Hopkins RA, Lee CH.Advanced polymeric matrix for valvular complications.J Biomed Mater Res A. 2012 May;100(5):1151-9. doi: 10.1002/jbm.a.34055. Epub 2012 Feb 15.PubMed [citation] PMID: 22337643

492. Romoser AA, Figueroa DE, Sooresh A, Scribner K, Chen PL, Porter W, Criscitiello MF, Sayes CM.Distinct immunomodulatory effects of a panel of nanomaterials in human dermal fibroblasts.Toxicol Lett. 2012 May 5;210(3):293-301. doi: 10.1016/j.toxlet.2012.01.022. Epub 2012 Feb 9.PubMed [citation] PMID: 22342292

493. Ban M, Langonné I, Huguet N, Goutet M.Effect of submicron and nano-iron oxide particles on pulmonary immunity in mice.Toxicol Lett. 2012 May 5;210(3):267-75. doi: 10.1016/j.toxlet.2012.02.004. Epub 2012 Feb 10.PubMed [citation] PMID: 22343040

494. Cai T, Hu PD, Sun M, Zhou J, Tsai YT, Baker D, Tang L.Novel thermogelling dispersions of polymer nanoparticles for controlled protein release.Nanomedicine. 2012 Nov;8(8):1301-8. doi: 10.1016/j.nano.2012.02.002. Epub 2012 Feb 17.PubMed [citation] PMID: 22349097, PMCID: PMC3371180

495. Fruijtier-Pölloth C.The toxicological mode of action and the safety of synthetic amorphous silica-a nanostructured material.Toxicology. 2012 Apr 11;294(2-3):61-79. doi: 10.1016/j.tox.2012.02.001. Epub 2012 Feb 13. Review.PubMed [citation] PMID: 22349641

496. Montiel-Dávalos A, Ventura-Gallegos JL, Alfaro-Moreno E, Soria-Castro E, García-Latorre E, Cabañas-Moreno JG, del Pilar Ramos-Godinez M, López-Marure R.TiO_2 nanoparticles induce dysfunction and activation of human endothelial cells.Chem Res Toxicol. 2012 Apr 16;25(4):920-30. doi: 10.1021/tx200551u. Epub 2012 Mar 12.PubMed [citation] PMID: 22352400

497. Kiessling F, Bzyl J, Fokong S, Siepmann M, Schmitz G, Palmowski M.Targeted ultrasound imaging of cancer: an emerging technology on its way to clinics.Curr Pharm Des. 2012;18(15):2184-99. Review.PubMed [citation] PMID: 22352772

498. Danhier F, Ansorena E, Silva JM, Coco R, Le Breton A, Préat V.PLGA-based nanoparticles: an overview of biomedical applications.J Control Release. 2012 Jul 20;161(2):505-22. doi: 10.1016/j.jconrel.2012.01.043. Epub 2012 Feb 4. Review.PubMed [citation] PMID: 22353619

499. Han Z, Koirala A, Makkia R, Cooper MJ, Naash MI.Direct gene transfer with compacted DNA nanoparticles in retinal pigment epithelial cells: expression, repeat delivery and lack of toxicity.Nanomedicine (Lond). 2012 Apr;7(4):521-39. doi: 10.2217/nnm.11.158. Epub 2012 Feb 23.PubMed [citation] PMID: 22356602, PMCID: PMC3404893

500. Shironin AV, Ipatova OM, Medvedeva NV, Prozorovskiĭ VN, Tikhonova EG, Zakharova TS, Sanzhakov MA, Torkhovskaia TI.[The increase of bioavailability and anti-inflammatory effect of indomethacin loaded into phospholipid nanoparticles].Biomed Khim. 2011 Nov-Dec;57(6):671-6. Russian. PubMed [citation] PMID: 22359924

501. Fu W, Wojtkiewicz G, Weissleder R, Benoist C, Mathis D.Early window of diabetes determinism in NOD mice, dependent on the complement receptor CRIg, identified by noninvasive imaging.Nat Immunol. 2012 Feb 26;13(4):361-8. doi: 10.1038/ni.2233.PubMed [citation] PMID: 22366893, PMCID: PMC3309063

502. Strobel K, Hoerr V, Schmid F, Wachsmuth L, Löffler B, Faber C.Early detection of lung inflammation: exploiting T1-effects of iron oxide particles using UTE MRI.Magn Reson Med. 2012 Dec;68(6):1924-31. doi: 10.1002/mrm.24180. Epub 2012 Feb 24.PubMed [citation] PMID: 22368111

503. Shrestha R, Shen Y, Pollack KA, Taylor JS, Wooley KL.Dual peptide nucleic acid- and peptide-functionalized shell cross-linked nanoparticles designed to target mRNA toward the diagnosis and treatment of acute lung injury.Bioconjug Chem. 2012 Mar 21;23(3):574-85. doi: 10.1021/bc200629f. Epub 2012 Feb 28.PubMed [citation] PMID: 22372643, PMCID: PMC3321742

504. Plummer EM, Thomas D, Destito G, Shriver LP, Manchester M.Interaction of cowpea mosaic virus nanoparticles with surface vimentin and inflammatory cells in

atherosclerotic lesions.Nanomedicine (Lond). 2012 Jun;7(6):877-88. doi: 10.2217/nnm.11.185. Epub 2012 Mar 6.PubMed [citation] PMID: 22394183, PMCID: PMC3567616

505. Blecher K, Martinez LR, Tuckman-Vernon C, Nacharaju P, Schairer D, Chouake J, Friedman JM, Alfieri A, Guha C, Nosanchuk JD, Friedman AJ.Nitric oxide-releasing nanoparticles accelerate wound healing in NOD-SCID mice.Nanomedicine. 2012 Nov;8(8):1364-71. doi: 10.1016/j.nano.2012.02.014. Epub 2012 Mar 7.PubMed [citation] PMID: 22406184

506. Zhao X, Ng S, Heng BC, Guo J, Ma L, Tan TT, Ng KW, Loo SC.Cytotoxicity of hydroxyapatite nanoparticles is shape and cell dependent.Arch Toxicol. 2013 Jun;87(6):1037-52. doi: 10.1007/s00204-012-0827-1. Epub 2012 Mar 14.PubMed [citation] PMID: 22415765

507. Morishige T, Yoshioka Y, Inakura H, Tanabe A, Narimatsu S, Yao X, Monobe Y, Imazawa T, Tsunoda S, Tsutsumi Y, Mukai Y, Okada N, Nakagawa S.Suppression of nanosilica particle-induced inflammation by surface modification of the particles.Arch Toxicol. 2012 Aug;86(8):1297-307. doi: 10.1007/s00204-012-0823-5. Epub 2012 Mar 15.PubMed [citation] PMID: 22418595

508. Creutzenberg O.Biological interactions and toxicity of nanomaterials in the respiratory tract and various approaches of aerosol generation for toxicity testing.Arch Toxicol. 2012 Jul;86(7):1117-22. doi: 10.1007/s00204-012-0833-3. Epub 2012 Mar 15.PubMed [citation] PMID: 22418596

509. Li Z, Yao L, Li J, Zhang W, Wu X, Liu Y, Lin M, Su W, Li Y, Liang D.Celastrol nanoparticles inhibit corneal neovascularization induced by suturing in rats.Int J Nanomedicine. 2012;7:1163-73. doi: 10.2147/IJN.S27860. Epub 2012 Mar 1.PubMed [citation] PMID: 22419865, PMCID: PMC3298384

510. Stoll G, Basse-Lüsebrink T, Weise G, Jakob P.Visualization of inflammation using (19) F-magnetic resonance imaging and perfluorocarbons.Wiley Interdiscip Rev Nanomed Nanobiotechnol. 2012 Jul-Aug;4(4):438-47. doi: 10.1002/wnan.1168. Epub 2012 Mar 15. Review.PubMed [citation] PMID: 22422659

511. Rosenberg JT, Sachi-Kocher A, Davidson MW, Grant SC.Intracellular SPIO labeling of microglia: high field considerations and limitations for MR microscopy.Contrast Media Mol Imaging. 2012 Mar-Apr;7(2):121-9. doi: 10.1002/cmmi.470.PubMed [citation] PMID: 22434624

512. Yao Y, Wang Y, Zhang Y, Li Y, Sheng Z, Wen S, Ma G, Liu N, Fang F, Teng GJ.In vivo imaging of macrophages during the early-stages of abdominal aortic aneurysm using high resolution MRI in ApoE mice.PLoS One. 2012;7(3):e33523. doi: 10.1371/journal.pone.0033523. Epub 2012 Mar 20.PubMed [citation] PMID: 22448249, PMCID: PMC3308989

513. Wachsmann P, Lamprecht A.Polymeric nanoparticles for the selective therapy of inflammatory bowel disease.Methods Enzymol. 2012;508:377-97. doi: 10.1016/B978-0-12-391860-4.00019-7. Review.PubMed [citation] PMID: 22449936

514. Maeda H.Vascular permeability in cancer and infection as related to macromolecular drug delivery, with emphasis on the EPR effect for tumor-selective drug targeting.Proc Jpn Acad Ser B Phys Biol Sci. 2012;88(3):53-71. Review.PubMed [citation] PMID: 22450535, PMCID: PMC3365245

515. Deddens LH, Van Tilborg GA, Mulder WJ, De Vries HE, Dijkhuizen RM.Imaging neuroinflammation after stroke: current status of cellular and molecular MRI strategies.Cerebrovasc Dis. 2012;33(4):392-402. doi: 10.1159/000336116. Epub 2012 Mar 28. Review.PubMed [citation] PMID: 22456323

516. Jang S, Park JW, Cha HR, Jung SY, Lee JE, Jung SS, Kim JO, Kim SY, Lee CS, Park HS.Silver nanoparticles modify VEGF signaling pathway and mucus hypersecretion in allergic airway inflammation.Int J Nanomedicine. 2012;7:1329-43. doi: 10.2147/IJN.S27159. Epub 2012 Mar 14.PubMed [citation] PMID: 22457593, PMCID: PMC3310409

517. Hussain S, Al-Nsour F, Rice AB, Marshburn J, Ji Z, Zink JI, Yingling B, Walker NJ, Garantziotis S.Cerium dioxide nanoparticles do not modulate the lipopolysaccharide-induced inflammatory response in human monocytes.Int J Nanomedicine. 2012;7:1387-97. doi: 10.2147/IJN.S29429. Epub 2012 Mar 13.PubMed [citation] PMID: 22457596, PMCID: PMC3310407

518. Tang AC, Hwang GL, Tsai SJ, Chang MY, Tang ZC, Tsai MD, Luo CY, Hoffman AS, Hsieh PC.Biosafety of non-surface modified carbon nanocapsules as a potential alternative to carbon nanotubes for drug delivery purposes.PLoS One. 2012;7(3):e32893. doi: 10.1371/journal.pone.0032893. Epub 2012 Mar 22.PubMed [citation] PMID: 22457723, PMCID: PMC3310837

519. Zhang XD, Wu D, Shen X, Liu PX, Fan FY, Fan SJ.In vivo renal clearance, biodistribution, toxicity of gold nanoclusters.Biomaterials. 2012 Jun;33(18):4628-38. doi: 10.1016/j.biomaterials.2012.03.020. Epub 2012 Mar 27.PubMed [citation] PMID: 22459191

520. Bourdon JA, Halappanavar S, Saber AT, Jacobsen NR, Williams A, Wallin H, Vogel U, Yauk CL.Hepatic and pulmonary toxicogenomic profiles in mice intratracheally instilled with carbon black nanoparticles reveal pulmonary inflammation, acute phase response, and alterations in lipid homeostasis.Toxicol Sci. 2012 Jun;127(2):474-84. doi: 10.1093/toxsci/kfs119. Epub 2012 Mar 29.PubMed [citation] PMID: 22461453, PMCID: PMC3355316

521. Wenisch S, Cavalcanti-Adam EA, Tryankowski E, Raabe O, Kilian O, Heiss C, Alt V, Arnhold S, Schnettler R.Light- and transmission-electron-microscopic investigations on distribution of CD44, connexin 43 and actin cytoskeleton during the foreign body reaction to a nanoparticular hydroxyapatite in mini-pigs.Acta Biomater. 2012 Jul;8(7):2807-14. doi: 10.1016/j.actbio.2012.03.039. Epub 2012 Mar 30.PubMed [citation] PMID: 22470101

522. Murphy FA, Schinwald A, Poland CA, Donaldson K.The mechanism of pleural inflammation by long carbon nanotubes: interaction of long fibres with

macrophages stimulates them to amplify pro-inflammatory responses in mesothelial cells.Part Fibre Toxicol. 2012 Apr 3;9:8. doi: 10.1186/1743-8977-9-8.PubMed [citation] PMID: 22472194, PMCID: PMC3352110

523. Gonçalves NP, Oliveira H, Pêgo AP, Saraiva MJ.A novel nanoparticle delivery system for in vivo targeting of the sciatic nerve: impact on regeneration.Nanomedicine (Lond). 2012 Aug;7(8):1167-80. doi: 10.2217/nnm.11.188. Epub 2012 Apr 4.PubMed [citation] PMID: 22475646

524. Boridy S, Soliman GM, Maysinger D.Modulation of inflammatory signaling and cytokine release from microglia by celastrol incorporated into dendrimer nanocarriers.Nanomedicine (Lond). 2012 Aug;7(8):1149-65. doi: 10.2217/nnm.12.16. Epub 2012 Apr 4.PubMed [citation] PMID: 22475649

525. Onoue S, Matsui T, Kuriyama K, Ogawa K, Kojo Y, Mizumoto T, Karaki S, Kuwahara A, Yamada S.Inhalable sustained-release formulation of long-acting vasoactive intestinal peptide derivative alleviates acute airway inflammation.Peptides. 2012 Jun;35(2):182-9. doi: 10.1016/j.peptides.2012.03.021. Epub 2012 Mar 30.PubMed [citation] PMID: 22484228

526. Chen-yu G, Chun-fen Y, Qi-lu L, Qi T, Yan-wei X, Wei-na L, Guang-xi Z.Development of a quercetin-loaded nanostructured lipid carrier formulation for topical delivery.Int J Pharm. 2012 Jul 1;430(1-2):292-8. doi: 10.1016/j.ijpharm.2012.03.042. Epub 2012 Apr 1.PubMed [citation] PMID: 22486962

527. Murray AR, Kisin ER, Tkach AV, Yanamala N, Mercer R, Young SH, Fadeel B, Kagan VE, Shvedova AA.Factoring-in agglomeration of carbon nanotubes and nanofibers for better prediction of their toxicity versus asbestos.Part Fibre Toxicol. 2012 Apr 10;9:10. doi: 10.1186/1743-8977-9-10.PubMed [citation] PMID: 22490147, PMCID: PMC3379937

528. Leonavičienė L, Kirdaitė G, Bradūnaitė R, Vaitkienė D, Vasiliauskas A, Zabulytė D, Ramanavičienė A, Ramanavičius A, Ašmenavičius T, Mackiewicz Z.Effect of gold nanoparticles in the treatment of established collagen arthritis in rats.Medicina (Kaunas). 2012;48(2):91-101. Epub 2012 Apr 5.PubMed [citation] PMID: 22491387

529. Zhang H, Ji Z, Xia T, Meng H, Low-Kam C, Liu R, Pokhrel S, Lin S, Wang X, Liao YP, Wang M, Li L, Rallo R, Damoiseaux R, Telesca D, Mädler L, Cohen Y, Zink JI, Nel AE.Use of metal oxide nanoparticle band gap to develop a predictive paradigm for oxidative stress and acute pulmonary inflammation.ACS Nano. 2012 May 22;6(5):4349-68. doi: 10.1021/nn3010087. Epub 2012 Apr 24.PubMed [citation] PMID: 22502734, PMCID: PMC4139054

530. Downs TR, Crosby ME, Hu T, Kumar S, Sullivan A, Sarlo K, Reeder B, Lynch M, Wagner M, Mills T, Pfuhler S.Silica nanoparticles administered at the maximum tolerated dose induce genotoxic effects through an inflammatory reaction while gold nanoparticles do not.Mutat Res. 2012 Jun 14;745(1-2):38-50. doi: 10.1016/j.mrgentox.2012.03.012. Epub 2012 Apr 6.PubMed [citation] PMID: 22504169

531. Luciani A, Dechoux S, Deveaux V, Poirier-Quinot M, Luciani N, Levy M, Ballet S,

Manin S, Péchoux C, Autret G, Clément O, Rahmouni A, Mallat A, Wilhelm C, Lotersztajn S, Gazeau F.Adipose tissue macrophages: MR tracking to monitor obesity-associated inflammation.Radiology. 2012 Jun;263(3):786-93. doi: 10.1148/radiol.12111957. Epub 2012 Apr 20.PubMed [citation] PMID: 22523321

532. Saito A, Miyazaki H, Fujie T, Ohtsubo S, Kinoshita M, Saitoh D, Takeoka S.Therapeutic efficacy of an antibiotic-loaded nanosheet in a murine burn-wound infection model.Acta Biomater. 2012 Aug;8(8):2932-40. doi: 10.1016/j.actbio.2012.04.019. Epub 2012 Apr 21.PubMed [citation] PMID: 22525350

533. Balmert SC, Little SR.Biomimetic delivery with micro- and nanoparticles.Adv Mater. 2012 Jul 24;24(28):3757-78. doi: 10.1002/adma.201200224. Epub 2012 Apr 23. Review.PubMed [citation] PMID: 22528985, PMCID: PMC3627374

534. Prieto E, Puente B, Uixera A, Garcia de Jalon JA, Perez S, Pablo L, Irache JM, Garcia MA, Bregante MA.Gantrez AN nanoparticles for ocular delivery of memantine: in vitro release evaluation in albino rabbits.Ophthalmic Res. 2012;48(3):109-17. doi: 10.1159/000337136. Epub 2012 Apr 21.PubMed [citation] PMID: 22538548

535. Genter MB, Newman NC, Shertzer HG, Ali SF, Bolon B.Distribution and systemic effects of intranasally administered 25 nm silver nanoparticles in adult mice.Toxicol Pathol. 2012 Oct;40(7):1004-13. Epub 2012 May 1.PubMed [citation] PMID: 22549977

536. Moon H, Park HE, Kang J, Lee H, Cheong C, Lim YT, Ihm SH, Seung KB, Jaffer FA, Narula J, Chang K, Hong KS.Noninvasive assessment of myocardial inflammation by cardiovascular magnetic resonance in a rat model of experimental autoimmune myocarditis.Circulation. 2012 May 29;125(21):2603-12. doi: 10.1161/CIRCULATIONAHA.111.075283. Epub 2012 May 1.PubMed [citation] PMID: 22550157

537. Faddah LM, Abdel Baky NA, Al-Rasheed NM, Al-Rasheed NM, Fatani AJ, Atteya M.Role of quercetin and arginine in ameliorating nano zinc oxide-induced nephrotoxicity in rats.BMC Complement Altern Med. 2012 May 2;12:60. doi: 10.1186/1472-6882-12-60.PubMed [citation] PMID: 22551254, PMCID: PMC3437213

538. Donaldson K, Seaton A.A short history of the toxicology of inhaled particles.Part Fibre Toxicol. 2012 May 6;9:13. doi: 10.1186/1743-8977-9-13.PubMed [citation] PMID: 22559156, PMCID: PMC3436721

539. Clemente-Napimoga JT, Moreira JA, Grillo R, de Melo NF, Fraceto LF, Napimoga MH.15d-PGJ2-loaded in nanocapsules enhance the antinociceptive properties into rat temporomandibular hypernociception.Life Sci. 2012 Jun 14;90(23-24):944-9. doi: 10.1016/j.lfs.2012.04.035. Epub 2012 Apr 27.PubMed [citation] PMID: 22564409

540. Laroui H, Sitaraman SV, Merlin D.Gastrointestinal delivery of anti-inflammatory nanoparticles.Methods Enzymol. 2012;509:101-25. doi: 10.1016/B978-0-12-391858-1.00006-X.PubMed [citation] PMID: 22568903

541. Lee JK, Sayers BC, Chun KS, Lao HC, Shipley-Phillips JK, Bonner JC, Langenbach

R.Multi-walled carbon nanotubes induce COX-2 and iNOS expression via MAP kinase-dependent and -independent mechanisms in mouse RAW264.7 macrophages.Part Fibre Toxicol. 2012 May 9;9:14. doi: 10.1186/1743-8977-9-14.PubMed [citation] PMID: 22571318, PMCID: PMC3485091

542. Morimoto Y, Horie M, Kobayashi N, Shinohara N, Shimada M.Inhalation toxicity assessment of carbon-based nanoparticles.Acc Chem Res. 2013 Mar 19;46(3):770-81. doi: 10.1021/ar200311b. Epub 2012 May 11. Review.PubMed [citation] PMID: 22574947

543. te Boekhorst BC, Jensen LB, Colombo S, Varkouhi AK, Schiffelers RM, Lammers T, Storm G, Nielsen HM, Strijkers GJ, Foged C, Nicolay K.MRI-assessed therapeutic effects of locally administered PLGA nanoparticles loaded with anti-inflammatory siRNA in a murine arthritis model.J Control Release. 2012 Aug 10;161(3):772-80. doi: 10.1016/j.jconrel.2012.05.004. Epub 2012 May 11.PubMed [citation] PMID: 22580113

544. Schinwald A, Murphy FA, Prina-Mello A, Poland CA, Byrne F, Movia D, Glass JR, Dickerson JC, Schultz DA, Jeffree CE, Macnee W, Donaldson K.The threshold length for fiber-induced acute pleural inflammation: shedding light on the early events in asbestos-induced mesothelioma.Toxicol Sci. 2012 Aug;128(2):461-70. doi: 10.1093/toxsci/kfs171. Epub 2012 May 12.PubMed [citation] PMID: 22584686

545. Taylor CA, Liu Z, Tang TC, Zheng Q, Francis S, Wang TW, Ye B, Lust JA, Dondero R, Thompson JE.Modulation of eIF5A expression using SNS01 nanoparticles inhibits NF-κB activity and tumor growth in murine models of multiple myeloma.Mol Ther. 2012 Jul;20(7):1305-14. doi: 10.1038/mt.2012.94. Epub 2012 May 15.PubMed [citation] PMID: 22588272, PMCID: PMC3392975

546. Ekkapongpisit M, Giovia A, Nicotra G, Ozzano M, Caputo G, Isidoro C.Labeling and exocytosis of secretory compartments in RBL mastocytes by polystyrene and mesoporous silica nanoparticles.Int J Nanomedicine. 2012;7:1829-40. doi: 10.2147/IJN.S29034. Epub 2012 Apr 4.PubMed [citation] PMID: 22605932, PMCID: PMC3352688

547. Clares B, Ruiz MA, Gallardo V, Arias JL.Drug delivery to inflammation based on nanoparticles surface decorated with biomolecules.Curr Med Chem. 2012;19(19):3203-11. Review.PubMed [citation] PMID: 22612704

548. Ma JY, Mercer RR, Barger M, Schwegler-Berry D, Scabilloni J, Ma JK, Castranova V.Induction of pulmonary fibrosis by cerium oxide nanoparticles.Toxicol Appl Pharmacol. 2012 Aug 1;262(3):255-64. doi: 10.1016/j.taap.2012.05.005. Epub 2012 May 18.PubMed [citation] PMID: 22613087

549. Shah PP, Desai PR, Channer D, Singh M.Enhanced skin permeation using polyarginine modified nanostructured lipid carriers.J Control Release. 2012 Aug 10;161(3):735-45. doi: 10.1016/j.jconrel.2012.05.011. Epub 2012 May 14.PubMed [citation] PMID: 22617521, PMCID: PMC3412947

550. de Roos A.Science to practice: why follow the track of macrophages in obesity?Radiology. 2012 Jun;263(3):623-5. doi: 10.1148/radiol.12120418. No

abstract available. PubMed [citation] PMID: 22623687

551. Kanwar RK, Chaudhary R, Tsuzuki T, Kanwar JR.Emerging engineered magnetic nanoparticulate probes for targeted MRI of atherosclerotic plaque macrophages.Nanomedicine (Lond). 2012 May;7(5):735-49. doi: 10.2217/nnm.12.46. Review.PubMed [citation] PMID: 22630154

552. Shirai T, Kohara H, Tabata Y.Inflammation imaging by silica nanoparticles with antibodies orientedly immobilized.J Drug Target. 2012 Jul;20(6):535-43. doi: 10.3109/1061186X.2012.693500. Epub 2012 May 27.PubMed [citation] PMID: 22632131

553. Khatri M, Bello D, Gaines P, Martin J, Pal AK, Gore R, Woskie S.Nanoparticles from photocopiers induce oxidative stress and upper respiratory tract inflammation in healthy volunteers.Nanotoxicology. 2013 Aug;7(5):1014-27. doi: 10.3109/17435390.2012.691998. Epub 2012 Jun 14.PubMed [citation] PMID: 22632457

554. McKinney W, Jackson M, Sager TM, Reynolds JS, Chen BT, Afshari A, Krajnak K, Waugh S, Johnson C, Mercer RR, Frazer DG, Thomas TA, Castranova V.Pulmonary and cardiovascular responses of rats to inhalation of a commercial antimicrobial spray containing titanium dioxide nanoparticles.Inhal Toxicol. 2012 Jun;24(7):447-57. doi: 10.3109/08958378.2012.685111.PubMed [citation] PMID: 22642294

555. Chiao SH, Lin SH, Shen CI, Liao JW, Bau IJ, Wei JC, Tseng LP, Hsu SH, Lai PS, Lin SZ, Lin JJ, Su HL.Efficacy and safety of nanohybrids comprising silver nanoparticles and silicate clay for controlling Salmonella infection.Int J Nanomedicine. 2012;7:2421-32. doi: 10.2147/IJN.S31594. Epub 2012 May 14.PubMed [citation] PMID: 22654516, PMCID: PMC3363949

556. Norton SK, Wijesinghe DS, Dellinger A, Sturgill J, Zhou Z, Barbour S, Chalfant C, Conrad DH, Kepley CL.Epoxyeicosatrienoic acids are involved in the C(70) fullerene derivative-induced control of allergic asthma.J Allergy Clin Immunol. 2012 Sep;130(3):761-769.e2. doi: 10.1016/j.jaci.2012.04.023. Epub 2012 Jun 2.PubMed [citation] PMID: 22664166, PMCID: PMC3955256

557. Kasper J, Hermanns MI, Bantz C, Koshkina O, Lang T, Maskos M, Pohl C, Unger RE, Kirkpatrick CJ.Interactions of silica nanoparticles with lung epithelial cells and the association to flotillins.Arch Toxicol. 2013 Jun;87(6):1053-65. doi: 10.1007/s00204-012-0876-5. Epub 2012 Jun 6.PubMed [citation] PMID: 22669515, PMCID: PMC3663199

558. Murray AR, Kisin E, Inman A, Young SH, Muhammed M, Burks T, Uheida A, Tkach A, Waltz M, Castranova V, Fadeel B, Kagan VE, Riviere JE, Monteiro-Riviere N, Shvedova AA.Oxidative stress and dermal toxicity of iron oxide nanoparticles in vitro.Cell Biochem Biophys. 2013 Nov;67(2):461-76. doi: 10.1007/s12013-012-9367-9.PubMed [citation] PMID: 22669739

559. Gordon S.Targeting a monocyte subset to reduce inflammation.Circ Res. 2012 Jun 8;110(12):1546-8. doi: 10.1161/RES.0b013e31825ec26d. Review. No abstract available. PubMed [citation] PMID: 22679136

560. Baturin P, Alivov Y, Molloi S.Spectral CT imaging of vulnerable plaque with two independent biomarkers.Phys Med Biol. 2012 Jul 7;57(13):4117-38. doi: 10.1088/0031-9155/57/13/4117. Epub 2012 Jun 8.PubMed [citation] PMID: 22683885

561. Siddiqi NJ, Abdelhalim MA, El-Ansary AK, Alhomida AS, Ong WY.Identification of potential biomarkers of gold nanoparticle toxicity in rat brains.J Neuroinflammation. 2012 Jun 12;9:123. doi: 10.1186/1742-2094-9-123.PubMed [citation] PMID: 22691312, PMCID: PMC3423006

562. Stern ST, Adiseshaiah PP, Crist RM.Autophagy and lysosomal dysfunction as emerging mechanisms of nanomaterial toxicity.Part Fibre Toxicol. 2012 Jun 14;9:20. doi: 10.1186/1743-8977-9-20. Review.PubMed [citation] PMID: 22697169, PMCID: PMC3441384

563. Srinivas A, Rao PJ, Selvam G, Goparaju A, Murthy PB, Reddy PN.Oxidative stress and inflammatory responses of rat following acute inhalation exposure to iron oxide nanoparticles.Hum Exp Toxicol. 2012 Nov;31(11):1113-31. doi: 10.1177/0960327112446515. Epub 2012 Jun 14.PubMed [citation] PMID: 22699116

564. Li W, Nava RG, Bribriesco AC, Zinselmeyer BH, Spahn JH, Gelman AE, Krupnick AS, Miller MJ, Kreisel D.Intravital 2-photon imaging of leukocyte trafficking in beating heart.J Clin Invest. 2012 Jul;122(7):2499-508. doi: 10.1172/JCI62970. Epub 2012 Jun 18.PubMed [citation] PMID: 22706307, PMCID: PMC3386827

565. Bhattarai G, Lee YH, Lee NH, Park IS, Lee MH, Yi HK.PPARγ delivered by Ch-GNPs onto titanium surfaces inhibits implant-induced inflammation and induces bone mineralization of MC-3T3E1 osteoblast-like cells.Clin Oral Implants Res. 2013 Oct;24(10):1101-9. doi: 10.1111/j.1600-0501.2012.02517.x. Epub 2012 Jun 19.PubMed [citation] PMID: 22713176

566. Adamcakova-Dodd A, Stebounova LV, O'Shaughnessy PT, Kim JS, Grassian VH, Thorne PS.Murine pulmonary responses after sub-chronic exposure to aluminum oxide-based nanowhiskers.Part Fibre Toxicol. 2012 Jun 19;9:22. doi: 10.1186/1743-8977-9-22.PubMed [citation] PMID: 22713230, PMCID: PMC3478979

567. Tang AC, Chang MY, Tang ZC, Li HJ, Hwang GL, Hsieh PC.Treatment of acute thromboembolism in mice using heparin-conjugated carbon nanocapsules.ACS Nano. 2012 Jul 24;6(7):6099-107. doi: 10.1021/nn301198r. Epub 2012 Jun 25.PubMed [citation] PMID: 22713482

568. Donaldson K, Poland CA.Inhaled nanoparticles and lung cancer - what we can learn from conventional particle toxicology.Swiss Med Wkly. 2012 Jun 19;142:w13547. doi: 10.4414/smw.2012.13547. Review.PubMed [citation] PMID: 22714122

569. Kanwar RK, Chaudhary R, Tsuzuki T, Kanwar JR.Emerging engineered magnetic nanoparticulate probes for molecular MRI of atherosclerosis: how far have we come?Nanomedicine (Lond). 2012 Jun;7(6):899-916. doi: 10.2217/nnm.12.57. Epub 2012 Jun 20. Review.PubMed [citation] PMID: 22715913

570. Chamcheu JC, Wood GS, Siddiqui IA, Syed DN, Adhami VM, Teng JM, Mukhtar H.Progress towards genetic and pharmacological therapies for keratin genodermatoses: current perspective and future promise.Exp Dermatol. 2012 Jul;21(7):481-9. doi: 10.1111/j.1600-0625.2012.01534.x. Review.PubMed [citation] PMID: 22716242, PMCID: PMC3556927

571. Ingersoll SA, Laroui H, Kolachala VL, Wang L, Garg P, Denning TL, Gewirtz AT, Merlin D, Sitaraman SV.A($_2$B)AR expression in non-immune cells plays an important role in the development of murine colitis.Dig Liver Dis. 2012 Oct;44(10):819-26. doi: 10.1016/j.dld.2012.05.013. Epub 2012 Jun 19.PubMed [citation] PMID: 22721840, PMCID: PMC3436952

572. Gagné F, André C, Skirrow R, Gélinas M, Auclair J, van Aggelen G, Turcotte P, Gagnon C.Toxicity of silver nanoparticles to rainbow trout: a toxicogenomic approach.Chemosphere. 2012 Oct;89(5):615-22. doi: 10.1016/j.chemosphere.2012.05.063. Epub 2012 Jun 23.PubMed [citation] PMID: 22727896

573. Abdel-Mottaleb MM, Moulari B, Beduneau A, Pellequer Y, Lamprecht A.Nanoparticles enhance therapeutic outcome in inflamed skin therapy.Eur J Pharm Biopharm. 2012 Sep;82(1):151-7. doi: 10.1016/j.ejpb.2012.06.006. Epub 2012 Jun 19.PubMed [citation] PMID: 22728016

574. Li Volti G, Musumeci T, Pignatello R, Murabito P, Barbagallo I, Carbone C, Gullo A, Puglisi G.Antioxidant potential of different melatonin-loaded nanomedicines in an experimental model of sepsis.Exp Biol Med (Maywood). 2012 Jun;237(6):670-7. doi: 10.1258/ebm.2012.011425. Epub 2012 Jun 22.PubMed [citation] PMID: 22728708

575. Haque MM, Im HY, Seo JE, Hasan M, Woo K, Kwon OS.Acute toxicity and tissue distribution of CdSe/CdS-MPA quantum dots after repeated intraperitoneal injection to mice.J Appl Toxicol. 2013 Sep;33(9):940-50. doi: 10.1002/jat.2775. Epub 2012 Jun 25.PubMed [citation] PMID: 22733552

576. Samuel SP, Jain N, O'Dowd F, Paul T, Kashanin D, Gerard VA, Gun'ko YK, Prina-Mello A, Volkov Y.Multifactorial determinants that govern nanoparticle uptake by human endothelial cells under flow.Int J Nanomedicine. 2012;7:2943-56. doi: 10.2147/IJN.S30624. Epub 2012 Jun 14.PubMed [citation] PMID: 22745555, PMCID: PMC3384367

577. Scarino A, Noël A, Renzi PM, Cloutier Y, Vincent R, Truchon G, Tardif R, Charbonneau M.Impact of emerging pollutants on pulmonary inflammation in asthmatic rats: ethanol vapors and agglomerated TiO2 nanoparticles.Inhal Toxicol. 2012 Jul;24(8):528-38. doi: 10.3109/08958378.2012.696741.PubMed [citation] PMID: 22746402

578. Lee YD, Lim CK, Singh A, Koh J, Kim J, Kwon IC, Kim S.Dye/peroxalate aggregated nanoparticles with enhanced and tunable chemiluminescence for biomedical imaging of hydrogen peroxide.ACS Nano. 2012 Aug 28;6(8):6759-66. doi: 10.1021/nn3014905. Epub 2012 Jul 5.PubMed [citation] PMID: 22747065

579. Nichols SP, Koh A, Brown NL, Rose MB, Sun B, Slomberg DL, Riccio DA, Klitzman B, Schoenfisch MH.The effect of nitric oxide surface flux on the foreign body response to subcutaneous implants.Biomaterials. 2012 Sep;33(27):6305-12. doi: 10.1016/j.biomaterials.2012.05.053. Epub 2012 Jun 27.PubMed [citation] PMID: 22748919, PMCID: PMC3667553

580. Kiwamoto T, Kawasaki N, Paulson JC, Bochner BS.Siglec-8 as a drugable target to treat eosinophil and mast cell-associated conditions.Pharmacol Ther. 2012 Sep;135(3):327-36. doi: 10.1016/j.pharmthera.2012.06.005. Epub 2012 Jun 27. Review.PubMed [citation] PMID: 22749793, PMCID: PMC3587973

581. Rehman MU, Yoshihisa Y, Miyamoto Y, Shimizu T.The anti-inflammatory effects of platinum nanoparticles on the lipopolysaccharide-induced inflammatory response in RAW 264.7 macrophages.Inflamm Res. 2012 Nov;61(11):1177-85. doi: 10.1007/s00011-012-0512-0. Epub 2012 Jul 1.PubMed [citation] PMID: 22752115

582. Bourdon JA, Saber AT, Halappanavar S, Jackson PA, Wu D, Hougaard KS, Jacobsen NR, Williams A, Vogel U, Wallin H, Yauk CL.Carbon black nanoparticle intratracheal installation results in large and sustained changes in the expression of miR-135b in mouse lung.Environ Mol Mutagen. 2012 Jul;53(6):462-8. doi: 10.1002/em.21706. Epub 2012 Jun 29.PubMed [citation] PMID: 22753103

583. Bonor JC, Schaefer RJ, Menegazzo N, Booksh K, Nohe AG.Design of 1,25 dihydroxyvitamin D3 coupled quantum dots, a novel imaging tool.J Nanosci Nanotechnol. 2012 Mar;12(3):2185-91.PubMed [citation] PMID: 22755036

584. Negi LM, Talegaonkar S, Jaggi M, Ahmad FJ, Iqbal Z, Khar RK.Role of CD44 in tumour progression and strategies for targeting.J Drug Target. 2012 Aug;20(7):561-73. doi: 10.3109/1061186X.2012.702767. Review.PubMed [citation] PMID: 22758394

585. Chang W, Chen J, Schlueter CF, Rando RJ, Pathak YV, Hoyle GW.Inhibition of chlorine-induced lung injury by the type 4 phosphodiesterase inhibitor rolipram.Toxicol Appl Pharmacol. 2012 Sep 1;263(2):251-8. doi: 10.1016/j.taap.2012.06.017. Epub 2012 Jul 2.PubMed [citation] PMID: 22763362, PMCID: PMC3422440

586. Wilson D, Zaqout M, Heo JH, Park EK, Oak CH, Ueno S.Nuclear factor-kappa B is not involved in titanium dioxide-induced inflammation.J UOEH. 2012 Jun 1;34(2):183-91.PubMed [citation] PMID: 22768425

587. Xu C, Miranda-Nieves D, Ankrum JA, Matthiesen ME, Phillips JA, Roes I, Wojtkiewicz GR, Juneja V, Kultima JR, Zhao W, Vemula PK, Lin CP, Nahrendorf M, Karp JM.Tracking mesenchymal stem cells with iron oxide nanoparticle loaded poly(lactide-co-glycolide) microparticles.Nano Lett. 2012 Aug 8;12(8):4131-9. doi: 10.1021/nl301658q. Epub 2012 Jul 12.PubMed [citation] PMID: 22769232, PMCID: PMC3552518

588. Vong LB, Tomita T, Yoshitomi T, Matsui H, Nagasaki Y.An orally administered redox nanoparticle that accumulates in the colonic mucosa and reduces colitis in

mice.Gastroenterology. 2012 Oct;143(4):1027-36.e3. doi: 10.1053/j.gastro.2012.06.043. Epub 2012 Jul 3.PubMed [citation] PMID: 22771506

589. Zheng D, Giljohann DA, Chen DL, Massich MD, Wang XQ, Iordanov H, Mirkin CA, Paller AS.Topical delivery of siRNA-based spherical nucleic acid nanoparticle conjugates for gene regulation.Proc Natl Acad Sci U S A. 2012 Jul 24;109(30):11975-80. doi: 10.1073/pnas.1118425109. Epub 2012 Jul 6.PubMed [citation] PMID: 22773805, PMCID: PMC3409786

590. Patil G, Khan MI, Patel DK, Sultana S, Prasad R, Ahmad I.Evaluation of cytotoxic, oxidative stress, proinflammatory and genotoxic responses of micro- and nano-particles of dolomite on human lung epithelial cells A(549).Environ Toxicol Pharmacol. 2012 Sep;34(2):436-45. doi: 10.1016/j.etap.2012.05.014. Epub 2012 Jun 8.PubMed [citation] PMID: 22785077

591. Richards JM, Shaw CA, Lang NN, Williams MC, Semple SI, MacGillivray TJ, Gray C, Crawford JH, Alam SR, Atkinson AP, Forrest EK, Bienek C, Mills NL, Burdess A, Dhaliwal K, Simpson AJ, Wallace WA, Hill AT, Roddie PH, McKillop G, Connolly TA, Feuerstein GZ, et al.In vivo mononuclear cell tracking using superparamagnetic particles of iron oxide: feasibility and safety in humans.Circ Cardiovasc Imaging. 2012 Jul;5(4):509-17. doi: 10.1161/CIRCIMAGING.112.972596. Epub 2012 Jul 10.PubMed [citation] PMID: 22787016

592. Vij N.Synthesis and evaluation of airway targeted PLGA nanoparticles for drug delivery in obstructive lung diseases.Methods Mol Biol. 2012;906:303-10. doi: 10.1007/978-1-61779-953-2_24.PubMed [citation] PMID: 22791443

593. Ansari MA, Khan HM, Khan AA, Sultan A, Azam A.Characterization of clinical strains of MSSA, MRSA and MRSE isolated from skin and soft tissue infections and the antibacterial activity of ZnO nanoparticles.World J Microbiol Biotechnol. 2012 Apr;28(4):1605-13. doi: 10.1007/s11274-011-0966-1. Epub 2011 Dec 3.PubMed [citation] PMID: 22805942

594. Pan TL, Wang PW, Al-Suwayeh SA, Huang YJ, Fang JY.Toxicological effects of cationic nanobubbles on the liver and kidneys: biomarkers for predicting the risk.Food Chem Toxicol. 2012 Nov;50(11):3892-901. doi: 10.1016/j.fct.2012.07.005. Epub 2012 Jul 15.PubMed [citation] PMID: 22809472

595. Contreras-Ruiz L, Zorzi GK, Hileeto D, López-García A, Calonge M, Seijo B, Sánchez A, Diebold Y.A nanomedicine to treat ocular surface inflammation: performance on an experimental dry eye murine model.Gene Ther. 2013 May;20(5):467-77. doi: 10.1038/gt.2012.56. Epub 2012 Jul 19.PubMed [citation] PMID: 22809996

596. Cover NF, Lai-Yuen S, Parsons AK, Kumar A.Synergetic effects of doxycycline-loaded chitosan nanoparticles for improving drug delivery and efficacy.Int J Nanomedicine. 2012;7:2411-9. doi: 10.2147/IJN.S27328. Epub 2012 Jun 25.PubMed [citation] PMID: 22811601, PMCID: PMC3394463

597. Cho WS, Dart K, Nowakowska DJ, Zheng X, Donaldson K, Howie SE.Adjuvanticity and

toxicity of cobalt oxide nanoparticles as an alternative vaccine adjuvant.Nanomedicine (Lond). 2012 Oct;7(10):1495-505. doi: 10.2217/nnm.12.35. Epub 2012 Jul 20.PubMed [citation] PMID: 22812709

598. Montagne A, Gauberti M, Macrez R, Jullienne A, Briens A, Raynaud JS, Louin G, Buisson A, Haelewyn B, Docagne F, Defer G, Vivien D, Maubert E.Ultra-sensitive molecular MRI of cerebrovascular cell activation enables early detection of chronic central nervous system disorders.Neuroimage. 2012 Nov 1;63(2):760-70. doi: 10.1016/j.neuroimage.2012.07.018. Epub 2012 Jul 17.PubMed [citation] PMID: 22813950

599. McQueenie R, Stevenson R, Benson R, MacRitchie N, McInnes I, Maffia P, Faulds K, Graham D, Brewer J, Garside P.Detection of inflammation in vivo by surface-enhanced Raman scattering provides higher sensitivity than conventional fluorescence imaging.Anal Chem. 2012 Jul 17;84(14):5968-75. doi: 10.1021/ac3006445. Epub 2012 Jul 3.PubMed [citation] PMID: 22816780

600. Whitmire RE, Wilson DS, Singh A, Levenston ME, Murthy N, García AJ.Self-assembling nanoparticles for intra-articular delivery of anti-inflammatory proteins.Biomaterials. 2012 Oct;33(30):7665-75. doi: 10.1016/j.biomaterials.2012.06.101. Epub 2012 Jul 17.PubMed [citation] PMID: 22818981, PMCID: PMC3418443

601. Coco R, Plapied L, Pourcelle V, Jérôme C, Brayden DJ, Schneider YJ, Préat V.Drug delivery to inflamed colon by nanoparticles: comparison of different strategies.Int J Pharm. 2013 Jan 2;440(1):3-12. doi: 10.1016/j.ijpharm.2012.07.017. Epub 2012 Jul 20.PubMed [citation] PMID: 22820482

602. Roy A, Kolattukudy PE.Monocyte chemotactic protein-induced protein (MCPIP) promotes inflammatory angiogenesis via sequential induction of oxidative stress, endoplasmic reticulum stress and autophagy.Cell Signal. 2012 Nov;24(11):2123-31. doi: 10.1016/j.cellsig.2012.07.014. Epub 2012 Jul 20.PubMed [citation] PMID: 22820500

603. Sosnovik DE, Nahrendorf M, Caravan P.Science to practice: how will myocardial inflammation be imaged with MR imaging?Radiology. 2012 Aug;264(2):309-11. doi: 10.1148/radiol.12121094.PubMed [citation] PMID: 22821689

604. Hong D, Song B, Kim H, Kwon J, Khang G, Lee D.Biodegradable polyoxalate and copolyoxalate particles for drug-delivery applications.Ther Deliv. 2011 Nov;2(11):1407-17.PubMed [citation] PMID: 22826873

605. Sadat U, Howarth SP, Usman A, Tang TY, Graves MJ, Gillard JH.Sequential imaging of asymptomatic carotid atheroma using ultrasmall superparamagnetic iron oxide-enhanced magnetic resonance imaging: a feasibility study.J Stroke Cerebrovasc Dis. 2013 Nov;22(8):e271-6. doi: 10.1016/j.jstrokecerebrovasdis.2012.06.015. Epub 2012 Jul 28.PubMed [citation] PMID: 22841932

606. Leonard F, Ali H, Collnot EM, Crielaard BJ, Lammers T, Storm G, Lehr CM.Screening

of budesonide nanoformulations for treatment of inflammatory bowel disease in an inflamed 3D cell-culture model.ALTEX. 2012;29(3):275-85.PubMed [citation] PMID: 22847255

607. Roulet A, Armand L, Dagouassat M, Rogerieux F, Simon-Deckers A, Belade E, Van Nhieu JT, Lanone S, Pairon JC, Lacroix G, Boczkowski J.Intratracheally administered titanium dioxide or carbon black nanoparticles do not aggravate elastase-induced pulmonary emphysema in rats.BMC Pulm Med. 2012 Jul 31;12:38. doi: 10.1186/1471-2466-12-38.PubMed [citation] PMID: 22849372, PMCID: PMC3499434

608. Bartlett RL 2nd, Panitch A.Thermosensitive nanoparticles with pH-triggered degradation and release of anti-inflammatory cell-penetrating peptides.Biomacromolecules. 2012 Aug 13;13(8):2578-84. doi: 10.1021/bm300826v. Epub 2012 Aug 1.PubMed [citation] PMID: 22852804

609. Abdel-Mottaleb MM, Moulari B, Beduneau A, Pellequer Y, Lamprecht A.Surface-charge-dependent nanoparticles accumulation in inflamed skin.J Pharm Sci. 2012 Nov;101(11):4231-9. doi: 10.1002/jps.23282. Epub 2012 Aug 1.PubMed [citation] PMID: 22855370

610. Leclerc L, Rima W, Boudard D, Pourchez J, Forest V, Bin V, Mowat P, Perriat P, Tillement O, Grosseau P, Bernache-Assollant D, Cottier M.Size of submicrometric and nanometric particles affect cellular uptake and biological activity of macrophages in vitro.Inhal Toxicol. 2012 Aug;24(9):580-8. doi: 10.3109/08958378.2012.699984.PubMed [citation] PMID: 22861001

611. Arima H, Yoshimatsu A, Ikeda H, Ohyama A, Motoyama K, Higashi T, Tsuchiya A, Niidome T, Katayama Y, Hattori K, Takeuchi T.Folate-PEG-appended dendrimer conjugate with α-cyclodextrin as a novel cancer cell-selective siRNA delivery carrier.Mol Pharm. 2012 Sep 4;9(9):2591-604. doi: 10.1021/mp300188f. Epub 2012 Aug 9.PubMed [citation] PMID: 22873579

612. Stemmer N, Mehnert J, Steinbrink J, Wunder A.Noninvasive fluorescence imaging in animal models of stroke.Curr Med Chem. 2012;19(28):4786-93. Review.PubMed [citation] PMID: 22873664

613. Alam SR, Shah AS, Richards J, Lang NN, Barnes G, Joshi N, MacGillivray T, McKillop G, Mirsadraee S, Payne J, Fox KA, Henriksen P, Newby DE, Semple SI.Ultrasmall superparamagnetic particles of iron oxide in patients with acute myocardial infarction: early clinical experience.Circ Cardiovasc Imaging. 2012 Sep 1;5(5):559-65. Epub 2012 Aug 8.PubMed [citation] PMID: 22875883

614. Yang H, Tyagi P, Kadam RS, Holden CA, Kompella UB.Hybrid dendrimer hydrogel/PLGA nanoparticle platform sustains drug delivery for one week and antiglaucoma effects for four days following one-time topical administration.ACS Nano. 2012 Sep 25;6(9):7595-606. Epub 2012 Aug 21.PubMed [citation] PMID: 22876910

615. Michalska M, Machtoub L, Manthey HD, Bauer E, Herold V, Krohne G, Lykowsky G, Hildenbrand M, Kampf T, Jakob P, Zernecke A, Bauer WR.Visualization of vascular inflammation in the atherosclerotic mouse by ultrasmall superparamagnetic iron

oxide vascular cell adhesion molecule-1-specific nanoparticles.Arterioscler Thromb Vasc Biol. 2012 Oct;32(10):2350-7. doi: 10.1161/ATVBAHA.112.255224. Epub 2012 Aug 9.PubMed [citation] PMID: 22879583

616. Sandberg WJ, Låg M, Holme JA, Friede B, Gualtieri M, Kruszewski M, Schwarze PE, Skuland T, Refsnes M.Comparison of non-crystalline silica nanoparticles in IL-1β release from macrophages.Part Fibre Toxicol. 2012 Aug 10;9:32. doi: 10.1186/1743-8977-9-32.PubMed [citation] PMID: 22882971, PMCID: PMC3441334

617. Mock JN, Costyn LJ, Wilding SL, Arnold RD, Cummings BS.Evidence for distinct mechanisms of uptake and antitumor activity of secretory phospholipase A2 responsive liposome in prostate cancer.Integr Biol (Camb). 2013 Jan;5(1):172-82. doi: 10.1039/c2ib20108a.PubMed [citation] PMID: 22890797, PMCID: PMC4164335

618. Sun Q, Tan D, Ze Y, Sang X, Liu X, Gui S, Cheng Z, Cheng J, Hu R, Gao G, Liu G, Zhu M, Zhao X, Sheng L, Wang L, Tang M, Hong F.Pulmotoxicological effects caused by long-term titanium dioxide nanoparticles exposure in mice.J Hazard Mater. 2012 Oct 15;235-236:47-53. doi: 10.1016/j.jhazmat.2012.05.072. Epub 2012 May 27.PubMed [citation] PMID: 22898172

619. Fujimoto T, Ito S, Ito M, Kanazawa H, Yamaguchi S.Induction of different reactive oxygen species in the skin during various laser therapies and their inhibition by fullerene.Lasers Surg Med. 2012 Oct;44(8):685-94. doi: 10.1002/lsm.22065. Epub 2012 Aug 16.PubMed [citation] PMID: 22899448

620. Mann EE, Thompson LC, Shannahan JH, Wingard CJ.Changes in cardiopulmonary function induced by nanoparticles.Wiley Interdiscip Rev Nanomed Nanobiotechnol. 2012 Nov-Dec;4(6):691-702. doi: 10.1002/wnan.1194. Epub 2012 Aug 22. Review.PubMed [citation] PMID: 22915448, PMCID: PMC3474861

621. Zhou HF, Yan H, Senpan A, Wickline SA, Pan D, Lanza GM, Pham CT.Suppression of inflammation in a mouse model of rheumatoid arthritis using targeted lipase-labile fumagillin prodrug nanoparticles.Biomaterials. 2012 Nov;33(33):8632-40. doi: 10.1016/j.biomaterials.2012.08.005. Epub 2012 Aug 24.PubMed [citation] PMID: 22922023, PMCID: PMC3583210

622. Gorelik M, Orukari I, Wang J, Galpoththawela S, Kim H, Levy M, Gilad AA, Bar-Shir A, Kerr DA, Levchenko A, Bulte JW, Walczak P.Use of MR cell tracking to evaluate targeting of glial precursor cells to inflammatory tissue by exploiting the very late antigen-4 docking receptor.Radiology. 2012 Oct;265(1):175-85. Epub 2012 Aug 24.PubMed [citation] PMID: 22923719, PMCID: PMC3447172

623. Geelen T, Yeo SY, Paulis LE, Starmans LW, Nicolay K, Strijkers GJ.Internalization of paramagnetic phosphatidylserine-containing liposomes by macrophages.J Nanobiotechnology. 2012 Aug 28;10:37. doi: 10.1186/1477-3155-10-37.PubMed [citation] PMID: 22929153, PMCID: PMC3495836

624. McCarthy J, Inkielewicz-Stępniak I, Corbalan JJ, Radomski MW.Mechanisms of toxicity of amorphous silica nanoparticles on human lung submucosal cells in vitro: protective effects of fisetin.Chem Res Toxicol. 2012 Oct

15;25(10):2227-35. doi: 10.1021/tx3002884. Epub 2012 Sep 19.PubMed [citation] PMID: 22931364

625. Skocaj M, Filipic M, Petkovic J, Novak S.Titanium dioxide in our everyday life; is it safe?Radiol Oncol. 2011 Dec;45(4):227-47. doi: 10.2478/v10019-011-0037-0. Epub 2011 Nov 16.PubMed [citation] PMID: 22933961, PMCID: PMC3423755

626. Xue Y, Wu J, Sun J.Four types of inorganic nanoparticles stimulate the inflammatory reaction in brain microglia and damage neurons in vitro.Toxicol Lett. 2012 Oct 17;214(2):91-8. doi: 10.1016/j.toxlet.2012.08.009. Epub 2012 Aug 19.PubMed [citation] PMID: 22939914

627. Syed S, Zubair A, Frieri M.Immune response to nanomaterials: implications for medicine and literature review.Curr Allergy Asthma Rep. 2013 Feb;13(1):50-7. doi: 10.1007/s11882-012-0302-3. Review.PubMed [citation] PMID: 22941559

628. Yamanaka YJ, Berger CT, Sips M, Cheney PC, Alter G, Love JC.Single-cell analysis of the dynamics and functional outcomes of interactions between human natural killer cells and target cells.Integr Biol (Camb). 2012 Oct;4(10):1175-84.PubMed [citation] PMID: 22945136

629. Porter DW, Wu N, Hubbs AF, Mercer RR, Funk K, Meng F, Li J, Wolfarth MG, Battelli L, Friend S, Andrew M, Hamilton R Jr, Sriram K, Yang F, Castranova V, Holian A.Differential mouse pulmonary dose and time course responses to titanium dioxide nanospheres and nanobelts.Toxicol Sci. 2013 Jan;131(1):179-93. doi: 10.1093/toxsci/kfs261. Epub 2012 Sep 5. Erratum in: Toxicol Sci. 2013 Apr;132(2):502-3. PubMed [citation] PMID: 22956629, PMCID: PMC3537123

630. Spain E, Keyes TE, Forster RJ.DNA sensor based on vapour polymerised pedot films functionalised with gold nanoparticles.Biosens Bioelectron. 2013 Mar 15;41:65-70. doi: 10.1016/j.bios.2012.06.046. Epub 2012 Jun 30.PubMed [citation] PMID: 22960006

631. Agrawal A, Manchester M.Differential uptake of chemically modified cowpea mosaic virus nanoparticles in macrophage subpopulations present in inflammatory and tumor microenvironments.Biomacromolecules. 2012 Oct 8;13(10):3320-6. doi: 10.1021/bm3010885. Epub 2012 Sep 20.PubMed [citation] PMID: 22963597, PMCID: PMC3590107

632. Jiang N, Zhang X, Zheng X, Chen D, Siu K, Wang H, Ichim TE, Quan D, McAlister V, Chen G, Min WP.A novel in vivo siRNA delivery system specifically targeting liver cells for protection of ConA-induced fulminant hepatitis.PLoS One. 2012;7(9):e44138. doi: 10.1371/journal.pone.0044138. Epub 2012 Sep 6.PubMed [citation] PMID: 22970170, PMCID: PMC3435394

633. Xiong S, George S, Yu H, Damoiseaux R, France B, Ng KW, Loo JS.Size influences the cytotoxicity of poly (lactic-co-glycolic acid) (PLGA) and titanium dioxide (TiO(2)) nanoparticles.Arch Toxicol. 2013 Jun;87(6):1075-86. doi: 10.1007/s00204-012-0938-8. Epub 2012 Sep 16.PubMed [citation] PMID: 22983807

634. Tsukie N, Nakano K, Matoba T, Masuda S, Iwata E, Miyagawa M, Zhao G, Meng W, Kishimoto J, Sunagawa K, Egashira K.Pitavastatin-incorporated nanoparticle-eluting stents attenuate in-stent stenosis without delayed endothelial healing effects in a porcine coronary artery model.J Atheroscler Thromb. 2013;20(1):32-45. Epub 2012 Sep 13.PubMed [citation] PMID: 22986515

635. Christoforidis JB, Chang S, Jiang A, Wang J, Cebulla CM.Intravitreal devices for the treatment of vitreous inflammation.Mediators Inflamm. 2012;2012:126463. doi: 10.1155/2012/126463. Epub 2012 Sep 5. Review.PubMed [citation] PMID: 22988344, PMCID: PMC3441042

636. Sosnovik DE, Nahrendorf M.Cells and iron oxide nanoparticles on the move: magnetic resonance imaging of monocyte homing and myocardial inflammation in patients with ST-elevation myocardial infarction.Circ Cardiovasc Imaging. 2012 Sep 1;5(5):551-4. No abstract available. PubMed [citation] PMID: 22991284, PMCID: PMC3529959

637. Darisipudi MN, Thomasova D, Mulay SR, Brech D, Noessner E, Liapis H, Anders HJ.Uromodulin triggers IL-1β-dependent innate immunity via the NLRP3 inflammasome.J Am Soc Nephrol. 2012 Nov;23(11):1783-9. doi: 10.1681/ASN.2012040338. Epub 2012 Sep 20.PubMed [citation] PMID: 22997256, PMCID: PMC3482735

638. Moulari B, Beduneau A, Pellequer Y, Lamprecht A.Nanoparticle targeting to inflamed tissues of the gastrointestinal tract.Curr Drug Deliv. 2013 Feb;10(1):9-17. Review.PubMed [citation] PMID: 22998041

639. Nogueira CM, de Azevedo WM, Dagli ML, Toma SH, Leite AZ, Lordello ML, Nishitokukado I, Ortiz-Agostinho CL, Duarte MI, Ferreira MA, Sipahi AM.Titanium dioxide induced inflammation in the small intestine.World J Gastroenterol. 2012 Sep 14;18(34):4729-35.PubMed [citation] PMID: 23002342, PMCID: PMC3442211

640. Tan X, Ding SQ, Hu YX, Li JJ, Zhou JY.Development of an immunosensor assay for detection of haptoglobin in mastitic milk.Vet Clin Pathol. 2012 Dec;41(4):575-81. doi: 10.1111/j.1939-165X.2012.00468.x. Epub 2012 Sep 24.PubMed [citation] PMID: 23003005

641. Donaldson K, Schinwald A, Murphy F, Cho WS, Duffin R, Tran L, Poland C.The biologically effective dose in inhalation nanotoxicology.Acc Chem Res. 2013 Mar 19;46(3):723-32. doi: 10.1021/ar300092y. Epub 2012 Sep 24.PubMed [citation] PMID: 23003923

642. Ma Z, Bai L.Anti-inflammatory effects of Z-ligustilide nanoemulsion.Inflammation. 2013 Apr;36(2):294-9. doi: 10.1007/s10753-012-9546-2.PubMed [citation] PMID: 23007925

643. Wysocka M, Lesner A.Future of protease activity assays.Curr Pharm Des. 2013;19(6):1062-7. Review.PubMed [citation] PMID: 23016691

644. Dekali S, Divetain A, Kortulewski T, Vanbaelinghem J, Gamez C, Rogerieux F,

Lacroix G, Rat P.Cell cooperation and role of the $P2X_7$ receptor in pulmonary inflammation induced by nanoparticles.Nanotoxicology. 2013 Dec;7(8):1302-14. doi: 10.3109/17435390.2012.735269. Epub 2012 Oct 24.PubMed [citation] PMID: 23020093

645. Nawroth I, Alsner J, Deleuran BW, Dagnaes-Hansen F, Yang C, Horsman MR, Overgaard J, Howard KA, Kjems J, Gao S.Peritoneal macrophages mediated delivery of chitosan/siRNA nanoparticle to the lesion site in a murine radiation-induced fibrosis model.Acta Oncol. 2013 Nov;52(8):1730-8. doi: 10.3109/0284186X.2012.726373. Epub 2012 Oct 1.PubMed [citation] PMID: 23020526

646. Bernardi A, Frozza RL, Meneghetti A, Hoppe JB, Battastini AM, Pohlmann AR, Guterres SS, Salbego CG.Indomethacin-loaded lipid-core nanocapsules reduce the damage triggered by Aβ1-42 in Alzheimer's disease models.Int J Nanomedicine. 2012;7:4927-42. doi: 10.2147/IJN.S35333. Epub 2012 Sep 13.PubMed [citation] PMID: 23028221, PMCID: PMC3446842

647. Kozako T, Arima N, Yoshimitsu M, Honda SI, Soeda S.Liposomes and nanotechnology in drug development: focus on oncotargets.Int J Nanomedicine. 2012;7:4943-51. doi: 10.2147/IJN.S30726. Epub 2012 Sep 14.PubMed [citation] PMID: 23028222, PMCID: PMC3446859

648. Layachi S, Rogerieux F, Robidel F, Lacroix G, Bayat S.Effect of combined nitrogen dioxide and carbon nanoparticle exposure on lung function during ovalbumin sensitization in Brown Norway rat.PLoS One. 2012;7(9):e45687. doi: 10.1371/journal.pone.0045687. Epub 2012 Sep 28.PubMed [citation] PMID: 23029182, PMCID: PMC3461023

649. Wu Q, Li Y, Wang M, Wu ZG, Huang BH.Rapid identification of Staphylococcus aureus directly from positive blood culture media using quantum dots as fluorescence probes.APMIS. 2013 Apr;121(4):348-52. doi: 10.1111/apm.12005. Epub 2012 Sep 25.PubMed [citation] PMID: 23030047

650. Karra N, Nassar T, Laenger F, Benita S, Borlak J.Safety and proof-of-concept efficacy of inhaled drug loaded nano- and immunonanoparticles in a c-Raf transgenic lung cancer model.Curr Cancer Drug Targets. 2013 Jan;13(1):11-29.PubMed [citation] PMID: 23030233

651. Smith WE, Brownell J, White CC, Afsharinejad Z, Tsai J, Hu X, Polyak SJ, Gao X, Kavanagh TJ, Eaton DL.In vitro toxicity assessment of amphiphillic polymer-coated CdSe/ZnS quantum dots in two human liver cell models.ACS Nano. 2012 Nov 27;6(11):9475-84. doi: 10.1021/nn302288r. Epub 2012 Oct 18.PubMed [citation] PMID: 23039050, PMCID: PMC3671920

652. Bartlett RL 2nd, Sharma S, Panitch A.Cell-penetrating peptides released from thermosensitive nanoparticles suppress pro-inflammatory cytokine response by specifically targeting inflamed cartilage explants.Nanomedicine. 2013 Apr;9(3):419-27. doi: 10.1016/j.nano.2012.09.003. Epub 2012 Oct 3.PubMed [citation] PMID: 23041412, PMCID: PMC4006693

653. Galanzha EI, Shashkov E, Sarimollaoglu M, Beenken KE, Basnakian AG, Shirtliff ME,

Kim JW, Smeltzer MS, Zharov VP.In vivo magnetic enrichment, photoacoustic diagnosis, and photothermal purging of infected blood using multifunctional gold and magnetic nanoparticles.PLoS One. 2012;7(9):e45557. doi: 10.1371/journal.pone.0045557. Epub 2012 Sep 26.PubMed [citation] PMID: 23049814, PMCID: PMC3458934

654. Demokritou P, Gass S, Pyrgiotakis G, Cohen JM, Goldsmith W, McKinney W, Frazer D, Ma J, Schwegler-Berry D, Brain J, Castranova V.An in vivo and in vitro toxicological characterisation of realistic nanoscale CeO_2 inhalation exposures.Nanotoxicology. 2013 Dec;7(8):1338-50. doi: 10.3109/17435390.2012.739665. Epub 2012 Nov 8.PubMed [citation] PMID: 23061914

655. Gaiser BK, Hirn S, Kermanizadeh A, Kanase N, Fytianos K, Wenk A, Haberl N, Brunelli A, Kreyling WG, Stone V.Effects of silver nanoparticles on the liver and hepatocytes in vitro.Toxicol Sci. 2013 Feb;131(2):537-47. doi: 10.1093/toxsci/kfs306. Epub 2012 Oct 19.PubMed [citation] PMID: 23086748

656. Saito S, Tsugeno M, Koto D, Mori Y, Yoshioka Y, Nohara S, Murase K.Impact of surface coating and particle size on the uptake of small and ultrasmall superparamagnetic iron oxide nanoparticles by macrophages.Int J Nanomedicine. 2012;7:5415-21. doi: 10.2147/IJN.S33709. Epub 2012 Oct 10.PubMed [citation] PMID: 23091384, PMCID: PMC3474462

657. Burian B, Ortner A, Prassl R, Zimmer A, Mosgoeller W.Clinical potential of VIP by modified pharmaco-kinetics and delivery mechanisms.Endocr Metab Immune Disord Drug Targets. 2012 Dec;12(4):344-50. Review.PubMed [citation] PMID: 23094831

658. Park S, Kang S, Chen X, Kim EJ, Kim J, Kim N, Kim J, Jin MM.Tumor suppression via paclitaxel-loaded drug carriers that target inflammation marker upregulated in tumor vasculature and macrophages.Biomaterials. 2013 Jan;34(2):598-605. doi: 10.1016/j.biomaterials.2012.10.004. Epub 2012 Oct 23.PubMed [citation] PMID: 23099063

659. McAteer MA, Choudhury RP.Targeted molecular imaging of vascular inflammation in cardiovascular disease using nano- and micro-sized agents.Vascul Pharmacol. 2013 Jan;58(1-2):31-8. doi: 10.1016/j.vph.2012.10.005. Epub 2012 Oct 26. Review.PubMed [citation] PMID: 23103786

660. Mains J, Wilson CG.The vitreous humor as a barrier to nanoparticle distribution.J Ocul Pharmacol Ther. 2013 Mar;29(2):143-50. doi: 10.1089/jop.2012.0138. Epub 2012 Oct 31. Review.PubMed [citation] PMID: 23113646

661. Leung MH, Harada T, Kee TW.Delivery of curcumin and medicinal effects of the copper(II)-curcumin complexes.Curr Pharm Des. 2013;19(11):2070-83. Review.PubMed [citation] PMID: 23116313

662. Prestes MA, Ribas CA, Ribas Filho JM, Moreira LB, Boldt AB, Brustolin EV, Castanho LS, Bernardi JA, Dias FC.Wound healing using ionic silver dressing and nanocrystalline silver dressing in rats.Acta Cir Bras. 2012 Nov;27(11):761-7.PubMed [citation] PMID: 23117607

663. Kim GB, Kim KH, Park YH, Ko S, Kim YP.Colorimetric assay of matrix metalloproteinase activity based on metal-induced self-assembly of carboxy gold nanoparticles.Biosens Bioelectron. 2013 Mar 15;41:833-9. doi: 10.1016/j.bios.2012.10.025. Epub 2012 Oct 17.PubMed [citation] PMID: 23127765

664. Prach M, Stone V, Proudfoot L.Zinc oxide nanoparticles and monocytes: impact of size, charge and solubility on activation status.Toxicol Appl Pharmacol. 2013 Jan 1;266(1):19-26. doi: 10.1016/j.taap.2012.10.020. Epub 2012 Nov 7.PubMed [citation] PMID: 23142470

665. Nymark P, Catalán J, Suhonen S, Järventaus H, Birkedal R, Clausen PA, Jensen KA, Vippola M, Savolainen K, Norppa H.Genotoxicity of polyvinylpyrrolidone-coated silver nanoparticles in BEAS 2B cells.Toxicology. 2013 Nov 8;313(1):38-48. doi: 10.1016/j.tox.2012.09.014. Epub 2012 Nov 8.PubMed [citation] PMID: 23142790

666. Gupta SC, Patchva S, Aggarwal BB.Therapeutic roles of curcumin: lessons learned from clinical trials.AAPS J. 2013 Jan;15(1):195-218. doi: 10.1208/s12248-012-9432-8. Epub 2012 Nov 10. Review.PubMed [citation] PMID: 23143785, PMCID: PMC3535097

667. Bourdon JA, Williams A, Kuo B, Moffat I, White PA, Halappanavar S, Vogel U, Wallin H, Yauk CL.Gene expression profiling to identify potentially relevant disease outcomes and support human health risk assessment for carbon black nanoparticle exposure.Toxicology. 2013 Jan 7;303:83-93. doi: 10.1016/j.tox.2012.10.014. Epub 2012 Nov 9.PubMed [citation] PMID: 23146762

668. Pereira DV, Petronilho F, Pereira HR, Vuolo F, Mina F, Possato JC, Vitto MF, de Souza DR, da Silva L, da Silva Paula MM, de Souza CT, Dal-Pizzol F.Effects of gold nanoparticles on endotoxin-induced uveitis in rats.Invest Ophthalmol Vis Sci. 2012 Dec 7;53(13):8036-41. doi: 10.1167/iovs.12-10743.PubMed [citation] PMID: 23150627

669. Cheng HT, Chuang EY, Ma H, Tsai CH, Perng CK.Fabrication of quantum dot-conjugated collagen/hyaluronic acid porous scaffold.Ann Plast Surg. 2012 Dec;69(6):663-7. doi: 10.1097/SAP.0b013e3182746787.PubMed [citation] PMID: 23154339

670. Kasper J, Hermanns MI, Bantz C, Utech S, Koshkina O, Maskos M, Brochhausen C, Pohl C, Fuchs S, Unger RE, Kirkpatrick CJ.Flotillin-involved uptake of silica nanoparticles and responses of an alveolar-capillary barrier in vitro.Eur J Pharm Biopharm. 2013 Jun;84(2):275-87. doi: 10.1016/j.ejpb.2012.10.011. Epub 2012 Nov 24.PubMed [citation] PMID: 23183446

671. Huntimer L, Ramer-Tait AE, Petersen LK, Ross KA, Walz KA, Wang C, Hostetter J, Narasimhan B, Wannemuehler MJ.Evaluation of biocompatibility and administration site reactogenicity of polyanhydride-particle-based platform for vaccine delivery.Adv Healthc Mater. 2013 Feb;2(2):369-78. doi: 10.1002/adhm.201200181. Epub 2012 Sep 26.PubMed [citation] PMID: 23184561

672. Rodriguez-Yañez Y, Muñoz B, Albores A.Mechanisms of toxicity by carbon nanotubes.Toxicol Mech Methods. 2013 Mar;23(3):178-95. doi: 10.3109/15376516.2012.754534. Epub 2013 Jan 18. Review.PubMed [citation] PMID: 23193995

673. Lee SM, Kim HJ, Ha YJ, Park YN, Lee SK, Park YB, Yoo KH.Targeted chemo-photothermal treatments of rheumatoid arthritis using gold half-shell multifunctional nanoparticles.ACS Nano. 2013 Jan 22;7(1):50-7. doi: 10.1021/nn301215q. Epub 2012 Dec 7.PubMed [citation] PMID: 23194301

674. Abu Samah NH, Heard CM.The effects of topically applied polyNIPAM-based nanogels and their monomers on skin cyclooxygenase expression, ex vivo.Nanotoxicology. 2014 Feb;8(1):100-6. doi: 10.3109/17435390.2012.754511. Epub 2013 Jan 9.PubMed [citation] PMID: 23194376

675. Davignon JL, Hayder M, Baron M, Boyer JF, Constantin A, Apparailly F, Poupot R, Cantagrel A.Targeting monocytes/macrophages in the treatment of rheumatoid arthritis.Rheumatology (Oxford). 2013 Apr;52(4):590-8. doi: 10.1093/rheumatology/kes304. Epub 2012 Nov 30. Review.PubMed [citation] PMID: 23204551

676. Thapa RK, Yoo BK.Evaluation of the effect of tacrolimus-loaded liquid crystalline nanoparticles on psoriasis-like skin inflammation.J Dermatolog Treat. 2014 Feb;25(1):22-5. doi: 10.3109/09546634.2012.755250. Epub 2013 Feb 3.PubMed [citation] PMID: 23210668

677. Ambalavanan N, Stanishevsky A, Bulger A, Halloran B, Steele C, Vohra Y, Matalon S.Titanium oxide nanoparticle instillation induces inflammation and inhibits lung development in mice.Am J Physiol Lung Cell Mol Physiol. 2013 Feb 1;304(3):L152-61. doi: 10.1152/ajplung.00013.2012. Epub 2012 Dec 7.PubMed [citation] PMID: 23220372, PMCID: PMC3567370

678. Yeager D, Karpiouk A, Wang B, Amirian J, Sokolov K, Smalling R, Emelianov S.Intravascular photoacoustic imaging of exogenously labeled atherosclerotic plaque through luminal blood.J Biomed Opt. 2012 Oct;17(10):106016. doi: 10.1117/1.JBO.17.10.106016.PubMed [citation] PMID: 23224013, PMCID: PMC3473229

679. Peuschel H, Sydlik U, Grether-Beck S, Felsner I, Stöckmann D, Jakob S, Kroker M, Haendeler J, Gotić M, Bieschke C, Krutmann J, Unfried K.Carbon nanoparticles induce ceramide- and lipid raft-dependent signalling in lung epithelial cells: a target for a preventive strategy against environmentally-induced lung inflammation.Part Fibre Toxicol. 2012 Dec 10;9:48. doi: 10.1186/1743-8977-9-48.PubMed [citation] PMID: 23228165, PMCID: PMC3546038

680. Leung K.Gadolinium-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid-G3 nanoglobule-CGLIIQKNEC (CLT1).2012 Oct 01 [updated 2012 Dec 06]. Molecular Imaging and Contrast Agent Database (MICAD) [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2004-2013.PubMed [citation] PMID: 23236643

681. Leung K.Gadolinium-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid-Lys-polyethylene glycol-CGLIIQKNEC (CLT1).2012 Sep 15 [updated 2012 Dec 06]. Molecular Imaging and Contrast Agent Database (MICAD) [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2004-2013.PubMed [citation] PMID: 23236645

682. Leung K.Manganese(II)-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid-G3 nanoglobule-CGLIIQKNEC (CLT1).2012 Sep 15 [updated 2012 Dec 06]. Molecular Imaging and Contrast Agent Database (MICAD) [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2004-2013.PubMed [citation] PMID: 23236646

683. Peng HH, Wu CY, Young D, Martel J, Young A, Ojcius DM, Lee YH, Young JD.Physicochemical and biological properties of biomimetic mineralo-protein nanoparticles formed spontaneously in biological fluids.Small. 2013 Jul 8;9(13):2297-307. doi: 10.1002/smll.201202270. Epub 2012 Dec 16.PubMed [citation] PMID: 23255529

684. Katara R, Majumdar DK.Eudragit RL 100-based nanoparticulate system of aceclofenac for ocular delivery.Colloids Surf B Biointerfaces. 2013 Mar 1;103:455-62. doi: 10.1016/j.colsurfb.2012.10.056. Epub 2012 Nov 14.PubMed [citation] PMID: 23261566

685. Esmaeillou M, Moharamnejad M, Hsankhani R, Tehrani AA, Maadi H.Toxicity of ZnO nanoparticles in healthy adult mice.Environ Toxicol Pharmacol. 2013 Jan;35(1):67-71. doi: 10.1016/j.etap.2012.11.003. Epub 2012 Nov 23.PubMed [citation] PMID: 23262039

686. Ferreira AJ, Cemlyn-Jones J, Robalo Cordeiro C.Nanoparticles, nanotechnology and pulmonary nanotoxicology.Rev Port Pneumol. 2013 Jan-Feb;19(1):28-37. doi: 10.1016/j.rppneu.2012.09.003. Epub 2012 Dec 21.PubMed [citation] PMID: 23265236

687. Weise G, Stoll G.Magnetic resonance imaging of blood brain/nerve barrier dysfunction and leukocyte infiltration: closely related or discordant?Front Neurol. 2012;3:178. doi: 10.3389/fneur.2012.00178.PubMed [citation] PMID: 23267343, PMCID: PMC3527731

688. Semenov FV, Fidarova KM.[The treatment of the patients presenting with chronic inflammation of the trepanation cavity with a preparation containing silver nanoparticles following sanitation surgery of the open type].Vestn Otorinolaringol. 2012;(6):117-9. Russian. PubMed [citation] PMID: 23268263

689. Nury C, Bregant S, Czarny B, Berthon F, Cassar-Lajeunesse E, Dive V.Detection of endogenous matrix metalloprotease-12 active form with a novel broad spectrum activity-based probe.J Biol Chem. 2013 Feb 22;288(8):5636-44. doi: 10.1074/jbc.M112.419499. Epub 2012 Dec 27.PubMed [citation] PMID: 23271741, PMCID: PMC3581385

690. Šebeková K, Dušinská M, Simon Klenovics K, Kollárová R, Boor P, Kebis A, Staruchová M, Vlková B, Celec P, Hodosy J, Bačiak L, Tušková R, Beňo M, Tulinská J, Príbojová J, Bilaničová D, Pojana G, Marcomini A, Volkovová K.Comprehensive

assessment of nephrotoxicity of intravenously administered sodium-oleate-coated ultra-small superparamagnetic iron oxide (USPIO) and titanium dioxide (TiO2) nanoparticles in rats.Nanotoxicology. 2014 Mar;8(2):142-57. doi: 10.3109/17435390.2012.763147. Epub 2013 Jan 21.PubMed [citation] PMID: 23272807

691. Coccini T, Barni S, Vaccarone R, Mustarelli P, Manzo L, Roda E.Pulmonary toxicity of instilled cadmium-doped silica nanoparticles during acute and subacute stages in rats.Histol Histopathol. 2013 Feb;28(2):195-209.PubMed [citation] PMID: 23275303

692. Al Faraj A, Luciani N, Kolosnjaj-Tabi J, Mattar E, Clement O, Wilhelm C, Gazeau F.Real-time high-resolution magnetic resonance tracking of macrophage subpopulations in a murine inflammation model: a pilot study with a commercially available cryogenic probe.Contrast Media Mol Imaging. 2013 Mar-Apr;8(2):193-203. doi: 10.1002/cmmi.1516.PubMed [citation] PMID: 23281292

693. Chen YP, Dai ZH, Liu PC, Chuu JJ, Lee KY, Lee SL, Chen YJ.Effects of nanogold on the alleviation of carbon tetrachloride-induced hepatic injury in rats.Chin J Physiol. 2012 Oct 31;55(5):331-6. doi: 10.4077/CJP.2012.BAA064.PubMed [citation] PMID: 23282207

694. Mizuguchi Y, Myojo T, Oyabu T, Hashiba M, Lee BW, Yamamoto M, Todoroki M, Nishi K, Kadoya C, Ogami A, Morimoto Y, Tanaka I, Shimada M, Uchida K, Endoh S, Nakanishi J.Comparison of dose-response relations between 4-week inhalation and intratracheal instillation of NiO nanoparticles using polimorphonuclear neutrophils in bronchoalveolar lavage fluid as a biomarker of pulmonary inflammation.Inhal Toxicol. 2013 Jan;25(1):29-36. doi: 10.3109/08958378.2012.751470.PubMed [citation] PMID: 23293971

695. Caddeo C, Sales OD, Valenti D, Saurí AR, Fadda AM, Manconi M.Inhibition of skin inflammation in mice by diclofenac in vesicular carriers: liposomes, ethosomes and PEVs.Int J Pharm. 2013 Feb 25;443(1-2):128-36. doi: 10.1016/j.ijpharm.2012.12.041. Epub 2013 Jan 5.PubMed [citation] PMID: 23299087

696. Majmudar MD, Yoo J, Keliher EJ, Truelove JJ, Iwamoto Y, Sena B, Dutta P, Borodovsky A, Fitzgerald K, Di Carli MF, Libby P, Anderson DG, Swirski FK, Weissleder R, Nahrendorf M.Polymeric nanoparticle PET/MR imaging allows macrophage detection in atherosclerotic plaques.Circ Res. 2013 Mar 1;112(5):755-61. doi: 10.1161/CIRCRESAHA.111.300576. Epub 2013 Jan 8.PubMed [citation] PMID: 23300273, PMCID: PMC3586287

697. Ucero AC, Berzal S, Ocaña-Salceda C, Sancho M, Orzáez M, Messeguer A, Ruiz-Ortega M, Egido J, Vicent MJ, Ortiz A, Ramos AM.A polymeric nanomedicine diminishes inflammatory events in renal tubular cells.PLoS One. 2013;8(1):e51992. doi: 10.1371/journal.pone.0051992. Epub 2013 Jan 2.PubMed [citation] PMID: 23300960, PMCID: PMC3534689

698. Saritas EU, Goodwill PW, Croft LR, Konkle JJ, Lu K, Zheng B, Conolly SM.Magnetic particle imaging (MPI) for NMR and MRI researchers.J Magn Reson. 2013 Apr;229:116-26. doi: 10.1016/j.jmr.2012.11.029. Epub 2012 Dec 27. Review.PubMed

[citation] PMID: 23305842, PMCID: PMC3602323

699. Gao L, Yang ST, Li S, Meng Y, Wang H, Lei H.Acute toxicity of zinc oxide nanoparticles to the rat olfactory system after intranasal instillation.J Appl Toxicol. 2013 Oct;33(10):1079-88. doi: 10.1002/jat.2842. Epub 2013 Jan 11.PubMed [citation] PMID: 23315988

700. Du Z, Zhao D, Jing L, Cui G, Jin M, Li Y, Liu X, Liu Y, Du H, Guo C, Zhou X, Sun Z.Cardiovascular toxicity of different sizes amorphous silica nanoparticles in rats after intratracheal instillation.Cardiovasc Toxicol. 2013 Sep;13(3):194-207. doi: 10.1007/s12012-013-9198-y.PubMed [citation] PMID: 23322373

701. Becker HM, Bertschinger MM, Rogler G.Microparticles and their impact on intestinal immunity.Dig Dis. 2012;30 Suppl 3:47-54. doi: 10.1159/000342602. Epub 2013 Jan 3. Review.PubMed [citation] PMID: 23295692

702. Lee S, Kim MS, Lee D, Kwon TK, Khang D, Yun HS, Kim SH.The comparative immunotoxicity of mesoporous silica nanoparticles and colloidal silica nanoparticles in mice.Int J Nanomedicine. 2013;8:147-58. doi: 10.2147/IJN.S39534. Epub 2013 Jan 7.PubMed [citation] PMID: 23326190, PMCID: PMC3544348

703. Plotnikov EY, Pul'kova NV, Silachev DN, Manskikh VN, Khryapenkova TG, Zorov DB, Sukhikh GT.Methods of detection of mesenchymal stem cells in the kidneys during therapy of experimental renal pathologies.Bull Exp Biol Med. 2012 Nov;154(1):145-51.PubMed [citation] PMID: 23330112

704. Diesel B, Hoppstädter J, Hachenthal N, Zarbock R, Cavelius C, Wahl B, Thewes N, Jacobs K, Kraegeloh A, Kiemer AK.Activation of Rac1 GTPase by nanoparticulate structures in human macrophages.Eur J Pharm Biopharm. 2013 Jun;84(2):315-24. doi: 10.1016/j.ejpb.2012.12.015. Epub 2013 Jan 18.PubMed [citation] PMID: 23333897

705. Sawyer AJ, Kyriakides TR.Nanoparticle-based evaluation of blood-brain barrier leakage during the foreign body response.J Neural Eng. 2013 Feb;10(1):016013. doi: 10.1088/1741-2560/10/1/016013. Epub 2013 Jan 21.PubMed [citation] PMID: 23337399, PMCID: PMC3602133

706. Huizar I, Malur A, Patel J, McPeek M, Dobbs L, Wingard C, Barna BP, Thomassen MJ.The role of PPARγ in carbon nanotube-elicited granulomatous lung inflammation.Respir Res. 2013 Jan 23;14:7. doi: 10.1186/1465-9921-14-7.PubMed [citation] PMID: 23343389, PMCID: PMC3560264

707. Novobrantseva TI, Borodovsky A, Wong J, Klebanov B, Zafari M, Yucius K, Querbes W, Ge P, Ruda VM, Milstein S, Speciner L, Duncan R, Barros S, Basha G, Cullis P, Akinc A, Donahoe JS, Narayanannair Jayaprakash K, Jayaraman M, Bogorad RL, Love K, Whitehead K, et al.Systemic RNAi-mediated Gene Silencing in Nonhuman Primate and Rodent Myeloid Cells.Mol Ther Nucleic Acids. 2012 Jan 24;1:e4. doi: 10.1038/mtna.2011.3.PubMed [citation] PMID: 23344621, PMCID: PMC3381593

708. Tan J, Shi J, Shi G, Liu Y, Liu X, Wang C, Chen D, Xing S, Shen L, Jia L, Ye X, He H, Li J.Changes in compressed neurons from dogs with acute and severe cauda

equina constrictions following intrathecal injection of brain-derived neurotrophic factor-conjugated polymer nanoparticles.Neural Regen Res. 2013 Jan 25;8(3):233-43. doi: 10.3969/j.issn.1673-5374.2013.03.005.PubMed [citation] PMID: 25206593, PMCID: PMC4107517

709. He C, Yin L, Tang C, Yin C.Multifunctional polymeric nanoparticles for oral delivery of TNF-α siRNA to macrophages.Biomaterials. 2013 Apr;34(11):2843-54. doi: 10.1016/j.biomaterials.2013.01.033. Epub 2013 Jan 21.PubMed [citation] PMID: 23347838

710. Byun JY, Shin YB, Kim DM, Kim MG.A colorimetric homogeneous immunoassay system for the C-reactive protein.Analyst. 2013 Mar 7;138(5):1538-43. doi: 10.1039/c3an36592a.PubMed [citation] PMID: 23348847

711. de Maat S, van Dooremalen S, de Groot PG, Maas C.A nanobody-based method for tracking factor XII activation in plasma.Thromb Haemost. 2013 Sep;110(3):458-68. doi: 10.1160/TH12-11-0792. Epub 2013 Jan 24.PubMed [citation] PMID: 23349032

712. Qin H, Zhou T, Yang S, Chen Q, Xing D.Gadolinium(III)-gold nanorods for MRI and photoacoustic imaging dual-modality detection of macrophages in atherosclerotic inflammation.Nanomedicine (Lond). 2013 Oct;8(10):1611-24. doi: 10.2217/nnm.12.168. Epub 2013 Jan 25.PubMed [citation] PMID: 23351094

713. Chang H, Ho CC, Yang CS, Chang WH, Tsai MH, Tsai HT, Lin P.Involvement of MyD88 in zinc oxide nanoparticle-induced lung inflammation.Exp Toxicol Pathol. 2013 Sep;65(6):887-96. doi: 10.1016/j.etp.2013.01.001. Epub 2013 Jan 24.PubMed [citation] PMID: 23352990

714. Tanaka M, Aoki Y, Takano H, Fujitani Y, Hirano S, Nakamura R, Sone Y, Kiyono M, Ichinose T, Itoh T, Inoue K.Effects of exposure to nanoparticle-rich or -depleted diesel exhaust on allergic pathophysiology in the murine lung.J Toxicol Sci. 2013 Feb;38(1):35-48.PubMed [citation] PMID: 23358138

715. Sansone F, Casnati A.Multivalent glycocalixarenes for recognition of biological macromolecules: glycocalyx mimics capable of multitasking.Chem Soc Rev. 2013 Jun 7;42(11):4623-39. doi: 10.1039/c2cs35437c. Epub 2013 Jan 29. Review.PubMed [citation] PMID: 23361847

716. Kulvietis V, Zurauskas E, Rotomskis R.Distribution of polyethylene glycol coated quantum dots in mice skin.Exp Dermatol. 2013 Feb;22(2):157-9. doi: 10.1111/exd.12087.PubMed [citation] PMID: 23362878

717. Barth BM, Shanmugavelandy SS, Kaiser JM, McGovern C, Altınoğlu Eİ, Haakenson JK, Hengst JA, Gilius EL, Knupp SA, Fox TE, Smith JP, Ritty TM, Adair JH, Kester M.PhotoImmunoNanoTherapy reveals an anticancer role for sphingosine kinase 2 and dihydrosphingosine-1-phosphate.ACS Nano. 2013 Mar 26;7(3):2132-44. doi: 10.1021/nn304862b. Epub 2013 Feb 14.PubMed [citation] PMID: 23373542, PMCID: PMC3757127

718. Cho WS, Thielbeer F, Duffin R, Johansson EM, Megson IL, MacNee W, Bradley M,

Donaldson K.Surface functionalization affects the zeta potential, coronal stability and membranolytic activity of polymeric nanoparticles.Nanotoxicology. 2014 Mar;8(2):202-11. doi: 10.3109/17435390.2013.773465. Epub 2013 May 28.PubMed [citation] PMID: 23379633

719. Han SG, Newsome B, Hennig B.Titanium dioxide nanoparticles increase inflammatory responses in vascular endothelial cells.Toxicology. 2013 Apr 5;306:1-8. doi: 10.1016/j.tox.2013.01.014. Epub 2013 Feb 1.PubMed [citation] PMID: 23380242, PMCID: PMC3631470

720. Zern BJ, Chacko AM, Liu J, Greineder CF, Blankemeyer ER, Radhakrishnan R, Muzykantov V.Reduction of nanoparticle avidity enhances the selectivity of vascular targeting and PET detection of pulmonary inflammation.ACS Nano. 2013 Mar 26;7(3):2461-9. doi: 10.1021/nn305773f. Epub 2013 Feb 8.PubMed [citation] PMID: 23383962, PMCID: PMC3609928

721. Park EJ, Shim HW, Lee GH, Kim JH, Kim DW.Comparison of toxicity between the different-type TiO_2 nanowires in vivo and in vitro.Arch Toxicol. 2013 Jul;87(7):1219-30. doi: 10.1007/s00204-013-1019-3. Epub 2013 Feb 7.PubMed [citation] PMID: 23389739

722. Ryan SM, McMorrow J, Umerska A, Patel HB, Kornerup KN, Tajber L, Murphy EP, Perretti M, Corrigan OI, Brayden DJ.An intra-articular salmon calcitonin-based nanocomplex reduces experimental inflammatory arthritis.J Control Release. 2013 Apr 28;167(2):120-9. doi: 10.1016/j.jconrel.2013.01.027. Epub 2013 Feb 4.PubMed [citation] PMID: 23391443

723. Thurman JM, Rohrer B.Noninvasive detection of complement activation through radiologic imaging.Adv Exp Med Biol. 2013;735:271-82. Review.PubMed [citation] PMID: 23402034

724. Li B, Ze Y, Sun Q, Zhang T, Sang X, Cui Y, Wang X, Gui S, Tan D, Zhu M, Zhao X, Sheng L, Wang L, Hong F, Tang M.Molecular mechanisms of nanosized titanium dioxide-induced pulmonary injury in mice.PLoS One. 2013;8(2):e55563. doi: 10.1371/journal.pone.0055563. Epub 2013 Feb 7.PubMed [citation] PMID: 23409001, PMCID: PMC3567101

725. Campbell SB, Patenaude M, Hoare T.Injectable superparamagnets: highly elastic and degradable poly(N-isopropylacrylamide)-superparamagnetic iron oxide nanoparticle (SPION) composite hydrogels.Biomacromolecules. 2013 Mar 11;14(3):644-53. doi: 10.1021/bm301703x. Epub 2013 Feb 26.PubMed [citation] PMID: 23410094

726. Puglia C, Tirendi GG, Bonina F.Emerging role of colloidal drug delivery systems (CDDS) in NSAID topical administration.Curr Med Chem. 2013;20(14):1847-57. Review.PubMed [citation] PMID: 23410154

727. Waiczies H, Lepore S, Drechsler S, Qadri F, Purfürst B, Sydow K, Dathe M, Kühne A, Lindel T, Hoffmann W, Pohlmann A, Niendorf T, Waiczies S.Visualizing brain inflammation with a shingled-leg radio-frequency head probe for 19F/1H MRI.Sci Rep. 2013;3:1280. doi: 10.1038/srep01280.PubMed [citation] PMID: 23412352, PMCID:

PMC3573344

728. Gao L, Xie L, Long X, Wang Z, He CY, Chen ZY, Zhang L, Nan X, Lei H, Liu X, Liu G, Lu J, Qiu B.Efficacy of MRI visible iron oxide nanoparticles in delivering minicircle DNA into liver via intrabiliary infusion.Biomaterials. 2013 May;34(14):3688-96. doi: 10.1016/j.biomaterials.2013.01.094. Epub 2013 Feb 15.PubMed [citation] PMID: 23419644

729. Hasan DM, Chalouhi N, Jabbour P, Magnotta VA, Kung DK, Young WL.Imaging aspirin effect on macrophages in the wall of human cerebral aneurysms using ferumoxytol-enhanced MRI: preliminary results.J Neuroradiol. 2013 Jul;40(3):187-91. doi: 10.1016/j.neurad.2012.09.002. Epub 2013 Feb 18.PubMed [citation] PMID: 23428244

730. Narayanan D, M G G, H L, Koyakutty M, Nair S, Menon D.Poly-(ethylene glycol) modified gelatin nanoparticles for sustained delivery of the anti-inflammatory drug Ibuprofen-Sodium: an in vitro and in vivo analysis.Nanomedicine. 2013 Aug;9(6):818-28. doi: 10.1016/j.nano.2013.02.001. Epub 2013 Feb 18.PubMed [citation] PMID: 23428986

731. Wischke C, Krüger A, Roch T, Pierce BF, Li W, Jung F, Lendlein A.Endothelial cell response to (co)polymer nanoparticles depending on the inflammatory environment and comonomer ratio.Eur J Pharm Biopharm. 2013 Jun;84(2):288-96. doi: 10.1016/j.ejpb.2013.01.025. Epub 2013 Feb 18.PubMed [citation] PMID: 23429231

732. Tomar L, Tyagi C, Kumar M, Kumar P, Singh H, Choonara YE, Pillay V.In vivo evaluation of a conjugated poly(lactide-ethylene glycol) nanoparticle depot formulation for prolonged insulin delivery in the diabetic rabbit model.Int J Nanomedicine. 2013;8:505-20. doi: 10.2147/IJN.S38011. Epub 2013 Feb 4.PubMed [citation] PMID: 23429428, PMCID: PMC3575164

733. Sonnenberg A, Marciniak JY, McCanna J, Krishnan R, Rassenti L, Kipps TJ, Heller MJ.Dielectrophoretic isolation and detection of cfc-DNA nanoparticulate biomarkers and virus from blood.Electrophoresis. 2013 Apr;34(7):1076-84. doi: 10.1002/elps.201200444.PubMed [citation] PMID: 23436471

734. Thomsen S, Pearce JA, Giustini A, Hoopes PJ.Nanoparticles in Medicine: Selected Observations and Experimental Caveats.Proc Soc Photo Opt Instrum Eng. 2013 Feb 26;8584:858402.PubMed [citation] PMID: 25301992, PMCID: PMC4187215

735. Halappanavar S, Nikota J, Wu D, Williams A, Yauk CL, Stampfli M.IL-1 receptor regulates microRNA-135b expression in a negative feedback mechanism during cigarette smoke-induced inflammation.J Immunol. 2013 Apr 1;190(7):3679-86. doi: 10.4049/jimmunol.1202456. Epub 2013 Feb 25.PubMed [citation] PMID: 23440414, PMCID: PMC3607400

736. Weibel S, Basse-Luesebrink TC, Hess M, Hofmann E, Seubert C, Langbein-Laugwitz J, Gentschev I, Sturm VJ, Ye Y, Kampf T, Jakob PM, Szalay AA.Imaging of intratumoral inflammation during oncolytic virotherapy of tumors by 19F-magnetic resonance imaging (MRI).PLoS One. 2013;8(2):e56317. doi: 10.1371/journal.pone.0056317. Epub

2013 Feb 18.PubMed [citation] PMID: 23441176, PMCID: PMC3575337

737. Wagner S, Schnorr J, Ludwig A, Stangl V, Ebert M, Hamm B, Taupitz M.Contrast-enhanced MR imaging of atherosclerosis using citrate-coated superparamagnetic iron oxide nanoparticles: calcifying microvesicles as imaging target for plaque characterization.Int J Nanomedicine. 2013;8:767-79. doi: 10.2147/IJN.S38702. Epub 2013 Feb 20.PubMed [citation] PMID: 23450179, PMCID: PMC3581358

738. Millward JM, Schnorr J, Taupitz M, Wagner S, Wuerfel JT, Infante-Duarte C.Iron oxide magnetic nanoparticles highlight early involvement of the choroid plexus in central nervous system inflammation.ASN Neuro. 2013;5(1):e00110.PubMed [citation] PMID: 23452162, PMCID: PMC3610189

739. Ibricevic A, Guntsen SP, Zhang K, Shrestha R, Liu Y, Sun JY, Welch MJ, Wooley KL, Brody SL.PEGylation of cationic, shell-crosslinked-knedel-like nanoparticles modulates inflammation and enhances cellular uptake in the lung.Nanomedicine. 2013 Oct;9(7):912-22. doi: 10.1016/j.nano.2013.02.006. Epub 2013 Feb 27.PubMed [citation] PMID: 23453959, PMCID: PMC3724762

740. Karlson Tde L, Kong YY, Hardy CL, Xiang SD, Plebanski M.The signalling imprints of nanoparticle uptake by bone marrow derived dendritic cells.Methods. 2013 May 1;60(3):275-83. doi: 10.1016/j.ymeth.2013.02.009. Epub 2013 Feb 28.PubMed [citation] PMID: 23459257

741. Kose N, Otuzbir A, Pekşen C, Kiremitçi A, Doğan A.A silver ion-doped calcium phosphate-based ceramic nanopowder-coated prosthesis increased infection resistance.Clin Orthop Relat Res. 2013 Aug;471(8):2532-9. doi: 10.1007/s11999-013-2894-x.PubMed [citation] PMID: 23463287, PMCID: PMC3705076

742. Liu Q, Jin L, Mahon BH, Chordia MD, Shen FH, Li X.Novel treatment of neuroinflammation against low back pain by soluble fullerol nanoparticles.Spine (Phila Pa 1976). 2013 Aug 1;38(17):1443-51. doi: 10.1097/BRS.0b013e31828fc6b7.PubMed [citation] PMID: 23466506, PMCID: PMC3731423

743. Abbott Chalew TE, Schwab KJ.Toxicity of commercially available engineered nanoparticles to Caco-2 and SW480 human intestinal epithelial cells.Cell Biol Toxicol. 2013 Apr;29(2):101-16. doi: 10.1007/s10565-013-9241-6. Epub 2013 Mar 7.PubMed [citation] PMID: 23468361

744. Chen H, Dorrigan A, Saad S, Hare DJ, Cortie MB, Valenzuela SM.In vivo study of spherical gold nanoparticles: inflammatory effects and distribution in mice.PLoS One. 2013;8(2):e58208. doi: 10.1371/journal.pone.0058208. Epub 2013 Feb 28.PubMed [citation] PMID: 23469154, PMCID: PMC3585265

745. Donaldson K, Duffin R, Langrish JP, Miller MR, Mills NL, Poland CA, Raftis J, Shah A, Shaw CA, Newby DE.Nanoparticles and the cardiovascular system: a critical review.Nanomedicine (Lond). 2013 Mar;8(3):403-23. doi: 10.2217/nnm.13.16. Review.PubMed [citation] PMID: 23477334

746. Jonasson S, Gustafsson A, Koch B, Bucht A.Inhalation exposure of nano-scaled titanium dioxide (TiO2) particles alters the inflammatory responses in asthmatic mice.Inhal Toxicol. 2013 Mar;25(4):179-91. doi: 10.3109/08958378.2013.770939.PubMed [citation] PMID: 23480194

747. Huerta-García E, Montiél-Dávalos A, Alfaro-Moreno E, Gutiérrez-Iglesias G, López-Marure R.Dehydroepiandrosterone protects endothelial cells against inflammatory events induced by urban particulate matter and titanium dioxide nanoparticles.Biomed Res Int. 2013;2013:382058. doi: 10.1155/2013/382058. Epub 2013 Jan 14.PubMed [citation] PMID: 23484113, PMCID: PMC3581121

748. Lenz AG, Karg E, Brendel E, Hinze-Heyn H, Maier KL, Eickelberg O, Stoeger T, Schmid O.Inflammatory and oxidative stress responses of an alveolar epithelial cell line to airborne zinc oxide nanoparticles at the air-liquid interface: a comparison with conventional, submerged cell-culture conditions.Biomed Res Int. 2013;2013:652632. doi: 10.1155/2013/652632. Epub 2013 Jan 2.PubMed [citation] PMID: 23484138, PMCID: PMC3581099

749. Ito T, Takemasa M, Makino K, Otsuka M.Preparation of calcium phosphate nanocapsules including simvastatin/deoxycholic acid assembly, and their therapeutic effect in osteoporosis model mice.J Pharm Pharmacol. 2013 Apr;65(4):494-502. doi: 10.1111/jphp.12008. Epub 2012 Nov 22.PubMed [citation] PMID: 23488777

750. Hiroike M, Sakabe J, Kobayashi M, Shimauchi T, Ito T, Hirakawa S, Inoh A, Tokura Y.Acicular, but not globular, titanium dioxide nanoparticles stimulate keratinocytes to produce pro-inflammatory cytokines.J Dermatol. 2013 May;40(5):357-62. doi: 10.1111/1346-8138.12132. Epub 2013 Mar 12.PubMed [citation] PMID: 23489043

751. Serpe L, Canaparo R, Foglietta F, Zara GP.Innovative formulations for the controlled and site-specific delivery of antiinflammatory drugs.Curr Pharm Des. 2013;19(41):7219-36. Review.PubMed [citation] PMID: 23489201

752. Maradana MR, Thomas R, O'Sullivan BJ.Targeted delivery of curcumin for treating type 2 diabetes.Mol Nutr Food Res. 2013 Sep;57(9):1550-6. doi: 10.1002/mnfr.201200791. Epub 2013 Mar 14. Review.PubMed [citation] PMID: 23495213

753. Roberts JR, Antonini JM, Porter DW, Chapman RS, Scabilloni JF, Young SH, Schwegler-Berry D, Castranova V, Mercer RR.Lung toxicity and biodistribution of Cd/Se-ZnS quantum dots with different surface functional groups after pulmonary exposure in rats.Part Fibre Toxicol. 2013 Mar 4;10:5. doi: 10.1186/1743-8977-10-5.PubMed [citation] PMID: 23497258, PMCID: PMC3599433

754. Lin YH, Tsai SC, Lai CH, Lee CH, He ZS, Tseng GC.Genipin-cross-linked fucose-chitosan/heparin nanoparticles for the eradication of Helicobacter pylori.Biomaterials. 2013 Jun;34(18):4466-79. doi: 10.1016/j.biomaterials.2013.02.028. Epub 2013 Mar 15.PubMed [citation] PMID: 23499480

755. Ho CC, Luo YH, Chuang TH, Yang CS, Ling YC, Lin P.Quantum dots induced monocyte chemotactic protein-1 expression via MyD88-dependent Toll-like receptor signaling pathways in macrophages.Toxicology. 2013 Jun 7;308:1-9. doi: 10.1016/j.tox.2013.03.003. Epub 2013 Mar 15.PubMed [citation] PMID: 23499856

756. Bengalli R, Mantecca P, Camatini M, Gualtieri M.Effect of nanoparticles and environmental particles on a cocultures model of the air-blood barrier.Biomed Res Int. 2013;2013:801214. doi: 10.1155/2013/801214. Epub 2012 Dec 23.PubMed [citation] PMID: 23509780, PMCID: PMC3591223

757. Hussain S, Vanoirbeek JA, Haenen S, Haufroid V, Boland S, Marano F, Nemery B, Hoet PH.Prior lung inflammation impacts on body distribution of gold nanoparticles.Biomed Res Int. 2013;2013:923475. doi: 10.1155/2013/923475. Epub 2013 Jan 13.PubMed [citation] PMID: 23509805, PMCID: PMC3581283

758. Jokerst JV, Khademi C, Gambhir SS.Intracellular aggregation of multimodal silica nanoparticles for ultrasound-guided stem cell implantation.Sci Transl Med. 2013 Mar 20;5(177):177ra35. doi: 10.1126/scitranslmed.3005228.PubMed [citation] PMID: 23515077, PMCID: PMC3839309

759. Chen Q, Xue Y, Sun J.Kupffer cell-mediated hepatic injury induced by silica nanoparticles in vitro and in vivo.Int J Nanomedicine. 2013;8:1129-40. doi: 10.2147/IJN.S42242. Epub 2013 Mar 15.PubMed [citation] PMID: 23515466, PMCID: PMC3600997

760. Chen XY, Wang SM, Li N, Hu Y, Zhang Y, Xu JF, Li X, Ren J, Su B, Yuan WZ, Teng XR, Zhang RX, Jiang DH, Mulet X, Li HP.Creation of lung-targeted dexamethasone immunoliposome and its therapeutic effect on bleomycin-induced lung injury in rats.PLoS One. 2013;8(3):e58275. doi: 10.1371/journal.pone.0058275. Epub 2013 Mar 14.PubMed [citation] PMID: 23516459, PMCID: PMC3597622

761. Baky NA, Faddah LM, Al-Rasheed NM, Al-Rasheed NM, Fatani AJ.Induction of inflammation, DNA damage and apoptosis in rat heart after oral exposure to zinc oxide nanoparticles and the cardioprotective role of α-lipoic acid and vitamin E.Drug Res (Stuttg). 2013 May;63(5):228-36. doi: 10.1055/s-0033-1334923. Epub 2013 Mar 26.PubMed [citation] PMID: 23532625

762. Kamaly N, Fredman G, Subramanian M, Gadde S, Pesic A, Cheung L, Fayad ZA, Langer R, Tabas I, Farokhzad OC.Development and in vivo efficacy of targeted polymeric inflammation-resolving nanoparticles.Proc Natl Acad Sci U S A. 2013 Apr 16;110(16):6506-11. doi: 10.1073/pnas.1303377110. Epub 2013 Mar 26.PubMed [citation] PMID: 23533277, PMCID: PMC3631648

763. Sclavons C, Burtea C, Boutry S, Laurent S, Vander Elst L, Muller RN.Phage Display Screening for Tumor Necrosis Factor- α -Binding Peptides: Detection of Inflammation in a Mouse Model of Hepatitis.Int J Pept. 2013;2013:348409. doi: 10.1155/2013/348409. Epub 2013 Feb 26.PubMed [citation] PMID: 23533448, PMCID: PMC3600310

764. Pedata P, Bergamasco N, D'Anna A, Minutolo P, Servillo L, Sannolo N, Balestrieri

ML.Apoptotic and proinflammatory effect of combustion-generated organic nanoparticles in endothelial cells.Toxicol Lett. 2013 Jun 7;219(3):307-14. doi: 10.1016/j.toxlet.2013.03.017. Epub 2013 Mar 26.PubMed [citation] PMID: 23538036

765. Bartłomiejczyk T, Lankoff A, Kruszewski M, Szumiel I.Silver nanoparticles -- allies or adversaries?Ann Agric Environ Med. 2013;20(1):48-54. Review.PubMed [citation] PMID: 23540211

766. Davis PJ, Glinsky GV, Lin HY, Incerpi S, Davis FB, Mousa SA, Tang HY, Hercbergs A, Luidens MK.Molecular mechanisms of actions of formulations of the thyroid hormone analogue, tetrac, on the inflammatory response.Endocr Res. 2013;38(2):112-8. doi: 10.3109/07435800.2013.778865. Review.PubMed [citation] PMID: 23545000

767. Gaur PK, Purohit S, Kumar Y, Mishra S, Bhandari A.Ceramide-2 nanovesicles for effective transdermal delivery: development, characterization and pharmacokinetic evaluation.Drug Dev Ind Pharm. 2014 Apr;40(4):568-76. doi: 10.3109/03639045.2013.782502. Epub 2013 Apr 3.PubMed [citation] PMID: 23547761

768. Herzog F, Clift MJ, Piccapietra F, Behra R, Schmid O, Petri-Fink A, Rothen-Rutishauser B.Exposure of silver-nanoparticles and silver-ions to lung cells in vitro at the air-liquid interface.Part Fibre Toxicol. 2013 Apr 4;10:11. doi: 10.1186/1743-8977-10-11.PubMed [citation] PMID: 23557437, PMCID: PMC3639923

769. Husain M, Saber AT, Guo C, Jacobsen NR, Jensen KA, Yauk CL, Williams A, Vogel U, Wallin H, Halappanavar S.Pulmonary instillation of low doses of titanium dioxide nanoparticles in mice leads to particle retention and gene expression changes in the absence of inflammation.Toxicol Appl Pharmacol. 2013 Jun 15;269(3):250-62. doi: 10.1016/j.taap.2013.03.018. Epub 2013 Apr 1.PubMed [citation] PMID: 23557971

770. Andreasen SØ, Chong SF, Wohl BM, Goldie KN, Zelikin AN.Poly(vinyl alcohol) physical hydrogel nanoparticles, not polymer solutions, exert inhibition of nitric oxide synthesis in cultured macrophages.Biomacromolecules. 2013 May 13;14(5):1687-95. doi: 10.1021/bm400369u. Epub 2013 Apr 22.PubMed [citation] PMID: 23560438

771. Zhao X, Ze Y, Gao G, Sang X, Li B, Gui S, Sheng L, Sun Q, Cheng J, Cheng Z, Hu R, Wang L, Hong F.Nanosized TiO2-induced reproductive system dysfunction and its mechanism in female mice.PLoS One. 2013;8(4):e59378. doi: 10.1371/journal.pone.0059378. Epub 2013 Apr 2.PubMed [citation] PMID: 23565150, PMCID: PMC3615008

772. Lu K, Goodwill PW, Saritas EU, Zheng B, Conolly SM.Linearity and shift invariance for quantitative magnetic particle imaging.IEEE Trans Med Imaging. 2013 Sep;32(9):1565-75. doi: 10.1109/TMI.2013.2257177. Epub 2013 Apr 5.PubMed [citation] PMID: 23568496, PMCID: PMC3839681

773. Paulo CS, Lino MM, Matos AA, Ferreira LS.Differential internalization of amphotericin B--conjugated nanoparticles in human cells and the expression of heat shock protein 70.Biomaterials. 2013 Jul;34(21):5281-93. doi:

10.1016/j.biomaterials.2013.03.048. Epub 2013 Apr 8.PubMed [citation] PMID: 23578560

774. Millon A, Dickson SD, Klink A, Izquierdo-Garcia D, Bini J, Lancelot E, Ballet S, Robert P, Mateo de Castro J, Corot C, Fayad ZA.Monitoring plaque inflammation in atherosclerotic rabbits with an iron oxide (P904) and (18)F-FDG using a combined PET/MR scanner.Atherosclerosis. 2013 Jun;228(2):339-45. doi: 10.1016/j.atherosclerosis.2013.03.019. Epub 2013 Mar 26.PubMed [citation] PMID: 23582588, PMCID: PMC4128694

775. Huang JB, Ding Y, Huang DS, Zeng WK, Guan ZP, Zhang ML.rna interference targeting p110β reduces tumor necrosis factor-alpha production in cellular response to wear particles in vitro and osteolysis in vivo.Inflammation. 2013 Oct;36(5):1041-54. doi: 10.1007/s10753-013-9636-9.PubMed [citation] PMID: 23584990

776. Kwon J, Kim J, Park S, Khang G, Kang PM, Lee D.Inflammation-responsive antioxidant nanoparticles based on a polymeric prodrug of vanillin.Biomacromolecules. 2013 May 13;14(5):1618-26. doi: 10.1021/bm400256h. Epub 2013 Apr 29.PubMed [citation] PMID: 23590189

777. Shi Q, Pisani LJ, Lee YK, Messing S, Ansari C, Bhaumik S, Lowery L, Lee BD, Meyer DE, Daldrup-Link HE.Evaluation of the novel USPIO GEH121333 for MR imaging of cancer immune responses.Contrast Media Mol Imaging. 2013 May-Jun;8(3):281-8. doi: 10.1002/cmmi.1526.PubMed [citation] PMID: 23606432, PMCID: PMC3662997

778. Yin L, Song Z, Qu Q, Kim KH, Zheng N, Yao C, Chaudhury I, Tang H, Gabrielson NP, Uckun FM, Cheng J.Supramolecular self-assembled nanoparticles mediate oral delivery of therapeutic TNF-α siRNA against systemic inflammation.Angew Chem Int Ed Engl. 2013 May 27;52(22):5757-61. doi: 10.1002/anie.201209991. Epub 2013 Apr 22. No abstract available. PubMed [citation] PMID: 23610013, PMCID: PMC3800743

779. Wang W, Luo M, Fu Y, Wang S, Efferth T, Zu Y.Glycyrrhizic acid nanoparticles inhibit LPS-induced inflammatory mediators in 264.7 mouse macrophages compared with unprocessed glycyrrhizic acid.Int J Nanomedicine. 2013;8:1377-83. doi: 10.2147/IJN.S37788. Epub 2013 Apr 12.PubMed [citation] PMID: 23610519, PMCID: PMC3629880

780. Muntian SO, Kryshen' VP, Liashchenko PV, Zadorozhniĭ VV, Haĭterov AM, Martemianov AV, Shkitak IaIa.[The sorption therapy in complex treatment of abdominal sepsis].Klin Khir. 2013 Jan;(1):74-5. Ukrainian. PubMed [citation] PMID: 23610952

781. Manunta MD, McAnulty RJ, McDowell A, Jin J, Ridout D, Fleming J, Bottoms SE, Tossici-Bolt L, Laurent GJ, Biassoni L, O'Callaghan C, Hart SL.Airway deposition of nebulized gene delivery nanocomplexes monitored by radioimaging agents.Am J Respir Cell Mol Biol. 2013 Sep;49(3):471-80. doi: 10.1165/rcmb.2013-0030OC.PubMed [citation] PMID: 23614789, PMCID: PMC3824056

782. Neely LA, Audeh M, Phung NA, Min M, Suchocki A, Plourde D, Blanco M, Demas V, Skewis LR, Anagnostou T, Coleman JJ, Wellman P, Mylonakis E, Lowery TJ.T2 magnetic resonance enables nanoparticle-mediated rapid detection of candidemia in

whole blood.Sci Transl Med. 2013 Apr 24;5(182):182ra54. doi: 10.1126/scitranslmed.3005377.PubMed [citation] PMID: 23616121

783. Sang X, Li B, Ze Y, Hong J, Ze X, Gui S, Sun Q, Liu H, Zhao X, Sheng L, Liu D, Yu X, Wang L, Hong F.Toxicological mechanisms of nanosized titanium dioxide-induced spleen injury in mice after repeated peroral application.J Agric Food Chem. 2013 Jun 12;61(23):5590-9. doi: 10.1021/jf3035989. Epub 2013 May 29.PubMed [citation] PMID: 23621103

784. Wang YX, Xuan S, Port M, Idee JM.Recent advances in superparamagnetic iron oxide nanoparticles for cellular imaging and targeted therapy research.Curr Pharm Des. 2013;19(37):6575-93. Review.PubMed [citation] PMID: 23621536, PMCID: PMC4082310

785. Bisson JF, Hidalgo-Lucas S, Bouschbacher M, Thomassin L.Effects of TLC-Ag dressings on skin inflammation.J Dermatol. 2013 Jun;40(6):463-70. doi: 10.1111/1346-8138.12149. Epub 2013 Apr 27.PubMed [citation] PMID: 23621779

786. Rattanapinyopituk K, Shimada A, Morita T, Togawa M, Hasegawa T, Seko Y, Inoue K, Takano H.Ultrastructural changes in the air-blood barrier in mice after intratracheal instillations of Asian sand dust and gold nanoparticles.Exp Toxicol Pathol. 2013 Nov;65(7-8):1043-51. doi: 10.1016/j.etp.2013.03.003. Epub 2013 Apr 26.PubMed [citation] PMID: 23623190

787. Alshatwi AA, Periasamy VS, Subash-Babu P, Alsaif MA, Alwarthan AA, Lei KA.CYP1A and POR gene mediated mitochondrial membrane damage induced by carbon nanoparticle in human mesenchymal stem cells.Environ Toxicol Pharmacol. 2013 Jul;36(1):215-22. doi: 10.1016/j.etap.2013.03.009. Epub 2013 Apr 3.PubMed [citation] PMID: 23624273

788. Xu H, Kona S, Su LC, Tsai YT, Dong JF, Brilakis ES, Tang L, Banerjee S, Nguyen KT.Multi-ligand poly(L-lactic-co-glycolic acid) nanoparticles inhibit activation of endothelial cells.J Cardiovasc Transl Res. 2013 Aug;6(4):570-8. doi: 10.1007/s12265-013-9460-5. Epub 2013 May 3.PubMed [citation] PMID: 23640308

789. Desai PR, Marepally S, Patel AR, Voshavar C, Chaudhuri A, Singh M.Topical delivery of anti-TNFα siRNA and capsaicin via novel lipid-polymer hybrid nanoparticles efficiently inhibits skin inflammation in vivo.J Control Release. 2013 Aug 28;170(1):51-63. doi: 10.1016/j.jconrel.2013.04.021. Epub 2013 May 3.PubMed [citation] PMID: 23643662, PMCID: PMC3759511

790. Xiang SD, Wilson K, Day S, Fuchsberger M, Plebanski M.Methods of effective conjugation of antigens to nanoparticles as non-inflammatory vaccine carriers.Methods. 2013 May 1;60(3):232-41. doi: 10.1016/j.ymeth.2013.03.036. Epub 2013 May 1.PubMed [citation] PMID: 23643867

791. Bonner JC, Silva RM, Taylor AJ, Brown JM, Hilderbrand SC, Castranova V, Porter D, Elder A, Oberdörster G, Harkema JR, Bramble LA, Kavanagh TJ, Botta D, Nel A, Pinkerton KE.Interlaboratory evaluation of rodent pulmonary responses to engineered nanomaterials: the NIEHS Nano GO Consortium.Environ Health Perspect. 2013 Jun;121(6):676-82. doi: 10.1289/ehp.1205693. Epub 2013 Apr 1.PubMed

[citation] PMID: 23649427, PMCID: PMC3672912

792. Xia T, Hamilton RF, Bonner JC, Crandall ED, Elder A, Fazlollahi F, Girtsman TA, Kim K, Mitra S, Ntim SA, Orr G, Tagmount M, Taylor AJ, Telesca D, Tolic A, Vulpe CD, Walker AJ, Wang X, Witzmann FA, Wu N, Xie Y, Zink JI, et al.Interlaboratory evaluation of in vitro cytotoxicity and inflammatory responses to engineered nanomaterials: the NIEHS Nano GO Consortium.Environ Health Perspect. 2013 Jun;121(6):683-90. doi: 10.1289/ehp.1306561. Epub 2013 Apr 1.PubMed [citation] PMID: 23649538, PMCID: PMC3672931

793. Shi WD, Cao W, Liu Y, Xu Y, Tao ZZ, Dai Q.[Construction of recombinant house dust mite group 1 allergen vaccine and study on immune response induced by nasal immunization].Zhonghua Er Bi Yan Hou Tou Jing Wai Ke Za Zhi. 2013 Jan;48(1):26-31. Chinese. PubMed [citation] PMID: 23656812

794. Tilton SC, Karin NJ, Tolic A, Xie Y, Lai X, Hamilton RF Jr, Waters KM, Holian A, Witzmann FA, Orr G.Three human cell types respond to multi-walled carbon nanotubes and titanium dioxide nanobelts with cell-specific transcriptomic and proteomic expression patterns.Nanotoxicology. 2014 Aug;8(5):533-48. doi: 10.3109/17435390.2013.803624. Epub 2013 Jun 7.PubMed [citation] PMID: 23659652, PMCID: PMC4226242

795. Sun K, Li Y, Lu Z, Zhang L, Gao Z, Jin Q.Suppression of titanium particle-induced TNF-alpha expression and apoptosis in human U937 macrophages by siRNA silencing.Int J Artif Organs. 2013 Jul;36(7):522-7. doi: 10.5301/ijao.5000218. Epub 2013 May 10.PubMed [citation] PMID: 23661556

796. Tamilvanan S, Baskar R.Effect of non-phospholipid-based cationic and phospholipid-based anionic nanosized emulsions on skin retention and anti-inflammatory activity of celecoxib.Pharm Dev Technol. 2013 Jul-Aug;18(4):761-71. doi: 10.3109/10837450.2011.586038.PubMed [citation] PMID: 23668371

797. Liu Q, Jin L, Shen FH, Balian G, Li XJ.Fullerol nanoparticles suppress inflammatory response and adipogenesis of vertebral bone marrow stromal cells--a potential novel treatment for intervertebral disc degeneration.Spine J. 2013 Nov;13(11):1571-80. doi: 10.1016/j.spinee.2013.04.004. Epub 2013 May 10.PubMed [citation] PMID: 23669123, PMCID: PMC3841235

798. Kim Y, Kong SD, Chen LH, Pisanic TR 2nd, Jin S, Shubayev VI.In vivo nanoneurotoxicity screening using oxidative stress and neuroinflammation paradigms.Nanomedicine. 2013 Oct;9(7):1057-66. doi: 10.1016/j.nano.2013.05.002. Epub 2013 May 10.PubMed [citation] PMID: 23669369, PMCID: PMC3783535

799. Blattes E, Vercellone A, Eutamène H, Turrin CO, Théodorou V, Majoral JP, Caminade AM, Prandi J, Nigou J, Puzo G.Mannodendrimers prevent acute lung inflammation by inhibiting neutrophil recruitment.Proc Natl Acad Sci U S A. 2013 May 28;110(22):8795-800. doi: 10.1073/pnas.1221708110. Epub 2013 May 13.PubMed [citation] PMID: 23671078, PMCID: PMC3670345

800. Yen FL, Tsai MH, Yang CM, Liang CJ, Lin CC, Chiang YC, Lee HC, Ko HH, Lee CW.Curcumin nanoparticles ameliorate ICAM-1 expression in TNF-α-treated lung epithelial cells through p47 (phox) and MAPKs/AP-1 pathways.PLoS One. 2013 May 9;8(5):e63845. doi: 10.1371/journal.pone.0063845. Print 2013.PubMed [citation] PMID: 23671702, PMCID: PMC3650060

801. Liu Y, Guo Y, An S, Kuang Y, He X, Ma H, Li J, Lu J, Zhang N, Jiang C.Targeting caspase-3 as dual therapeutic benefits by RNAi facilitating brain-targeted nanoparticles in a rat model of Parkinson's disease.PLoS One. 2013 May 13;8(5):e62905. doi: 10.1371/journal.pone.0062905. Print 2013. Erratum in: PLoS One. 2013;8(9). doi:10.1371/annotation/5f08fe1e-8868-421c-92ea-1a4aa987d11f. Lv, Jing [corrected to Lu, Jing]. PubMed [citation] PMID: 23675438, PMCID: PMC3652845

802. Leung K.Ultrasmall superparamagnetic iron oxide-cyclo(Cys-Asn-Asn-Ser-Lys-Ser-His-Thr-Cys).2013 Mar 03 [updated 2013 May 09]. Molecular Imaging and Contrast Agent Database (MICAD) [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2004-2013.PubMed [citation] PMID: 23678519

803. Gan L, Wang J, Zhao Y, Chen D, Zhu C, Liu J, Gan Y.Hyaluronan-modified core-shell liponanoparticles targeting CD44-positive retinal pigment epithelium cells via intravitreal injection.Biomaterials. 2013 Aug;34(24):5978-87. doi: 10.1016/j.biomaterials.2013.04.035. Epub 2013 May 13.PubMed [citation] PMID: 23680367

804. Whitehouse M, Butters D, Vernon-Roberts B.Conditional pharmacology/toxicology V: ambivalent effects of thiocyanate upon the development and the inhibition of experimental arthritis in rats by aurothiomalate (Myocrysin®) and metallic silver.Inflammopharmacology. 2013 Aug;21(4):291-300. doi: 10.1007/s10787-013-0173-9. Epub 2013 May 19. Review.PubMed [citation] PMID: 23686086

805. Beloqui A, Coco R, Alhouayek M, Solinís MÁ, Rodríguez-Gascón A, Muccioli GG, Préat V.Budesonide-loaded nanostructured lipid carriers reduce inflammation in murine DSS-induced colitis.Int J Pharm. 2013 Oct 1;454(2):775-83. doi: 10.1016/j.ijpharm.2013.05.017. Epub 2013 May 18.PubMed [citation] PMID: 23694806

806. Yang H, Zhao F, Li Y, Xu M, Li L, Wu C, Miyoshi H, Liu Y.VCAM-1-targeted core/shell nanoparticles for selective adhesion and delivery to endothelial cells with lipopolysaccharide-induced inflammation under shear flow and cellular magnetic resonance imaging in vitro.Int J Nanomedicine. 2013;8:1897-906. doi: 10.2147/IJN.S44997. Epub 2013 May 13.PubMed [citation] PMID: 23696701, PMCID: PMC3658441

807. Leung K.Polyethylene glycol–coated gold nanoshells conjugated with anti-VCAM-1 antibody.2013 Feb 28 [updated 2013 May 16]. Molecular Imaging and Contrast Agent Database (MICAD) [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2004-2013.PubMed [citation] PMID: 23700638

808. Zhang Y, Pan H, Zhang P, Gao N, Lin Y, Luo Z, Li P, Wang C, Liu L, Pang D, Cai L,

Ma Y.Functionalized quantum dots induce proinflammatory responses in vitro: the role of terminal functional group-associated endocytic pathways.Nanoscale. 2013 Jul 7;5(13):5919-29. doi: 10.1039/c3nr01653f. Epub 2013 May 24.PubMed [citation] PMID: 23703357

809. Hua S, Cabot PJ.Targeted nanoparticles that mimic immune cells in pain control inducing analgesic and anti-inflammatory actions: a potential novel treatment of acute and chronic pain condition.Pain Physician. 2013 May-Jun;16(3):E199-216.PubMed [citation] PMID: 23703419

810. Langereis S, Geelen T, Grüll H, Strijkers GJ, Nicolay K.Paramagnetic liposomes for molecular MRI and MRI-guided drug delivery.NMR Biomed. 2013 Jul;26(7):728-44. doi: 10.1002/nbm.2971. Epub 2013 May 23. Review. Erratum in: NMR Biomed. 2013 Sep;26(9):1195. PubMed [citation] PMID: 23703874

811. Barber PA.Magnetic resonance imaging of ischemia viability thresholds and the neurovascular unit.Sensors (Basel). 2013 May 27;13(6):6981-7003. doi: 10.3390/s130606981. Review.PubMed [citation] PMID: 23711462, PMCID: PMC3715273

812. Hougaard KS, Jackson P, Kyjovska ZO, Birkedal RK, De Temmerman PJ, Brunelli A, Verleysen E, Madsen AM, Saber AT, Pojana G, Mast J, Marcomini A, Jensen KA, Wallin H, Szarek J, Mortensen A, Vogel U.Effects of lung exposure to carbon nanotubes on female fertility and pregnancy. A study in mice.Reprod Toxicol. 2013 Nov;41:86-97. doi: 10.1016/j.reprotox.2013.05.006. Epub 2013 May 25.PubMed [citation] PMID: 23714338

813. Shah PN, Lin LY, Smolen JA, Tagaev JA, Gunsten SP, Han DS, Heo GS, Li Y, Zhang F, Zhang S, Wright BD, Panzner MJ, Youngs WJ, Brody SL, Wooley KL, Cannon CL.Synthesis, characterization, and in vivo efficacy of shell cross-linked nanoparticle formulations carrying silver antimicrobials as aerosolized therapeutics.ACS Nano. 2013 Jun 25;7(6):4977-87. doi: 10.1021/nn400322f. Epub 2013 Jun 4.PubMed [citation] PMID: 23718195, PMCID: PMC4287418

814. Wei J, Shi J, Zhang J, He G, Pan J, He J, Zhou R, Guo L, Ouyang L.Design, synthesis and biological evaluation of enzymatically cleavable NSAIDs prodrugs derived from self-immolative dendritic scaffolds for the treatment of inflammatory diseases.Bioorg Med Chem. 2013 Jul 15;21(14):4192-200. doi: 10.1016/j.bmc.2013.05.006. Epub 2013 May 15.PubMed [citation] PMID: 23719287

815. Leung K.Gadolinium-1,4,7,10-tetraazacyclododecane-N,N',N'',N'''-tetraacetic acid-icosahedral closo-borane(12) scaffold conjugated with Glu-{Glu-[cyclo(Arg-Gly-Asp-d-Phe-Lys)](2)}(2).2013 Apr 11 [updated 2013 May 30]. Molecular Imaging and Contrast Agent Database (MICAD) [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2004-2013.PubMed [citation] PMID: 23720861

816. Kikushima K, Kita S, Higuchi H.A non-invasive imaging for the in vivo tracking of high-speed vesicle transport in mouse neutrophils.Sci Rep. 2013;3:1913. doi: 10.1038/srep01913.PubMed [citation] PMID: 23722417, PMCID: PMC3668321

817. Seyfer P, Pagenstecher A, Mandic R, Klose KJ, Heverhagen JT.Cancer and inflammation: differentiation by USPIO-enhanced MR imaging.J Magn Reson Imaging. 2014 Mar;39(3):665-72. doi: 10.1002/jmri.24200. Epub 2013 May 30.PubMed [citation] PMID: 23723131

818. McConnachie LA, Botta D, White CC, Weldy CS, Wilkerson HW, Yu J, Dills R, Yu X, Griffith WC, Faustman EM, Farin FM, Gill SE, Parks WC, Hu X, Gao X, Eaton DL, Kavanagh TJ.The glutathione synthesis gene Gclm modulates amphiphilic polymer-coated CdSe/ZnS quantum dot-induced lung inflammation in mice.PLoS One. 2013 May 27;8(5):e64165. doi: 10.1371/journal.pone.0064165. Print 2013.PubMed [citation] PMID: 23724032, PMCID: PMC3664581

819. Babin K, Antoine F, Goncalves DM, Girard D.TiO2, CeO2 and ZnO nanoparticles and modulation of the degranulation process in human neutrophils.Toxicol Lett. 2013 Jul 31;221(1):57-63. doi: 10.1016/j.toxlet.2013.05.010. Epub 2013 May 30.PubMed [citation] PMID: 23726862

820. Schug TT, Nadadur SS, Johnson AF.Nano GO Consortium--a team science approach to assess engineered nanomaterials: reliable assays and methods.Environ Health Perspect. 2013 Jun;121(6):A176-7. doi: 10.1289/ehp.1306866. No abstract available. PubMed [citation] PMID: 23733101, PMCID: PMC3672932

821. Chuang HC, Juan HT, Chang CN, Yan YH, Yuan TH, Wang JS, Chen HC, Hwang YH, Lee CH, Cheng TJ.Cardiopulmonary toxicity of pulmonary exposure to occupationally relevant zinc oxide nanoparticles.Nanotoxicology. 2014 Sep;8(6):593-604. doi: 10.3109/17435390.2013.809809. Epub 2013 Jun 25.PubMed [citation] PMID: 23738974

822. Souto EB, Severino P, Basso R, Santana MH.Encapsulation of antioxidants in gastrointestinal-resistant nanoparticulate carriers.Methods Mol Biol. 2013;1028:37-46. doi: 10.1007/978-1-62703-475-3_3. Review.PubMed [citation] PMID: 23740112

823. Leung K.Gadolinium-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid-cinnamoyl-Phe-D-Leu-Phe-D-Leu-Phe-Lys-NH(2).2013 May 01 [updated 2013 Jun 06]. Molecular Imaging and Contrast Agent Database (MICAD) [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2004-2013.PubMed [citation] PMID: 23741763

824. Vega E, Egea MA, Garduño-Ramírez ML, García ML, Sánchez E, Espina M, Calpena AC.Flurbiprofen PLGA-PEG nanospheres: role of hydroxy-β-cyclodextrin on ex vivo human skin permeation and in vivo topical anti-inflammatory efficacy.Colloids Surf B Biointerfaces. 2013 Oct 1;110:339-46. doi: 10.1016/j.colsurfb.2013.04.045. Epub 2013 May 4.PubMed [citation] PMID: 23743255

825. Pagliari S, Romanazzo S, Mosqueira D, Pinto-do-Ó P, Aoyagi T, Forte G.Adult stem cells and biocompatible scaffolds as smart drug delivery tools for cardiac tissue repair.Curr Med Chem. 2013;20(28):3429-47. Review.PubMed [citation] PMID: 23745554

826. Rekha MR, Pal K, Bala P, Shetty M, Mittra I, Bhuvaneshwar GS, Sharma

CP.Pullulan-histone antibody nanoconjugates for the removal of chromatin fragments from systemic circulation.Biomaterials. 2013 Sep;34(27):6328-38. doi: 10.1016/j.biomaterials.2013.05.019. Epub 2013 Jun 5.PubMed [citation] PMID: 23746856

827. Kolhar P, Anselmo AC, Gupta V, Pant K, Prabhakarpandian B, Ruoslahti E, Mitragotri S.Using shape effects to target antibody-coated nanoparticles to lung and brain endothelium.Proc Natl Acad Sci U S A. 2013 Jun 25;110(26):10753-8. doi: 10.1073/pnas.1308345110. Epub 2013 Jun 10.PubMed [citation] PMID: 23754411, PMCID: PMC3696781

828. Wilhelmi V, Fischer U, Weighardt H, Schulze-Osthoff K, Nickel C, Stahlmecke B, Kuhlbusch TA, Scherbart AM, Esser C, Schins RP, Albrecht C.Zinc oxide nanoparticles induce necrosis and apoptosis in macrophages in a p47phox- and Nrf2-independent manner.PLoS One. 2013 Jun 3;8(6):e65704. doi: 10.1371/journal.pone.0065704. Print 2013.PubMed [citation] PMID: 23755271, PMCID: PMC3670863

829. Tian X, Zhu M, Du L, Wang J, Fan Z, Liu J, Zhao Y, Nie G.Intrauterine inflammation increases materno-fetal transfer of gold nanoparticles in a size-dependent manner in murine pregnancy.Small. 2013 Jul 22;9(14):2432-9. doi: 10.1002/smll.201300817. Epub 2013 Jun 13.PubMed [citation] PMID: 23761193

830. Gosens I, Mathijssen LE, Bokkers BG, Muijser H, Cassee FR.Comparative hazard identification of nano- and micro-sized cerium oxide particles based on 28-day inhalation studies in rats.Nanotoxicology. 2014 Sep;8(6):643-53. doi: 10.3109/17435390.2013.815814. Epub 2013 Jul 8.PubMed [citation] PMID: 23768316

831. Pradhan M, Singh D, Singh MR.Novel colloidal carriers for psoriasis: current issues, mechanistic insight and novel delivery approaches.J Control Release. 2013 Sep 28;170(3):380-95. doi: 10.1016/j.jconrel.2013.05.020. Epub 2013 Jun 13. Review.PubMed [citation] PMID: 23770117

832. Farrell BT, Hamilton BE, Dósa E, Rimely E, Nasseri M, Gahramanov S, Lacy CA, Frenkel EP, Doolittle ND, Jacobs PM, Neuwelt EA.Using iron oxide nanoparticles to diagnose CNS inflammatory diseases and PCNSL.Neurology. 2013 Jul 16;81(3):256-63. doi: 10.1212/WNL.0b013e31829bfd8f. Epub 2013 Jun 14.PubMed [citation] PMID: 23771486, PMCID: PMC3770167

833. Khan HA, Abdelhalim MA, Alhomida AS, Al-Ayed MS.Effects of naked gold nanoparticles on proinflammatory cytokines mRNA expression in rat liver and kidney.Biomed Res Int. 2013;2013:590730. doi: 10.1155/2013/590730. Epub 2013 May 26.PubMed [citation] PMID: 23781503, PMCID: PMC3677657

834. Arancibia R, Maturana C, Silva D, Tobar N, Tapia C, Salazar JC, Martínez J, Smith PC.Effects of chitosan particles in periodontal pathogens and gingival fibroblasts.J Dent Res. 2013 Aug;92(8):740-5. doi: 10.1177/0022034513494816. Epub 2013 Jun 20.PubMed [citation] PMID: 23788611

835. Gandhi S, Srinivasan BP, Akarte AS.An experimental assessment of toxic potential

of nanoparticle preparation of heavy metals in streptozotocin induced diabetes.Exp Toxicol Pathol. 2013 Nov;65(7-8):1127-35. doi: 10.1016/j.etp.2013.05.004. Epub 2013 Jun 20.PubMed [citation] PMID: 23790456

836. Di Mascolo D, J Lyon C, Aryal S, Ramirez MR, Wang J, Candeloro P, Guindani M, Hsueh WA, Decuzzi P.Rosiglitazone-loaded nanospheres for modulating macrophage-specific inflammation in obesity.J Control Release. 2013 Sep 28;170(3):460-8. doi: 10.1016/j.jconrel.2013.06.012. Epub 2013 Jun 18.PubMed [citation] PMID: 23791978, PMCID: PMC4076002

837. Liu Y, Xu Z, Li X.Cytotoxicity of titanium dioxide nanoparticles in rat neuroglia cells.Brain Inj. 2013;27(7-8):934-9. doi: 10.3109/02699052.2013.793401.PubMed [citation] PMID: 23789867

838. Potticary J.Using nanomedicine to resolve inflammation and prevent tissue damage.Nanomedicine (Lond). 2013 May;8(5):685. No abstract available. PubMed [citation] PMID: 23802268

839. Gamvrellis A, Gloster S, Jefferies M, Mottram PL, Smooker P, Plebanski M, Scheerlinck JP.Characterisation of local immune responses induced by a novel nano-particle based carrier-adjuvant in sheep.Vet Immunol Immunopathol. 2013 Sep 1;155(1-2):21-9. doi: 10.1016/j.vetimm.2013.05.015. Epub 2013 Jun 6.PubMed [citation] PMID: 23806674

840. Singh SP, Sharma M, Gupta PK.Enhancement of phototoxicity of curcumin in human oral cancer cells using silica nanoparticles as delivery vehicle.Lasers Med Sci. 2014 Mar;29(2):645-52. doi: 10.1007/s10103-013-1357-7. Epub 2013 Jun 27.PubMed [citation] PMID: 23807180

841. Kodali V, Littke MH, Tilton SC, Teeguarden JG, Shi L, Frevert CW, Wang W, Pounds JG, Thrall BD.Dysregulation of macrophage activation profiles by engineered nanoparticles.ACS Nano. 2013 Aug 27;7(8):6997-7010. doi: 10.1021/nn402145t. Epub 2013 Jul 9.PubMed [citation] PMID: 23808590, PMCID: PMC3756554

842. Brandenberger C, Rowley NL, Jackson-Humbles DN, Zhang Q, Bramble LA, Lewandowski RP, Wagner JG, Chen W, Kaplan BL, Kaminski NE, Baker GL, Worden RM, Harkema JR.Engineered silica nanoparticles act as adjuvants to enhance allergic airway disease in mice.Part Fibre Toxicol. 2013 Jul 1;10:26. doi: 10.1186/1743-8977-10-26.PubMed [citation] PMID: 23815813, PMCID: PMC3729411

843. Du Toit LC, Govender T, Carmichael T, Kumar P, Choonara YE, Pillay V.Design of an anti-inflammatory composite nanosystem and evaluation of its potential for ocular drug delivery.J Pharm Sci. 2013 Aug;102(8):2780-805. doi: 10.1002/jps.23650. Epub 2013 Jul 4.PubMed [citation] PMID: 23828405

844. Tsai YT, Zhou J, Weng H, Shen J, Tang L, Hu WJ.Real-time noninvasive monitoring of in vivo inflammatory responses using a pH ratiometric fluorescence imaging probe.Adv Healthc Mater. 2014 Feb;3(2):221-9. doi: 10.1002/adhm.201200365. Epub 2013 Jul 5.PubMed [citation] PMID: 23828849

845. Perconti S, Aceto GM, Verginelli F, Napolitano F, Petrarca C, Bernardini G, Raiconi G, Tagliaferri R, Sabbioni E, Di Gioacchino M, Mariani-Costantini R.Distinctive gene expression profiles in Balb/3T3 cells exposed to low dose cobalt nanoparticles, microparticles and ions: potential nanotoxicological relevance.J Biol Regul Homeost Agents. 2013 Apr-Jun;27(2):443-54.PubMed [citation] PMID: 23830394

846. Morral-Ruíz G, Melgar-Lesmes P, Solans C, García-Celma MJ.Multifunctional polyurethane-urea nanoparticles to target and arrest inflamed vascular environment: a potential tool for cancer therapy and diagnosis.J Control Release. 2013 Oct 28;171(2):163-71. doi: 10.1016/j.jconrel.2013.06.027. Epub 2013 Jul 2.PubMed [citation] PMID: 23831054

847. Sabzevari A, Adibkia K, Hashemi H, De Geest BG, Mohsenzadeh N, Atyabi F, Ghahremani MH, Khoshayand MR, Dinarvand R.Improved anti-inflammatory effects in rabbit eye model using biodegradable poly beta-amino ester nanoparticles of triamcinolone acetonide.Invest Ophthalmol Vis Sci. 2013 Aug 15;54(8):5520-6. doi: 10.1167/iovs.13-12296.PubMed [citation] PMID: 23833065

848. Nafee N, Youssef A, El-Gowelli H, Asem H, Kandil S.Antibiotic-free nanotherapeutics: hypericin nanoparticles thereof for improved in vitro and in vivo antimicrobial photodynamic therapy and wound healing.Int J Pharm. 2013 Sep 15;454(1):249-58. doi: 10.1016/j.ijpharm.2013.06.067. Epub 2013 Jul 5.PubMed [citation] PMID: 23834835

849. Yang M, Flavin K, Kopf I, Radics G, Hearnden CH, McManus GJ, Moran B, Villalta-Cerdas A, Echegoyen LA, Giordani S, Lavelle EC.Functionalization of carbon nanoparticles modulates inflammatory cell recruitment and NLRP3 inflammasome activation.Small. 2013 Dec 20;9(24):4194-206. doi: 10.1002/smll.201300481. Epub 2013 Jul 10.PubMed [citation] PMID: 23839951

850. Kumar S, Jana AK, Dhamija I, Singla Y, Maiti M.Preparation, characterization and targeted delivery of serratiopeptidase immobilized on amino-functionalized magnetic nanoparticles.Eur J Pharm Biopharm. 2013 Nov;85(3 Pt A):413-26. doi: 10.1016/j.ejpb.2013.06.019. Epub 2013 Jul 10.PubMed [citation] PMID: 23851102

851. Gasparotto J, Somensi N, Caregnato FF, Rabelo TK, DaBoit K, Oliveira ML, Moreira JC, Gelain DP.Coal and tire burning mixtures containing ultrafine and nanoparticulate materials induce oxidative stress and inflammatory activation in macrophages.Sci Total Environ. 2013 Oct 1;463-464:743-53. doi: 10.1016/j.scitotenv.2013.06.086. Epub 2013 Jul 13.PubMed [citation] PMID: 23856402

852. Chen T, Hu J, Chen C, Pu J, Cui X, Jia G.Cardiovascular effects of pulmonary exposure to titanium dioxide nanoparticles in ApoE knockout mice.J Nanosci Nanotechnol. 2013 May;13(5):3214-22.PubMed [citation] PMID: 23858833

853. Dukhin SS, Labib ME.Convective diffusion of nanoparticles from the epithelial barrier toward regional lymph nodes.Adv Colloid Interface Sci. 2013 Nov;199-200:23-43. doi: 10.1016/j.cis.2013.06.002. Epub 2013 Jun 10.

Review.PubMed [citation] PMID: 23859221, PMCID: PMC3804055

854. Chen J, Wang H, Long W, Shen X, Wu D, Song SS, Sun YM, Liu PX, Fan S, Fan F, Zhang XD.Sex differences in the toxicity of polyethylene glycol-coated gold nanoparticles in mice.Int J Nanomedicine. 2013;8:2409-19. doi: 10.2147/IJN.S46376. Epub 2013 Jul 4.PubMed [citation] PMID: 23861586, PMCID: PMC3707481

855. Lee D, Bae S, Hong D, Lim H, Yoon JH, Hwang O, Park S, Ke Q, Khang G, Kang PM.H2O2-responsive molecularly engineered polymer nanoparticles as ischemia/reperfusion-targeted nanotherapeutic agents.Sci Rep. 2013;3:2233. doi: 10.1038/srep02233.PubMed [citation] PMID: 23868607, PMCID: PMC3715762

856. Saptarshi SR, Duschl A, Lopata AL.Interaction of nanoparticles with proteins: relation to bio-reactivity of the nanoparticle.J Nanobiotechnology. 2013 Jul 19;11:26. doi: 10.1186/1477-3155-11-26. Review.PubMed [citation] PMID: 23870291, PMCID: PMC3720198

857. Paterniti I, Impellizzeri D, Di Paola R, Navarra M, Cuzzocrea S, Esposito E.A new co-ultramicronized composite including palmitoylethanolamide and luteolin to prevent neuroinflammation in spinal cord injury.J Neuroinflammation. 2013 Jul 23;10:91. doi: 10.1186/1742-2094-10-91.PubMed [citation] PMID: 23880066, PMCID: PMC3728012

858. Huang JY, Lu YM, Wang H, Liu J, Liao MH, Hong LJ, Tao RR, Ahmed MM, Liu P, Liu SS, Fukunaga K, Du YZ, Han F.The effect of lipid nanoparticle PEGylation on neuroinflammatory response in mouse brain.Biomaterials. 2013 Oct;34(32):7960-70. doi: 10.1016/j.biomaterials.2013.07.009. Epub 2013 Jul 21.PubMed [citation] PMID: 23880338

859. Klein SG, Serchi T, Hoffmann L, Blömeke B, Gutleb AC.An improved 3D tetraculture system mimicking the cellular organisation at the alveolar barrier to study the potential toxic effects of particles on the lung.Part Fibre Toxicol. 2013 Jul 26;10:31. doi: 10.1186/1743-8977-10-31.PubMed [citation] PMID: 23890538, PMCID: PMC3733942

860. Li Q, Hu X, Bai Y, Alattar M, Ma D, Cao Y, Hao Y, Wang L, Jiang C.The oxidative damage and inflammatory response induced by lead sulfide nanoparticles in rat lung.Food Chem Toxicol. 2013 Oct;60:213-7. doi: 10.1016/j.fct.2013.07.046. Epub 2013 Jul 25.PubMed [citation] PMID: 23891762

861. Chen F, Wan H, Xia T, Guo X, Wang H, Liu Y, Li X.Promoted regeneration of mature blood vessels by electrospun fibers with loaded multiple pDNA-calcium phosphate nanoparticles.Eur J Pharm Biopharm. 2013 Nov;85(3 Pt A):699-710. doi: 10.1016/j.ejpb.2013.07.009. Epub 2013 Jul 24.PubMed [citation] PMID: 23891771

862. Shah M, Edman MC, Janga SR, Shi P, Dhandhukia J, Liu S, Louie SG, Rodgers K, Mackay JA, Hamm-Alvarez SF.A rapamycin-binding protein polymer nanoparticle shows potent therapeutic activity in suppressing autoimmune dacryoadenitis in a mouse model of Sjögren's syndrome.J Control Release. 2013 Nov 10;171(3):269-79. doi:

10.1016/j.jconrel.2013.07.016. Epub 2013 Jul 25.PubMed [citation] PMID: 23892265, PMCID: PMC3796004

863. Saber AT, Lamson JS, Jacobsen NR, Ravn-Haren G, Hougaard KS, Nyendi AN, Wahlberg P, Madsen AM, Jackson P, Wallin H, Vogel U.Particle-induced pulmonary acute phase response correlates with neutrophil influx linking inhaled particles and cardiovascular risk.PLoS One. 2013 Jul 24;8(7):e69020. doi: 10.1371/journal.pone.0069020. Print 2013.PubMed [citation] PMID: 23894396, PMCID: PMC3722244

864. Pirela S, Molina R, Watson C, Cohen JM, Bello D, Demokritou P, Brain J.Effects of copy center particles on the lungs: a toxicological characterization using a Balb/c mouse model.Inhal Toxicol. 2013 Aug;25(9):498-508. doi: 10.3109/08958378.2013.806614. Epub 2013 Jul 29.PubMed [citation] PMID: 23895351, PMCID: PMC4393332

865. Sha S, Vong LB, Chonpathompikunlert P, Yoshitomi T, Matsui H, Nagasaki Y.Suppression of NSAID-induced small intestinal inflammation by orally administered redox nanoparticles.Biomaterials. 2013 Nov;34(33):8393-400. doi: 10.1016/j.biomaterials.2013.06.032. Epub 2013 Jul 27.PubMed [citation] PMID: 23896000

866. Bi L, Wehrung D, Oyewumi MO.Contributory roles of innate properties of cetyl alcohol/gelucire nanoparticles to antioxidant and anti-inflammation activities of quercetin.Drug Deliv Transl Res. 2013 Aug;3(4):318-29. doi: 10.1007/s13346-013-0130-6.PubMed [citation] PMID: 25788280

867. Yang C, Yang H, Wu J, Meng Z, Xing R, Tian A, Tian X, Guo L, Zhang Y, Nie G, Li Z.No overt structural or functional changes associated with PEG-coated gold nanoparticles accumulation with acute exposure in the mouse heart.Toxicol Lett. 2013 Oct 24;222(2):197-203. doi: 10.1016/j.toxlet.2013.07.018. Epub 2013 Jul 29.PubMed [citation] PMID: 23906719

868. Aalapati S, Ganapathy S, Manapuram S, Anumolu G, Prakya BM.Toxicity and bio-accumulation of inhaled cerium oxide nanoparticles in CD1 mice.Nanotoxicology. 2014 Nov;8(7):786-98. doi: 10.3109/17435390.2013.829877. Epub 2013 Aug 22.PubMed [citation] PMID: 23914771

869. Xiao JQ, Shi XL, Ma HC, Tan JJ, Lin-zhang, Xu Q, Ding YT.Administration of IL-1Ra chitosan nanoparticles enhances the therapeutic efficacy of mesenchymal stem cell transplantation in acute liver failure.Arch Med Res. 2013 Jul;44(5):370-9. doi: 10.1016/j.arcmed.2013.06.004. Epub 2013 Jul 31.PubMed [citation] PMID: 23916885

870. Krisanova N, Kasatkina L, Sivko R, Borysov A, Nazarova A, Slenzka K, Borisova T.Neurotoxic potential of lunar and martian dust: influence on em, proton gradient, active transport, and binding of glutamate in rat brain nerve terminals.Astrobiology. 2013 Aug;13(8):679-92. doi: 10.1089/ast.2012.0950. Epub 2013 Aug 6.PubMed [citation] PMID: 23919751, PMCID: PMC3746286

871. Gröger D, Paulus F, Licha K, Welker P, Weinhart M, Holzhausen C, Mundhenk L,

Gruber AD, Abram U, Haag R.Synthesis and biological evaluation of radio and dye labeled amino functionalized dendritic polyglycerol sulfates as multivalent anti-inflammatory compounds.Bioconjug Chem. 2013 Sep 18;24(9):1507-14. doi: 10.1021/bc400047f. Epub 2013 Aug 22.PubMed [citation] PMID: 23924212

872. Deda DK, Pavani C, Caritá E, Baptista MS, Toma HE, Araki K.Control of cytolocalization and mechanism of cell death by encapsulation of a photosensitizer.J Biomed Nanotechnol. 2013 Aug;9(8):1307-17.PubMed [citation] PMID: 23926796

873. Jeon JO, Kim S, Choi E, Shin K, Cha K, So IS, Kim SJ, Jun E, Kim D, Ahn HJ, Lee BH, Lee SH, Kim IS.Designed nanocage displaying ligand-specific Peptide bunches for high affinity and biological activity.ACS Nano. 2013 Sep 24;7(9):7462-71. doi: 10.1021/nn403184u. Epub 2013 Aug 13.PubMed [citation] PMID: 23927443

874. Yeo KB, Ha U, Jung YW, Kang TJ, Pack SP.Specific detection of inflamed cells using TLR1 antibody and its secondary antibody-conjugated nano-beads.Enzyme Microb Technol. 2013 Sep 10;53(4):223-8. doi: 10.1016/j.enzmictec.2013.06.001. Epub 2013 Jul 2.PubMed [citation] PMID: 23931686

875. Kim H, Park HT, Tae YM, Kong WH, Sung DK, Hwang BW, Kim KS, Kim YK, Hahn SK.Bioimaging and pulmonary applications of self-assembled Flt1 peptide-hyaluronic acid conjugate nanoparticles.Biomaterials. 2013 Nov;34(33):8478-90. doi: 10.1016/j.biomaterials.2013.07.062. Epub 2013 Aug 6.PubMed [citation] PMID: 23932502

876. Ebabe Elle R, Gaillet S, Vidé J, Romain C, Lauret C, Rugani N, Cristol JP, Rouanet JM.Dietary exposure to silver nanoparticles in Sprague-Dawley rats: effects on oxidative stress and inflammation.Food Chem Toxicol. 2013 Oct;60:297-301. doi: 10.1016/j.fct.2013.07.071. Epub 2013 Aug 6.PubMed [citation] PMID: 23933361

877. Wachsmann P, Moulari B, Béduneau A, Pellequer Y, Lamprecht A.Surfactant-dependence of nanoparticle treatment in murine experimental colitis.J Control Release. 2013 Nov 28;172(1):62-8. doi: 10.1016/j.jconrel.2013.07.031. Epub 2013 Aug 9.PubMed [citation] PMID: 23933520

878. Bear AS, Kennedy LC, Young JK, Perna SK, Mattos Almeida JP, Lin AY, Eckels PC, Drezek RA, Foster AE.Elimination of metastatic melanoma using gold nanoshell-enabled photothermal therapy and adoptive T cell transfer.PLoS One. 2013 Jul 23;8(7):e69073. doi: 10.1371/journal.pone.0069073. Print 2013.PubMed [citation] PMID: 23935927, PMCID: PMC3720863

879. Holl EK, Shumansky KL, Pitoc G, Ramsburg E, Sullenger BA.Nucleic acid scavenging polymers inhibit extracellular DNA-mediated innate immune activation without inhibiting anti-viral responses.PLoS One. 2013 Jul 23;8(7):e69413. doi: 10.1371/journal.pone.0069413. Print 2013.PubMed [citation] PMID: 23936008, PMCID: PMC3720614

880. Burton JO, Hamali HA, Singh R, Abbasian N, Parsons R, Patel AK, Goodall AH,

Brunskill NJ.Elevated levels of procoagulant plasma microvesicles in dialysis patients.PLoS One. 2013 Aug 2;8(8):e72663. doi: 10.1371/journal.pone.0072663. Print 2013.PubMed [citation] PMID: 23936542, PMCID: PMC3732282

881. Hasegawa U, van der Vlies AJ, Wandrey C, Hubbell JA.Preparation of well-defined ibuprofen prodrug micelles by RAFT polymerization.Biomacromolecules. 2013 Sep 9;14(9):3314-20. doi: 10.1021/bm4009149. Epub 2013 Aug 22.PubMed [citation] PMID: 23937521

882. Einbond LS, Mighty J, Redenti S, Wu HA.Actein induces calcium release in human breast cancer cells.Fitoterapia. 2013 Dec;91:28-38. doi: 10.1016/j.fitote.2013.07.025. Epub 2013 Aug 9.PubMed [citation] PMID: 23939423

883. Yokota S, Hori H, Umezawa M, Kubota N, Niki R, Yanagita S, Takeda K.Gene expression changes in the olfactory bulb of mice induced by exposure to diesel exhaust are dependent on animal rearing environment.PLoS One. 2013 Aug 5;8(8):e70145. doi: 10.1371/journal.pone.0070145. Print 2013.PubMed [citation] PMID: 23940539, PMCID: PMC3734019

884. Roberts JR, McKinney W, Kan H, Krajnak K, Frazer DG, Thomas TA, Waugh S, Kenyon A, MacCuspie RI, Hackley VA, Castranova V.Pulmonary and cardiovascular responses of rats to inhalation of silver nanoparticles.J Toxicol Environ Health A. 2013;76(11):651-68. doi: 10.1080/15287394.2013.792024.PubMed [citation] PMID: 23941635

885. Hossain SS, Hughes TJ, Decuzzi P.Vascular deposition patterns for nanoparticles in an inflamed patient-specific arterial tree.Biomech Model Mechanobiol. 2014 Jun;13(3):585-97. doi: 10.1007/s10237-013-0520-1. Epub 2013 Aug 14.PubMed [citation] PMID: 23942910, PMCID: PMC3925196

886. Chalouhi N, Jabbour P, Magnotta V, Hasan D.The emerging role of ferumoxytol-enhanced MRI in the management of cerebrovascular lesions.Molecules. 2013 Aug 13;18(8):9670-83. doi: 10.3390/molecules18089670. Review.PubMed [citation] PMID: 23945642

887. Pathak D, Kumar P, Kuppusamy G, Gupta A, Kamble B, Wadhwani A.Physicochemical characterization and toxicological evaluation of plant-based anionic polymers and their nanoparticulated system for ocular delivery.Nanotoxicology. 2014 Dec;8(8):843-55. doi: 10.3109/17435390.2013.834996. Epub 2013 Sep 18.PubMed [citation] PMID: 23952497

888. Mamontova TV, Mykytiuk MV, Bobrova NO, Kutsenko LO, Vesnina LE, Kaĭdashev IP.[The anti-inflammatory effect of fullerene C60 on adjuvant arthritis in rats].Fiziol Zh. 2013;59(3):102-10. Ukrainian. PubMed [citation] PMID: 23957171

889. Yoshitomi T, Ozaki Y, Thangavel S, Nagasaki Y.Redox nanoparticle therapeutics to cancer--increase in therapeutic effect of doxorubicin, suppressing its adverse effect.J Control Release. 2013 Nov 28;172(1):137-43. doi: 10.1016/j.jconrel.2013.08.011. Epub 2013 Aug 17.PubMed [citation] PMID: 23958903

890. Afzal E, Zakeri S, Keyhanvar P, Bagheri M, Mahjoubi P, Asadian M, Omoomi N, Dehqanian M, Ghalandarlaki N, Darvishmohammadi T, Farjadian F, Golvajoee MS, Afzal S, Ghaffari M, Cohan RA, Gravand A, Ardestani MS.Nanolipodendrosome-loaded glatiramer acetate and myogenic differentiation 1 as augmentation therapeutic strategy approaches in muscular dystrophy.Int J Nanomedicine. 2013;8:2943-60. doi: 10.2147/IJN.S43219. Epub 2013 Aug 8.PubMed [citation] PMID: 23966782, PMCID: PMC3743640

891. Neuhaus V, Schwarz K, Klee A, Seehase S, Förster C, Pfennig O, Jonigk D, Fieguth HG, Koch W, Warnecke G, Yusibov V, Sewald K, Braun A.Functional testing of an inhalable nanoparticle based influenza vaccine using a human precision cut lung slice technique.PLoS One. 2013;8(8):e71728. doi: 10.1371/journal.pone.0071728.PubMed [citation] PMID: 23967238, PMCID: PMC3742667

892. Gui S, Li B, Zhao X, Sheng L, Hong J, Yu X, Sang X, Sun Q, Ze Y, Wang L, Hong F.Renal injury and Nrf2 modulation in mouse kidney following chronic exposure to TiO_2 nanoparticles.J Agric Food Chem. 2013 Sep 18;61(37):8959-68. doi: 10.1021/jf402387e. Epub 2013 Sep 6.PubMed [citation] PMID: 23968166

893. Fuhrmann K, Połomska A, Aeberli C, Castagner B, Gauthier MA, Leroux JC.Modular design of redox-responsive stabilizers for nanocrystals.ACS Nano. 2013 Sep 24;7(9):8243-50. doi: 10.1021/nn4037317. Epub 2013 Aug 27.PubMed [citation] PMID: 23968310

894. Khatri M, Bello D, Pal AK, Cohen JM, Woskie S, Gassert T, Lan J, Gu AZ, Demokritou P, Gaines P.Evaluation of cytotoxic, genotoxic and inflammatory responses of nanoparticles from photocopiers in three human cell lines.Part Fibre Toxicol. 2013 Aug 22;10:42. doi: 10.1186/1743-8977-10-42.PubMed [citation] PMID: 23968360, PMCID: PMC3766213

895. Fang YS, Wang HY, Wang LS, Wang JF.Electrochemical immunoassay for procalcitonin antigen detection based on signal amplification strategy of multiple nanocomposites.Biosens Bioelectron. 2014 Jan 15;51:310-6. doi: 10.1016/j.bios.2013.07.035. Epub 2013 Jul 26.PubMed [citation] PMID: 23978454

896. Kyosseva SV, Chen L, Seal S, McGinnis JF.Nanoceria inhibit expression of genes associated with inflammation and angiogenesis in the retina of Vldlr null mice.Exp Eye Res. 2013 Nov;116:63-74. doi: 10.1016/j.exer.2013.08.003. Epub 2013 Aug 24.PubMed [citation] PMID: 23978600, PMCID: PMC4263290

897. Mohammed N, Rejinold NS, Mangalathillam S, Biswas R, Nair SV, Jayakumar R.Fluconazole loaded chitin nanogels as a topical ocular drug delivery agent for corneal fungal infections.J Biomed Nanotechnol. 2013 Sep;9(9):1521-31.PubMed [citation] PMID: 23980500

898. Huang L, Li L, Lemos H, Chandler PR, Pacholczyk G, Baban B, Barber GN, Hayakawa Y, McGaha TL, Ravishankar B, Munn DH, Mellor AL.Cutting edge: DNA sensing via the STING adaptor in myeloid dendritic cells induces potent tolerogenic responses.J Immunol. 2013 Oct 1;191(7):3509-13. doi: 10.4049/jimmunol.1301419. Epub 2013 Aug 28.PubMed [citation] PMID: 23986532, PMCID: PMC3788571

899. Das S, Dowding JM, Klump KE, McGinnis JF, Self W, Seal S.Cerium oxide nanoparticles: applications and prospects in nanomedicine.Nanomedicine (Lond). 2013 Sep;8(9):1483-508. doi: 10.2217/nnm.13.133. Review.PubMed [citation] PMID: 23987111

900. Waknine-Grinberg JH, Even-Chen S, Avichzer J, Turjeman K, Bentura-Marciano A, Haynes RK, Weiss L, Allon N, Ovadia H, Golenser J, Barenholz Y.Glucocorticosteroids in nano-sterically stabilized liposomes are efficacious for elimination of the acute symptoms of experimental cerebral malaria.PLoS One. 2013;8(8):e72722. doi: 10.1371/journal.pone.0072722.PubMed [citation] PMID: 23991146, PMCID: PMC3753236

901. Jeyadevi R, Sivasudha T, Rameshkumar A, Ananth DA, Aseervatham GS, Kumaresan K, Kumar LD, Jagadeeswari S, Renganathan R.Enhancement of anti arthritic effect of quercetin using thioglycolic acid-capped cadmium telluride quantum dots as nanocarrier in adjuvant induced arthritic Wistar rats.Colloids Surf B Biointerfaces. 2013 Dec 1;112:255-63. doi: 10.1016/j.colsurfb.2013.07.065. Epub 2013 Aug 8.PubMed [citation] PMID: 23994749

902. Miller YI, Tsimikas S.Oxidation-specific epitopes as targets for biotheranostic applications in humans: biomarkers, molecular imaging and therapeutics.Curr Opin Lipidol. 2013 Oct;24(5):426-37. doi: 10.1097/MOL.0b013e328364e85a. Review.PubMed [citation] PMID: 23995232, PMCID: PMC4085330

903. Jeong SH, Kim HJ, Ryu HJ, Ryu WI, Park YH, Bae HC, Jang YS, Son SW.ZnO nanoparticles induce TNF-α expression via ROS-ERK-Egr-1 pathway in human keratinocytes.J Dermatol Sci. 2013 Dec;72(3):263-73. doi: 10.1016/j.jdermsci.2013.08.002. Epub 2013 Aug 14.PubMed [citation] PMID: 24001789

904. Yang L, Yan Q, Zhao J, Li J, Zong X, Yang L, Wang Z.The role of potassium channel in silica nanoparticle-induced inflammatory effect in human vascular endothelial cells in vitro.Toxicol Lett. 2013 Oct 23;223(1):16-24. doi: 10.1016/j.toxlet.2013.08.017. Epub 2013 Aug 31.PubMed [citation] PMID: 24001805

905. Pérez-Campaña C, Gómez-Vallejo V, Puigivila M, Martin A, Calvo-Fernández T, Moya SE, Larsen ST, Gispert JD, Llop J.Assessing lung inflammation after nanoparticle inhalation using 2-deoxy-2-[18F]fluoro-D-glucose positron emission tomography imaging.Mol Imaging Biol. 2014 Apr;16(2):264-73. doi: 10.1007/s11307-013-0682-3.PubMed [citation] PMID: 24002615

906. Worthington KL, Adamcakova-Dodd A, Wongrakpanich A, Mudunkotuwa IA, Mapuskar KA, Joshi VB, Allan Guymon C, Spitz DR, Grassian VH, Thorne PS, Salem AK.Chitosan coating of copper nanoparticles reduces in vitro toxicity and increases inflammation in the lung.Nanotechnology. 2013 Oct 4;24(39):395101. doi: 10.1088/0957-4484/24/39/395101. Epub 2013 Sep 5.PubMed [citation] PMID: 24008224, PMCID: PMC3816956

907. Ittrich H, Peldschus K, Raabe N, Kaul M, Adam G.Superparamagnetic iron oxide nanoparticles in biomedicine: applications and developments in diagnostics and

therapy.Rofo. 2013 Dec;185(12):1149-66. doi: 10.1055/s-0033-1335438. Epub 2013 Sep 5. Review.PubMed [citation] PMID: 24008761

908. Rodrigues NF, van Tilburg Bernardes E, Rocha RP, da Costa LC, Coutinho AC, dos Santos Muniz M, Pereira AA, da Silva PH, Malaquias LC, Coelho LF.Bovine serum albumin nanoparticle vaccine reduces lung pathology induced by live Pseudomonas aeruginosa infection in mice.Vaccine. 2013 Oct 17;31(44):5062-6. doi: 10.1016/j.vaccine.2013.08.078. Epub 2013 Sep 7.PubMed [citation] PMID: 24021308

909. Xiao JQ, Shi XL, Tan JJ, Zhang L, Xu Q, Ding YT.[A novel treatment regimen for acute liver failure based on a combination of mesenchymal stem cells transplantation and IL-lRa-loaded chitosan nanoparticles].Zhonghua Gan Zang Bing Za Zhi. 2013 Apr;21(4):308-14. doi: 10.3760/cma.j.issn.1007-3418.2013.04.016. Chinese. PubMed [citation] PMID: 24021796

910. Nygaard UC, Samuelsen M, Marioara CD, Løvik M.Carbon nanofibers have IgE adjuvant capacity but are less potent than nanotubes in promoting allergic airway responses.Biomed Res Int. 2013;2013:476010. doi: 10.1155/2013/476010. Epub 2013 Aug 19.PubMed [citation] PMID: 24024193, PMCID: PMC3760273

911. Jain S, Doshi AS, Iyer AK, Amiji MM.Multifunctional nanoparticles for targeting cancer and inflammatory diseases.J Drug Target. 2013 Dec;21(10):888-903. doi: 10.3109/1061186X.2013.832769. Epub 2013 Sep 12. Review.PubMed [citation] PMID: 24024598

912. Jiang T, Tian F, Zheng H, Whitman SA, Lin Y, Zhang Z, Zhang N, Zhang DD.Nrf2 suppresses lupus nephritis through inhibition of oxidative injury and the NF-κB-mediated inflammatory response.Kidney Int. 2014 Feb;85(2):333-43. doi: 10.1038/ki.2013.343. Epub 2013 Sep 11.PubMed [citation] PMID: 24025640, PMCID: PMC3992978

913. Laroui H, Geem D, Xiao B, Viennois E, Rakhya P, Denning T, Merlin D.Targeting intestinal inflammation with CD98 siRNA/PEI-loaded nanoparticles.Mol Ther. 2014 Jan;22(1):69-80. doi: 10.1038/mt.2013.214. Epub 2013 Sep 12.PubMed [citation] PMID: 24025751, PMCID: PMC3978807

914. Manke A, Wang L, Rojanasakul Y.Mechanisms of nanoparticle-induced oxidative stress and toxicity.Biomed Res Int. 2013;2013:942916. doi: 10.1155/2013/942916. Epub 2013 Aug 20.PubMed [citation] PMID: 24027766, PMCID: PMC3762079

915. Kumon H, Matsuura E, Nagaoka N, Yamamoto T, Uehara S, Araki M, Matsunami Y, Kobayashi K, Matsumoto A.Ectopic calcification: importance of common nanoparticle scaffolds containing oxidized acidic lipids.Nanomedicine. 2014 Feb;10(2):441-50. doi: 10.1016/j.nano.2013.08.010. Epub 2013 Sep 9.PubMed [citation] PMID: 24028895

916. Zhang ZY, Daniels R, Schluesener HJ.Oridonin ameliorates neuropathological changes and behavioural deficits in a mouse model of cerebral amyloidosis.J Cell Mol Med. 2013 Dec;17(12):1566-76. doi: 10.1111/jcmm.12124. Epub 2013 Sep 5.PubMed [citation] PMID: 24034629, PMCID: PMC3914648

917. Saquib Q, Al-Khedhairy AA, Ahmad J, Siddiqui MA, Dwivedi S, Khan ST, Musarrat J.Zinc ferrite nanoparticles activate IL-1b, NFKB1, CCL21 and NOS2 signaling to induce mitochondrial dependent intrinsic apoptotic pathway in WISH cells.Toxicol Appl Pharmacol. 2013 Dec 1;273(2):289-97. doi: 10.1016/j.taap.2013.09.001. Epub 2013 Sep 10.PubMed [citation] PMID: 24035972

918. Wang X, Ji Z, Chang CH, Zhang H, Wang M, Liao YP, Lin S, Meng H, Li R, Sun B, Winkle LV, Pinkerton KE, Zink JI, Xia T, Nel AE.Use of coated silver nanoparticles to understand the relationship of particle dissolution and bioavailability to cell and lung toxicological potential.Small. 2014 Jan 29;10(2):385-98. doi: 10.1002/smll.201301597. Epub 2013 Aug 27.PubMed [citation] PMID: 24039004, PMCID: PMC4001734

919. Khatri M, Bello D, Pal AK, Woskie S, Gassert TH, Demokritou P, Gaines P.Toxicological effects of PM0.25-2.0 particles collected from a photocopy center in three human cell lines.Inhal Toxicol. 2013 Sep;25(11):621-32. doi: 10.3109/08958378.2013.824525.PubMed [citation] PMID: 24044678

920. Dumortier H.When carbon nanotubes encounter the immune system: desirable and undesirable effects.Adv Drug Deliv Rev. 2013 Dec;65(15):2120-6. doi: 10.1016/j.addr.2013.09.005. Epub 2013 Sep 20. Review.PubMed [citation] PMID: 24056183

921. De Astis S, Corradini I, Morini R, Rodighiero S, Tomasoni R, Lenardi C, Verderio C, Milani P, Matteoli M.Nanostructured TiO2 surfaces promote polarized activation of microglia, but not astrocytes, toward a proinflammatory profile.Nanoscale. 2013 Nov 21;5(22):10963-74. doi: 10.1039/c3nr03534d. Epub 2013 Sep 24.PubMed [citation] PMID: 24065287

922. Guo X, Xia T, Wang H, Chen F, Cheng R, Luo X, Li X.Electrosprayed microparticles with loaded pDNA-calcium phosphate nanoparticles to promote the regeneration of mature blood vessels.Pharm Res. 2014 Apr;31(4):874-86. doi: 10.1007/s11095-013-1209-y. Epub 2013 Sep 25.PubMed [citation] PMID: 24065597

923. Freeley M, Long A.Advances in siRNA delivery to T-cells: potential clinical applications for inflammatory disease, cancer and infection.Biochem J. 2013 Oct 15;455(2):133-47. doi: 10.1042/BJ20130950.PubMed [citation] PMID: 24070422

924. Lin YJ, Yang JY, Shu TY, Lin TY, Chen YY, Su MY, Li WJ, Liu MY.Detection of C-reactive protein based on magnetic nanoparticles and capillary zone electrophoresis with laser-induced fluorescence detection.J Chromatogr A. 2013 Nov 8;1315:188-94. doi: 10.1016/j.chroma.2013.09.042. Epub 2013 Sep 17.PubMed [citation] PMID: 24075015

925. Tsukahara T, Matsuda Y, Usui Y, Haniu H.Highly purified, multi-wall carbon nanotubes induce light-chain 3B expression in human lung cells.Biochem Biophys Res Commun. 2013 Oct 18;440(2):348-53. doi: 10.1016/j.bbrc.2013.09.089. Epub 2013 Sep 25.PubMed [citation] PMID: 24076389

926. Bourdon JA, Saber AT, Jacobsen NR, Williams A, Vogel U, Wallin H, Halappanavar S,

Yauk CL.Carbon black nanoparticle intratracheal instillation does not alter cardiac gene expression.Cardiovasc Toxicol. 2013 Dec;13(4):406-12.PubMed [citation] PMID: 24078381

927. Hsiao IL, Huang YJ.Effects of serum on cytotoxicity of nano- and micro-sized ZnO particles.J Nanopart Res. 2013;15:1829. Epub 2013 Aug 27.PubMed [citation] PMID: 24078789, PMCID: PMC3782657

928. Morimoto Y, Oyabu T, Horie M, Kambara T, Izumi H, Kuroda E, Creutzenberg O, Bellmann B, Pohlmann G, Schuchardt S, Hansen T, Ernst H.Pulmonary toxicity of printer toner following inhalation and intratracheal instillation.Inhal Toxicol. 2013 Oct;25(12):679-90. doi: 10.3109/08958378.2013.835010.PubMed [citation] PMID: 24102468

929. Wen S, Liu DF, Cui Y, Harris SS, Chen YC, Li KC, Ju SH, Teng GJ.In vivo MRI detection of carotid atherosclerotic lesions and kidney inflammation in ApoE-deficient mice by using LOX-1 targeted iron nanoparticles.Nanomedicine. 2014 Apr;10(3):639-49. doi: 10.1016/j.nano.2013.09.009. Epub 2013 Oct 5.PubMed [citation] PMID: 24103305

930. Moquin A, Hutter E, Choi AO, Khatchadourian A, Castonguay A, Winnik FM, Maysinger D.Caspase-1 activity in microglia stimulated by pro-inflammagen nanocrystals.ACS Nano. 2013 Nov 26;7(11):9585-98. doi: 10.1021/nn404473g. Epub 2013 Oct 15.PubMed [citation] PMID: 24107183

931. Vesterdal LK, Danielsen PH, Folkmann JK, Jespersen LF, Aguilar-Pelaez K, Roursgaard M, Loft S, Møller P.Accumulation of lipids and oxidatively damaged DNA in hepatocytes exposed to particles.Toxicol Appl Pharmacol. 2014 Jan 15;274(2):350-60. doi: 10.1016/j.taap.2013.10.001. Epub 2013 Oct 11.PubMed [citation] PMID: 24121055

932. Hardy CL, Lemasurier JS, Mohamud R, Yao J, Xiang SD, Rolland JM, O'Hehir RE, Plebanski M.Differential uptake of nanoparticles and microparticles by pulmonary APC subsets induces discrete immunological imprints.J Immunol. 2013 Nov 15;191(10):5278-90. doi: 10.4049/jimmunol.1203131. Epub 2013 Oct 11.PubMed [citation] PMID: 24123688

933. Storey P, Arbini AA.Bone marrow uptake of ferumoxytol: a preliminary study in healthy human subjects.J Magn Reson Imaging. 2014 Jun;39(6):1401-10. doi: 10.1002/jmri.24320. Epub 2013 Oct 10.PubMed [citation] PMID: 24123697, PMCID: PMC3983192

934. Zhao L, Wei Y, Huang Y, He B, Zhou Y, Fu J.Nanoemulsion improves the oral bioavailability of baicalin in rats: in vitro and in vivo evaluation.Int J Nanomedicine. 2013;8:3769-79. doi: 10.2147/IJN.S51578. Epub 2013 Oct 2.PubMed [citation] PMID: 24124365, PMCID: PMC3794992

935. Tanaka M, Takano H, Fujitani Y, Hirano S, Ichinose T, Shimada A, Inoue KI.Effects of exposure to nanoparticle-rich diesel exhaust on 8-OHdG synthesis in the mouse asthmatic lung.Exp Ther Med. 2013 Sep;6(3):703-706. Epub 2013 Jul 2.PubMed

[citation] PMID: 24137251, PMCID: PMC3786854

936. Singh AK, Jiang Y, Gupta S, Younus M, Ramzan M.Anti-inflammatory potency of nano-formulated puerarin and curcumin in rats subjected to the lipopolysaccharide-induced inflammation.J Med Food. 2013 Oct;16(10):899-911. doi: 10.1089/jmf.2012.0049.PubMed [citation] PMID: 24138167

937. Papa S, Rossi F, Ferrari R, Mariani A, De Paola M, Caron I, Fiordaliso F, Bisighini C, Sammali E, Colombo C, Gobbi M, Canovi M, Lucchetti J, Peviani M, Morbidelli M, Forloni G, Perale G, Moscatelli D, Veglianese P.Selective nanovector mediated treatment of activated proinflammatory microglia/macrophages in spinal cord injury.ACS Nano. 2013 Nov 26;7(11):9881-95. doi: 10.1021/nn4036014. Epub 2013 Oct 18.PubMed [citation] PMID: 24138479

938. Godinho BM, McCarthy DJ, Torres-Fuentes C, Beltrán CJ, McCarthy J, Quinlan A, Ogier JR, Darcy R, O'Driscoll CM, Cryan JF.Differential nanotoxicological and neuroinflammatory liabilities of non-viral vectors for RNA interference in the central nervous system.Biomaterials. 2014 Jan;35(1):489-99. doi: 10.1016/j.biomaterials.2013.09.068. Epub 2013 Oct 16.PubMed [citation] PMID: 24138827

939. Caretti A, Bragonzi A, Facchini M, De Fino I, Riva C, Gasco P, Musicanti C, Casas J, Fabriàs G, Ghidoni R, Signorelli P.Anti-inflammatory action of lipid nanocarrier-delivered myriocin: therapeutic potential in cystic fibrosis.Biochim Biophys Acta. 2014 Jan;1840(1):586-94. doi: 10.1016/j.bbagen.2013.10.018. Epub 2013 Oct 18.PubMed [citation] PMID: 24141140, PMCID: PMC4097882

940. Lin YC, Lin LY, Gao MY, Fang YP.Mesoporous silica nanoparticles synthesized from liquid crystal display manufacturing extracts as a potential candidate for a drug delivery carrier: evaluation of their safety and biocompatibility.Int J Nanomedicine. 2013;8:3833-42. doi: 10.2147/IJN.S50991. Epub 2013 Oct 11.PubMed [citation] PMID: 24143088, PMCID: PMC3798147

941. McKiernan PJ, Cunningham O, Greene CM, Cryan SA.Targeting miRNA-based medicines to cystic fibrosis airway epithelial cells using nanotechnology.Int J Nanomedicine. 2013;8:3907-15. doi: 10.2147/IJN.S47551. Epub 2013 Oct 11.PubMed [citation] PMID: 24143095, PMCID: PMC3798151

942. Lee SJ, Lee A, Hwang SR, Park JS, Jang J, Huh MS, Jo DG, Yoon SY, Byun Y, Kim SH, Kwon IC, Youn I, Kim K.TNF-α gene silencing using polymerized siRNA/thiolated glycol chitosan nanoparticles for rheumatoid arthritis.Mol Ther. 2014 Feb;22(2):397-408. doi: 10.1038/mt.2013.245. Epub 2013 Oct 22.PubMed [citation] PMID: 24145554, PMCID: PMC3916041

943. Kumar S, Jana AK, Dhamija I, Maiti M.Chitosan-assisted immobilization of serratiopeptidase on magnetic nanoparticles, characterization and its target delivery.J Drug Target. 2014 Feb;22(2):123-37. doi: 10.3109/1061186X.2013.844157. Epub 2013 Oct 23.PubMed [citation] PMID: 24148085

944. Tournebize J, Sapin-Minet A, Bartosz G, Leroy P, Boudier A.Pitfalls of assays

devoted to evaluation of oxidative stress induced by inorganic nanoparticles.Talanta. 2013 Nov 15;116:753-63. doi: 10.1016/j.talanta.2013.07.077. Epub 2013 Aug 7. Review.PubMed [citation] PMID: 24148470

945. Lu Z, Roohani-Esfahani SI, Zreiqat H.Mimicking bone microenvironment for directing adipose tissue-derived mesenchymal stem cells into osteogenic differentiation.Methods Mol Biol. 2014;1202:161-71. doi: 10.1007/7651_2013_38.PubMed [citation] PMID: 24155231

946. Cho WS, Duffin R, Bradley M, Megson IL, MacNee W, Lee JK, Jeong J, Donaldson K.Predictive value of in vitro assays depends on the mechanism of toxicity of metal oxide nanoparticles.Part Fibre Toxicol. 2013 Oct 25;10(1):55. doi: 10.1186/1743-8977-10-55.PubMed [citation] PMID: 24156363, PMCID: PMC4016420

947. Silva RM, Teesy C, Franzi L, Weir A, Westerhoff P, Evans JE, Pinkerton KE.Biological response to nano-scale titanium dioxide (TiO2): role of particle dose, shape, and retention.J Toxicol Environ Health A. 2013;76(16):953-72. doi: 10.1080/15287394.2013.826567.PubMed [citation] PMID: 24156719, PMCID: PMC4370163

948. Malhotra M, Tomaro-Duchesneau C, Saha S, Prakash S.Systemic siRNA Delivery via Peptide-Tagged Polymeric Nanoparticles, Targeting PLK1 Gene in a Mouse Xenograft Model of Colorectal Cancer.Int J Biomater. 2013;2013:252531. doi: 10.1155/2013/252531. Epub 2013 Sep 15.PubMed [citation] PMID: 24159333, PMCID: PMC3789392

949. Bilthariya U, Jain N, Rajoriya V, Jain AK.Folate-conjugated albumin nanoparticles for rheumatoid arthritis-targeted delivery of etoricoxib.Drug Dev Ind Pharm. 2015 Jan;41(1):95-104. doi: 10.3109/03639045.2013.850705. Epub 2013 Oct 28.PubMed [citation] PMID: 24164469

950. Bianchi A, Dufort S, Lux F, Courtois A, Tillement O, Coll JL, Crémillieux Y.Quantitative biodistribution and pharmacokinetics of multimodal gadolinium-based nanoparticles for lungs using ultrashort TE MRI.MAGMA. 2014 Aug;27(4):303-16. doi: 10.1007/s10334-013-0412-5. Epub 2013 Oct 30.PubMed [citation] PMID: 24170416

951. Jahangiri L, Kesmati M, Najafzadeh H.Evaluation of analgesic and anti-inflammatory effect of nanoparticles of magnesium oxide in mice with and without ketamine.Eur Rev Med Pharmacol Sci. 2013 Oct;17(20):2706-10.PubMed [citation] PMID: 24174350

952. Pund S, Borade G, Rasve G.Improvement of anti-inflammatory and anti-angiogenic activity of berberine by novel rapid dissolving nanoemulsifying technique.Phytomedicine. 2014 Feb 15;21(3):307-14. doi: 10.1016/j.phymed.2013.09.013. Epub 2013 Oct 28.PubMed [citation] PMID: 24176841

953. Laskar A, Eilertsen J, Li W, Yuan XM.SPION primes THP1 derived M2 macrophages towards M1-like macrophages.Biochem Biophys Res Commun. 2013 Nov 29;441(4):737-42. doi: 10.1016/j.bbrc.2013.10.115. Epub 2013 Oct 30.PubMed

[citation] PMID: 24184477

954. Li X, Aldayel AM, Cui Z.Aluminum hydroxide nanoparticles show a stronger vaccine adjuvant activity than traditional aluminum hydroxide microparticles.J Control Release. 2014 Jan 10;173:148-57. doi: 10.1016/j.jconrel.2013.10.032. Epub 2013 Nov 1.PubMed [citation] PMID: 24188959, PMCID: PMC3918952

955. Wang J, Jiang A, Joshi M, Christoforidis J.Drug delivery implants in the treatment of vitreous inflammation.Mediators Inflamm. 2013;2013:780634. doi: 10.1155/2013/780634. Epub 2013 Sep 28. Review.PubMed [citation] PMID: 24191132, PMCID: PMC3804444

956. Gonçalves DM, Girard D.Evidence that polyhydroxylated C60 fullerenes (fullerenols) amplify the effect of lipopolysaccharides to induce rapid leukocyte infiltration in vivo.Chem Res Toxicol. 2013 Dec 16;26(12):1884-92. doi: 10.1021/tx4002622. Epub 2013 Nov 14.PubMed [citation] PMID: 24191652

957. Raghnaill MN, Bramini M, Ye D, Couraud PO, Romero IA, Weksler B, Åberg C, Salvati A, Lynch I, Dawson KA.Paracrine signalling of inflammatory cytokines from an in vitro blood brain barrier model upon exposure to polymeric nanoparticles.Analyst. 2014 Mar 7;139(5):923-30. doi: 10.1039/c3an01621h. Epub 2013 Nov 5.PubMed [citation] PMID: 24195103

958. Bungart BL, Dong L, Sobek D, Sun GY, Yao G, Lee JC.Nanoparticle-emitted light attenuates amyloid-β-induced superoxide and inflammation in astrocytes.Nanomedicine. 2014 Jan;10(1):15-7. doi: 10.1016/j.nano.2013.10.007. Epub 2013 Nov 4.PubMed [citation] PMID: 24200521, PMCID: PMC3895489

959. Al-Rasheed NM, Faddah LM, Mohamed AM, Abdel Baky NA, Al-Rasheed NM, Mohammad RA.Potential impact of quercetin and idebenone against immuno- inflammatory and oxidative renal damage induced in rats by titanium dioxide nanoparticles toxicity.J Oleo Sci. 2013;62(11):961-71.PubMed [citation] PMID: 24200945

960. Kenyon NJ, Bratt JM, Lee J, Luo J, Franzi LM, Zeki AA, Lam KS.Self-assembling nanoparticles containing dexamethasone as a novel therapy in allergic airways inflammation.PLoS One. 2013;8(10):e77730. doi: 10.1371/journal.pone.0077730.PubMed [citation] PMID: 24204939, PMCID: PMC3808398

961. Chen J, Pan H, Lanza GM, Wickline SA.Perfluorocarbon nanoparticles for physiological and molecular imaging and therapy.Adv Chronic Kidney Dis. 2013 Nov;20(6):466-78. doi: 10.1053/j.ackd.2013.08.004. Review.PubMed [citation] PMID: 24206599, PMCID: PMC4074885

962. Thurman JM, Serkova NJ.Nanosized contrast agents to noninvasively detect kidney inflammation by magnetic resonance imaging.Adv Chronic Kidney Dis. 2013 Nov;20(6):488-99. doi: 10.1053/j.ackd.2013.06.001. Review.PubMed [citation] PMID: 24206601, PMCID: PMC3828648

963. Narayanan KB, Park HH.Pleiotropic functions of antioxidant nanoparticles for longevity and medicine.Adv Colloid Interface Sci. 2013 Dec;201-202:30-42. doi:

10.1016/j.cis.2013.10.008. Epub 2013 Oct 16. Review.PubMed [citation] PMID: 24206941

964. Shvedova AA, Yanamala N, Kisin ER, Tkach AV, Murray AR, Hubbs A, Chirila MM, Keohavong P, Sycheva LP, Kagan VE, Castranova V.Long-term effects of carbon containing engineered nanomaterials and asbestos in the lung: one year postexposure comparisons.Am J Physiol Lung Cell Mol Physiol. 2014 Jan;306(2):L170-82. doi: 10.1152/ajplung.00167.2013. Epub 2013 Nov 8.PubMed [citation] PMID: 24213921, PMCID: PMC3920208

965. Madl AK, Plummer LE, Carosino C, Pinkerton KE.Nanoparticles, lung injury, and the role of oxidant stress.Annu Rev Physiol. 2014;76:447-65. doi: 10.1146/annurev-physiol-030212-183735. Epub 2013 Nov 6. Review.PubMed [citation] PMID: 24215442

966. Gasper WJ, Jimenez CA, Walker J, Conte MS, Seward K, Owens CD.Adventitial nab-rapamycin injection reduces porcine femoral artery luminal stenosis induced by balloon angioplasty via inhibition of medial proliferation and adventitial inflammation.Circ Cardiovasc Interv. 2013 Dec;6(6):701-9. doi: 10.1161/CIRCINTERVENTIONS.113.000195. Epub 2013 Nov 12.PubMed [citation] PMID: 24221390, PMCID: PMC3888086

967. Zhang T, Bai X, Mao X.Systemic delivery of small interfering RNA targeting the interleukin-2/15 receptor β chain prevents disease progression in experimental arthritis.PLoS One. 2013;8(11):e78619. doi: 10.1371/journal.pone.0078619.PubMed [citation] PMID: 24223832, PMCID: PMC3818483

968. Papa S, Ferrari R, De Paola M, Rossi F, Mariani A, Caron I, Sammali E, Peviani M, Dell'Oro V, Colombo C, Morbidelli M, Forloni G, Perale G, Moscatelli D, Veglianese P.Polymeric nanoparticle system to target activated microglia/macrophages in spinal cord injury.J Control Release. 2014 Jan 28;174:15-26. doi: 10.1016/j.jconrel.2013.11.001. Epub 2013 Nov 10.PubMed [citation] PMID: 24225226, PMCID: PMC4142089

969. Dragovic RA, Southcombe JH, Tannetta DS, Redman CW, Sargent IL.Multicolor flow cytometry and nanoparticle tracking analysis of extracellular vesicles in the plasma of normal pregnant and pre-eclamptic women.Biol Reprod. 2013 Dec 26;89(6):151. doi: 10.1095/biolreprod.113.113266. Print 2013 Dec.PubMed [citation] PMID: 24227753

970. Klyachko NL, Haney MJ, Zhao Y, Manickam DS, Mahajan V, Suresh P, Hingtgen SD, Mosley RL, Gendelman HE, Kabanov AV, Batrakova EV.Macrophages offer a paradigm switch for CNS delivery of therapeutic proteins.Nanomedicine (Lond). 2014 Jul;9(9):1403-22. doi: 10.2217/nnm.13.115. Epub 2013 Nov 18.PubMed [citation] PMID: 24237263, PMCID: PMC4025996

971. Eaton VL, Vasquez KO, Goings GE, Hunter ZN, Peterson JD, Miller SD.Optical tomographic imaging of near infrared imaging agents quantifies disease severity and immunomodulation of experimental autoimmune encephalomyelitis in vivo.J Neuroinflammation. 2013 Nov 15;10:138. doi: 10.1186/1742-2094-10-138.PubMed

[citation] PMID: 24237884, PMCID: PMC4225609

972. Poirier M, Simard JC, Antoine F, Girard D.Interaction between silver nanoparticles of 20 nm (AgNP20) and human neutrophils: induction of apoptosis and inhibition of de novo protein synthesis by AgNP20 aggregates.J Appl Toxicol. 2014 Apr;34(4):404-12. doi: 10.1002/jat.2956. Epub 2013 Nov 15.PubMed [citation] PMID: 24243556

973. Hwang TL, Sung CT, Aljuffali IA, Chang YT, Fang JY.Cationic surfactants in the form of nanoparticles and micelles elicit different human neutrophil responses: a toxicological study.Colloids Surf B Biointerfaces. 2014 Feb 1;114:334-41. doi: 10.1016/j.colsurfb.2013.10.021. Epub 2013 Oct 29. Erratum in: Colloids Surf B Biointerfaces. 2015 Feb 1;126:649. PubMed [citation] PMID: 24246197

974. Kumar V, Mundra V, Mahato RI.Nanomedicines of Hedgehog inhibitor and PPAR-γ agonist for treating liver fibrosis.Pharm Res. 2014 May;31(5):1158-69. doi: 10.1007/s11095-013-1239-5. Epub 2013 Nov 19.PubMed [citation] PMID: 24249038

975. Korani M, Rezayat SM, Arbabi Bidgoli S.Sub-chronic Dermal Toxicity of Silver Nanoparticles in Guinea Pig: Special Emphasis to Heart, Bone and Kidney Toxicities.Iran J Pharm Res. 2013 Summer;12(3):511-9.PubMed [citation] PMID: 24250657, PMCID: PMC3813275

976. Sun B, Ji Z, Liao YP, Wang M, Wang X, Dong J, Chang CH, Li R, Zhang H, Nel AE, Xia T.Engineering an effective immune adjuvant by designed control of shape and crystallinity of aluminum oxyhydroxide nanoparticles.ACS Nano. 2013 Dec 23;7(12):10834-49. doi: 10.1021/nn404211j. Epub 2013 Dec 2.PubMed [citation] PMID: 24261790, PMCID: PMC3899397

977. Frozza RL, Bernardi A, Hoppe JB, Meneghetti AB, Battastini AM, Pohlmann AR, Guterres SS, Salbego C.Lipid-core nanocapsules improve the effects of resveratrol against Abeta-induced neuroinflammation.J Biomed Nanotechnol. 2013 Dec;9(12):2086-104.PubMed [citation] PMID: 24266263

978. Dasgupta S, Ghosh SK, Ray S, Kaurav SS, Mazumder B.In vitro & in vivo studies on lornoxicam loaded nanoemulsion gels for topical application.Curr Drug Deliv. 2014;11(1):132-8.PubMed [citation] PMID: 24266509

979. Mohamud R, Xiang SD, Selomulya C, Rolland JM, O'Hehir RE, Hardy CL, Plebanski M.The effects of engineered nanoparticles on pulmonary immune homeostasis.Drug Metab Rev. 2014 May;46(2):176-90. doi: 10.3109/03602532.2013.859688. Epub 2013 Nov 25. Review.PubMed [citation] PMID: 24266511

980. Li W, Li H, Yao H, Mu Q, Zhao G, Li Y, Hu H, Niu X.Pharmacokinetic and anti-inflammatory effects of sanguinarine solid lipid nanoparticles.Inflammation. 2014 Apr;37(2):632-8. doi: 10.1007/s10753-013-9779-8.PubMed [citation] PMID: 24272172

981. Wiesinger A, Peters W, Chappell D, Kentrup D, Reuter S, Pavenstädt H, Oberleithner H, Kümpers P.Nanomechanics of the endothelial glycocalyx in

experimental sepsis.PLoS One. 2013;8(11):e80905. doi: 10.1371/journal.pone.0080905.PubMed [citation] PMID: 24278345, PMCID: PMC3835794

982. Kwon S, Yang YS, Yang HS, Lee J, Kang MS, Lee BS, Lee K, Song CW.Nasal and pulmonary toxicity of titanium dioxide nanoparticles in rats.Toxicol Res. 2012 Dec;28(4):217-24. doi: 10.5487/TR.2012.28.4.217.PubMed [citation] PMID: 24278613, PMCID: PMC3834427

983. Gamal-Eldeen AM, El-Daly SM, Borai IH, Wafay HA, Abdel-Ghaffar AR.Photodynamic therapeutic effect of indocyanine green entrapped in polymeric nanoparticles and their anti-EGFR-conjugate in skin cancer in CD1 mice.Photodiagnosis Photodyn Ther. 2013 Dec;10(4):446-59. doi: 10.1016/j.pdpdt.2013.03.013. Epub 2013 Apr 30.PubMed [citation] PMID: 24284098

984. Chuang HC, Hsiao TC, Wu CK, Chang HH, Lee CH, Chang CC, Cheng TJ; Taiwan CardioPulmonary Research Group (T-CPR).Allergenicity and toxicology of inhaled silver nanoparticles in allergen-provocation mice models.Int J Nanomedicine. 2013;8:4495-506. doi: 10.2147/IJN.S52239. Epub 2013 Nov 22.PubMed [citation] PMID: 24285922, PMCID: PMC3841295

985. Villarreal-Calderon R, Franco-Lira M, González-Maciel A, Reynoso-Robles R, Harritt L, Pérez-Guillé B, Ferreira-Azevedo L, Drecktrah D, Zhu H, Sun Q, Torres-Jardón R, Aragón-Flores M, Calderón-Garcidueñas A, Diaz P, Calderón-Garcidueñas L.Up-regulation of mRNA ventricular PRNP prion protein gene expression in air pollution highly exposed young urbanites: endoplasmic reticulum stress, glucose regulated protein 78, and nanosized particles.Int J Mol Sci. 2013 Nov 28;14(12):23471-91. doi: 10.3390/ijms141223471.PubMed [citation] PMID: 24287918, PMCID: PMC3876057

986. Luo Z, Hu Y, Xin R, Zhang B, Li J, Ding X, Hou Y, Yang L, Cai K.Surface functionalized mesoporous silica nanoparticles with natural proteins for reduced immunotoxicity.J Biomed Mater Res A. 2014 Nov;102(11):3781-94. doi: 10.1002/jbm.a.35049. Epub 2013 Dec 9.PubMed [citation] PMID: 24288246

987. Arya A, Sethy NK, Singh SK, Das M, Bhargava K.Cerium oxide nanoparticles protect rodent lungs from hypobaric hypoxia-induced oxidative stress and inflammation.Int J Nanomedicine. 2013;8:4507-20. doi: 10.2147/IJN.S53032. Epub 2013 Nov 21.PubMed [citation] PMID: 24294000, PMCID: PMC3839803

988. Liao HY, Chung YT, Lai CH, Wang SL, Chiang HC, Li LA, Tsou TC, Li WF, Lee HL, Wu WT, Lin MH, Hsu JH, Ho JJ, Chen CJ, Shih TS, Lin CC, Liou SH.Six-month follow-up study of health markers of nanomaterials among workers handling engineered nanomaterials.Nanotoxicology. 2014 Aug;8 Suppl 1:100-10. doi: 10.3109/17435390.2013.858793. Epub 2013 Dec 3.PubMed [citation] PMID: 24295335

989. Caddeo C, Díez-Sales O, Pons R, Fernàndez-Busquets X, Fadda AM, Manconi M.Topical anti-inflammatory potential of quercetin in lipid-based nanosystems: in vivo and in vitro evaluation.Pharm Res. 2014 Apr;31(4):959-68. doi: 10.1007/s11095-013-1215-0. Epub 2013 Dec 3.PubMed [citation] PMID: 24297068

990. de Barros AL, Chacko AM, Mikitsh JL, Al Zaki A, Salavati A, Saboury B, Tsourkas A, Alavi A.Assessment of global cardiac uptake of radiolabeled iron oxide nanoparticles in apolipoprotein-E-deficient mice: implications for imaging cardiovascular inflammation.Mol Imaging Biol. 2014 Jun;16(3):330-9. doi: 10.1007/s11307-013-0709-9.PubMed [citation] PMID: 24297372, PMCID: PMC4016162

991. Khan HA, Abdelhalim MA, Alhomida AS, Al Ayed MS.Transient increase in IL-1β, IL-6 and TNF-α gene expression in rat liver exposed to gold nanoparticles.Genet Mol Res. 2013 Nov 22;12(4):5851-7. doi: 10.4238/2013.November.22.12.PubMed [citation] PMID: 24301954

992. Ortega VA, Katzenback BA, Stafford JL, Belosevic M, Goss GG.Effects of polymer-coated metal oxide nanoparticles on goldfish (Carassius auratus L.) neutrophil viability and function.Nanotoxicology. 2015 Feb;9:23-33. doi: 10.3109/17435390.2013.861943. Epub 2013 Dec 9.PubMed [citation] PMID: 24313973

993. Roy R, Kumar S, Tripathi A, Das M, Dwivedi PD.Interactive threats of nanoparticles to the biological system.Immunol Lett. 2014 Mar-Apr;158(1-2):79-87. doi: 10.1016/j.imlet.2013.11.019. Epub 2013 Dec 4. Review.PubMed [citation] PMID: 24316409

994. Orndorff RL, Hong N, Yu K, Feinstein SI, Zern BJ, Fisher AB, Muzykantov VR, Chatterjee S.NOX2 in lung inflammation: quantum dot based in situ imaging of NOX2-mediated expression of vascular cell adhesion molecule-1.Am J Physiol Lung Cell Mol Physiol. 2014 Feb;306(3):L260-8. doi: 10.1152/ajplung.00278.2013. Epub 2013 Dec 6.PubMed [citation] PMID: 24318114, PMCID: PMC3920203

995. Jaruszewski KM, Curran GL, Swaminathan SK, Rosenberg JT, Grant SC, Ramakrishnan S, Lowe VJ, Poduslo JF, Kandimalla KK.Multimodal nanoprobes to target cerebrovascular amyloid in Alzheimer's disease brain.Biomaterials. 2014 Feb;35(6):1967-76. doi: 10.1016/j.biomaterials.2013.10.075. Epub 2013 Dec 9.PubMed [citation] PMID: 24331706, PMCID: PMC3970424

996. Hernandez ME, Rembao JD, Hernandez-Baltazar D, Castillo-Rodriguez RA, Tellez-Lopez VM, Flores-Martinez YM, Orozco-Barrios CE, Rubio HA, Sánchez-García A, Ayala-Davila J, Arango-Rodriguez ML, Pavón L, Mejia-Castillo T, Forgez P, Martinez-Fong D.Safety of the intravenous administration of neurotensin-polyplex nanoparticles in BALB/c mice.Nanomedicine. 2014 May;10(4):745-54. doi: 10.1016/j.nano.2013.11.013. Epub 2013 Dec 10.PubMed [citation] PMID: 24333586

997. Alivov Y, Baturin P, Le HQ, Ducote J, Molloi S.Optimization of K-edge imaging for vulnerable plaques using gold nanoparticles and energy resolved photon counting detectors: a simulation study.Phys Med Biol. 2014 Jan 6;59(1):135-52. doi: 10.1088/0031-9155/59/1/135. Epub 2013 Dec 13.PubMed [citation] PMID: 24334301, PMCID: PMC3962835

998. Yoshitomi T, Sha S, Vong LB, Chonpathompikunlert P, Matsui H, Nagasaki Y.Indomethacin-loaded redox nanoparticles improve oral bioavailability of indomethacin and suppress its small intestinal inflammation.Ther Deliv. 2014 Jan;5(1):29-38. doi: 10.4155/tde.13.133.PubMed [citation] PMID: 24341815

999. Pu KM, Sava P, Gonzalez AL.Microvascular targets for anti-fibrotic therapeutics.Yale J Biol Med. 2013 Dec 13;86(4):537-54. Review.PubMed [citation] PMID: 24348218, PMCID: PMC3848109

1000. Courties G, Heidt T, Sebas M, Iwamoto Y, Jeon D, Truelove J, Tricot B, Wojtkiewicz G, Dutta P, Sager HB, Borodovsky A, Novobrantseva T, Klebanov B, Fitzgerald K, Anderson DG, Libby P, Swirski FK, Weissleder R, Nahrendorf M.In vivo silencing of the transcription factor IRF5 reprograms the macrophage phenotype and improves infarct healing.J Am Coll Cardiol. 2014 Apr 22;63(15):1556-66. doi: 10.1016/j.jacc.2013.11.023. Epub 2013 Dec 18.PubMed [citation] PMID: 24361318, PMCID: PMC3992176

1001. Roy R, Parashar V, Chauhan LK, Shanker R, Das M, Tripathi A, Dwivedi PD.Mechanism of uptake of ZnO nanoparticles and inflammatory responses in macrophages require PI3K mediated MAPKs signaling.Toxicol In Vitro. 2014 Apr;28(3):457-67. doi: 10.1016/j.tiv.2013.12.004. Epub 2013 Dec 22.PubMed [citation] PMID: 24368203

1002. Trickler WJ, Lantz-McPeak SM, Robinson BL, Paule MG, Slikker W Jr, Biris AS, Schlager JJ, Hussain SM, Kanungo J, Gonzalez C, Ali SF.Porcine brain microvessel endothelial cells show pro-inflammatory response to the size and composition of metallic nanoparticles.Drug Metab Rev. 2014 May;46(2):224-31. doi: 10.3109/03602532.2013.873450. Epub 2013 Dec 31. Review.PubMed [citation] PMID: 24378227

1003. Świdwińska-Gajewska AM, Czerczak S.[Titanium dioxide nanoparticles--biological effects].Med Pr. 2014;65(5):651-63. Polish. PubMed [citation] PMID: 25812394

1004. Jiang YN, Mo HY, Ren H.[Effect of emodin lipid nano-microbubble on MAPK signal pathway and inflammation cytokine in AT-II cells by mechanical stretch].Zhong Yao Cai. 2013 Jun;36(6):967-71. Chinese. PubMed [citation] PMID: 24380287

1005. Golestani R, Sadeghi MM.Emergence of molecular imaging of aortic aneurysm: implications for risk stratification and management.J Nucl Cardiol. 2014 Apr;21(2):251-67; quiz 268-70. doi: 10.1007/s12350-013-9845-5. Epub 2014 Jan 1. Review.PubMed [citation] PMID: 24381115, PMCID: PMC3991015

1006. Sauer UG, Vogel S, Aumann A, Hess A, Kolle SN, Ma-Hock L, Wohlleben W, Dammann M, Strauss V, Treumann S, Gröters S, Wiench K, van Ravenzwaay B, Landsiedel R.Applicability of rat precision-cut lung slices in evaluating nanomaterial cytotoxicity, apoptosis, oxidative stress, and inflammation.Toxicol Appl Pharmacol. 2014 Apr 1;276(1):1-20. doi: 10.1016/j.taap.2013.12.017. Epub 2013 Dec 29.PubMed [citation] PMID: 24382512

1007. Ma Q, Cieng QL, Ao QG, Yin YY, Wen J, Qi Y, Zhang Y, Sheng RS.[Protective effect of sodium ferulate magnetic nanoparticle in septic kidney injury rats].Zhongguo Ying Yong Sheng Li Xue Za Zhi. 2013 Sep;29(5):465-8. Chinese. PubMed [citation] PMID: 24386830

1008. Pu HL, Chiang WL, Maiti B, Liao ZX, Ho YC, Shim MS, Chuang EY, Xia Y, Sung

HW.Nanoparticles with dual responses to oxidative stress and reduced ph for drug release and anti-inflammatory applications.ACS Nano. 2014 Feb 25;8(2):1213-21. doi: 10.1021/nn4058787. Epub 2014 Jan 13.PubMed [citation] PMID: 24386907

1009. Narayanan S, Pavithran M, Viswanath A, Narayanan D, Mohan CC, Manzoor K, Menon D.Sequentially releasing dual-drug-loaded PLGA-casein core/shell nanomedicine: design, synthesis, biocompatibility and pharmacokinetics.Acta Biomater. 2014 May;10(5):2112-24. doi: 10.1016/j.actbio.2013.12.041. Epub 2013 Dec 31.PubMed [citation] PMID: 24389318

1010. Nagai N, Ito Y.Therapeutic effects of gel ointments containing tranilast nanoparticles on paw edema in adjuvant-induced arthritis rats.Biol Pharm Bull. 2014;37(1):96-104.PubMed [citation] PMID: 24389486

1011. Chen Y, Molnár M, Li L, Friberg P, Gan LM, Brismar H, Fu Y.Characterization of VCAM-1-binding peptide-functionalized quantum dots for molecular imaging of inflamed endothelium.PLoS One. 2013;8(12):e83805. doi: 10.1371/journal.pone.0083805.PubMed [citation] PMID: 24391829, PMCID: PMC3877406

1012. Heo MB, Cho MY, Lim YT.Polymer nanoparticles for enhanced immune response: combined delivery of tumor antigen and small interference RNA for immunosuppressive gene to dendritic cells.Acta Biomater. 2014 May;10(5):2169-76. doi: 10.1016/j.actbio.2013.12.050. Epub 2014 Jan 4.PubMed [citation] PMID: 24394635

1013. Jurek SC, Hirano-Kobayashi M, Chiang H, Kohane DS, Matthews BD.Prevention of ventilator-induced lung edema by inhalation of nanoparticles releasing ruthenium red.Am J Respir Cell Mol Biol. 2014 Jun;50(6):1107-17. doi: 10.1165/rcmb.2013-0163OC.PubMed [citation] PMID: 24405281, PMCID: PMC4068911

1014. Solberg NO, Chamberlin R, Vigil JR, Deck LM, Heidrich JE, Brown DC, Brady CI, Vander Jagt TA, Garwood M, Bisoffi M, Severns V, Vander Jagt DL, Sillerud LO.Optical and SPION-enhanced MR imaging shows that trans-stilbene inhibitors of NF-κB concomitantly lower Alzheimer's disease plaque formation and microglial activation in AβPP/PS-1 transgenic mouse brain.J Alzheimers Dis. 2014;40(1):191-212. doi: 10.3233/JAD-131031.PubMed [citation] PMID: 24413613

1015. Wu WT, Liao HY, Chung YT, Li WF, Tsou TC, Li LA, Lin MH, Ho JJ, Wu TN, Liou SH.Effect of nanoparticles exposure on fractional exhaled nitric oxide (FENO) in workers exposed to nanomaterials.Int J Mol Sci. 2014 Jan 9;15(1):878-94. doi: 10.3390/ijms15010878.PubMed [citation] PMID: 24413755, PMCID: PMC3907844

1016. Zimmer CC, Liu YX, Morgan JT, Yang G, Wang KH, Kennedy IM, Barakat AI, Liu GY.New approach to investigate the cytotoxicity of nanomaterials using single cell mechanics.J Phys Chem B. 2014 Feb 6;118(5):1246-55. doi: 10.1021/jp410764f. Epub 2014 Jan 23.PubMed [citation] PMID: 24417356, PMCID: PMC3980960

1017. Blum JL, Rosenblum LK, Grunig G, Beasley MB, Xiong JQ, Zelikoff JT.Short-term inhalation of cadmium oxide nanoparticles alters pulmonary dynamics associated with lung injury, inflammation, and repair in a mouse model.Inhal Toxicol. 2014

Jan;26(1):48-58. doi: 10.3109/08958378.2013.851746.PubMed [citation] PMID: 24417406, PMCID: PMC4041479

1018. Guo X, Zhang X, Ye L, Zhang Y, Ding R, Hao Y, Zhao Y, Zhang Z, Zhang Y.Inhalable microspheres embedding chitosan-coated PLGA nanoparticles for 2-methoxyestradiol.J Drug Target. 2014 Jun;22(5):421-7. doi: 10.3109/1061186X.2013.878944. Epub 2014 Jan 13.PubMed [citation] PMID: 24417740

1019. Nagai N, Ono H, Hashino M, Ito Y, Okamoto N, Shimomura Y.Improved corneal toxicity and permeability of tranilast by the preparation of ophthalmic formulations containing its nanoparticles.J Oleo Sci. 2014;63(2):177-86. Epub 2014 Jan 14.PubMed [citation] PMID: 24420060

1020. Shen Y, Shrestha R, Ibricevic A, Gunsten SP, Welch MJ, Wooley KL, Brody SL, Taylor JS, Liu Y.Antisense peptide nucleic acid-functionalized cationic nanocomplex for in vivo mRNA detection.Interface Focus. 2013 Jun 6;3(3):20120059. doi: 10.1098/rsfs.2012.0059.PubMed [citation] PMID: 24427537, PMCID: PMC3638413

1021. Lu XY, Li MC, Zhu XL, Fan F, Wang LL, Ma JG.Microbial synthesized biodegradable PHBHHxPEG hybrid copolymer as an efficient intracellular delivery nanocarrier for kinase inhibitor.BMC Biotechnol. 2014 Jan 18;14:4. doi: 10.1186/1472-6750-14-4.PubMed [citation] PMID: 24438107, PMCID: PMC3909372

1022. Chen YC, Tsai CY, Lee CY, Lin IN.In vitro and in vivo evaluation of ultrananocrystalline diamond as an encapsulation layer for implantable microchips.Acta Biomater. 2014 May;10(5):2187-99. doi: 10.1016/j.actbio.2014.01.014. Epub 2014 Jan 15.PubMed [citation] PMID: 24440422

1023. Suk JS, Kim AJ, Trehan K, Schneider CS, Cebotaru L, Woodward OM, Boylan NJ, Boyle MP, Lai SK, Guggino WB, Hanes J.Lung gene therapy with highly compacted DNA nanoparticles that overcome the mucus barrier.J Control Release. 2014 Mar 28;178:8-17. doi: 10.1016/j.jconrel.2014.01.007. Epub 2014 Jan 14.PubMed [citation] PMID: 24440664, PMCID: PMC3951606

1024. Cauchard S, Bertrand F, Barrier-Battut I, Jacquet S, Laurentie M, Barbey C, Laugier C, Deville S, Cauchard J.Assessment of the safety and immunogenicity of Rhodococcus equi-secreted proteins combined with either a liquid nanoparticle (IMS 3012) or a polymeric (PET GEL A) water-based adjuvant in adult horses and foals--identification of promising new candidate antigens.Vet Immunol Immunopathol. 2014 Feb 15;157(3-4):164-74. doi: 10.1016/j.vetimm.2013.12.003. Epub 2013 Dec 17.PubMed [citation] PMID: 24445196

1025. Duivenvoorden R, Tang J, Cormode DP, Mieszawska AJ, Izquierdo-Garcia D, Ozcan C, Otten MJ, Zaidi N, Lobatto ME, van Rijs SM, Priem B, Kuan EL, Martel C, Hewing B, Sager H, Nahrendorf M, Randolph GJ, Stroes ES, Fuster V, Fisher EA, Fayad ZA, Mulder WJ.A statin-loaded reconstituted high-density lipoprotein nanoparticle inhibits atherosclerotic plaque inflammation.Nat Commun. 2014;5:3065. doi: 10.1038/ncomms4065. Erratum in: Nat Commun. 2014;5:3531. PubMed [citation] PMID: 24445279, PMCID: PMC4001802

1026. Paulus F, Schulze R, Steinhilber D, Zieringer M, Steinke I, Welker P, Licha K, Wedepohl S, Dernedde J, Haag R.The effect of polyglycerol sulfate branching on inflammatory processes.Macromol Biosci. 2014 May;14(5):643-54. doi: 10.1002/mabi.201300420. Epub 2014 Jan 21.PubMed [citation] PMID: 24446246

1027. Weissleder R, Nahrendorf M, Pittet MJ.Imaging macrophages with nanoparticles.Nat Mater. 2014 Feb;13(2):125-38. doi: 10.1038/nmat3780. Review.PubMed [citation] PMID: 24452356

1028. Haberl N, Hirn S, Wenk A, Diendorf J, Epple M, Johnston BD, Krombach F, Kreyling WG, Schleh C.Cytotoxic and proinflammatory effects of PVP-coated silver nanoparticles after intratracheal instillation in rats.Beilstein J Nanotechnol. 2013 Dec 19;4:933-40. doi: 10.3762/bjnano.4.105.PubMed [citation] PMID: 24455451, PMCID: PMC3896256

1029. Unger RE, Peters K, Sartoris A, Freese C, Kirkpatrick CJ.Human endothelial cell-based assay for endotoxin as sensitive as the conventional Limulus Amebocyte Lysate assay.Biomaterials. 2014 Mar;35(10):3180-7. doi: 10.1016/j.biomaterials.2013.12.059. Epub 2014 Jan 21.PubMed [citation] PMID: 24456607

1030. Baisch BL, Corson NM, Wade-Mercer P, Gelein R, Kennell AJ, Oberdörster G, Elder A.Equivalent titanium dioxide nanoparticle deposition by intratracheal instillation and whole body inhalation: the effect of dose rate on acute respiratory tract inflammation.Part Fibre Toxicol. 2014 Jan 24;11:5. doi: 10.1186/1743-8977-11-5.PubMed [citation] PMID: 24456852, PMCID: PMC3905288

1031. Domínguez-Villegas V, Clares-Naveros B, García-López ML, Calpena-Campmany AC, Bustos-Zagal P, Garduño-Ramírez ML.Development and characterization of two nano-structured systems for topical application of flavanones isolated from Eysenhardtia platycarpa.Colloids Surf B Biointerfaces. 2014 Apr 1;116:183-92. doi: 10.1016/j.colsurfb.2013.12.009. Epub 2014 Jan 6.PubMed [citation] PMID: 24463153

1032. Brown DM, Kanase N, Gaiser B, Johnston H, Stone V.Inflammation and gene expression in the rat lung after instillation of silica nanoparticles: effect of size, dispersion medium and particle surface charge.Toxicol Lett. 2014 Jan 3;224(1):147-56. Erratum in: Toxicol Lett. 2014 Mar 21;225(3):499-504. PubMed [citation] PMID: 24466574

1033. Potter KA, Jorfi M, Householder KT, Foster EJ, Weder C, Capadona JR.Curcumin-releasing mechanically adaptive intracortical implants improve the proximal neuronal density and blood-brain barrier stability.Acta Biomater. 2014 May;10(5):2209-22. doi: 10.1016/j.actbio.2014.01.018. Epub 2014 Jan 24.PubMed [citation] PMID: 24468582

1034. Anderson NG, Butler AP.Clinical applications of spectral molecular imaging: potential and challenges.Contrast Media Mol Imaging. 2014 Jan-Feb;9(1):3-12. doi: 10.1002/cmmi.1550. Review.PubMed [citation] PMID: 24470290

1035. Hood ED, Chorny M, Greineder CF, S Alferiev I, Levy RJ, Muzykantov VR.Endothelial targeting of nanocarriers loaded with antioxidant enzymes for protection against vascular oxidative stress and inflammation.Biomaterials. 2014 Apr;35(11):3708-15. doi: 10.1016/j.biomaterials.2014.01.023. Epub 2014 Jan 27.PubMed [citation] PMID: 24480537, PMCID: PMC4343528

1036. Yoshitomi T, Nagasaki Y.Reactive oxygen species-scavenging nanomedicines for the treatment of oxidative stress injuries.Adv Healthc Mater. 2014 Aug;3(8):1149-61. doi: 10.1002/adhm.201300576. Epub 2014 Jan 30.PubMed [citation] PMID: 24482427

1037. Pauluhn J.The metrics of MWCNT-induced pulmonary inflammation are dependent on the selected testing regimen.Regul Toxicol Pharmacol. 2014 Apr;68(3):343-52. doi: 10.1016/j.yrtph.2014.01.010. Epub 2014 Jan 31.PubMed [citation] PMID: 24486532

1038. Marianecci C, Rinaldi F, Di Marzio L, Mastriota M, Pieretti S, Celia C, Paolino D, Iannone M, Fresta M, Carafa M.Ammonium glycyrrhizinate-loaded niosomes as a potential nanotherapeutic system for anti-inflammatory activity in murine models.Int J Nanomedicine. 2014;9:635-51. doi: 10.2147/IJN.S55066.PubMed [citation] PMID: 24493924, PMCID: PMC3908944

1039. Wu T, Tang M.Toxicity of quantum dots on respiratory system.Inhal Toxicol. 2014 Feb;26(2):128-39. doi: 10.3109/08958378.2013.871762. Review.PubMed [citation] PMID: 24495248

1040. Glista-Baker EE, Taylor AJ, Sayers BC, Thompson EA, Bonner JC.Nickel nanoparticles cause exaggerated lung and airway remodeling in mice lacking the T-box transcription factor, TBX21 (T-bet).Part Fibre Toxicol. 2014 Feb 6;11:7. doi: 10.1186/1743-8977-11-7.PubMed [citation] PMID: 24499286, PMCID: PMC3931667

1041. Bibee KP, Cheng YJ, Ching JK, Marsh JN, Li AJ, Keeling RM, Connolly AM, Golumbek PT, Myerson JW, Hu G, Chen J, Shannon WD, Lanza GM, Weihl CC, Wickline SA.Rapamycin nanoparticles target defective autophagy in muscular dystrophy to enhance both strength and cardiac function.FASEB J. 2014 May;28(5):2047-61. doi: 10.1096/fj.13-237388. Epub 2014 Feb 5.PubMed [citation] PMID: 24500923, PMCID: PMC3986846

1042. Capasso L, Camatini M, Gualtieri M.Nickel oxide nanoparticles induce inflammation and genotoxic effect in lung epithelial cells.Toxicol Lett. 2014 Apr 7;226(1):28-34. doi: 10.1016/j.toxlet.2014.01.040. Epub 2014 Feb 3.PubMed [citation] PMID: 24503009

1043. Xiao B, Laroui H, Viennois E, Ayyadurai S, Charania MA, Zhang Y, Zhang Z, Baker MT, Zhang B, Gewirtz AT, Merlin D.Nanoparticles with surface antibody against CD98 and carrying CD98 small interfering RNA reduce colitis in mice.Gastroenterology. 2014 May;146(5):1289-300.e1-19. doi: 10.1053/j.gastro.2014.01.056. Epub 2014 Feb 4.PubMed [citation] PMID: 24503126, PMCID: PMC3992175

1044. Wu J, Zheng Y, Song W, Luan J, Wen X, Wu Z, Chen X, Wang Q, Guo S.In situ synthesis of silver-nanoparticles/bacterial cellulose composites for

slow-released antimicrobial wound dressing.Carbohydr Polym. 2014 Feb 15;102:762-71. doi: 10.1016/j.carbpol.2013.10.093. Epub 2013 Nov 6.PubMed [citation] PMID: 24507345

1045. Brown DM, Kanase N, Gaiser B, Johnston H, Stone V.Inflammation and gene expression in the rat lung after instillation of silica nanoparticles: effect of size, dispersion medium and particle surface charge.Toxicol Lett. 2013 Oct 25. doi:pii: S0378-4274(13)01362-3. 10.1016/j.toxlet.2013.10.019. [Epub ahead of print]PubMed [citation] PMID: 24513431

1046. Ross KA, Haughney SL, Petersen LK, Boggiatto P, Wannemuehler MJ, Narasimhan B.Lung deposition and cellular uptake behavior of pathogen-mimicking nanovaccines in the first 48 hours.Adv Healthc Mater. 2014 Jul;3(7):1071-7. doi: 10.1002/adhm.201300525. Epub 2014 Feb 12.PubMed [citation] PMID: 24520022

1047. Lucas K, Maes M.Molecular mechanisms underpinning laser printer and photocopier induced symptoms, including chronic fatigue syndrome and respiratory tract hyperresponsiveness: pharmacological treatment with cinnamon and hydrogen.Neuro Endocrinol Lett. 2013;34(8):723-37. Review.PubMed [citation] PMID: 24522022

1048. Ferreira AM, Mattu C, Ranzato E, Ciardelli G.Bioinspired porous membranes containing polymer nanoparticles for wound healing.J Biomed Mater Res A. 2014 Dec;102(12):4394-405. doi: 10.1002/jbm.a.35121. Epub 2014 Feb 25.PubMed [citation] PMID: 24522948

1049. Holzer M, Bihari P, Praetner M, Uhl B, Reichel C, Fent J, Vippola M, Lakatos S, Krombach F.Carbon-based nanomaterials accelerate arteriolar thrombus formation in the murine microcirculation independently of their shape.J Appl Toxicol. 2014 Nov;34(11):1167-76. doi: 10.1002/jat.2996. Epub 2014 Feb 14.PubMed [citation] PMID: 24531921

1050. Mendoza A, Torres-Hernandez JA, Ault JG, Pedersen-Lane JH, Gao D, Lawrence DA.Silica nanoparticles induce oxidative stress and inflammation of human peripheral blood mononuclear cells.Cell Stress Chaperones. 2014 Nov;19(6):777-90. doi: 10.1007/s12192-014-0502-y. Epub 2014 Feb 18.PubMed [citation] PMID: 24535706, PMCID: PMC4389838

1051. Chaudhary H, Kohli K, Kumar V.A novel nano-carrier transdermal gel against inflammation.Int J Pharm. 2014 Apr 25;465(1-2):175-86. doi: 10.1016/j.ijpharm.2014.02.023. Epub 2014 Feb 15.PubMed [citation] PMID: 24548719

1052. Turabekova M, Rasulev B, Theodore M, Jackman J, Leszczynska D, Leszczynski J.Immunotoxicity of nanoparticles: a computational study suggests that CNTs and C60 fullerenes might be recognized as pathogens by Toll-like receptors.Nanoscale. 2014 Apr 7;6(7):3488-95. doi: 10.1039/c3nr05772k.PubMed [citation] PMID: 24548972

1053. Yan Z, Xu L, Han J, Wu YJ, Wang W, Yao W, Wu W.Transcriptional and posttranscriptional regulation and endocytosis were involved in zinc oxide nanoparticle-induced interleukin-8 overexpression in human bronchial epithelial cells.Cell Biol Toxicol. 2014 Apr;30(2):79-88. doi: 10.1007/s10565-014-9270-9.

Epub 2014 Feb 20.PubMed [citation] PMID: 24554449

1054. Sahu D, Kannan GM, Vijayaraghavan R.Size-dependent effect of zinc oxide on toxicity and inflammatory potential of human monocytes.J Toxicol Environ Health A. 2014;77(4):177-91. doi: 10.1080/15287394.2013.853224.PubMed [citation] PMID: 24555677

1055. da Silva AL, Martini SV, Abreu SC, Samary Cdos S, Diaz BL, Fernezlian S, de Sá VK, Capelozzi VL, Boylan NJ, Goya RG, Suk JS, Rocco PR, Hanes J, Morales MM.DNA nanoparticle-mediated thymulin gene therapy prevents airway remodeling in experimental allergic asthma.J Control Release. 2014 Apr 28;180:125-33. doi: 10.1016/j.jconrel.2014.02.010. Epub 2014 Feb 17.PubMed [citation] PMID: 24556417, PMCID: PMC3992277

1056. Chen JK, Ho CC, Chang H, Lin JF, Yang CS, Tsai MH, Tsai HT, Lin P.Particulate nature of inhaled zinc oxide nanoparticles determines systemic effects and mechanisms of pulmonary inflammation in mice.Nanotoxicology. 2015 Feb;9:43-53. doi: 10.3109/17435390.2014.886740. Epub 2014 Feb 21.PubMed [citation] PMID: 24559390

1057. Wang Z, Li J, Cho J, Malik AB.Prevention of vascular inflammation by nanoparticle targeting of adherent neutrophils.Nat Nanotechnol. 2014 Mar;9(3):204-10. doi: 10.1038/nnano.2014.17. Epub 2014 Feb 23.PubMed [citation] PMID: 24561355, PMCID: PMC4100792

1058. Farr TD, Lai CH, Grünstein D, Orts-Gil G, Wang CC, Boehm-Sturm P, Seeberger PH, Harms C.Imaging early endothelial inflammation following stroke by core shell silica superparamagnetic glyconanoparticles that target selectin.Nano Lett. 2014;14(4):2130-4. doi: 10.1021/nl500388h. Epub 2014 Mar 5.PubMed [citation] PMID: 24564342

1059. Palange AL, Di Mascolo D, Carallo C, Gnasso A, Decuzzi P.Lipid-polymer nanoparticles encapsulating curcumin for modulating the vascular deposition of breast cancer cells.Nanomedicine. 2014 Jul;10(5):991-1002. doi: 10.1016/j.nano.2014.02.004. Epub 2014 Feb 22.PubMed [citation] PMID: 24566270, PMCID: PMC4077976

1060. Dellinger AL, Zhou Z, Kepley CL.A steroid-mimicking nanomaterial that mediates inhibition of human lung mast cell responses.Nanomedicine. 2014 Aug;10(6):1185-93. doi: 10.1016/j.nano.2014.02.006. Epub 2014 Feb 22.PubMed [citation] PMID: 24566277, PMCID: PMC4119857

1061. Mizrahy S, Goldsmith M, Leviatan-Ben-Arye S, Kisin-Finfer E, Redy O, Srinivasan S, Shabat D, Godin B, Peer D.Tumor targeting profiling of hyaluronan-coated lipid based-nanoparticles.Nanoscale. 2014 Apr 7;6(7):3742-52. doi: 10.1039/c3nr06102g.PubMed [citation] PMID: 24569711

1062. Mohammadipour A, Fazel A, Haghir H, Motejaded F, Rafatpanah H, Zabihi H, Hosseini M, Bideskan AE.Maternal exposure to titanium dioxide nanoparticles during pregnancy; impaired memory and decreased hippocampal cell proliferation in rat

offspring.Environ Toxicol Pharmacol. 2014 Mar;37(2):617-25. doi: 10.1016/j.etap.2014.01.014. Epub 2014 Jan 30.PubMed [citation] PMID: 24577229

1063. Zhao Y, Ye Y, Zhou X, Chen J, Jin Y, Hanson A, Zhao JX, Wu M.Photosensitive fluorescent dye contributes to phototoxicity and inflammatory responses of dye-doped silica NPs in cells and mice.Theranostics. 2014;4(4):445-59. doi: 10.7150/thno.7653.PubMed [citation] PMID: 24578727, PMCID: PMC3936296

1064. Kaewamatawong T, Banlunara W, Maneewattanapinyo P, Thammachareon C, Ekgasit S.Acute and subacute pulmonary toxicity caused by a single intratracheal instillation of colloidal silver nanoparticles in mice: pathobiological changes and metallothionein responses.J Environ Pathol Toxicol Oncol. 2014;33(1):59-68.PubMed [citation] PMID: 24579810

1065. Li F, Wang P, Weir MD, Fouad AF, Xu HH.Evaluation of antibacterial and remineralizing nanocomposite and adhesive in rat tooth cavity model.Acta Biomater. 2014 Jun;10(6):2804-13. doi: 10.1016/j.actbio.2014.02.033. Epub 2014 Feb 27.PubMed [citation] PMID: 24583320, PMCID: PMC4312698

1066. Luehmann HP, Pressly ED, Detering L, Wang C, Pierce R, Woodard PK, Gropler RJ, Hawker CJ, Liu Y.PET/CT imaging of chemokine receptor CCR5 in vascular injury model using targeted nanoparticle.J Nucl Med. 2014 Apr;55(4):629-34. doi: 10.2967/jnumed.113.132001. Epub 2014 Mar 3.PubMed [citation] PMID: 24591489, PMCID: PMC4255944

1067. Onoue S, Yamada S, Chan HK.Nanodrugs: pharmacokinetics and safety.Int J Nanomedicine. 2014;9:1025-37. doi: 10.2147/IJN.S38378.PubMed [citation] PMID: 24591825, PMCID: PMC3934594

1068. Marepally S, Boakye CH, Patel AR, Godugu C, Doddapaneni R, Desai PR, Singh M.Topical administration of dual siRNAs using fusogenic lipid nanoparticles for treating psoriatic-like plaques.Nanomedicine (Lond). 2014 Jul;9(14):2157-74. doi: 10.2217/nnm.13.202. Epub 2014 Mar 5.PubMed [citation] PMID: 24593003

1069. Roy R, Singh SK, Das M, Tripathi A, Dwivedi PD.Toll-like receptor 6 mediated inflammatory and functional responses of zinc oxide nanoparticles primed macrophages.Immunology. 2014 Jul;142(3):453-64. doi: 10.1111/imm.12276.PubMed [citation] PMID: 24593842, PMCID: PMC4080961

1070. Nagai N, Ito Y, Okamoto N, Shimomura Y.A nanoparticle formulation reduces the corneal toxicity of indomethacin eye drops and enhances its corneal permeability.Toxicology. 2014 May 7;319:53-62. doi: 10.1016/j.tox.2014.02.012. Epub 2014 Mar 2.PubMed [citation] PMID: 24598350

1071. Al Faraj A, Sultana Shaik A, Pureza MA, Alnafea M, Halwani R.Preferential macrophage recruitment and polarization in LPS-induced animal model for COPD: noninvasive tracking using MRI.PLoS One. 2014;9(3):e90829. doi: 10.1371/journal.pone.0090829.PubMed [citation] PMID: 24598763, PMCID: PMC3945006

1072. Morimoto Y, Izumi H, Yamamoto K.[State and treat on the health effect of

nanomaterial].Nihon Rinsho. 2014 Feb;72(2):353-60. Japanese. PubMed [citation] PMID: 24605540

1073. Benchaala I, Mishra MK, Wykes SM, Hali M, Kannan RM, Whittum-Hudson JA.Folate-functionalized dendrimers for targeting Chlamydia-infected tissues in a mouse model of reactive arthritis.Int J Pharm. 2014 May 15;466(1-2):258-65. doi: 10.1016/j.ijpharm.2014.03.018. Epub 2014 Mar 5.PubMed [citation] PMID: 24607214

1074. Pati R, Mehta RK, Mohanty S, Padhi A, Sengupta M, Vaseeharan B, Goswami C, Sonawane A.Topical application of zinc oxide nanoparticles reduces bacterial skin infection in mice and exhibits antibacterial activity by inducing oxidative stress response and cell membrane disintegration in macrophages.Nanomedicine. 2014 Aug;10(6):1195-208. doi: 10.1016/j.nano.2014.02.012. Epub 2014 Mar 6.PubMed [citation] PMID: 24607937

1075. Delgado-Buenrostro NL, Medina-Reyes EI, Lastres-Becker I, Freyre-Fonseca V, Ji Z, Hernández-Pando R, Marquina B, Pedraza-Chaverri J, Espada S, Cuadrado A, Chirino YI.Nrf2 protects the lung against inflammation induced by titanium dioxide nanoparticles: A positive regulator role of Nrf2 on cytokine release.Environ Toxicol. 2014 Feb 26. doi: 10.1002/tox.21957. [Epub ahead of print]PubMed [citation] PMID: 24615891

1076. Dailey LA, Hernández-Prieto R, Casas-Ferreira AM, Jones MC, Riffo-Vasquez Y, Rodríguez-Gonzalo E, Spina D, Jones SA, Smith NW, Forbes B, Page C, Legido-Quigley C.Adenosine monophosphate is elevated in the bronchoalveolar lavage fluid of mice with acute respiratory toxicity induced by nanoparticles with high surface hydrophobicity.Nanotoxicology. 2015 Feb;9:106-15. doi: 10.3109/17435390.2014.894150. Epub 2014 Mar 12.PubMed [citation] PMID: 24621376

1077. Juang YM, Lai BH, Chien HJ, Ho M, Cheng TJ, Lai CC.Changes in protein expression in rat bronchoalveolar lavage fluid after exposure to zinc oxide nanoparticles: an iTRAQ proteomic approach.Rapid Commun Mass Spectrom. 2014 Apr 30;28(8):974-80. doi: 10.1002/rcm.6866.PubMed [citation] PMID: 24623703

1078. Boppana NB, Devarajan A, Gopal K, Barathan M, Bakar SA, Shankar EM, Ebrahim AS, Farooq SM.Blockade of CXCR2 signalling: a potential therapeutic target for preventing neutrophil-mediated inflammatory diseases.Exp Biol Med (Maywood). 2014 May;239(5):509-18. doi: 10.1177/1535370213520110. Epub 2014 Mar 13. Review.PubMed [citation] PMID: 24625439

1079. Kugelberg E.Neutrophils: nanoparticles targeting the bad guys.Nat Rev Immunol. 2014 Apr;14(4):214. doi: 10.1038/nri3648. Epub 2014 Mar 14. No abstract available. PubMed [citation] PMID: 24625844

1080. Wang J, Zhang Y, Yuan Y, Yue T.Immunomodulatory of selenium nano-particles decorated by sulfated Ganoderma lucidum polysaccharides.Food Chem Toxicol. 2014 Jun;68:183-9. doi: 10.1016/j.fct.2014.03.003. Epub 2014 Mar 10.PubMed [citation] PMID: 24626144

1081. Lin CD, Kou YY, Liao CY, Li CH, Huang SP, Cheng YW, Liao WC, Chen HX, Wu PL, Kang

JJ, Lee CC, Lai CH.Zinc oxide nanoparticles impair bacterial clearance by macrophages.Nanomedicine (Lond). 2014 Jul;9(9):1327-39. doi: 10.2217/nnm.14.48. Epub 2014 Mar 17.PubMed [citation] PMID: 24628689

1082. Garcia-Contreras R, Scougall-Vilchis RJ, Contreras-Bulnes R, Kanda Y, Nakajima H, Sakagami H.Induction of prostaglandin E2 production by TiO2 nanoparticles in human gingival fibroblast.In Vivo. 2014 Mar-Apr;28(2):217-22.PubMed [citation] PMID: 24632976

1083. Liu X, Sun J.Potential proinflammatory effects of hydroxyapatite nanoparticles on endothelial cells in a monocyte-endothelial cell coculture model.Int J Nanomedicine. 2014;9:1261-73. doi: 10.2147/IJN.S56298.PubMed [citation] PMID: 24648726, PMCID: PMC3956627

1084. Magaye RR, Yue X, Zou B, Shi H, Yu H, Liu K, Lin X, Xu J, Yang C, Wu A, Zhao J.Acute toxicity of nickel nanoparticles in rats after intravenous injection.Int J Nanomedicine. 2014;9:1393-402. doi: 10.2147/IJN.S56212.PubMed [citation] PMID: 24648736, PMCID: PMC3958504

1085. Chen HC, Lin HC, Chen HH, Mai FD, Liu YC, Lin CM, Chang CC, Tsai HY, Yang CP.Innovative strategy with potential to increase hemodialysis efficiency and safety.Sci Rep. 2014 Mar 21;4:4425. doi: 10.1038/srep04425.PubMed [citation] PMID: 24651843, PMCID: PMC3961733

1086. Ahad A, Raish M, Al-Mohizea AM, Al-Jenoobi FI, Alam MA.Enhanced anti-inflammatory activity of carbopol loaded meloxicam nanoethosomes gel.Int J Biol Macromol. 2014 Jun;67:99-104. doi: 10.1016/j.ijbiomac.2014.03.011. Epub 2014 Mar 19.PubMed [citation] PMID: 24657163

1087. Burd I, Zhang F, Dada T, Mishra MK, Borbiev T, Lesniak WG, Baghlaf H, Kannan S, Kannan RM.Fetal uptake of intra-amniotically delivered dendrimers in a mouse model of intrauterine inflammation and preterm birth.Nanomedicine. 2014 Aug;10(6):1343-51. doi: 10.1016/j.nano.2014.03.008. Epub 2014 Mar 19.PubMed [citation] PMID: 24657482

1088. Jones MC, Jones SA, Riffo-Vasquez Y, Spina D, Hoffman E, Morgan A, Patel A, Page C, Forbes B, Dailey LA.Quantitative assessment of nanoparticle surface hydrophobicity and its influence on pulmonary biocompatibility.J Control Release. 2014 Jun 10;183:94-104. doi: 10.1016/j.jconrel.2014.03.022. Epub 2014 Mar 19.PubMed [citation] PMID: 24657808

1089. Ze Y, Sheng L, Zhao X, Hong J, Ze X, Yu X, Pan X, Lin A, Zhao Y, Zhang C, Zhou Q, Wang L, Hong F.TiO2 nanoparticles induced hippocampal neuroinflammation in mice.PLoS One. 2014;9(3):e92230. doi: 10.1371/journal.pone.0092230.PubMed [citation] PMID: 24658543, PMCID: PMC3962383

1090. Gadde S, Even-Or O, Kamaly N, Hasija A, Gagnon PG, Adusumilli KH, Erakovic A, Pal AK, Zhang XQ, Kolishetti N, Shi J, Fisher EA, Farokhzad OC.Development of therapeutic polymeric nanoparticles for the resolution of inflammation.Adv Healthc Mater. 2014 Sep;3(9):1448-56. doi: 10.1002/adhm.201300688. Epub 2014 Mar

24.PubMed [citation] PMID: 24659608, PMCID: PMC4160375

1091. Labens R, Lascelles BD, Charlton AN, Ferrero NR, Van Wettere AJ, Xia XR, Blikslager AT.Ex vivo effect of gold nanoparticles on porcine synovial membrane.Tissue Barriers. 2013 Apr 1;1(2):e24314. doi: 10.4161/tisb.24314.PubMed [citation] PMID: 24665389, PMCID: PMC3879126

1092. Sunasee R, Adokoh CK, Darkwa J, Narain R.Therapeutic potential of carbohydrate-based polymeric and nanoparticle systems.Expert Opin Drug Deliv. 2014 Jun;11(6):867-84. doi: 10.1517/17425247.2014.902048. Epub 2014 Mar 26. Review.PubMed [citation] PMID: 24666000

1093. Zhang H, Pokhrel S, Ji Z, Meng H, Wang X, Lin S, Chang CH, Li L, Li R, Sun B, Wang M, Liao YP, Liu R, Xia T, Mädler L, Nel AE.PdO doping tunes band-gap energy levels as well as oxidative stress responses to a Co_3O_4 p-type semiconductor in cells and the lung.J Am Chem Soc. 2014 Apr 30;136(17):6406-20. doi: 10.1021/ja501699e. Epub 2014 Apr 15.PubMed [citation] PMID: 24673286

1094. Chen T, Yan J, Li Y.Genotoxicity of titanium dioxide nanoparticles.J Food Drug Anal. 2014 Mar;22(1):95-104. doi: 10.1016/j.jfda.2014.01.008. Epub 2014 Feb 5. Review.PubMed [citation] PMID: 24673907

1095. Kusaka T, Nakayama M, Nakamura K, Ishimiya M, Furusawa E, Ogasawara K.Effect of silica particle size on macrophage inflammatory responses.PLoS One. 2014;9(3):e92634. doi: 10.1371/journal.pone.0092634.PubMed [citation] PMID: 24681489, PMCID: PMC3969333

1096. Ghaleb AM, Laroui H, Merlin D, Yang VW.Genetic deletion of Klf4 in the mouse intestinal epithelium ameliorates dextran sodium sulfate-induced colitis by modulating the NF-κB pathway inflammatory response.Inflamm Bowel Dis. 2014 May;20(5):811-20. doi: 10.1097/MIB.0000000000000022.PubMed [citation] PMID: 24681655, PMCID: PMC4091934

1097. Adamcakova-Dodd A, Stebounova LV, Kim JS, Vorrink SU, Ault AP, O'Shaughnessy PT, Grassian VH, Thorne PS.Toxicity assessment of zinc oxide nanoparticles using sub-acute and sub-chronic murine inhalation models.Part Fibre Toxicol. 2014 Apr 1;11:15. doi: 10.1186/1743-8977-11-15.PubMed [citation] PMID: 24684892, PMCID: PMC3994238

1098. Kojima S, Negishi Y, Tsukimoto M, Takenouchi T, Kitani H, Takeda K.Purinergic signaling via P2X7 receptor mediates IL-1β production in Kupffer cells exposed to silica nanoparticle.Toxicology. 2014 Jul 3;321:13-20. doi: 10.1016/j.tox.2014.03.008. Epub 2014 Mar 28.PubMed [citation] PMID: 24685903

1099. Viscido A, Capannolo A, Latella G, Caprilli R, Frieri G.Nanotechnology in the treatment of inflammatory bowel diseases.J Crohns Colitis. 2014 Sep 1;8(9):903-18. doi: 10.1016/j.crohns.2014.02.024. Epub 2014 Mar 28.PubMed [citation] PMID: 24686095

1100. Singh A, Agarwal R, Diaz-Ruiz CA, Willett NJ, Wang P, Lee LA, Wang Q, Guldberg

RE, García AJ.Nanoengineered particles for enhanced intra-articular retention and delivery of proteins.Adv Healthc Mater. 2014 Oct;3(10):1562-7, 1525. doi: 10.1002/adhm.201400051. Epub 2014 Mar 31.PubMed [citation] PMID: 24687997, PMCID: PMC4182168

1101. Lee JF, Tung SP, Wang D, Yeh DY, Fong Y, Young YC, Leu FJ.Lipoxygenase pathway mediates increases of airway resistance and lung inflation induced by exposure to nanotitanium dioxide in rats.Oxid Med Cell Longev. 2014;2014:485604. doi: 10.1155/2014/485604. Epub 2014 Feb 17.PubMed [citation] PMID: 24693335, PMCID: PMC3945789

1102. Bai MY, Hu YM.Development of alpha-lipoic acid encapsulated chitosan monodispersed particles using an electrospray system: synthesis, characterisations and anti-inflammatory evaluations.J Microencapsul. 2014;31(4):373-81. doi: 10.3109/02652048.2013.863395. Epub 2014 Apr 3.PubMed [citation] PMID: 24697170

1103. Filippi C, Pryde A, Cowan P, Lee T, Hayes P, Donaldson K, Plevris J, Stone V.Toxicology of ZnO and TiO2 nanoparticles on hepatocytes: Impact on metabolism and bioenergetics.Nanotoxicology. 2015 Feb;9:126-34. doi: 10.3109/17435390.2014.895437. Epub 2014 Apr 8.PubMed [citation] PMID: 24708275

1104. Al Faraj A, Shaik AS, Afzal S, Al Sayed B, Halwani R.MR imaging and targeting of a specific alveolar macrophage subpopulation in LPS-induced COPD animal model using antibody-conjugated magnetic nanoparticles.Int J Nanomedicine. 2014;9:1491-503. doi: 10.2147/IJN.S59394.PubMed [citation] PMID: 24711699, PMCID: PMC3969341

1105. Lin S, Wang X, Ji Z, Chang CH, Dong Y, Meng H, Liao YP, Wang M, Song TB, Kohan S, Xia T, Zink JI, Lin S, Nel AE.Aspect ratio plays a role in the hazard potential of CeO2 nanoparticles in mouse lung and zebrafish gastrointestinal tract.ACS Nano. 2014 May 27;8(5):4450-64. doi: 10.1021/nn5012754. Epub 2014 Apr 16.PubMed [citation] PMID: 24720650, PMCID: PMC4059546

1106. Vonnemann J, Beziere N, Böttcher C, Riese SB, Kuehne C, Dernedde J, Licha K, von Schacky C, Kosanke Y, Kimm M, Meier R, Ntziachristos V, Haag R.Polyglycerolsulfate functionalized gold nanorods as optoacoustic signal nanoamplifiers for in vivo bioimaging of rheumatoid arthritis.Theranostics. 2014;4(6):629-41. doi: 10.7150/thno.8518.PubMed [citation] PMID: 24723984, PMCID: PMC3982133

1107. Ilinskaya AN, Dobrovolskaia MA.Immunosuppressive and anti-inflammatory properties of engineered nanomaterials.Br J Pharmacol. 2014 Sep;171(17):3988-4000. doi: 10.1111/bph.12722. Epub 2014 Jul 2. Review.PubMed [citation] PMID: 24724793, PMCID: PMC4243973

1108. Braakhuis HM, Park MV, Gosens I, De Jong WH, Cassee FR.Physicochemical characteristics of nanomaterials that affect pulmonary inflammation.Part Fibre Toxicol. 2014 Apr 11;11:18. doi: 10.1186/1743-8977-11-18. Review.PubMed [citation] PMID: 24725891, PMCID: PMC3996135

1109. Zhang S, Liu X, Wang H, Peng J, Wong KK.Silver nanoparticle-coated suture effectively reduces inflammation and improves mechanical strength at intestinal anastomosis in mice.J Pediatr Surg. 2014 Apr;49(4):606-13. doi: 10.1016/j.jpedsurg.2013.12.012. Epub 2013 Dec 18.PubMed [citation] PMID: 24726122

1110. Peng L, He X, Zhang P, Zhang J, Li Y, Zhang J, Ma Y, Ding Y, Wu Z, Chai Z, Zhang Z.Comparative pulmonary toxicity of two ceria nanoparticles with the same primary size.Int J Mol Sci. 2014 Apr 10;15(4):6072-85. doi: 10.3390/ijms15046072.PubMed [citation] PMID: 24727375, PMCID: PMC4013616

1111. Inkielewicz-Stepniak I, Santos-Martinez MJ, Medina C, Radomski MW.Pharmacological and toxicological effects of co-exposure of human gingival fibroblasts to silver nanoparticles and sodium fluoride.Int J Nanomedicine. 2014;9:1677-87. doi: 10.2147/IJN.S59172.PubMed [citation] PMID: 24729703, PMCID: PMC3979695

1112. Xiao B, Yang Y, Viennois E, Zhang Y, Ayyadurai S, Baker M, Laroui H, Merlin D.Glycoprotein CD98 as a receptor for colitis-targeted delivery of nanoparticle.J Mater Chem B Mater Biol Med. 2014 Mar 21;2(11):1499-1508.PubMed [citation] PMID: 24729869, PMCID: PMC3981968

1113. Rajam AM, Jithendral P, Mandal AB, Rose C.Evaluation of in vitro macrophage response and in vivo host response to growth factors incorporated chitosan nanoparticle impregnated collagen-chitosan scaffold.J Biomed Nanotechnol. 2014 Mar;10(3):508-18.PubMed [citation] PMID: 24730246

1114. Wen Q, Wan S, Liu Z, Xu S, Wang H, Yang B.Ultrasound contrast agents and ultrasound molecular imaging.J Nanosci Nanotechnol. 2014 Jan;14(1):190-209. Review.PubMed [citation] PMID: 24730259

1115. Liu T, Zeng Z, Liu Y, Wang J, Maitz MF, Wang Y, Liu S, Chen J, Huang N.Surface modification with dopamine and heparin/poly-L-lysine nanoparticles provides a favorable release behavior for the healing of vascular stent lesions.ACS Appl Mater Interfaces. 2014 Jun 11;6(11):8729-43. doi: 10.1021/am5015309. Epub 2014 Apr 23.PubMed [citation] PMID: 24731022

1116. Jóhannesson G, Moya-Ortega MD, Asgrímsdóttir GM, Agnarsson BA, Lund SH, Loftsson T, Stefánsson E.Dorzolamide cyclodextrin nanoparticle suspension eye drops and Trusopt in rabbit.J Ocul Pharmacol Ther. 2014 Aug;30(6):464-7. doi: 10.1089/jop.2013.0164. Epub 2014 Apr 15.PubMed [citation] PMID: 24734973

1117. Agyare EK, Jaruszewski KM, Curran GL, Rosenberg JT, Grant SC, Lowe VJ, Ramakrishnan S, Paravastu AK, Poduslo JF, Kandimalla KK.Engineering theranostic nanovehicles capable of targeting cerebrovascular amyloid deposits.J Control Release. 2014 Jul 10;185:121-9. doi: 10.1016/j.jconrel.2014.04.010. Epub 2014 Apr 13.PubMed [citation] PMID: 24735640

1118. Meraz IM, Hearnden CH, Liu X, Yang M, Williams L, Savage DJ, Gu J, Rhudy JR, Yokoi K, Lavelle EC, Serda RE.Multivalent presentation of MPL by porous silicon microparticles favors T helper 1 polarization enhancing the anti-tumor efficacy

of doxorubicin nanoliposomes.PLoS One. 2014;9(4):e94703. doi: 10.1371/journal.pone.0094703.PubMed [citation] PMID: 24736547, PMCID: PMC3988134

1119. Wu J, Zheng Y, Wen X, Lin Q, Chen X, Wu Z.Silver nanoparticle/bacterial cellulose gel membranes for antibacterial wound dressing: investigation in vitro and in vivo.Biomed Mater. 2014 Jun;9(3):035005. doi: 10.1088/1748-6041/9/3/035005. Epub 2014 Apr 16.PubMed [citation] PMID: 24739469

1120. Singh A, Talekar M, Raikar A, Amiji M.Macrophage-targeted delivery systems for nucleic acid therapy of inflammatory diseases.J Control Release. 2014 Sep 28;190:515-30. doi: 10.1016/j.jconrel.2014.04.021. Epub 2014 Apr 18. Review.PubMed [citation] PMID: 24747762

1121. Ronzani C, Safar R, Diab R, Chevrier J, Paoli J, Abdel-Wahhab MA, Le Faou A, Rihn BH, Joubert O.Viability and gene expression responses to polymeric nanoparticles in human and rat cells.Cell Biol Toxicol. 2014 Jun;30(3):137-46. doi: 10.1007/s10565-014-9275-4. Epub 2014 Apr 21.PubMed [citation] PMID: 24748055

1122. Iwasaki Y, Kimura T, Orisaka M, Kawasaki H, Goda T, Yusa S.Label-free detection of C-reactive protein using highly dispersible gold nanoparticles synthesized by reducible biomimetic block copolymers.Chem Commun (Camb). 2014 May 30;50(42):5656-8. doi: 10.1039/c4cc01855a.PubMed [citation] PMID: 24752806

1123. Geiser M, Stoeger T, Casaulta M, Chen S, Semmler-Behnke M, Bolle I, Takenaka S, Kreyling WG, Schulz H.Biokinetics of nanoparticles and susceptibility to particulate exposure in a murine model of cystic fibrosis.Part Fibre Toxicol. 2014 Apr 24;11:19. doi: 10.1186/1743-8977-11-19.PubMed [citation] PMID: 24758489, PMCID: PMC4008490

1124. Goncalves DM, Girard D.Zinc oxide nanoparticles delay human neutrophil apoptosis by a de novo protein synthesis-dependent and reactive oxygen species-independent mechanism.Toxicol In Vitro. 2014 Aug;28(5):926-31. doi: 10.1016/j.tiv.2014.03.002. Epub 2014 Apr 20.PubMed [citation] PMID: 24759804

1125. Jackson WD, Woollard KJ.Targeting monocyte and macrophage subpopulations for immunotherapy: a patent review (2009 - 2013).Expert Opin Ther Pat. 2014 Jul;24(7):779-90. doi: 10.1517/13543776.2014.914495. Epub 2014 Apr 29. Review.PubMed [citation] PMID: 24773534

1126. Hedgire SS, Mino-Kenudson M, Elmi A, Thayer S, Fernandez-del Castillo C, Harisinghani MG.Enhanced primary tumor delineation in pancreatic adenocarcinoma using ultrasmall super paramagnetic iron oxide nanoparticle-ferumoxytol: an initial experience with histopathologic correlation.Int J Nanomedicine. 2014;9:1891-6. doi: 10.2147/IJN.S59788.PubMed [citation] PMID: 24790431, PMCID: PMC4000182

1127. van Berlo D, Hullmann M, Wessels A, Scherbart AM, Cassee FR, Gerlofs-Nijland ME, Albrecht C, Schins RP.Investigation of the effects of short-term inhalation of carbon nanoparticles on brains and lungs of c57bl/6j and p47(phox-/-) mice.Neurotoxicology. 2014 Jul;43:65-72. doi: 10.1016/j.neuro.2014.04.008. Epub

2014 May 1.PubMed [citation] PMID: 24792328

1128. Li K, Liu B.Polymer-encapsulated organic nanoparticles for fluorescence and photoacoustic imaging.Chem Soc Rev. 2014 Sep 21;43(18):6570-97. doi: 10.1039/c4cs00014e.PubMed [citation] PMID: 24792930

1129. Zhang Y, Shi S, Chen X, Peng M.Functionalized magnetic nanoparticles coupled with mass spectrometry for screening and identification of cyclooxygenase-1 inhibitors from natural products.J Chromatogr B Analyt Technol Biomed Life Sci. 2014 Jun 1;960:126-32. doi: 10.1016/j.jchromb.2014.04.032. Epub 2014 Apr 26.PubMed [citation] PMID: 24793085

1130. Ma JY, Young SH, Mercer RR, Barger M, Schwegler-Berry D, Ma JK, Castranova V.Interactive effects of cerium oxide and diesel exhaust nanoparticles on inducing pulmonary fibrosis.Toxicol Appl Pharmacol. 2014 Jul 15;278(2):135-47. doi: 10.1016/j.taap.2014.04.019. Epub 2014 May 2.PubMed [citation] PMID: 24793434

1131. Nagakura C, Negishi Y, Tsukimoto M, Itou S, Kondo T, Takeda K, Kojima S.Involvement of P2Y11 receptor in silica nanoparticles 30-induced IL-6 production by human keratinocytes.Toxicology. 2014 Aug 1;322:61-8. doi: 10.1016/j.tox.2014.03.010. Epub 2014 May 2.PubMed [citation] PMID: 24793913

1132. Lemos H, Huang L, Chandler PR, Mohamed E, Souza GR, Li L, Pacholczyk G, Barber GN, Hayakawa Y, Munn DH, Mellor AL.Activation of the STING adaptor attenuates experimental autoimmune encephalitis.J Immunol. 2014 Jun 15;192(12):5571-8. doi: 10.4049/jimmunol.1303258. Epub 2014 May 5.PubMed [citation] PMID: 24799564, PMCID: PMC4086255

1133. Lan Z, Lyu Y, Xiao J, Zheng X, He S, Feng G, Zhang Y, Wang S, Kislauskis E, Chen J, McCarthy S, Laham R, Jiang X, Wu T.Novel biodegradable drug-eluting stent composed of poly-L-lactic acid and amorphous calcium phosphate nanoparticles demonstrates improved structural and functional performance for coronary artery disease.J Biomed Nanotechnol. 2014 Jul;10(7):1194-204.PubMed [citation] PMID: 24804540

1134. Laroui H, Viennois E, Xiao B, Canup BS, Geem D, Denning TL, Merlin D.Fab'-bearing siRNA TNFα-loaded nanoparticles targeted to colonic macrophages offer an effective therapy for experimental colitis.J Control Release. 2014 Jul 28;186:41-53. doi: 10.1016/j.jconrel.2014.04.046. Epub 2014 May 5.PubMed [citation] PMID: 24810114, PMCID: PMC4100604

1135. Carneiro ZA, Maia PI, Sesti-Costa R, Lopes CD, Pereira TA, Milanezi CM, da Silva MA, Lopez RF, Silva JS, Deflon VM.In vitro and in vivo trypanocidal activity of H2bdtc-loaded solid lipid nanoparticles.PLoS Negl Trop Dis. 2014 May;8(5):e2847. doi: 10.1371/journal.pntd.0002847.PubMed [citation] PMID: 24810753, PMCID: PMC4014426

1136. Ren H, Han M, Zhou J, Zheng ZF, Lu P, Wang JJ, Wang JQ, Mao QJ, Gao JQ, Ouyang HW.Repair of spinal cord injury by inhibition of astrocyte growth and inflammatory factor synthesis through local delivery of flavopiridol in PLGA

nanoparticles.Biomaterials. 2014 Aug;35(24):6585-94. doi: 10.1016/j.biomaterials.2014.04.042. Epub 2014 May 5.PubMed [citation] PMID: 24811262

1137. Nasr M, Nafee N, Saad H, Kazem A.Improved antitumor activity and reduced cardiotoxicity of epirubicin using hepatocyte-targeted nanoparticles combined with tocotrienols against hepatocellular carcinoma in mice.Eur J Pharm Biopharm. 2014 Sep;88(1):216-25. doi: 10.1016/j.ejpb.2014.04.016. Epub 2014 May 6.PubMed [citation] PMID: 24813390

1138. Win-Shwe TT, Sone H, Kurokawa Y, Zeng Y, Zeng Q, Nitta H, Hirano S.Effects of PAMAM dendrimers in the mouse brain after a single intranasal instillation.Toxicol Lett. 2014 Aug 4;228(3):207-15. doi: 10.1016/j.toxlet.2014.04.020. Epub 2014 May 9.PubMed [citation] PMID: 24813635

1139. Leppänen M, Korpi A, Mikkonen S, Yli-Pirilä P, Lehto M, Pylkkänen L, Wolff H, Kosma VM, Alenius H, Joutsensaari J, Pasanen P.Inhaled silica-coated TiO2 nanoparticles induced airway irritation, airflow limitation and inflammation in mice.Nanotoxicology. 2015 Mar;9:210-8. doi: 10.3109/17435390.2014.914260. Epub 2014 May 9.PubMed [citation] PMID: 24814297

1140. Shi J, Sun X, Lin Y, Zou X, Li Z, Liao Y, Du M, Zhang H.Endothelial cell injury and dysfunction induced by silver nanoparticles through oxidative stress via IKK/NF-κB pathways.Biomaterials. 2014 Aug;35(24):6657-66. doi: 10.1016/j.biomaterials.2014.04.093. Epub 2014 May 10.PubMed [citation] PMID: 24818879

1141. Unfried K, Kroker M, Autengruber A, Gotić M, Sydlik U.The compatible solute ectoine reduces the exacerbating effect of environmental model particles on the immune response of the airways.J Allergy (Cairo). 2014;2014:708458. doi: 10.1155/2014/708458. Epub 2014 Apr 13.PubMed [citation] PMID: 24822073, PMCID: PMC4005218

1142. Cordova LA, Stresing V, Gobin B, Rosset P, Passuti N, Gouin F, Trichet V, Layrolle P, Heymann D.Orthopaedic implant failure: aseptic implant loosening--the contribution and future challenges of mouse models in translational research.Clin Sci (Lond). 2014 Sep;127(5):277-93. doi: 10.1042/CS20130338. Review.PubMed [citation] PMID: 24827940

1143. Kitayama Y, Takeuchi T.Localized surface plasmon resonance nanosensing of C-reactive protein with poly(2-methacryloyloxyethyl phosphorylcholine)-grafted gold nanoparticles prepared by surface-initiated atom transfer radical polymerization.Anal Chem. 2014 Jun 3;86(11):5587-94. doi: 10.1021/ac501322x. Epub 2014 May 15.PubMed [citation] PMID: 24830565

1144. Sigalov AB.A novel ligand-independent peptide inhibitor of TREM-1 suppresses tumor growth in human lung cancer xenografts and prolongs survival of mice with lipopolysaccharide-induced septic shock.Int Immunopharmacol. 2014 Jul;21(1):208-19. doi: 10.1016/j.intimp.2014.05.001. Epub 2014 May 14.PubMed [citation] PMID: 24836682, PMCID: PMC4088342

1145. Huo D, Ding J, Cui YX, Xia LY, Li H, He J, Zhou ZY, Wang HW, Hu Y.X-ray CT and pneumonia inhibition properties of gold-silver nanoparticles for targeting MRSA induced pneumonia.Biomaterials. 2014 Aug;35(25):7032-41. doi: 10.1016/j.biomaterials.2014.04.092. Epub 2014 May 15.PubMed [citation] PMID: 24836950

1146. Mu J, Zhuang X, Wang Q, Jiang H, Deng ZB, Wang B, Zhang L, Kakar S, Jun Y, Miller D, Zhang HG.Interspecies communication between plant and mouse gut host cells through edible plant derived exosome-like nanoparticles.Mol Nutr Food Res. 2014 Jul;58(7):1561-73. doi: 10.1002/mnfr.201300729. Epub 2014 May 19.PubMed [citation] PMID: 24842810

1147. Darville N, van Heerden M, Vynckier A, De Meulder M, Sterkens P, Annaert P, Van den Mooter G.Intramuscular administration of paliperidone palmitate extended-release injectable microsuspension induces a subclinical inflammatory reaction modulating the pharmacokinetics in rats.J Pharm Sci. 2014 Jul;103(7):2072-87. doi: 10.1002/jps.24014. Epub 2014 May 20.PubMed [citation] PMID: 24845884

1148. Dautova Y, Kozlova D, Skepper JN, Epple M, Bootman MD, Proudfoot D.Fetuin-A and albumin alter cytotoxic effects of calcium phosphate nanoparticles on human vascular smooth muscle cells.PLoS One. 2014;9(5):e97565. doi: 10.1371/journal.pone.0097565.PubMed [citation] PMID: 24849210, PMCID: PMC4029753

1149. Vaegler M, Maerz JK, Amend B, da Silva LA, Mannheim JG, Fuchs K, Will S, Sievert KD, Stenzl A, Hart ML, Aicher WK.Labelling and tracking of human mesenchymal stromal cells in preclinical studies and large animal models of degenerative diseases.Curr Stem Cell Res Ther. 2014;9(5):444-50. Review.PubMed [citation] PMID: 24853377

1150. Pourdanesh F, Jebali A, Hekmatimoghaddam S, Allaveisie A.In vitro and in vivo evaluation of a new nanocomposite, containing high density polyethylene, tricalcium phosphate, hydroxyapatite, and magnesium oxide nanoparticles.Mater Sci Eng C Mater Biol Appl. 2014 Jul 1;40:382-8. doi: 10.1016/j.msec.2014.04.018. Epub 2014 Apr 15.PubMed [citation] PMID: 24857506

1151. Kuo CH, Lu CY, Yang YC, Chin C, Weng BC, Liu CJ, Chen YH, Chang LL, Kuo FC, Wu DC, Su HL.Does long-term use of silver nanoparticles have persistent inhibitory effect on H. pylori based on Mongolian gerbil's model?Biomed Res Int. 2014;2014:461034. doi: 10.1155/2014/461034. Epub 2014 Apr 17.PubMed [citation] PMID: 24864246, PMCID: PMC4016839

1152. Ju E, Liu Z, Du Y, Tao Y, Ren J, Qu X.Heterogeneous assembled nanocomplexes for ratiometric detection of highly reactive oxygen species in vitro and in vivo.ACS Nano. 2014 Jun 24;8(6):6014-23. doi: 10.1021/nn501135m. Epub 2014 Jun 3.PubMed [citation] PMID: 24873414

1153. Howard MD, Hood ED, Greineder CF, Alferiev IS, Chorny M, Muzykantov V.Targeting to endothelial cells augments the protective effect of novel dual bioactive

antioxidant/anti-inflammatory nanoparticles.Mol Pharm. 2014 Jul 7;11(7):2262-70. doi: 10.1021/mp400677y. Epub 2014 Jun 17.PubMed [citation] PMID: 24877560, PMCID: PMC4086738

1154. Kim MH, Seo JH, Kim HM, Jeong HJ.Zinc oxide nanoparticles, a novel candidate for the treatment of allergic inflammatory diseases.Eur J Pharmacol. 2014 Sep 5;738:31-9. doi: 10.1016/j.ejphar.2014.05.030. Epub 2014 May 27.PubMed [citation] PMID: 24877691

1155. Ozbakir B, Crielaard BJ, Metselaar JM, Storm G, Lammers T.Liposomal corticosteroids for the treatment of inflammatory disorders and cancer.J Control Release. 2014 Sep 28;190:624-36. doi: 10.1016/j.jconrel.2014.05.039. Epub 2014 May 27. Review.PubMed [citation] PMID: 24878183

1156. Coaker H.High-density lipoproteins may offer a more promising route to statin therapy.Future Cardiol. 2014 Mar;10(2):164. No abstract available. PubMed [citation] PMID: 24883441

1157. Li Y, Jin M, Shao S, Huang W, Yang F, Chen W, Zhang S, Xia G, Gao Z.Small-sized polymeric micelles incorporating docetaxel suppress distant metastases in the clinically-relevant 4T1 mouse breast cancer model.BMC Cancer. 2014 May 10;14:329. doi: 10.1186/1471-2407-14-329.PubMed [citation] PMID: 24885518, PMCID: PMC4023534

1158. Andujar P, Simon-Deckers A, Galateau-Sallé F, Fayard B, Beaune G, Clin B, Billon-Galland MA, Durupthy O, Pairon JC, Doucet J, Boczkowski J, Lanone S.Role of metal oxide nanoparticles in histopathological changes observed in the lung of welders.Part Fibre Toxicol. 2014 May 13;11:23. doi: 10.1186/1743-8977-11-23.PubMed [citation] PMID: 24885771, PMCID: PMC4037282

1159. Moret F, Selvestrel F, Lubian E, Mognato M, Celotti L, Mancin F, Reddi E.PEGylation of ORMOSIL nanoparticles differently modulates the in vitro toxicity toward human lung cells.Arch Toxicol. 2015 Apr;89(4):607-20. doi: 10.1007/s00204-014-1273-z. Epub 2014 Jun 3.PubMed [citation] PMID: 24888373

1160. Niccoli Asabella A, Cascini GL, Altini C, Paparella D, Notaristefano A, Rubini G.The copper radioisotopes: a systematic review with special interest to 64Cu.Biomed Res Int. 2014;2014:786463. doi: 10.1155/2014/786463. Epub 2014 May 7.PubMed [citation] PMID: 24895611, PMCID: PMC4033511

1161. Nehoff H, Parayath NN, Domanovitch L, Taurin S, Greish K.Nanomedicine for drug targeting: strategies beyond the enhanced permeability and retention effect.Int J Nanomedicine. 2014;9:2539-55. doi: 10.2147/IJN.S47129. Review.PubMed [citation] PMID: 24904213, PMCID: PMC4039421

1162. Kutikhin AG, Yuzhalin AE, Borisov VV, Velikanova EA, Frolov AV, Sakharova VM, Brusina EB, Golovkin AS.Calcifying nanoparticles: one face of distinct entities?Front Microbiol. 2014;5:214. doi: 10.3389/fmicb.2014.00214. No abstract available. PubMed [citation] PMID: 24904533, PMCID: PMC4033009

1163. Jamshidi Adegani F, Langroudi L, Ardeshirylajimi A, Dinarvand P, Dodel M,

Doostmohammadi A, Rahimian A, Zohrabi P, Seyedjafari E, Soleimani M.Coating of electrospun poly(lactic-co-glycolic acid) nanofibers with willemite bioceramic: improvement of bone reconstruction in rat model.Cell Biol Int. 2014 Nov;38(11):1271-9. doi: 10.1002/cbin.10318. Epub 2014 Jun 6.PubMed [citation] PMID: 24905891

1164. Quach ND, Arnold RD, Cummings BS.Secretory phospholipase A2 enzymes as pharmacological targets for treatment of disease.Biochem Pharmacol. 2014 Aug 15;90(4):338-48. doi: 10.1016/j.bcp.2014.05.022. Epub 2014 Jun 4. Review.PubMed [citation] PMID: 24907600, PMCID: PMC4104246

1165. Umemoto EY, Speck M, Shimoda LM, Kahue K, Sung C, Stokes AJ, Turner H.Single-walled carbon nanotube exposure induces membrane rearrangement and suppression of receptor-mediated signalling pathways in model mast cells.Toxicol Lett. 2014 Aug 17;229(1):198-209. doi: 10.1016/j.toxlet.2014.06.009. Epub 2014 Jun 6.PubMed [citation] PMID: 24910985, PMCID: PMC4136761

1166. Yeh FY, Liu TY, Tseng IH, Yang CW, Lu LC, Lin CS.Gold nanoparticles conjugates-amplified aptamer immunosensing screen-printed carbon electrode strips for thrombin detection.Biosens Bioelectron. 2014 Nov 15;61:336-43. doi: 10.1016/j.bios.2014.05.007. Epub 2014 May 10.PubMed [citation] PMID: 24912033

1167. Saber AT, Jacobsen NR, Jackson P, Poulsen SS, Kyjovska ZO, Halappanavar S, Yauk CL, Wallin H, Vogel U.Particle-induced pulmonary acute phase response may be the causal link between particle inhalation and cardiovascular disease.Wiley Interdiscip Rev Nanomed Nanobiotechnol. 2014 Nov-Dec;6(6):517-31. doi: 10.1002/wnan.1279. Epub 2014 Jun 12.PubMed [citation] PMID: 24920450, PMCID: PMC4285160

1168. Hu X, Chen X, Zhang L, Lin X, Zhang Y, Tang X, Wang Y.A combined bottom-up/top-down approach to prepare a sterile injectable nanosuspension.Int J Pharm. 2014 Sep 10;472(1-2):130-9. doi: 10.1016/j.ijpharm.2014.06.018. Epub 2014 Jun 11.PubMed [citation] PMID: 24929013

1169. Lee CJ, Buznyk O, Kuffova L, Rajendran V, Forrester JV, Phopase J, Islam MM, Skog M, Ahlqvist J, Griffith M.Cathelicidin LL-37 and HSV-1 Corneal Infection: Peptide Versus Gene Therapy.Transl Vis Sci Technol. 2014 May;3(3):4.PubMed [citation] PMID: 24932432, PMCID: PMC4043105

1170. Fargnoli AS, Mu A, Katz MG, Williams RD, Margulies KB, Weiner DB, Yang S, Bridges CR.Anti-inflammatory loaded poly-lactic glycolic acid nanoparticle formulations to enhance myocardial gene transfer: an in-vitro assessment of a drug/gene combination therapeutic approach for direct injection.J Transl Med. 2014 Jun 16;12:171. doi: 10.1186/1479-5876-12-171.PubMed [citation] PMID: 24934216, PMCID: PMC4068839

1171. Nemmar A, Albarwani S, Beegam S, Yuvaraju P, Yasin J, Attoub S, Ali BH.Amorphous silica nanoparticles impair vascular homeostasis and induce systemic inflammation.Int J Nanomedicine. 2014;9:2779-89. doi: 10.2147/IJN.S52818.PubMed [citation] PMID: 24936130, PMCID: PMC4047982

1172. Marzaioli V, Aguilar-Pimentel JA, Weichenmeier I, Luxenhofer G, Wiemann M, Landsiedel R, Wohlleben W, Eiden S, Mempel M, Behrendt H, Schmidt-Weber C, Gutermuth J, Alessandrini F.Surface modifications of silica nanoparticles are crucial for their inert versus proinflammatory and immunomodulatory properties.Int J Nanomedicine. 2014;9:2815-32. doi: 10.2147/IJN.S57396.PubMed [citation] PMID: 24940059, PMCID: PMC4051720

1173. Zhou HF, Yan H, Hu Y, Springer LE, Yang X, Wickline SA, Pan D, Lanza GM, Pham CT.Fumagillin prodrug nanotherapy suppresses macrophage inflammatory response via endothelial nitric oxide.ACS Nano. 2014 Jul 22;8(7):7305-17. doi: 10.1021/nn502372n. Epub 2014 Jun 24.PubMed [citation] PMID: 24941020, PMCID: PMC4108210

1174. Thiagarajah JR, Yildiz H, Carlson T, Thomas AR, Steiger C, Pieretti A, Zukerberg LR, Carrier RL, Goldstein AM.Altered goblet cell differentiation and surface mucus properties in Hirschsprung disease.PLoS One. 2014;9(6):e99944. doi: 10.1371/journal.pone.0099944.PubMed [citation] PMID: 24945437, PMCID: PMC4063789

1175. Lu Y, Yang K, Zhou K, Pang B, Wang G, Ding Y, Zhang Q, Han H, Tian J, Li C, Ren Q.An Integrated Quad-Modality Molecular Imaging System for Small Animals.J Nucl Med. 2014 Jun 19;55(8):1375-1379. [Epub ahead of print]PubMed [citation] PMID: 24947062

1176. Leuschner F, Courties G, Dutta P, Mortensen LJ, Gorbatov R, Sena B, Novobrantseva TI, Borodovsky A, Fitzgerald K, Koteliansky V, Iwamoto Y, Bohlender M, Meyer S, Lasitschka F, Meder B, Katus HA, Lin C, Libby P, Swirski FK, Anderson DG, Weissleder R, Nahrendorf M.Silencing of CCR2 in myocarditis.Eur Heart J. 2014 Jun 20. doi:pii: ehu225. [Epub ahead of print]PubMed [citation] PMID: 24950695

1177. Hossain MA, Yamashita M, Vong LB, Ikeda Y, Nagasaki Y.Silica-installed redox nanoparticles for novel oral nanotherapeutics - improvement in intestinal delivery with anti-inflammatory effects.J Drug Target. 2014 Aug;22(7):638-47. doi: 10.3109/1061186X.2014.928716. Epub 2014 Jun 23.PubMed [citation] PMID: 24955616

1178. Hua S.Orally administered liposomal formulations for colon targeted drug delivery.Front Pharmacol. 2014;5:138. doi: 10.3389/fphar.2014.00138. No abstract available. PubMed [citation] PMID: 24959147, PMCID: PMC4050429

1179. Dewitte H, Verbeke R, Breckpot K, Vandenbroucke RE, Libert C, De Smedt SC, Lentacker I.Choose your models wisely: how different murine bone marrow-derived dendritic cell protocols influence the success of nanoparticulate vaccines in vitro.J Control Release. 2014 Dec 10;195:138-46. doi: 10.1016/j.jconrel.2014.06.024. Epub 2014 Jun 21.PubMed [citation] PMID: 24960224

1180. Bhattarai G, Lee YH, Yi HK.Peroxisome proliferator activated receptor gamma loaded dental implant improves osteogenesis of rat mandible.J Biomed Mater Res B Appl Biomater. 2015 Apr;103(3):587-95. doi: 10.1002/jbm.b.33207. Epub 2014 Jun 25.PubMed [citation] PMID: 24962969

1181. De AK, Sana S, Datta S, Mukherjee A.Protective efficacy of ursodeoxycholic acid nanoparticles in animal model of inflammatory bowel disease.J Microencapsul. 2014;31(8):725-37. doi: 10.3109/02652048.2014.918666. Epub 2014 Jun 25.PubMed [citation] PMID: 24963957

1182. Hong J, Wang L, Zhao X, Yu X, Sheng L, Xu B, Liu D, Zhu Y, Long Y, Hong F.Th2 factors may be involved in TiO_2 NP-induced hepatic inflammation.J Agric Food Chem. 2014 Jul 16;62(28):6871-8. doi: 10.1021/jf501428w. Epub 2014 Jul 8.PubMed [citation] PMID: 24971501

1183. Sund J, Palomäki J, Ahonen N, Savolainen K, Alenius H, Puustinen A.Phagocytosis of nano-sized titanium dioxide triggers changes in protein acetylation.J Proteomics. 2014 Aug 28;108:469-83. doi: 10.1016/j.jprot.2014.06.011. Epub 2014 Jun 25.PubMed [citation] PMID: 24972317

1184. Mastrofrancesco A, Alfè M, Rosato E, Gargiulo V, Beatrice C, Di Blasio G, Zhang B, Su DS, Picardo M, Fiorito S.Proinflammatory effects of diesel exhaust nanoparticles on scleroderma skin cells.J Immunol Res. 2014;2014:138751. doi: 10.1155/2014/138751. Epub 2014 Jun 1.PubMed [citation] PMID: 24982919, PMCID: PMC4058589

1185. Jessop F, Holian A.Extracellular HMGB1 regulates multi-walled carbon nanotube-induced inflammation in vivo.Nanotoxicology. 2014 Jul 1:1-8. [Epub ahead of print]PubMed [citation] PMID: 24983895

1186. Lee V, McMahan RS, Hu X, Gao X, Faustman EM, Griffith WC, Kavanagh TJ, Eaton DL, McGuire JK, Parks WC.Amphiphilic polymer-coated CdSe/ZnS quantum dots induce pro-inflammatory cytokine expression in mouse lung epithelial cells and macrophages.Nanotoxicology. 2014 Jul 1:1-8. [Epub ahead of print]PubMed [citation] PMID: 24983898

1187. Tölli MA, Ferreira MP, Kinnunen SM, Rysä J, Mäkilä EM, Szabó Z, Serpi RE, Ohukainen PJ, Välimäki MJ, Correia AM, Salonen JJ, Hirvonen JT, Ruskoaho HJ, Santos HA.In vivo biocompatibility of porous silicon biomaterials for drug delivery to the heart.Biomaterials. 2014 Sep;35(29):8394-405. doi: 10.1016/j.biomaterials.2014.05.078. Epub 2014 Jun 28.PubMed [citation] PMID: 24985734

1188. Al-Rasheed NM, Al-Rasheed NM, Abdel Baky NA, Faddah LM, Fatani AJ, Hasan IH, Mohamad RA.Prophylactic role of α-lipoic acid and vitamin E against zinc oxide nanoparticles induced metabolic and immune disorders in rat's liver.Eur Rev Med Pharmacol Sci. 2014;18(12):1813-28.PubMed [citation] PMID: 24992626

1189. Forest V, Pailleux M, Pourchez J, Boudard D, Tomatis M, Fubini B, Sennour M, Hochepied JF, Grosseau P, Cottier M.Toxicity of boehmite nanoparticles: impact of the ultrafine fraction and of the agglomerates size on cytotoxicity and pro-inflammatory response.Inhal Toxicol. 2014 Aug;26(9):545-53. doi: 10.3109/08958378.2014.925993. Epub 2014 Jul 3.PubMed [citation] PMID: 24992651

1190. Podrouzkova H, Feitova V, Panovsky R, Meluzin J, Orban M.Superparamagnetic iron oxide-enhanced magnetic resonance for imaging cardiac inflammation. A minireview.Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub. 2014 Jun 19. doi: 10.5507/bp.2014.030. [Epub ahead of print]PubMed [citation] PMID: 24993740

1191. Kannan RM, Nance E, Kannan S, Tomalia DA.Emerging concepts in dendrimer-based nanomedicine: from design principles to clinical applications.J Intern Med. 2014 Dec;276(6):579-617. doi: 10.1111/joim.12280. Epub 2014 Jul 31. Review.PubMed [citation] PMID: 24995512

1192. Madan JR, Khude PA, Dua K.Development and evaluation of solid lipid nanoparticles of mometasone furoate for topical delivery.Int J Pharm Investig. 2014 Apr;4(2):60-4. doi: 10.4103/2230-973X.133047.PubMed [citation] PMID: 25006550, PMCID: PMC4083535

1193. Hsieh PW, Wen CJ, Yu HP, Aljuffali IA, Huang YH, Fang JY.Nanostructured lipid carriers containing a high percentage of a Pluronic copolymer increase the biodistribution of novel PDE4 inhibitors for the treatment of traumatic hemorrhage.J Biomed Nanotechnol. 2014 Aug;10(8):1520-35.PubMed [citation] PMID: 25016652

1194. Pastuszka MK, Wang X, Lock LL, Janib SM, Cui H, DeLeve LD, MacKay JA.An amphipathic alpha-helical peptide from apolipoprotein A1 stabilizes protein polymer vesicles.J Control Release. 2014 Oct 10;191:15-23. doi: 10.1016/j.jconrel.2014.07.003. Epub 2014 Jul 10.PubMed [citation] PMID: 25016969, PMCID: PMC4327866

1195. Suresh PK, Sah AK.Patent perspectives for corticosteroids based ophthalmic therapeutics.Recent Pat Drug Deliv Formul. 2014;8(3):206-23.PubMed [citation] PMID: 25020063

1196. Poma A, Ragnelli AM, de Lapuente J, Ramos D, Borras M, Aimola P, Di Gioacchino M, Santucci S, De Marzi L.In vivo inflammatory effects of ceria nanoparticles on CD-1 mouse: evaluation by hematological, histological, and TEM analysis.J Immunol Res. 2014;2014:361419. doi: 10.1155/2014/361419. Epub 2014 Jun 17.PubMed [citation] PMID: 25032226, PMCID: PMC4086256

1197. Kyjovska ZO, Jacobsen NR, Saber AT, Bengtson S, Jackson P, Wallin H, Vogel U.DNA damage following pulmonary exposure by instillation to low doses of carbon black (Printex 90) nanoparticles in mice.Environ Mol Mutagen. 2015 Jan;56(1):41-9. doi: 10.1002/em.21888. Epub 2014 Jul 18.PubMed [citation] PMID: 25042074, PMCID: PMC4312987

1198. Vandergriff AC, Hensley TM, Henry ET, Shen D, Anthony S, Zhang J, Cheng K.Magnetic targeting of cardiosphere-derived stem cells with ferumoxytol nanoparticles for treating rats with myocardial infarction.Biomaterials. 2014 Oct;35(30):8528-39. doi: 10.1016/j.biomaterials.2014.06.031. Epub 2014 Jul 16.PubMed [citation] PMID: 25043570

1199. Shukla P, Dwivedi P, Gupta PK, Mishra PR.Optimization of novel tocopheryl acetate

nanoemulsions for parenteral delivery of curcumin for therapeutic intervention of sepsis.Expert Opin Drug Deliv. 2014 Nov;11(11):1697-712. doi: 10.1517/17425247.2014.932769. Epub 2014 Jul 21.PubMed [citation] PMID: 25046368

1200. Torvela T, Uski O, Karhunen T, Lähde A, Jalava P, Sippula O, Tissari J, Hirvonen MR, Jokiniemi J.Reference particles for toxicological studies of wood combustion: formation, characteristics, and toxicity compared to those of real wood combustion particulate mass.Chem Res Toxicol. 2014 Sep 15;27(9):1516-27. doi: 10.1021/tx500142f. Epub 2014 Aug 11.PubMed [citation] PMID: 25063562

1201. Vera M, Barcia E, Negro S, Marcianes P, García-García L, Slowing K, Fernández-Carballido A.New celecoxib multiparticulate systems to improve glioblastoma treatment.Int J Pharm. 2014 Oct 1;473(1-2):518-27. doi: 10.1016/j.ijpharm.2014.07.028. Epub 2014 Jul 24.PubMed [citation] PMID: 25066075

1202. Saputra D, Yoon JH, Park H, Heo Y, Yang H, Lee EJ, Lee S, Song CW, Lee K.Inhalation of carbon black nanoparticles aggravates pulmonary inflammation in mice.Toxicol Res. 2014 Jun;30(2):83-90. doi: 10.5487/TR.2014.30.2.083.PubMed [citation] PMID: 25071917, PMCID: PMC4112069

1203. Wardwell PR, Bader RA.Immunomodulation of cystic fibrosis epithelial cells via NF-κB decoy oligonucleotide-coated polysaccharide nanoparticles.J Biomed Mater Res A. 2015 May;103(5):1622-31. doi: 10.1002/jbm.a.35296. Epub 2014 Aug 14.PubMed [citation] PMID: 25087735

1204. Huang YC, Li RY.Preparation and characterization of antioxidant nanoparticles composed of chitosan and fucoidan for antibiotics delivery.Mar Drugs. 2014 Jul 31;12(8):4379-98. doi: 10.3390/md12084379.PubMed [citation] PMID: 25089950, PMCID: PMC4145322

1205. Morimoto Y, Izumi H, Kuroda E.Significance of persistent inflammation in respiratory disorders induced by nanoparticles.J Immunol Res. 2014;2014:962871. doi: 10.1155/2014/962871. Epub 2014 Jul 7. Review.PubMed [citation] PMID: 25097864, PMCID: PMC4109676

1206. Bönner F, Jacoby C, Temme S, Borg N, Ding Z, Schrader J, Flögel U.Multifunctional MR monitoring of the healing process after myocardial infarction.Basic Res Cardiol. 2014;109(5):430. doi: 10.1007/s00395-014-0430-0. Epub 2014 Aug 7.PubMed [citation] PMID: 25098936

1207. Fröhlich E, Meindl C, Wagner K, Leitinger G, Roblegg E.Use of whole genome expression analysis in the toxicity screening of nanoparticles.Toxicol Appl Pharmacol. 2014 Oct 15;280(2):272-84. doi: 10.1016/j.taap.2014.07.017. Epub 2014 Aug 4.PubMed [citation] PMID: 25102311, PMCID: PMC4222661

1208. Scoville DK, Schaupp CM, Baneyx F, Kavanagh TJ.In vivo approaches to assessing the toxicity of quantum dots.Methods Mol Biol. 2014;1199:179-90. doi: 10.1007/978-1-4939-1280-3_14.PubMed [citation] PMID: 25103809

1209. Ko EJ, Kwon YM, Lee JS, Hwang HS, Yoo SE, Lee YN, Lee YT, Kim MC, Cho MK, Lee YR,

Quan FS, Song JM, Lee S, Moore ML, Kang SM.Virus-like nanoparticle and DNA vaccination confers protection against respiratory syncytial virus by modulating innate and adaptive immune cells.Nanomedicine. 2015 Jan;11(1):99-108. doi: 10.1016/j.nano.2014.07.013. Epub 2014 Aug 8.PubMed [citation] PMID: 25109662, PMCID: PMC4280318

1210. Park EJ, Lee SY, Lee GH, Kim DW, Kim Y, Cho MH, Kim JH.Sheet-type titania, but not P25, induced paraptosis accompanying apoptosis in murine alveolar macrophage cells.Toxicol Lett. 2014 Oct 1;230(1):69-79. doi: 10.1016/j.toxlet.2014.07.027. Epub 2014 Aug 8.PubMed [citation] PMID: 25111187

1211. Xu X, Farach-Carson MC, Jia X.Three-dimensional in vitro tumor models for cancer research and drug evaluation.Biotechnol Adv. 2014 Nov 15;32(7):1256-68. doi: 10.1016/j.biotechadv.2014.07.009. Epub 2014 Aug 10.PubMed [citation] PMID: 25116894, PMCID: PMC4171250

1212. Xu L, Shi C, Shao A, Li X, Cheng X, Ding R, Wu G, Chou LL.Toxic responses in rat embryonic cells to silver nanoparticles and released silver ions as analyzed via gene expression profiles and transmission electron microscopy.Nanotoxicology. 2014 Aug 14:1-10. [Epub ahead of print]PubMed [citation] PMID: 25119417

1213. Ilves M, Palomäki J, Vippola M, Lehto M, Savolainen K, Savinko T, Alenius H.Topically applied ZnO nanoparticles suppress allergen induced skin inflammation but induce vigorous IgE production in the atopic dermatitis mouse model.Part Fibre Toxicol. 2014 Aug 14;11:38. doi: 10.1186/s12989-014-0038-4.PubMed [citation] PMID: 25123235, PMCID: PMC4237966

1214. Roy R, Kumar D, Sharma A, Gupta P, Chaudhari BP, Tripathi A, Das M, Dwivedi PD.ZnO nanoparticles induced adjuvant effect via toll-like receptors and Src signaling in Balb/c mice.Toxicol Lett. 2014 Nov 4;230(3):421-33. doi: 10.1016/j.toxlet.2014.08.008. Epub 2014 Aug 13.PubMed [citation] PMID: 25127755

1215. Thi EP, Mire CE, Ursic-Bedoya R, Geisbert JB, Lee AC, Agans KN, Robbins M, Deer DJ, Fenton KA, MacLachlan I, Geisbert TW.Marburg virus infection in nonhuman primates: Therapeutic treatment by lipid-encapsulated siRNA.Sci Transl Med. 2014 Aug 20;6(250):250ra116. doi: 10.1126/scitranslmed.3009706.PubMed [citation] PMID: 25143366

1216. Liberda EN, Cuevas AK, Qu Q, Chen LC.The acute exposure effects of inhaled nickel nanoparticles on murine endothelial progenitor cells.Inhal Toxicol. 2014 Aug;26(10):588-97. doi: 10.3109/08958378.2014.937882.PubMed [citation] PMID: 25144474, PMCID: PMC4212263

1217. Yan S, Rolfe BE, Zhang B, Mohammed YH, Gu W, Xu ZP.Polarized immune responses modulated by layered double hydroxides nanoparticle conjugated with CpG.Biomaterials. 2014 Nov;35(35):9508-16. doi: 10.1016/j.biomaterials.2014.07.055. Epub 2014 Aug 19.PubMed [citation] PMID: 25145853

1218. Zhang XQ, Even-Or O, Xu X, van Rosmalen M, Lim L, Gadde S, Farokhzad OC, Fisher

EA.Nanoparticles containing a liver X receptor agonist inhibit inflammation and atherosclerosis.Adv Healthc Mater. 2015 Jan 28;4(2):228-36. doi: 10.1002/adhm.201400337. Epub 2014 Aug 22.PubMed [citation] PMID: 25156796

1219. Zhou HF, Yan H, Pan H, Hou KK, Akk A, Springer LE, Hu Y, Allen JS, Wickline SA, Pham CT.Peptide-siRNA nanocomplexes targeting NF-κB subunit p65 suppress nascent experimental arthritis.J Clin Invest. 2014 Oct;124(10):4363-74. doi: 10.1172/JCI75673. Epub 2014 Aug 26.PubMed [citation] PMID: 25157820, PMCID: PMC4191028

1220. Liu WT, Bien MY, Chuang KJ, Chang TY, Jones T, BéruBé K, Lalev G, Tsai DH, Chuang HC, Cheng TJ; Taiwan CardioPulmonary Research (T-CPR) Group.Physicochemical and biological characterization of single-walled and double-walled carbon nanotubes in biological media.J Hazard Mater. 2014 Sep 15;280:216-25. doi: 10.1016/j.jhazmat.2014.07.069. Epub 2014 Aug 10.PubMed [citation] PMID: 25164386

1221. Durga M, Nathiya S, Rajasekar A, Devasena T.Effects of ultrafine petrol exhaust particles on cytotoxicity, oxidative stress generation, DNA damage and inflammation in human A549 lung cells and murine RAW 264.7 macrophages.Environ Toxicol Pharmacol. 2014 Sep;38(2):518-30. doi: 10.1016/j.etap.2014.08.003. Epub 2014 Aug 13.PubMed [citation] PMID: 25173103

1222. Jin R, Lin B, Li D, Ai H.Superparamagnetic iron oxide nanoparticles for MR imaging and therapy: design considerations and clinical applications.Curr Opin Pharmacol. 2014 Oct;18:18-27. doi: 10.1016/j.coph.2014.08.002. Epub 2014 Aug 30.PubMed [citation] PMID: 25173782

1223. David L, Moldovan B, Vulcu A, Olenic L, Perde-Schrepler M, Fischer-Fodor E, Florea A, Crisan M, Chiorean I, Clichici S, Filip GA.Green synthesis, characterization and anti-inflammatory activity of silver nanoparticles using European black elderberry fruits extract.Colloids Surf B Biointerfaces. 2014 Oct 1;122:767-77. doi: 10.1016/j.colsurfb.2014.08.018. Epub 2014 Aug 22.PubMed [citation] PMID: 25174985

1224. Chen S, Zhang C, Jia G, Duan J, Wang S, Zhang J.Size-dependent cytotoxicity of europium doped $NaYF_4$ nanoparticles in endothelial cells.Mater Sci Eng C Mater Biol Appl. 2014 Oct 1;43:330-42. doi: 10.1016/j.msec.2014.07.029. Epub 2014 Jul 12.PubMed [citation] PMID: 25175221

1225. Lin YH, Lin JH, Chou SC, Chang SJ, Chung CC, Chen YS, Chang CH.Berberine-loaded targeted nanoparticles as specific Helicobacter pylori eradication therapy: in vitro and in vivo study.Nanomedicine (Lond). 2015 Jan;10(1):57-71. doi: 10.2217/nnm.14.76. Epub 2014 Sep 1.PubMed [citation] PMID: 25177920

1226. Yu X, Zhao X, Ze Y, Wang L, Liu D, Hong J, Xu B, Lin A, Zhang C, Zhao Y, Li B, Hong F.Changes of serum parameters of TiO_2 nanoparticle-induced atherosclerosis in mice.J Hazard Mater. 2014 Sep 15;280:364-71. doi: 10.1016/j.jhazmat.2014.08.015. Epub 2014 Aug 20.PubMed [citation] PMID: 25179109

1227. Hamilton RF, Wu N, Xiang C, Li M, Yang F, Wolfarth M, Porter DW, Holian

A.Synthesis, characterization, and bioactivity of carboxylic acid-functionalized titanium dioxide nanobelts.Part Fibre Toxicol. 2014 Sep 2;11:43. doi: 10.1186/s12989-014-0043-7.PubMed [citation] PMID: 25179214, PMCID: PMC4237951

1228. McConnell KI, Rhudy J, Yokoi K, Gu J, Mack A, Suh J, La Francesca S, Sakamoto J, Serda RE.Enhanced gene delivery in porcine vasculature tissue following incorporation of adeno-associated virus nanoparticles into porous silicon microparticles.J Control Release. 2014 Nov 28;194:113-21. doi: 10.1016/j.jconrel.2014.08.020. Epub 2014 Aug 30.PubMed [citation] PMID: 25180449, PMCID: PMC4254029

1229. Zhang Y, Li W, Zheng Y, Wang X, Li G, Yang H.[Dynamic changes of pathological morphology and ultrastructure of lung injury in rats induced by SiO_2 nanoparticles].Zhonghua Lao Dong Wei Sheng Zhi Ye Bing Za Zhi. 2014 Jul;32(7):504-10. Chinese. PubMed [citation] PMID: 25182818

1230. Cao Y, Roursgaard M, Danielsen PH, Møller P, Loft S.Carbon black nanoparticles promote endothelial activation and lipid accumulation in macrophages independently of intracellular ROS production.PLoS One. 2014;9(9):e106711. doi: 10.1371/journal.pone.0106711.PubMed [citation] PMID: 25184212, PMCID: PMC4153655

1231. Garcia-Contreras R, Scougall-Vilchis RJ, Contreras-Bulnes R, Kanda Y, Nakajima H, Sakagami H.Effects of TiO2 nano glass ionomer cements against normal and cancer oral cells.In Vivo. 2014 Sep-Oct;28(5):895-907.PubMed [citation] PMID: 25189906

1232. Baeza-Squiban A.[Physio-pathological impacts of inhaled nanoparticles].Biol Aujourdhui. 2014;208(2):151-8. doi: 10.1051/jbio/2014019. Epub 2014 Sep 8. French. PubMed [citation] PMID: 25190574

1233. Jang SC, Kim SR, Yoon YJ, Park KS, Kim JH, Lee J, Kim OY, Choi EJ, Kim DK, Choi DS, Kim YK, Park J, Di Vizio D, Gho YS.In vivo kinetic biodistribution of nano-sized outer membrane vesicles derived from bacteria.Small. 2015 Jan 27;11(4):456-61. doi: 10.1002/smll.201401803. Epub 2014 Sep 5.PubMed [citation] PMID: 25196673

1234. Dufort S, Bianchi A, Henry M, Lux F, Le Duc G, Josserand V, Louis C, Perriat P, Crémillieux Y, Tillement O, Coll JL.Nebulized gadolinium-based nanoparticles: a theranostic approach for lung tumor imaging and radiosensitization.Small. 2015 Jan 14;11(2):215-21. doi: 10.1002/smll.201401284. Epub 2014 Sep 8.PubMed [citation] PMID: 25201285

1235. Shirasuna K, Usui F, Karasawa T, Kimura H, Kawashima A, Mizukami H, Ohkuchi A, Nishimura S, Sagara J, Noda T, Ozawa K, Taniguchi S, Takahashi M.Nanosilica-induced placental inflammation and pregnancy complications: Different roles of the inflammasome components NLRP3 and ASC.Nanotoxicology. 2014 Sep 11:1-14. [Epub ahead of print]PubMed [citation] PMID: 25211550

1236. Zheng W, Jiang B, Hao Y, Zhao Y, Zhang W, Jiang X.Screening reactive oxygen species scavenging properties of platinum nanoparticles on a microfluidic chip.Biofabrication. 2014 Sep 12;6(4):045004. doi:

10.1088/1758-5082/6/4/045004.PubMed [citation] PMID: 25215884

1237. Yoldas O, Karaca T, Bilgin BC, Yilmaz OH, Simsek GG, Alici IO, Uzdogan A, Karaca N, Akin T, Yoldas S, Akbiyik F.Tamoxifen citrate: a glimmer of hope for silicosis.J Surg Res. 2015 Jan;193(1):429-34. doi: 10.1016/j.jss.2014.08.013. Epub 2014 Aug 14.PubMed [citation] PMID: 25218282

1238. Nilsson JS, Broos S, Akagi T, Akashi M, Hermansson A, Cayé-Thomasen P, Lindstedt M, Greiff L.Amphiphilic γ-PGA nanoparticles administered on rat middle ear mucosa produce adjuvant-like immunostimulation in vivo.Acta Otolaryngol. 2014 Oct;134(10):1034-41. doi: 10.3109/00016489.2014.918278.PubMed [citation] PMID: 25220726

1239. Braakhuis HM, Gosens I, Krystek P, Boere J, Cassee FR, Fokkens P, Post J, van Loveren H, Park M.Particle size dependent deposition and pulmonary inflammation after short-term inhalation of silver nanoparticles.Part Fibre Toxicol. 2014 Sep 17;11(1):49. [Epub ahead of print]PubMed [citation] PMID: 25227272

1240. Rogers JL, Tarrant T, Kim JS.Nanoparticle-based diagnostic imaging of inflammation in rheumatic disease.Curr Rheumatol Rev. 2014;10(1):3-10.PubMed [citation] PMID: 25229498

1241. Babazada H, Yamashita F, Yanamoto S, Hashida M.Self-assembling lipid modified glycol-split heparin nanoparticles suppress lipopolysaccharide-induced inflammation through TLR4-NF-κB signaling.J Control Release. 2014 Nov 28;194:332-40. doi: 10.1016/j.jconrel.2014.09.011. Epub 2014 Sep 16.PubMed [citation] PMID: 25234820

1242. Snow SJ, McGee J, Miller DB, Bass V, Schladweiler MC, Thomas RF, Krantz T, King C, Ledbetter AD, Richards J, Weinstein JP, Conner T, Willis R, Linak WP, Nash D, Wood CE, Elmore SA, Morrison JP, Johnson CL, Gilmour MI, Kodavanti UP.Inhaled diesel emissions generated with cerium oxide nanoparticle fuel additive induce adverse pulmonary and systemic effects.Toxicol Sci. 2014 Dec;142(2):403-17. doi: 10.1093/toxsci/kfu187. Epub 2014 Sep 19.PubMed [citation] PMID: 25239632, PMCID: PMC4250845

1243. Ou J, Shi W, Xu Y, Tao Z.Intranasal immunization with DNA vaccine coexpressing Der p 1 and ubiquitin in an allergic rhinitis mouse model.Ann Allergy Asthma Immunol. 2014 Dec;113(6):658-665.e1. doi: 10.1016/j.anai.2014.08.015. Epub 2014 Sep 17.PubMed [citation] PMID: 25240330

1244. Villalba BT, Ianiski FR, Wilhelm EA, Fernandes RS, Alves MP, Luchese C.Meloxicam-loaded nanocapsules have antinociceptive and antiedematogenic effects in acute models of nociception.Life Sci. 2014 Oct 12;115(1-2):36-43. doi: 10.1016/j.lfs.2014.09.002. Epub 2014 Sep 18.PubMed [citation] PMID: 25241126

1245. Babazada H, Yamashita F, Hashida M.Suppression of experimental arthritis with self-assembling glycol-split heparin nanoparticles via inhibition of TLR4-NF-κB signaling.J Control Release. 2014 Nov 28;194:295-300. doi: 10.1016/j.jconrel.2014.09.015. Epub 2014 Sep 19.PubMed [citation] PMID: 25242730

1246. Girardi G, Fraser J, Lennen R, Vontell R, Jansen M, Hutchison G.Imaging of activated complement using ultrasmall superparamagnetic iron oxide particles (USPIO) - conjugated vectors: an in vivo in utero non-invasive method to predict placental insufficiency and abnormal fetal brain development.Mol Psychiatry. 2014 Sep 23. doi: 10.1038/mp.2014.110. [Epub ahead of print]PubMed [citation] PMID: 25245499, PMCID: PMC4288949

1247. Endes C, Schmid O, Kinnear C, Mueller S, Camarero-Espinosa S, Vanhecke D, Foster EJ, Petri-Fink A, Rothen-Rutishauser B, Weder C, Clift MJ.An in vitro testing strategy towards mimicking the inhalation of high aspect ratio nanoparticles.Part Fibre Toxicol. 2014 Sep 23;11:40. doi: 10.1186/s12989-014-0040-x.PubMed [citation] PMID: 25245637, PMCID: PMC4189630

1248. Sitnikov VP, Shil'ko SV, Khusam ÉR, Nadyrov ÉA, Kazachenko VP, Dzhaĭnakbaev NT.[The possibilities for the application of the fluoroplast-based prostheses with a diamond-like carbon nanocoating in ear surgery (an experimental study)].Vestn Otorinolaringol. 2014;(3):20-3. Russian. PubMed [citation] PMID: 25246203

1249. Møller P, Lykkesfeldt J.Positive charge, negative effect: the impact of cationic nanoparticles in the brain.Nanomedicine (Lond). 2014 Jul;9(10):1441-3. doi: 10.2217/nnm.14.91. No abstract available. PubMed [citation] PMID: 25253492

1250. Catalán J, Ilves M, Järventaus H, Hannukainen KS, Kontturi E, Vanhala E, Alenius H, Savolainen KM, Norppa H.Genotoxic and immunotoxic effects of cellulose nanocrystals in vitro.Environ Mol Mutagen. 2015 Mar;56(2):171-82. doi: 10.1002/em.21913. Epub 2014 Sep 24.PubMed [citation] PMID: 25257801

1251. Ma Z, Dagnaes-Hansen F, Løvschall H, Song W, Nielsen GK, Yang C, Wang Q, Kjems J, Gao S.Macrophage-mediated nanoparticle delivery to the periodontal lesions in established murine model via Pg-LPS induction.J Oral Pathol Med. 2014 Sep 25. doi: 10.1111/jop.12269. [Epub ahead of print]PubMed [citation] PMID: 25258036

1252. Hirani A, Grover A, Lee YW, Pathak Y, Sutariya V.Triamcinolone acetonide nanoparticles incorporated in thermoreversible gels for age-related macular degeneration.Pharm Dev Technol. 2014 Sep 26:1-7. [Epub ahead of print]PubMed [citation] PMID: 25259682

1253. Boland S, Hussain S, Baeza-Squiban A.Carbon black and titanium dioxide nanoparticles induce distinct molecular mechanisms of toxicity.Wiley Interdiscip Rev Nanomed Nanobiotechnol. 2014 Nov-Dec;6(6):641-52. doi: 10.1002/wnan.1302. Epub 2014 Sep 30.PubMed [citation] PMID: 25266826, PMCID: PMC4271458

1254. Lu X, Zhu T, Chen C, Liu Y.Right or left: the role of nanoparticles in pulmonary diseases.Int J Mol Sci. 2014 Sep 29;15(10):17577-600. doi: 10.3390/ijms151017577. Review.PubMed [citation] PMID: 25268624, PMCID: PMC4227179

1255. Ostrowski A, Nordmeyer D, Mundhenk L, Fluhr JW, Lademann J, Graf C, Rühl E, Gruber AD.AHAPS-functionalized silica nanoparticles do not modulate allergic

contact dermatitis in mice.Nanoscale Res Lett. 2014;9(1):524. doi: 10.1186/1556-276X-9-524.PubMed [citation] PMID: 25276110, PMCID: PMC4177380

1256. Dhapte V, Kadam S, Moghe A, Pokharkar V.Probing the wound healing potential of biogenic silver nanoparticles.J Wound Care. 2014 Sep;23(9):431-2, 434, 436 passim. doi: 10.12968/jowc.2014.23.9.431.PubMed [citation] PMID: 25284295

1257. Namdee K, Thompson AJ, Golinski A, Mocherla S, Bouis D, Eniola-Adefeso O.In vivo evaluation of vascular-targeted spheroidal microparticles for imaging and drug delivery application in atherosclerosis.Atherosclerosis. 2014 Nov;237(1):279-86. doi: 10.1016/j.atherosclerosis.2014.09.025. Epub 2014 Sep 30.PubMed [citation] PMID: 25286447

1258. Briley-Saebo K, Yeang C, Witztum JL, Tsimikas S.Imaging of oxidation-specific epitopes with targeted nanoparticles to detect high-risk atherosclerotic lesions: progress and future directions.J Cardiovasc Transl Res. 2014 Nov;7(8):719-36. doi: 10.1007/s12265-014-9590-4. Epub 2014 Oct 9.PubMed [citation] PMID: 25297940, PMCID: PMC4233166

1259. Cai MM, Wigg B, Smith ER, Hewitson TD, McMahon LP, Holt SG.Relative abundance of fetuin- A in peritoneal dialysis effluent and its association with in situ formation of calciprotein particles: an observational pilot study.Nephrology (Carlton). 2015 Jan;20(1):6-10. doi: 10.1111/nep.12350.PubMed [citation] PMID: 25307355

1260. Mokkaphan J, Banlunara W, Palaga T, Sombuntham P, Wanichwecharungruang S.Silicone surface with drug nanodepots for medical devices.ACS Appl Mater Interfaces. 2014 Nov 26;6(22):20188-96. doi: 10.1021/am505566m. Epub 2014 Oct 28.PubMed [citation] PMID: 25314005

1261. Abdel-Mottaleb MM, Try C, Pellequer Y, Lamprecht A.Nanomedicine strategies for targeting skin inflammation.Nanomedicine (Lond). 2014 Aug;9(11):1727-43. doi: 10.2217/nnm.14.74.PubMed [citation] PMID: 25321172

1262. Gebel T, Foth H, Damm G, Freyberger A, Kramer PJ, Lilienblum W, Röhl C, Schupp T, Weiss C, Wollin KM, Hengstler JG.Manufactured nanomaterials: categorization and approaches to hazard assessment.Arch Toxicol. 2014 Dec;88(12):2191-211. doi: 10.1007/s00204-014-1383-7. Epub 2014 Oct 19.PubMed [citation] PMID: 25326817

1263. Konduru N, Keller J, Ma-Hock L, Gröters S, Landsiedel R, Donaghey TC, Brain JD, Wohlleben W, Molina RM.Biokinetics and effects of barium sulfate nanoparticles.Part Fibre Toxicol. 2014 Oct 21;11(1):55. [Epub ahead of print]PubMed [citation] PMID: 25331813, PMCID: PMC4219084

1264. Wu W, Chen H, Li YM, Wang SY, Diao X, Liu KG.Intranasal sirna targeting c-kit reduces airway inflammation in experimental allergic asthma.Int J Clin Exp Pathol. 2014;7(9):5505-14.PubMed [citation] PMID: 25337192, PMCID: PMC4203163

1265. Moura CC, Segundo MA, Neves Jd, Reis S, Sarmento B.Co-association of methotrexate and SPIONs into anti-CD64 antibody-conjugated PLGA nanoparticles for theranostic

application.Int J Nanomedicine. 2014;9:4911-22. doi: 10.2147/IJN.S68440.PubMed [citation] PMID: 25364249, PMCID: PMC4211909

1266. Sisler JD, Pirela SV, Friend S, Farcas M, Schwegler-Berry D, Shvedova A, Castranova V, Demokritou P, Qian Y.Small airway epithelial cells exposure to printer-emitted engineered nanoparticles induces cellular effects on human microvascular endothelial cells in an alveolar-capillary co-culture model.Nanotoxicology. 2014 Nov 11:1-11. [Epub ahead of print]PubMed [citation] PMID: 25387250

1267. Luyts K, Smulders S, Napierska D, Van Kerckhoven S, Poels K, Scheers H, Hemmeryckx B, Nemery B, Hoylaerts MF, Hoet PH.Pulmonary and hemostatic toxicity of multi-walled carbon nanotubes and zinc oxide nanoparticles after pulmonary exposure in Bmal1 knockout mice.Part Fibre Toxicol. 2014 Nov 14;11(1):61. [Epub ahead of print]PubMed [citation] PMID: 25394423, PMCID: PMC4234845

1268. Duan J, Yu Y, Yu Y, Li Y, Wang J, Geng W, Jiang L, Li Q, Zhou X, Sun Z.Silica nanoparticles induce autophagy and endothelial dysfunction via the PI3K/Akt/mTOR signaling pathway.Int J Nanomedicine. 2014;9:5131-41. doi: 10.2147/IJN.S71074.PubMed [citation] PMID: 25395850, PMCID: PMC4227623

1269. Arora R, Kuhad A, Kaur IP, Chopra K.Curcumin loaded solid lipid nanoparticles ameliorate adjuvant-induced arthritis in rats.Eur J Pain. 2014 Nov 17. doi: 10.1002/ejp.620. [Epub ahead of print]PubMed [citation] PMID: 25400173

1270. Joshi N, Shirsath N, Singh A, Joshi KS, Banerjee R.Endogenous lung surfactant inspired pH responsive nanovesicle aerosols: pulmonary compatible and site-specific drug delivery in lung metastases.Sci Rep. 2014 Nov 18;4:7085. doi: 10.1038/srep07085.PubMed [citation] PMID: 25403950, PMCID: PMC4235800

1271. Autengruber A, Sydlik U, Kroker M, Hornstein T, Ale-Agha N, Stöckmann D, Bilstein A, Albrecht C, Paunel-Görgülü A, Suschek CV, Krutmann J, Unfried K.Signalling-dependent adverse health effects of carbon nanoparticles are prevented by the compatible solute mannosylglycerate (firoin) in vitro and in vivo.PLoS One. 2014;9(11):e111485. doi: 10.1371/journal.pone.0111485.PubMed [citation] PMID: 25415441, PMCID: PMC4240547

1272. Padmanabhan J, Kyriakides TR.Nanomaterials, inflammation, and tissue engineering.Wiley Interdiscip Rev Nanomed Nanobiotechnol. 2015 May;7(3):355-70. doi: 10.1002/wnan.1320. Epub 2014 Nov 25.PubMed [citation] PMID: 25421333, PMCID: PMC4397128

1273. Seyfer P.[Cancer and inflammation: differentiation by USPIO-enhanced MR imaging].Rofo. 2014 Dec;186(12):1140-8. doi: 10.1055/s-0034-1385362. Epub 2014 Nov 25. German. PubMed [citation] PMID: 25423102

1274. Kuroo M.[New Developments in CKD-MBD. Why is phosphate overload harmful?].Clin Calcium. 2014 Dec;24(12):1785-92. doi: CliCa141217851792. Japanese. PubMed [citation] PMID: 25423923

1275. Dohnert MB, Ferreira GK, Silveira PC, Zanoni ET, Dohnert LH, de Souza CT, Paula MM.Inflammatory Cytokines Content in Achilles Tendinopathy after Phonophoresis Treatment Combined with Gold Nanoparticles and Diclophenac Diethylammonium in Rats.Inflammation. 2014 Nov 27. [Epub ahead of print]PubMed [citation] PMID: 25428204

1276. Rahman M, Akhter S, Ahmad J, Ahmad MZ, Beg S, Ahmad FJ.Nanomedicine-based drug targeting for psoriasis: potentials and emerging trends in nanoscale pharmacotherapy.Expert Opin Drug Deliv. 2015 Apr;12(4):635-52. doi: 10.1517/17425247.2015.982088. Epub 2014 Dec 2.PubMed [citation] PMID: 25439967

1277. Coccini T, Barni S, Mustarelli P, Locatelli C, Roda E.One-month persistence of inflammation and alteration of fibrotic marker and cytoskeletal proteins in rat kidney after Cd-doped silica nanoparticle instillation.Toxicol Lett. 2015 Jan 22;232(2):449-57. doi: 10.1016/j.toxlet.2014.11.021. Epub 2014 Nov 21.PubMed [citation] PMID: 25445720

1278. Qin Y, Zhou ZW, Pan ST, He ZX, Zhang X, Qiu JX, Duan W, Yang T, Zhou SF.Graphene quantum dots induce apoptosis, autophagy, and inflammatory response via p38 mitogen-activated protein kinase and nuclear factor-κB mediated signaling pathways in activated THP-1 macrophages.Toxicology. 2015 Jan 2;327:62-76. doi: 10.1016/j.tox.2014.10.011. Epub 2014 Oct 27.PubMed [citation] PMID: 25446327

1279. Tarantini A, Lanceleur R, Mourot A, Lavault MT, Casterou G, Jarry G, Hogeveen K, Fessard V.Toxicity, genotoxicity and proinflammatory effects of amorphous nanosilica in the human intestinal Caco-2 cell line.Toxicol In Vitro. 2015 Mar;29(2):398-407. doi: 10.1016/j.tiv.2014.10.023. Epub 2014 Nov 13.PubMed [citation] PMID: 25448807

1280. Guichard Y, Maire MA, Sébillaud S, Fontana C, Langlais C, Micillino JC, Darne C, Roszak J, Stępnik M, Fessard V, Binet S, Gaté L.Genotoxicity of synthetic amorphous silica nanoparticles in rats following short-term exposure. Part 2: intratracheal instillation and intravenous injection.Environ Mol Mutagen. 2015 Mar;56(2):228-44. doi: 10.1002/em.21928. Epub 2014 Nov 28.PubMed [citation] PMID: 25451515

1281. Gustafsson A, Jonasson S, Sandström T, Lorentzen JC, Bucht A.Genetic variation influences immune responses in sensitive rats following exposure to TiO2 nanoparticles.Toxicology. 2014 Dec 4;326:74-85. doi: 10.1016/j.tox.2014.10.004. Epub 2014 Oct 14.PubMed [citation] PMID: 25456268

1282. Huang CL, Hsiao IL, Lin HC, Wang CF, Huang YJ, Chuang CY.Silver nanoparticles affect on gene expression of inflammatory and neurodegenerative responses in mouse brain neural cells.Environ Res. 2015 Jan;136:253-63. doi: 10.1016/j.envres.2014.11.006. Epub 2014 Nov 20.PubMed [citation] PMID: 25460644

1283. Medina-Reyes EI, Déciga-Alcaraz A, Freyre-Fonseca V, Delgado-Buenrostro NL, Flores-Flores JO, Gutiérrez-López GF, Sánchez-Pérez Y, García-Cuéllar CM, Pedraza-Chaverri J, Chirino YI.Titanium dioxide nanoparticles induce an adaptive inflammatory response and invasion and proliferation of lung epithelial cells in

chorioallantoic membrane.Environ Res. 2015 Jan;136:424-34. doi: 10.1016/j.envres.2014.10.016. Epub 2014 Nov 25.PubMed [citation] PMID: 25460664

1284. Huk A, Izak-Nau E, Reidy B, Boyles M, Duschl A, Lynch I, Dušinska M.Is the toxic potential of nanosilver dependent on its size?Part Fibre Toxicol. 2014 Dec 3;11:65. doi: 10.1186/s12989-014-0065-1.PubMed [citation] PMID: 25466209, PMCID: PMC4274708

1285. Wang J, Fan Y.Lung injury induced by TiO2 nanoparticles depends on their structural features: size, shape, crystal phases, and surface coating.Int J Mol Sci. 2014 Dec 3;15(12):22258-78. doi: 10.3390/ijms151222258.PubMed [citation] PMID: 25479073, PMCID: PMC4284706

1286. Jaworska A, Jamieson LE, Malek K, Campbell CJ, Choo J, Chlopicki S, Baranska M.SERS-based monitoring of the intracellular pH in endothelial cells: the influence of the extracellular environment and tumour necrosis factor-α.Analyst. 2015 Mar 16;140(7):2321-9. doi: 10.1039/c4an01988a.PubMed [citation] PMID: 25485622

1287. Hara K, Shirasuna K, Usui F, Karasawa T, Mizushina Y, Kimura H, Kawashima A, Ohkuchi A, Matsuyama S, Kimura K, Takahashi M.Interferon-tau attenuates uptake of nanoparticles and secretion of interleukin-1β in macrophages.PLoS One. 2014;9(12):e113974. doi: 10.1371/journal.pone.0113974.PubMed [citation] PMID: 25486008, PMCID: PMC4259327

1288. Savi M, Rossi S, Bocchi L, Gennaccaro L, Cacciani F, Perotti A, Amidani D, Alinovi R, Goldoni M, Aliatis I, Lottici P, Bersani D, Campanini M, Pinelli S, Petyx M, Frati C, Gervasi A, Urbanek K, Quaini F, Buschini A, Stilli D, Rivetti C, et al.Titanium dioxide nanoparticles promote arrhythmias via a direct interaction with rat cardiac tissue.Part Fibre Toxicol. 2014 Dec 9;11(1):63. [Epub ahead of print]PubMed [citation] PMID: 25487314, PMCID: PMC4349471

1289. Liu X, Hao W, Lok CN, Wang YC, Zhang R, Wong KK.Dendrimer encapsulation enhances anti-inflammatory efficacy of silver nanoparticles.J Pediatr Surg. 2014 Dec;49(12):1846-51. doi: 10.1016/j.jpedsurg.2014.09.033. Epub 2014 Oct 1.PubMed [citation] PMID: 25487498

1290. Grzincic EM, Yang JA, Drnevich J, Falagan-Lotsch P, Murphy CJ.Global transcriptomic analysis of model human cell lines exposed to surface-modified gold nanoparticles: the effect of surface chemistry.Nanoscale. 2015 Jan 28;7(4):1349-62. doi: 10.1039/c4nr05166a.PubMed [citation] PMID: 25491924

1291. Braydich-Stolle LK, Breitner EK, Comfort KK, Schlager JJ, Hussain SM.Dynamic characteristics of silver nanoparticles in physiological fluids: toxicological implications.Langmuir. 2014 Dec 23;30(50):15309-16. doi: 10.1021/la5036079. Epub 2014 Dec 12.PubMed [citation] PMID: 25496452

1292. Bogdanov AA Jr, Gupta S, Koshkina N, Corr SJ, Zhang S, Curley SA, Han G.Gold nanoparticles stabilized with MPEG-grafted poly(l-lysine): in vitro and in vivo evaluation of a potential theranostic agent.Bioconjug Chem. 2015 Jan

21;26(1):39-50. doi: 10.1021/bc5005087. Epub 2014 Dec 11.PubMed [citation] PMID: 25496453, PMCID: PMC4306512

1293. Sanpui P, Zheng X, Loeb JC, Bisesi Jr JH, Khan IA, Afrooz AR, Liu K, Badireddy A, Wiesner MR, Ferguson P, Saleh NB, Lednicky JA, Sabo-Attwood T.Single-walled carbon nanotubes increase pandemic influenza A H1N1 virus infectivity of lung epithelial cells.Part Fibre Toxicol. 2014 Dec 14;11(1):66. [Epub ahead of print]PubMed [citation] PMID: 25497303, PMCID: PMC4318452

1294. Rabolli V, Badissi A, Devosse R, Uwambayinema F, Yakoub Y, Palmai-Pallag M, Lebrun A, De Gussem V, Couillin I, Ryffel B, Marbaix E, Lison D, Huaux F.The alarmin IL-1¿ is a master cytokine in acute lung inflammation induced by silica micro- and nanoparticles.Part Fibre Toxicol. 2014 Dec 13;11(1):69. [Epub ahead of print]PubMed [citation] PMID: 25497724, PMCID: PMC4279463

1295. Zhang R, Dai Y, Zhang X, Niu Y, Meng T, Li Y, Duan H, Bin P, Ye M, Jia X, Shen M, Yu S, Yang X, Gao W, Zheng Y.Reduced pulmonary function and increased pro-inflammatory cytokines in nanoscale carbon black-exposed workers.Part Fibre Toxicol. 2014 Dec 14;11(1):73. [Epub ahead of print]PubMed [citation] PMID: 25497989, PMCID: PMC4318129

1296. Do Carmo GM, Baldissera MD, Vaucher RA, Rech VC, Oliveira CB, Sagrillo MR, Boligon AA, Athayde ML, Alves MP, França RT, Lopes ST, Schwertz CI, Mendes RE, Monteiro SG, Da Silva AS.Effect of the treatment with Achyrocline satureioides (free and nanocapsules essential oil) and diminazene aceturate on hematological and biochemical parameters in rats infected by Trypanosoma evansi.Exp Parasitol. 2015 Feb;149:39-46. doi: 10.1016/j.exppara.2014.12.005. Epub 2014 Dec 9.PubMed [citation] PMID: 25499512

1297. Ninan N, Thomas S, Grohens Y.Wound healing in urology.Adv Drug Deliv Rev. 2015 Mar;82-83C:93-105. doi: 10.1016/j.addr.2014.12.002. Epub 2014 Dec 9. Review.PubMed [citation] PMID: 25500273

1298. Halappanavar S, Saber AT, Decan N, Jensen KA, Wu D, Jacobsen NR, Guo C, Rogowski J, Koponen IK, Levin M, Madsen AM, Atluri R, Snitka V, Birkedal RK, Rickerby D, Williams A, Wallin H, Yauk CL, Vogel U.Transcriptional profiling identifies physicochemical properties of nanomaterials that are determinants of the in vivo pulmonary response.Environ Mol Mutagen. 2015 Mar;56(2):245-64. doi: 10.1002/em.21936. Epub 2014 Dec 11.PubMed [citation] PMID: 25504612

1299. Lemos H, Huang L, McGaha T, Mellor AL.STING, nanoparticles, autoimmune disease and cancer: a novel paradigm for immunotherapy?Expert Rev Clin Immunol. 2015 Jan;11(1):155-65. doi: 10.1586/1744666X.2015.995097. Epub 2014 Dec 18.PubMed [citation] PMID: 25521938, PMCID: PMC4387570

1300. Puligujja P, Balkundi SS, Kendrick LM, Baldridge HM, Hilaire JR, Bade AN, Dash PK, Zhang G, Poluektova LY, Gorantla S, Liu XM, Ying T, Feng Y, Wang Y, Dimitrov DS, McMillan JM, Gendelman HE.Pharmacodynamics of long-acting folic acid-receptor targeted ritonavir-boosted atazanavir nanoformulations.Biomaterials. 2015 Feb;41:141-50. doi: 10.1016/j.biomaterials.2014.11.012. Epub 2014 Dec 9.PubMed

[citation] PMID: 25522973, PMCID: PMC4272445

1301. Alinovi R, Goldoni M, Pinelli S, Campanini M, Aliatis I, Bersani D, Lottici PP, Iavicoli S, Petyx M, Mozzoni P, Mutti A.Oxidative and pro-inflammatory effects of cobalt and titanium oxide nanoparticles on aortic and venous endothelial cells.Toxicol In Vitro. 2015 Apr;29(3):426-37. doi: 10.1016/j.tiv.2014.12.007. Epub 2014 Dec 16.PubMed [citation] PMID: 25526690

1302. Arai Y, Miyayama T, Hirano S.Difference in the toxicity mechanism between ion and nanoparticle forms of silver in the mouse lung and in macrophages.Toxicology. 2015 Feb 3;328:84-92. doi: 10.1016/j.tox.2014.12.014. Epub 2014 Dec 16.PubMed [citation] PMID: 25527144

1303. Ali ME, McConville JT, Lamprecht A.Pulmonary delivery of anti-inflammatory agents.Expert Opin Drug Deliv. 2014 Dec 23:1-17. [Epub ahead of print]PubMed [citation] PMID: 25534260

1304. Freese C, Schreiner D, Anspach L, Bantz C, Maskos M, Unger RE, Kirkpatrick C.In vitro investigation of silica nanoparticle uptake into human endothelial cells under physiological cyclic stretch.Part Fibre Toxicol. 2014 Dec 24;11(1):1. [Epub ahead of print]PubMed [citation] PMID: 25539809, PMCID: PMC4318365

1305. Gällentoft L, Pettersson LM, Danielsen N, Schouenborg J, Prinz CN, Linsmeier CE.Size-dependent long-term tissue response to biostable nanowires in the brain.Biomaterials. 2015 Feb;42:172-83. doi: 10.1016/j.biomaterials.2014.11.051. Epub 2014 Dec 16.PubMed [citation] PMID: 25542805

1306. Yang C, Nilsson L, Cheema MU, Wang Y, Frøkiær J, Gao S, Kjems J, Nørregaard R.Chitosan/siRNA nanoparticles targeting cyclooxygenase type 2 attenuate unilateral ureteral obstruction-induced kidney injury in mice.Theranostics. 2015;5(2):110-23. doi: 10.7150/thno.9717.PubMed [citation] PMID: 25553102, PMCID: PMC4278998

1307. Yousef JM, Mohamed AM.Prophylactic role of B vitamins against bulk and zinc oxide nano-particles toxicity induced oxidative DNA damage and apoptosis in rat livers.Pak J Pharm Sci. 2015 Jan;28(1):175-84.PubMed [citation] PMID: 25553694

1308. Chen X, Zhouhua W, Jie Z, Xinlu F, Jinqiang L, Yuwen Q, Zhiying H.Renal interstitial fibrosis induced by high-dose mesoporous silica nanoparticles via the NF-κB signaling pathway.Int J Nanomedicine. 2015;10:1-22. doi: 10.2147/IJN.S73538.PubMed [citation] PMID: 25565800, PMCID: PMC4275059

1309. Park HS, Kim SJ, Lee TJ, Kim GY, Meang E, Hong JS, Kim SH, Koh SB, Hong SG, Sun YS, Kang JS, Kim YR, Kim MK, Jeong J, Lee JK, Son WC, Park JH.A 90-day study of sub-chronic oral toxicity of 20 nm positively charged zinc oxide nanoparticles in Sprague Dawley rats.Int J Nanomedicine. 2014;9 Suppl 2:93-107. doi: 10.2147/IJN.S57927.PubMed [citation] PMID: 25565829, PMCID: PMC4279754

1310. Bartneck M, Warzecha KT, Tacke F.Therapeutic targeting of liver inflammation and fibrosis by nanomedicine.Hepatobiliary Surg Nutr. 2014 Dec;3(6):364-76. doi:

10.3978/j.issn.2304-3881.2014.11.02. Review.PubMed [citation] PMID: 25568860, PMCID: PMC4273112

1311. Younes NR, Amara S, Mrad I, Ben-Slama I, Jeljeli M, Omri K, El Ghoul J, El Mir L, Rhouma KB, Abdelmelek H, Sakly M.Subacute toxicity of titanium dioxide (TiO(2)) nanoparticles in male rats: emotional behavior and pathophysiological examination.Environ Sci Pollut Res Int. 2015 Jan 10. [Epub ahead of print]PubMed [citation] PMID: 25572266

1312. Yun JW, Yoon JH, Kang BC, Cho NH, Seok SH, Min SK, Min JH, Che JH, Kim YK.The toxicity and distribution of iron oxide-zinc oxide core-shell nanoparticles in C57BL/6 mice after repeated subcutaneous administration.J Appl Toxicol. 2015 Jan 8. doi: 10.1002/jat.3102. [Epub ahead of print]PubMed [citation] PMID: 25572658

1313. Büll C, Boltje TJ, van Dinther EA, Peters T, de Graaf AM, Leusen JH, Kreutz M, Figdor CG, den Brok MH, Adema GJ.Targeted delivery of a sialic acid-blocking glycomimetic to cancer cells inhibits metastatic spread.ACS Nano. 2015 Jan 27;9(1):733-45. doi: 10.1021/nn5061964. Epub 2015 Jan 14.PubMed [citation] PMID: 25575241

1314. Duda F, Kieke M, Waltz F, Schweinefuß ME, Badar M, Müller PP, Esser KH, Lenarz T, Behrens P, Prenzler NK.Highly biocompatible behaviour and slow degradation of a LDH (layered double hydroxide)-coating on implants in the middle ear of rabbits.J Mater Sci Mater Med. 2015 Jan;26(1):5334. doi: 10.1007/s10856-014-5334-x. Epub 2015 Jan 11.PubMed [citation] PMID: 25577215

1315. Fakanya WM, Tothill IE.Detection of the inflammation biomarker C-reactive protein in serum samples: towards an optimal biosensor formula.Biosensors (Basel). 2014 Dec;4(4):340-57. doi: 10.3390/bios4040340.PubMed [citation] PMID: 25587427, PMCID: PMC4287706

1316. Saxena T, Loomis KH, Pai SB, Karumbaiah L, Gaupp E, Patil K, Patkar R, Bellamkonda RV.Nanocarrier-mediated inhibition of macrophage migration inhibitory factor attenuates secondary injury after spinal cord injury.ACS Nano. 2015 Feb 24;9(2):1492-505. doi: 10.1021/nn505980z. Epub 2015 Jan 28.PubMed [citation] PMID: 25587936

1317. Simard JC, Vallieres F, de Liz R, Lavastre V, Girard D.Silver nanoparticles induce degradation of the endoplasmic reticulum stress sensor activating transcription factor-6 leading to activation of the NLRP-3 inflammasome.J Biol Chem. 2015 Feb 27;290(9):5926-39. doi: 10.1074/jbc.M114.610899. Epub 2015 Jan 15.PubMed [citation] PMID: 25593314, PMCID: PMC4342498

1318. Mogosanu GD, Grumezescu AM, Huang KS, Bejenaru LE, Bejenaru C.Prevention of microbial communities: novel approaches based natural products.Curr Pharm Biotechnol. 2015;16(2):94-111.PubMed [citation] PMID: 25594287

1319. Robbins GR, Roberts RA, Guo H, Reuter K, Shen T, Sempowski GD, McKinnon KP, Su L, DeSimone JM, Ting JP.Analysis of human innate immune responses to PRINT fabricated nanoparticles with cross validation using a humanized mouse

model.Nanomedicine. 2015 Apr;11(3):589-99. doi: 10.1016/j.nano.2014.11.010. Epub 2015 Jan 14.PubMed [citation] PMID: 25596079, PMCID: PMC4385431

1320. Delaval M, Boland S, Solhonne B, Nicola MA, Mornet S, Baeza-Squiban A, Sallenave JM, Garcia-Verdugo I.Acute exposure to silica nanoparticles enhances mortality and increases lung permeability in a mouse model of Pseudomonas aeruginosa pneumonia.Part Fibre Toxicol. 2015 Jan 21;12(1):1.PubMed [citation] PMID: 25605549, PMCID: PMC4318199

1321. Asasutjarit R, Theerachayanan T, Kewsuwan P, Veeranodha S, Fuongfuchat A, Ritthidej GC.Development and Evaluation of Diclofenac Sodium Loaded-N-Trimethyl Chitosan Nanoparticles for Ophthalmic Use.AAPS PharmSciTech. 2015 Jan 22. [Epub ahead of print]PubMed [citation] PMID: 25609376

1322. Hwang TL, Aljuffali IA, Lin CF, Chang YT, Fang JY.Cationic additives in nanosystems activate cytotoxicity and inflammatory response of human neutrophils: lipid nanoparticles versus polymeric nanoparticles.Int J Nanomedicine. 2015;10:371-85. doi: 10.2147/IJN.S73017.PubMed [citation] PMID: 25609950, PMCID: PMC4294622

1323. Buda A, Facchin S, Dassie E, Casarin E, Jepson MA, Neumann H, Hatem G, Realdon S, D'Incà R, Sturniolo GC, Morpurgo M.Detection of a fluorescent-labeled avidin-nucleic acid nanoassembly by confocal laser endomicroscopy in the microvasculature of chronically inflamed intestinal mucosa.Int J Nanomedicine. 2015;10:399-408. doi: 10.2147/IJN.S70153.PubMed [citation] PMID: 25609952, PMCID: PMC4294647

1324. Selim ME, Abd-Elhakim YM, Al-Ayadhi LY.Pancreatic response to gold nanoparticles includes decrease of oxidative stress and inflammation in autistic diabetic model.Cell Physiol Biochem. 2015;35(2):586-600. doi: 10.1159/000369721. Epub 2015 Jan 27.PubMed [citation] PMID: 25612738

1325. Gentile P, Bellucci D, Sola A, Mattu C, Cannillo V, Ciardelli G.Composite scaffolds for controlled drug release: role of the polyurethane nanoparticles on the physical properties and cell behaviour.J Mech Behav Biomed Mater. 2015 Apr;44:53-60. doi: 10.1016/j.jmbbm.2014.12.017. Epub 2014 Dec 24.PubMed [citation] PMID: 25617789

1326. Migliore L, Uboldi C, Di Bucchianico S, Coppedè F.Nanomaterials and neurodegeneration.Environ Mol Mutagen. 2015 Mar;56(2):149-70. doi: 10.1002/em.21931. Epub 2015 Jan 28. Review.PubMed [citation] PMID: 25627719

1327. Silva RM, Anderson DS, Franzi LM, Peake JL, Edwards PC, Van Winkle LS, Pinkerton KE.Pulmonary effects of silver nanoparticle size, coating, and dose over time upon intratracheal instillation.Toxicol Sci. 2015 Mar;144(1):151-62. doi: 10.1093/toxsci/kfu265. Epub 2015 Jan 26.PubMed [citation] PMID: 25628415, PMCID: PMC4349140

1328. Hofmann F, Bläsche R, Kasper M, Barth K.A co-culture system with an organotypic lung slice and an immortal alveolar macrophage cell line to quantify

silica-induced inflammation.PLoS One. 2015;10(1):e0117056. doi: 10.1371/journal.pone.0117056.PubMed [citation] PMID: 25635824, PMCID: PMC4312074

1329. Al-Ahmady ZS, Scudamore CL, Kostarelos K.Triggered doxorubicin release in solid tumors from thermosensitive liposome-peptide hybrids: Critical parameters and therapeutic efficacy.Int J Cancer. 2015 Jan 13. doi: 10.1002/ijc.29430. [Epub ahead of print]PubMed [citation] PMID: 25639452

1330. Saptarshi SR, Feltis BN, Wright PF, Lopata AL.Investigating the immunomodulatory nature of zinc oxide nanoparticles at sub-cytotoxic levels in vitro and after intranasal instillation in vivo.J Nanobiotechnology. 2015 Feb 3;13(1):6. doi: 10.1186/s12951-015-0067-7.PubMed [citation] PMID: 25645871, PMCID: PMC4324663

1331. Chen J, Vemuri C, Palekar RU, Gaut JP, Goette M, Hu L, Cui G, Zhang H, Wickline SA.Antithrombin nanoparticles improve kidney reperfusion and protect kidney function after ischemia-reperfusion injury.Am J Physiol Renal Physiol. 2015 Apr 1;308(7):F765-73. doi: 10.1152/ajprenal.00457.2014. Epub 2015 Jan 28.PubMed [citation] PMID: 25651565, PMCID: PMC4385886

1332. Baron L, Gombault A, Fanny M, Villeret B, Savigny F, Guillou N, Panek C, Le Bert M, Lagente V, Rassendren F, Riteau N, Couillin I.The NLRP3 inflammasome is activated by nanoparticles through ATP, ADP and adenosine.Cell Death Dis. 2015 Feb 5;6:e1629. doi: 10.1038/cddis.2014.576.PubMed [citation] PMID: 25654762

1333. Severino P, Andreani T, Chaud MV, Benites CI, Pinho SC, Souto EB.Essential oils as active ingredients of lipid nanocarriers for chemotherapeutic use.Curr Pharm Biotechnol. 2015;16(4):365-70.PubMed [citation] PMID: 25658380

1334. Ishino K, Kato T, Kato M, Shibata T, Watanabe M, Wakabayashi K, Nakagama H, Totsuka Y.Comprehensive DNA adduct analysis reveals pulmonary inflammatory response contributes to genotoxic action of magnetite nanoparticles.Int J Mol Sci. 2015 Feb 4;16(2):3474-92. doi: 10.3390/ijms16023474.PubMed [citation] PMID: 25658799, PMCID: PMC4346908

1335. He C, Yin L, Song Y, Tang C, Yin C.Optimization of multifunctional chitosan-siRNA nanoparticles for oral delivery applications, targeting TNF-α silencing in rats.Acta Biomater. 2015 Apr 15;17:98-106. doi: 10.1016/j.actbio.2015.01.041. Epub 2015 Feb 7.PubMed [citation] PMID: 25662912

1336. Leoni G, Neumann PA, Kamaly N, Quiros M, Nishio H, Jones HR, Sumagin R, Hilgarth RS, Alam A, Fredman G, Argyris I, Rijcken E, Kusters D, Reutelingsperger C, Perretti M, Parkos CA, Farokhzad OC, Neish AS, Nusrat A.Annexin A1-containing extracellular vesicles and polymeric nanoparticles promote epithelial wound repair.J Clin Invest. 2015 Mar 2;125(3):1215-27. doi: 10.1172/JCI76693. Epub 2015 Feb 9.PubMed [citation] PMID: 25664854

1337. Liang C, Guo B, Wu H, Shao N, Li D, Liu J, Dang L, Wang C, Li H, Li S, Lau WK, Cao Y, Yang Z, Lu C, He X, Au DW, Pan X, Zhang BT, Lu C, Zhang H, Yue K, Qian A, et al.Aptamer-functionalized lipid nanoparticles targeting osteoblasts as a novel RNA interference-based bone anabolic strategy.Nat Med. 2015 Mar;21(3):288-94.

doi: 10.1038/nm.3791. Epub 2015 Feb 9.PubMed [citation] PMID: 25665179

1338. Luo B, Wen S, Chen YC, Cui Y, Gao FB, Yao YY, Ju SH, Teng GJ.LOX-1-Targeted Iron Oxide Nanoparticles Detect Early Diabetic Nephropathy in db/db Mice.Mol Imaging Biol. 2015 Feb 10. [Epub ahead of print]PubMed [citation] PMID: 25666291

1339. Kang S, Lee HW, Jeon YH, Singh TD, Choi YJ, Park JY, Kim JS, Lee H, Hong KS, Lee I, Jeong SY, Lee SW, Ha JH, Ahn BC, Lee J.Combined Fluorescence and Magnetic Resonance Imaging of Primary Macrophage Migration to Sites of Acute Inflammation Using Near-Infrared Fluorescent Magnetic Nanoparticles.Mol Imaging Biol. 2015 Feb 11. [Epub ahead of print]PubMed [citation] PMID: 25669929

1340. Haberl N, Hirn S, Holzer M, Zuchtriegel G, Rehberg M, Krombach F.Effects of acute systemic administration of TiO(2), ZnO, SiO(2), and Ag nanoparticles on hemodynamics, hemostasis and leukocyte recruitment.Nanotoxicology. 2015 Feb 11:1-9. [Epub ahead of print]PubMed [citation] PMID: 25670207

1341. Vasconcelos A, Vega E, Pérez Y, Gómara MJ, García ML, Haro I.Conjugation of cell-penetrating peptides with poly(lactic-co-glycolic acid)-polyethylene glycol nanoparticles improves ocular drug delivery.Int J Nanomedicine. 2015;10:609-31. doi: 10.2147/IJN.S71198.PubMed [citation] PMID: 25670897, PMCID: PMC4315550

1342. Han SG, Howatt D, Daugherty A, Gairola G.Pulmonary and atherogenic effects of multi-walled carbon nanotubes (MWCNT) in apolipoprotein-E-deficient mice.J Toxicol Environ Health A. 2015;78(4):244-53. doi: 10.1080/15287394.2014.958421.PubMed [citation] PMID: 25674827

1343. Nyga A, Hart A, Tetley TD.Importance of the HIF pathway in cobalt nanoparticle-induced cytotoxicity and inflammation in human macrophages.Nanotoxicology. 2015 Feb 13:1-13. [Epub ahead of print]PubMed [citation] PMID: 25676618

1344. Miri A, Sarani M, Rezazade Bazaz M, Darroudi M.Plant-mediated biosynthesis of silver nanoparticles using Prosopis farcta extract and its antibacterial properties.Spectrochim Acta A Mol Biomol Spectrosc. 2015 Apr 15;141:287-91. doi: 10.1016/j.saa.2015.01.024. Epub 2015 Feb 4.PubMed [citation] PMID: 25682217

1345. Nielsen OH.New strategies for treatment of inflammatory bowel disease.Front Med (Lausanne). 2014;1:3. doi: 10.3389/fmed.2014.00003. Review.PubMed [citation] PMID: 25685754, PMCID: PMC4323544

1346. Chen J, Zhang WJ, Guo Z, Wang HB, Wang DD, Zhou JJ, Chen QW.pH-Responsive Iron Manganese Silicate Nanoparticles as T1-T2* Dual-Modal Imaging Probes for Tumor Diagnosis.ACS Appl Mater Interfaces. 2015 Mar 11;7(9):5373-83. doi: 10.1021/acsami.5b00727. Epub 2015 Feb 27.PubMed [citation] PMID: 25685956

1347. Domey J, Bergemann C, Bremer-Streck S, Krumbein I, Reichenbach JR, Teichgräber U, Hilger I.Long-term prevalence of NIRF-labeled magnetic nanoparticles for the diagnostic and intraoperative imaging of inflammation.Nanotoxicology. 2015 Feb 17:1-12. [Epub ahead of print]PubMed [citation] PMID: 25686713

1348. Fredman G, Kamaly N, Spolitu S, Milton J, Ghorpade D, Chiasson R, Kuriakose G, Perretti M, Farokhzad O, Tabas I.Targeted nanoparticles containing the proresolving peptide Ac2-26 protect against advanced atherosclerosis in hypercholesterolemic mice.Sci Transl Med. 2015 Feb 18;7(275):275ra20. doi: 10.1126/scitranslmed.aaa1065. Erratum in: Sci Transl Med. 2015 Mar 4;7(277):277er2. Farokzhad, Omid [corrected to Farokhzad, Omid]. PubMed [citation] PMID: 25695999, PMCID: PMC4397585

1349. Braakhuis HM, Cassee FR, Fokkens PH, de la Fonteyne LJ, Oomen AG, Krystek P, de Jong WH, van Loveren H, Park MV.Identification of the appropriate dose metric for pulmonary inflammation of silver nanoparticles in an inhalation toxicity study.Nanotoxicology. 2015 Feb 23:1-11. [Epub ahead of print]PubMed [citation] PMID: 25704116

1350. Wilson KL, Xiang SD, Plebanski M.Montanide, Poly I:C and nanoparticle based vaccines promote differential suppressor and effector cell expansion: a study of induction of CD8 T cells to a minimal Plasmodium berghei epitope.Front Microbiol. 2015;6:29. doi: 10.3389/fmicb.2015.00029.PubMed [citation] PMID: 25705207, PMCID: PMC4319470

1351. Maysinger D, Hutter E.Nanoparticle-based caspase sensors.Nanomedicine (Lond). 2015 Feb;10(3):483-501. doi: 10.2217/nnm.14.158.PubMed [citation] PMID: 25707980

1352. Shipelin VA, Smirnova TA, Gmoshinskii IV, Tutelyan VA.Analysis of toxicity biomarkers of fullerene C_{60} nanoparticles by confocal fluorescent microscopy.Bull Exp Biol Med. 2015 Feb;158(4):443-9. doi: 10.1007/s10517-015-2781-4. Epub 2015 Feb 26.PubMed [citation] PMID: 25711666

1353. Neuwelt A, Sidhu N, Hu CA, Mlady G, Eberhardt SC, Sillerud LO.Iron-based superparamagnetic nanoparticle contrast agents for MRI of infection and inflammation.AJR Am J Roentgenol. 2015 Mar;204(3):W302-13. doi: 10.2214/AJR.14.12733. Review.PubMed [citation] PMID: 25714316, PMCID: PMC4395032

1354. Zhang Y, Bai J, Wu H, Ying JY.Trapping cells in paper for white blood cell count.Biosens Bioelectron. 2015 Feb 11;69C:121-127. doi: 10.1016/j.bios.2015.02.019. [Epub ahead of print]PubMed [citation] PMID: 25721975

1355. Tabatabaei SN, Girouard H, Carret AS, Martel S.Remote control of the permeability of the blood-brain barrier by magnetic heating of nanoparticles: A proof of concept for brain drug delivery.J Control Release. 2015 Feb 25;206:49-57. doi: 10.1016/j.jconrel.2015.02.027. [Epub ahead of print]PubMed [citation] PMID: 25724273

1356. Reimondez-Troitiño S, Csaba N, Alonso MJ, de la Fuente M.Nanotherapies for the treatment of ocular diseases.Eur J Pharm Biopharm. 2015 Feb 26. doi:pii: S0939-6411(15)00101-0. 10.1016/j.ejpb.2015.02.019. [Epub ahead of print] Review.PubMed [citation] PMID: 25725262

1357. Jeong J, Kim J, Seok SH, Cho WS.Indium oxide (In(2)O (3)) nanoparticles induce

progressive lung injury distinct from lung injuries by copper oxide (CuO) and nickel oxide (NiO) nanoparticles.Arch Toxicol. 2015 Mar 3. [Epub ahead of print]PubMed [citation] PMID: 25731971

1358. Fukui H, Iwahashi H, Endoh S, Nishio K, Yoshida Y, Hagihara Y, Horie M.Ascorbic acid attenuates acute pulmonary oxidative stress and inflammation caused by zinc oxide nanoparticles.J Occup Health. 2015 Jan 10. [Epub ahead of print]PubMed [citation] PMID: 25735507

1359. Susewind J, de Souza Carvalho-Wodarz C, Repnik U, Collnot EM, Schneider-Daum N, Griffiths GW, Lehr CM.A 3D co-culture of three human cell lines to model the inflamed intestinal mucosa for safety testing of nanomaterials.Nanotoxicology. 2015 Mar 4:1-10. [Epub ahead of print]PubMed [citation] PMID: 25738417

1360. Armstead AL, Minarchick VC, Porter DW, Nurkiewicz TR, Li B.Acute inflammatory responses of nanoparticles in an intra-tracheal instillation rat model.PLoS One. 2015;10(3):e0118778. doi: 10.1371/journal.pone.0118778.PubMed [citation] PMID: 25738830, PMCID: PMC4349695

1361. Azim SA, Darwish HA, Rizk MZ, Ali SA, Kadry MO.Amelioration of titanium dioxide nanoparticles-induced liver injury in mice: Possible role of some antioxidants.Exp Toxicol Pathol. 2015 Apr;67(4):305-14. doi: 10.1016/j.etp.2015.02.001. Epub 2015 Mar 1.PubMed [citation] PMID: 25739888

1362. Lu F, Mencia A, Bi L, Taylor A, Yao Y, HogenEsch H.Dendrimer-like alpha-d-glucan nanoparticles activate dendritic cells and are effective vaccine adjuvants.J Control Release. 2015 Apr 28;204:51-9. doi: 10.1016/j.jconrel.2015.03.002. Epub 2015 Mar 3.PubMed [citation] PMID: 25747143

1363. Seiffert J, Hussain F, Wiegman C, Li F, Bey L, Baker W, Porter A, Ryan MP, Chang Y, Gow A, Zhang J, Zhu J, Tetley TD, Chung KF.Pulmonary toxicity of instilled silver nanoparticles: influence of size, coating and rat strain.PLoS One. 2015;10(3):e0119726. doi: 10.1371/journal.pone.0119726.PubMed [citation] PMID: 25747867, PMCID: PMC4352037

1364. Arnoldussen YJ, Skogstad A, Skaug V, Kasem M, Haugen A, Benker N, Weinbruch S, Apte RN, Zienolddiny S.Involvement of IL-1 genes in the cellular responses to carbon nanotube exposure.Cytokine. 2015 May;73(1):128-37. doi: 10.1016/j.cyto.2015.01.032. Epub 2015 Mar 6.PubMed [citation] PMID: 25748835

1365. Patel JM, Kim MC, Vartabedian VF, Lee YN, He S, Song JM, Choi HJ, Yamanaka S, Amaram N, Lukacher A, Montemagno C, Compans RW, Kang SM, Selvaraj P.Protein transfer-mediated surface engineering to adjuvantate virus-like nanoparticles for enhanced anti-viral immune responses.Nanomedicine. 2015 Mar 6. doi:pii: S1549-9634(15)00054-4. 10.1016/j.nano.2015.02.008. [Epub ahead of print]PubMed [citation] PMID: 25752855

1366. Nagai N, Yoshioka C, Ito Y.Topical Therapies for Rheumatoid Arthritis by Gel Ointments containing Indomethacin Nanoparticles in Adjuvant-Induced Arthritis Rat.J Oleo Sci. 2015 Mar 1;64(3):337-46. doi: 10.5650/jos.ess14170. Epub 2015 Feb

9.PubMed [citation] PMID: 25757439

1367. Guo C, Xia Y, Niu P, Jiang L, Duan J, Yu Y, Zhou X, Li Y, Sun Z.Silica nanoparticles induce oxidative stress, inflammation, and endothelial dysfunction in vitro via activation of the MAPK/Nrf2 pathway and nuclear factor-κB signaling.Int J Nanomedicine. 2015;10:1463-77. doi: 10.2147/IJN.S76114.PubMed [citation] PMID: 25759575, PMCID: PMC4345992

1368. Ekstrand-Hammarström B, Hong J, Davoodpour P, Sandholm K, Ekdahl KN, Bucht A, Nilsson B.TiO2 nanoparticles tested in a novel screening whole human blood model of toxicity trigger adverse activation of the kallikrein system at low concentrations.Biomaterials. 2015 May;51:58-68. doi: 10.1016/j.biomaterials.2015.01.031. Epub 2015 Feb 17.PubMed [citation] PMID: 25770998

1369. Cavallo D, Ciervo A, Fresegna AM, Maiello R, Tassone P, Buresti G, Casciardi S, Iavicoli S, Ursini CL.Investigation on cobalt-oxide nanoparticles cyto-genotoxicity and inflammatory response in two types of respiratory cells.J Appl Toxicol. 2015 Mar 13. doi: 10.1002/jat.3133. [Epub ahead of print]PubMed [citation] PMID: 25772588

1370. Sriramoju B, Kanwar RK, Kanwar JR.Nanoformulated Mutant SurR9-C84A: a Possible Key for Alzheimer's and its Associated Inflammation.Pharm Res. 2015 Mar 14. [Epub ahead of print]PubMed [citation] PMID: 25773719

1371. Wang T, Zhen Y, Ma X, Wei B, Wang N.Phospholipid bilayer-coated aluminum nanoparticles as an effective vaccine adjuvant-delivery system.ACS Appl Mater Interfaces. 2015 Apr 1;7(12):6391-6. doi: 10.1021/acsami.5b00348. Epub 2015 Mar 20.PubMed [citation] PMID: 25780860

1372. Tiwari S, Dwivedi H, Kymonil KM, Saraf SA.Urate crystal degradation for treatment of gout: a nanoparticulate combination therapy approach.Drug Deliv Transl Res. 2015 Feb 27. [Epub ahead of print]PubMed [citation] PMID: 25787730

1373. Khan OF, Zaia EW, Jhunjhunwala S, Xue W, Cai W, Yun DS, Barnes CM, Dahlman JE, Dong Y, Pelet JM, Webber MJ, Tsosie JK, Jacks TE, Langer R, Anderson DG.Dendrimer-Inspired Nanomaterials for the in Vivo Delivery of siRNA to Lung Vasculature.Nano Lett. 2015 Apr 2. [Epub ahead of print]PubMed [citation] PMID: 25789998

1374. Leite PE, Pereira MR, Santos CA, Campos AP, Esteves TM, Granjeiro JM.Gold nanoparticles do not induce myotube cytotoxicity but increase the susceptibility to cell death.Toxicol In Vitro. 2015 Mar 16;29(5):819-827. doi: 10.1016/j.tiv.2015.02.010. [Epub ahead of print]PubMed [citation] PMID: 25790728

1375. Gonçalves RM, Pereira AC, Pereira IO, Oliveira MJ, Barbosa MA.Macrophage response to chitosan/poly-(γ-glutamic acid) nanoparticles carrying an anti-inflammatory drug.J Mater Sci Mater Med. 2015 Apr;26(4):5496. doi: 10.1007/s10856-015-5496-1. Epub 2015 Mar 20.PubMed [citation] PMID: 25791458

1376. der Valk FM, van Wijk DF, Lobatto ME, Verberne HJ, Storm G, Willems MC, Legemate DA, Nederveen AJ, Calcagno C, Mani V, Ramachandran S, Paridaans MP, Otten MJ, Dallinga-Thie GM, Fayad ZA, Nieuwdorp M, Schulte DM, Metselaar JM, Mulder WJ, Stroes ES.Prednisolone-containing liposomes accumulate in human atherosclerotic macrophages upon intravenous administration.Nanomedicine. 2015 Mar 17. doi:pii: S1549-9634(15)00071-4. 10.1016/j.nano.2015.02.021. [Epub ahead of print]PubMed [citation] PMID: 25791806

1377. Shirkhani K, Teo I, Armstrong-James D, Shaunak S.Nebulised amphotericin B-polymethacrylic acid nanoparticle prophylaxis prevents invasive aspergillosis.Nanomedicine. 2015 Mar 16. doi:pii: S1549-9634(15)00062-3. 10.1016/j.nano.2015.02.012. [Epub ahead of print]PubMed [citation] PMID: 25791815

1378. Dkhil MA, Al-Quraishy S, Wahab R.Anticoccidial and antioxidant activities of zinc oxide nanoparticles on Eimeria papillata-induced infection in the jejunum.Int J Nanomedicine. 2015;10:1961-8. doi: 10.2147/IJN.S79944.PubMed [citation] PMID: 25792829, PMCID: PMC4362905

1379. Spigoni V, Cito M, Alinovi R, Pinelli S, Passeri G, Zavaroni I, Goldoni M, Campanini M, Aliatis I, Mutti A, Bonadonna RC, Dei Cas A.Effects of TiO2 and Co3O4 Nanoparticles on Circulating Angiogenic Cells.PLoS One. 2015;10(3):e0119310. doi: 10.1371/journal.pone.0119310.PubMed [citation] PMID: 25803285, PMCID: PMC4372399

1380. Thompson EA, Sayers BC, Glista-Baker EE, Shipkowski KA, Ihrie MD, Duke KS, Taylor AJ, Bonner JC.STAT1 Attenuates Murine Allergen-Induced Airway Remodeling and Exacerbation by Carbon Nanotubes.Am J Respir Cell Mol Biol. 2015 Mar 25. [Epub ahead of print]PubMed [citation] PMID: 25807359

1381. Chu S, Tang C, Yin C.Effects of mannose density on in vitro and in vivo cellular uptake and RNAi efficiency of polymeric nanoparticles.Biomaterials. 2015 Jun;52:229-39. doi: 10.1016/j.biomaterials.2015.02.044. Epub 2015 Feb 27.PubMed [citation] PMID: 25818429

1382. Peng Z, Qin J, Li B, Ye K, Zhang Y, Yang X, Yuan F, Huang L, Hu J, Lu X.An effective approach to reduce inflammation and stenosis in carotid artery: polypyrrole nanoparticle-based photothermal therapy.Nanoscale. 2015 Apr 2. [Epub ahead of print]PubMed [citation] PMID: 25833402

1383. Cox AA, Varma A, Vertegel A, Barry J, Banik N.Nanoparticle Estrogen in Rat Spinal Cord Injury Elicits Rapid Anti-inflammatory Effects in Plasma, CSF and Tissue.J Neurotrauma. 2015 Apr 7. [Epub ahead of print]PubMed [citation] PMID: 25845398

1384. Hoppstädter J, Seif M, Dembek A, Cavelius C, Huwer H, Kraegeloh A, Kiemer AK.M2 polarization enhances silica nanoparticle uptake by macrophages.Front Pharmacol. 2015;6:55. doi: 10.3389/fphar.2015.00055.PubMed [citation] PMID: 25852557, PMCID: PMC4369656

1385. Nguyen MM, Gianneschi NC, Christman KL.Developing injectable nanomaterials to repair the heart.Curr Opin Biotechnol. 2015 Apr 9;34:225-231. doi:

10.1016/j.copbio.2015.03.016. [Epub ahead of print] Review.PubMed [citation] PMID: 25863496

1386. Horie M, Stowe M, Tabei M, Kuroda E.Pharyngeal aspiration of metal oxide nanoparticles showed potential of allergy aggravation effect to inhaled ovalbumin.Inhal Toxicol. 2015 Apr 13:1-10. [Epub ahead of print]PubMed [citation] PMID: 25864991

1387. Thompson AJ, Eniola-Adefeso O.Dense nanoparticles exhibit enhanced vascular wall targeting over neutrally buoyant nanoparticles in human blood flow.Acta Biomater. 2015 Apr 11. doi:pii: S1742-7061(15)00167-1. 10.1016/j.actbio.2015.04.005. [Epub ahead of print]PubMed [citation] PMID: 25870170

1388. Kingston M, Pfau JC, Gilmer J, Brey R.Selective inhibitory effects of 50-nm gold nanoparticles on mouse macrophage and spleen cells.J Immunotoxicol. 2015 Apr 15:1-11. [Epub ahead of print]PubMed [citation] PMID: 25875326

1389. Walseng E, Wälchli S, Fallang LE, Yang W, Vefferstad A, Areffard A, Olweus J.Soluble T-cell receptors produced in human cells for targeted delivery.PLoS One. 2015;10(4):e0119559. doi: 10.1371/journal.pone.0119559.PubMed [citation] PMID: 25875651, PMCID: PMC4395278

1390. Pi Y, Zhang X, Shao Z, Zhao F, Hu X, Ao Y.Intra-articular delivery of anti-Hif-2α siRNA by chondrocyte-homing nanoparticles to prevent cartilage degeneration in arthritic mice.Gene Ther. 2015 Apr 16. doi: 10.1038/gt.2015.16. [Epub ahead of print]PubMed [citation] PMID: 25876463

1391. Zhao X, Zhao J, Lin ZY, Pan G, Zhu Y, Cheng Y, Cui W.Self-coated interfacial layer at organic/inorganic phase for temporally controlling dual-drug delivery from electrospun fibers.Colloids Surf B Biointerfaces. 2015 Apr 3;130:1-9. doi: 10.1016/j.colsurfb.2015.03.058. [Epub ahead of print]PubMed [citation] PMID: 25879640

1392. Czajka M, Sawicki K, Sikorska K, Popek S, Kruszewski M, Kapka-Skrzypczak L.Toxicity of titanium dioxide nanoparticles in central nervous system.Toxicol In Vitro. 2015 Apr 18. doi:pii: S0887-2333(15)00075-2. 10.1016/j.tiv.2015.04.004. [Epub ahead of print] Review.PubMed [citation] PMID: 25900359