

# Curriculum Vitae

Last name, First name: Dusinska, Maria

Gender: Female

Nationality: Slovakian

## Overall Scientific Expertise:

Thirty years' experience in environment and health, risk assessment, molecular, cellular, genetic toxicology, molecular epidemiology, biomonitoring, biomarkers and DNA damage and repair. Professor at Oslo University, 'Food toxicology'; teaching at Comenius University Bratislava 'DNA instability and human health'. Head of Health Effects laboratory at NILU. Until 2006, Head of Department of Experimental Genetics, Slovak Medical University, Bratislava (OECD GLP). 2005-2006 national expert, EC DGRTD Health, Brussels. 2008-2009 member of FP7 Advisory Group (Environment, climate change). Coordinated projects FP5 Centre of Excellence in Environmental Health HEARNAS, FP7 NanoTEST, NanOMEGA. Partner in: FP5/FP6/FP7 FIBRETOX, ESCODD, INTARESE, HENVINET, COMICS, NewGeneris, NanoImpactNet, NanoTOES, QNANO, NanoREG. Evaluator/reviewer for FP5/FP6/FP7 (health, food and environment, MCurie, SME). Standards Norway Committee-ISO/TC229 member. Two hundred publications in peer-reviewed journals/book chapters plus 3000 SCI citations, h-score 27.

## Professional Experience

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation
2006-present	Senior Scientist, Director of the Health Effects Laboratory (section leader)	MILK - Environmental Chemistry Department, NILU, Norwegian Institute for Air Research, Kjeller Norway;	toxicology (alternative methods, exposure assessment), nanotoxicology, molecular, cellular and genetic toxicology
2005-2006	National expert in Biotechnology & Genomics,	DGRTD, Health, EU Commission, Brussels, Belgium	Alternative tests to animal testing, in vitro toxicology
2004-present	Professor	Oslo University, Department of Nutrition, Norway	Food Toxicology
2004-2006	Director of the Institute	Slovak Medical University, Institute of Molecular Medicine Bratislava, Slovakia	Molecular medicine, molecular epidemiology, occupational monitoring
2000- 2006	Senior Research Scientist, Head of Department	Department of Experimental and Applied Genetics, IPCM, Slovak Medical University, Bratislava, Slovakia.	Molecular epidemiology, Biomonitoring
1997-present	Lecturer	Comenius University, Bratislava	DNA Instability and human health
1995-2000	Senior Research Scientist, Head of Laboratory	Laboratory of Molecular and Cellular Toxicology, Institute of Preventive and Clinical Medicine, Bratislava.	Molecular and cellular toxicology
1980-1994	Research Scientist	Department of Mutagenesis, Cancer Research Institute, Bratislava	Mutagenesis and carcinogenesis, in vitro toxicology

## Educational Background

<b>Year</b>	<b>Degree awarded</b>	<b>Educational Institution – name and location</b>	<b>Areas of educational specialisation</b>
1994	Study stay	Study stay, Rowett research Institute, Aberdeen, Scotland	Methods for detection of DNA damage and repair
1991-1994	Study stay	Post doc study stay (several months each year), Department of Radiobiology, Stockholm University, Sweden	Radiation biology, DNA damage and repair
1991	PhD.	Slovak Academy of Sciences, Cancer Research Institute, Bratislava	Mutagenesis, Carcinogenesis, genetic toxicology
1980	RNDr.	Commenius University, Department of Genetics, Bratislava	Biology , Genetics
1980	MSc.	Commenius University, Faculty of Natural Science, Bratislava	Biology, Genetics

## Memberships in Scientific Advisory Bodies/Committees/Panels:

- A member of EC FP7 Advisory Group for Environment (including climate change 2008-2009).
- Member of ISO/CEN committees in nanotechnology since 2008;
- Between years 2000-2005 in the OECD working group for biotechnology and regulatory toxicology, and recently involved in REACH as an expert on in vitro nanotoxicology
- Since 2012 National coordinator of NanoSafety platform Norway (representing Norway in FP7 NanoREG).
- Member of Norwegian SafeNano platform established in 2010 and
- Member of the ComNet steering committee - international network of experts on the comet assay and its use as a biomarker in human studies
- Evaluator for European Commission research proposals (in Framework 5, in FP6 and FP7)
- Evaluator and reviewer of grant applications for INTAS (Belgium), Slovak Grant Agencies, Czech Grant Agencies, South African National Research Foundation, Spanish Government, Swiss National Agency, etc.
- Member of scientific committee for FRRS/EEMS conferences 2010, NanoTox conferences (Lausanne 2010, 2009), Dublin (2011), Comet Assay Workshops (Perugia 2009, Coleraine 2007, Warsaw 2005, Aberdeen 2003, Ulm 2001, Smolenice 1999), Vitamins conference 2006, Pardubice.
- Invited lectures at conferences and Workshops: EEMS Warszaw 2012, ICOH Porto 2011, Lucknow Nanotoxicology conference 2011; Airmon conference 2011; FRRS 2010; Nanotox Dublin 2009; EMS USA Atlanta 2007; EEMS Basel 2007; EUROTOX Dubrovnik 2006; Summer School US Slovak program 2006; ICEM San Francisco 2005; EEMS meeting Aberdeen 2003; Toxicology Conference Finland 2003; Workshop on Comet assay (South Africa 2000, Lucknow, India 2003, 2004, Havana, Cuba 2004, San Francisco 2005, Atlanta 2007, ); Gliwice Poland 2002, 2003; Workshop on Assessment of Occupational and Environmental Exposure, Ustroň, Poland, 1999; 2000; Smolenice 1999; Workshop on Mutagenesis, Brno Czech Republic from 1997-2002; Toxicology conferences for Czechoslovak society every year last 15 years; GSF-Institute of Toxicology, Munich 1994 (DNA Repair and DNA damage induced by B(a)P).
- Participation in international conferences, 10-15 presentations each year.
- Active in different European initiatives such as NanoCLUSTER network, standardization of nanotoxicological methodologies, REACH, etc.

## Memberships in Learned Societies:

**Presently member in:** European Environmental Mutagen Society from 1980, Councillor 2000-2002; International Union Against Cancer from 1999; Scandinavian Society of Cell Toxicology from 1997; Czechoslovak Biological Society (Section for Environmental Mutagenesis) from 1980; Slovak Medical Society from 1995 (Tissue Culture Section of the Oncological Society); Slovak Association of Atherosclerosis from 1995); European Toxicology Society from 1994; European Tissue culture Society from 1997; Slovak Marfan Association (president from 1994-2006); European Marfan Association 1996; Nordic Toxicology society since 2013;

## Memberships in Editorial Boards :

- Editor of scientific international journal: Journal of Biomarkers (Since 2012)
- Editorial board of international Journal: Mutagenesis (Since 2004)

- Editorial and Basic Clinical Pharmacology and Toxicology (Since 2008)
- Reviewer of papers in scientific journals such as Free Radical Biology and Medicine, Biochemical Pharmacology, Mutagenesis, Mutation Research, International Journal of Applied and Basic Nutritional Sciences, Pharmacogenetics, International Archives of Occupational and Environmental Health, Photochemistry and Photobiology, European Journal of Biochemistry, Neoplasma, Carcinogenesis, Nanotoxicology, Toxicology, Toxicology Letters, Toxicology in vitro, Food and Chemical Toxicology, etc.

## List of Publications:

**Publications:** 200 publications in peer-reviewed journals, ~3000 citations, h score 27 (excl. self-citations).

### Selected 7 publications for last 5 years

1. Dusinska M, Collins A. The Comet assay in human biomonitoring: gene-environment interactions. *Mutagenesis*, 2008, **23**(3). 191-205.
2. Dusinska M. and NanoTEST consortium. Testing strategies for the safety of nanoparticles used in medical application. *Nanomedicine*, 2009, editorial, 2009, **4** (6), 605-607.
3. Stone V, Nowack B, Baun A, van den Brink N, von der Kammer F, Dusinska M, Handy R, Hankin S, Hassellövv M, Joner E, Fernandes TF. Nanomaterials for environmental studies: Classification, reference material issues, and strategies for physico-chemical characterization. *Science of Total Environment*, 2010, **408**(7), 1745-54.
4. Dusinska M, Staruchova M, Horska A, Smolkova B, Collins A, Bonassi S, Volkovova K. Are glutathione S transferases involved in DNA damage signalling? Interactions with DNA damage and repair revealed from molecular epidemiology studies. *Mutat Res.*, 2012, **736**(1-2), 130-7.
5. Dusinska M, Magdolenova Z, Fjellsbø LM. Toxicological aspects for nanomaterial in humans. Chapter 1. In: *Nanotechnology for Nucleic acid Delivery, Methods in Molecular Biology*. (D Oupicky, M Ogris, Eds.), Humana Press, 2013, **948**, 1-12.
6. Magdolenova Z, Collins AR, Kumar A, Dhawan A, Stone V, Dusinska M. Mechanisms of Genotoxicity. Review of Recent in vitro and in vivo Studies with Engineered Nanoparticles. *Nanotoxicology*. 2013 Feb 5. [Epub ahead of print] PubMed PMID:23379603.
7. Fjellsbø LM, Van Rompay AR, Hooyberghs J, Nelissen I, Dusinska M. Screening for potential hazard effects from four nitramines on human eye and skin. *Toxicol In Vitro*. 2013 Feb 14. doi:pii: S0887-2333(13)00027-1. 10.1016/j.tiv.2013.02.004. [Epub ahead of print] PubMed PMID: 23416265. 27 (2013), pp. 1205-1210.

### Maria Dusinska, List of publications for last 5 years from 2009

1. Hoelzl Ch., Knasmüller S, Mišík M, Collins A, Dušinská M, Nersesyan A. Use of single cell gel electrophoresis assays for the detection of DNA-protective effects of dietary factors in humans: recent results and trends. *Mutation Res*, 2009, **681**, 68-79.
2. Chakraborty A., Ferk F, Simić T, Brantner A, Dušinská M, Kundt M, Hoelzl CH, Nersesyan A, Knasmüller S. DNA-protective effects of sumach (*Rhus coriaria* L.), a common spice: results of human and animal studies. *Mutation Res*, 2009, **661**, 10-17.
3. Kažimírová A., Barančoková M, Džupinková Z, Wsólová L, Dušinská M, Micronuclei and chromosomal aberrations, important markers of ageing. Possible association with XPC and XPD polymorphisms. *Mutation Res*, 2009, **661**, 35-40.
4. Dusinska M, Fjellsbø LM, Heimstad E, Harju M, Bartonova A, Tran L, Juillerat-Jeanneret L, Halamoda B, Marano F, Boland S, Saunders M, Cartwright L, Carreira S, Thawley S., Whelan M, Klein Ch, Housiadas CH, Volkovova K, Tulinska J, Beno M, Sebekova K, Knudsen L, Mose T, Castell JV, Vilà MR, Gombau L, Jepson M, Pojana G, Marcomini A. Development of methodology for alternative testing strategies for thsessment of the toxicological profile of nanoparticles used in medical diagnostics. NanoTEST – EC FP7 project. 2009, *J. Phys.: Conf. Ser.* **170**, 012039, 5.
5. Dusinska M., Fjellsbø LM., Tran L., Juillerat-Jeanneret L., Marano F., Boland S., Saunders M., Whelan M., Housiadas Ch., Volkovova K., Tulinska J., Knudsen LE., Vilà MR., Gombau L, Pojana G., Marcomini A. Development of methodology for alternative testing strategies for the assessment of the toxicological profile of nanoparticles used in medical diagnostics. *The Parliament Magazine's European Research and Innovation Review*, 2009, **9**, 38.
6. Dusinska M. and NanoTEST consortium. *Nanomedicine*, editorial, 2009, **4** (6), 605-607.
7. Horvathova M, Jahnova E, Szabova M, Tulinska M, Kuricova M, Liskova A, Volkovova K, Dusinska M. The relationship between cell surface markers, cytokines, ageing, and cigarette smoking. *Bratisl Lek Listy*, 2009, **110**(7), 394-400.

8. Dusinska M and NanoTEST consortium. Safety of nanoparticles used in medical application. Development of alternative testing strategies for toxicity testing. *Science and Technology, Public service review*, 2009, **4**, 126-127.
9. Vodicka P, Naccarati A, Vodickova L, Polakova V, Dusinska M, Musak L, Halasova E, Susova S, Soucek P, Hemminki K. Do GST polymorphisms modulate the frequency of chromosomal aberrations in healthy subjects? *Environ Health Perspect.*, 2009, **117**(9), A384-5; author reply A385.
10. Collins AR, Dušinská M. Applications of the comet assay in human biomonitoring. In: *The Comet Assay in Toxicology* (D Anderson and A Dhawan, Eds). Royal Society of Chemistry, London, 2009, chapter 9, 201-226.
11. Som C, Berges M, Chaudhry Q, Dusinska M, Fernandes TF, Olsen S, Nowack B. The Importance of Life Cycle Concepts for the Development of Safe Nanoproducts. *J Toxicology*, 2010 **269**(2-3):160-169.
12. Stone V, Nowack B, Baun A, van den Brink N, von der Kammer F, Dusinska M, Handy R, Hankin S, Hassellövv M, Joner E, Fernandes TF. Nanomaterials for environmental studies: Classification, reference material issues, and strategies for physico-chemical characterization. *Science of Total Environment*, 2010, **408**(7), 1745-54.
13. Kruszewski M, Dusinska M, Dobrzańska M, Gromadzka-Ostrowska J, Brunborg G, Lankoff A, Wojewódzka M, Sommer S, Brzoska K, Męczyńska-Wielgosz M, Rumianek K, Wojciuk G, Stępkowski T, Grądzka I, Buraczewska T, Schwarze PE, Refsnes M, Sandberg W, Asare N, Instanes C, Dziendzikowska K, Oczkowski M, Krawczyńska A, Gajowik A, Radzikowska J, Fjellsbø LM, Magdolenova Z, Rinna A, Rundén-Pran E, Hudecova A, Hasplova K. Impact of Nanomaterials on Human Health: Lessons from *In Vitro* and Animal Models, *Research and Innovation Review*, 2010, **12**, 42-43.
14. Dušinská M, Collins AR, DNA oxidation, antioxidant effects, and DNA repair measured with the comet assay. In: *Biomarkers for Antioxidant Defense and Oxidative Damage* (Aldini, Niki, Russel and Yeum, Eds). Wiley-Blackwell, 2010, Chapter 16, 261-281.
15. Smolders R, Bartonova A, Boogaard PJ, Dusinska M, Koppen G, Merlo F, Sram RJ, Vineis P, Schoeters G. The use of biomarkers for risk assessment: Reporting from the INTARESE/ENVIRISK Workshop in Prague. *Int J Hyg Environ Health*, 2010, **213**(5), 395-400.
16. Dobrzańska M, Gajowik A, Radzikowska J, Gromadzka-Ostrowska J, Oczkowski M, Krawczyńska A, Brunborg G, Dusinska M, Lankoff A, Kruszewski M. The effects of silver nanoparticles on male rats sperm quantity and quality. *Toxicology Letters*, 2010, **196**, Suppl 1, S285-S286.
17. Mišík M, Hoelzl C, Wagner KH, Cavin C, Moser B, Kundi M, Simic T, Elbling L, Kager N, Ferk F, Ehrlich V, Nersesyan A, Dušinská M, Schilter B, Knasmüller S. Impact of paper filtered coffee on oxidative DNA-damage: results of a clinical trial. *Mutat Res.*, 2010, **692**(1-2), 42-8.
18. Zimanová J, Bátorová I, Dušinská M., Burghardtová K., Blažíček P., Vojtech I. The effect of repeated hyperbaric oxygen therapy on total antioxidant status of organism. [Vplyv opakovanej HBO na totálny antioxidačný stav organizmu pri liečbe defektov dolných končatín]. *Rehabilitacia*, 2010, **47**, 2, 80-89.
19. Hudecova A, Hasplova K, Miadokova E, Magdolenova Z, Rinna A, Galova E, Sevcovicova A, Vaculcikova D, Gregan F, Dusinska M. Cytotoxic and genotoxic effect of methanolic flower extract from Gentiana asclepiadea on COS 1 cells. *Neuro Endocrinol Lett.*, 2010, **31** Suppl 2, 21-5.
20. Horska A, Mislanova C, Bonassi S, Ceppi M, Volkovova K, Dusinska M. Vitamin C levels in blood are influenced by polymorphisms in glutathione S-transferases. *Eur J Nutr.*, 2011, **50**, 437-446.
21. Wojewódzka M, Lankoff A, Dusinska M, Brunborg G, Czerwińska J, Iwaneńko T, Stępkowski T, Szumieli I, Kruszewski M. Treatment with silver nanoparticles delays repair of X-ray induced DNA damage in HepG2 cells. *NUKLEONIKA* 2011, **56**(1), 29-33.
22. Hasplova K, Hudecova A, Miadokova E, Magdolenova Z, Galova E, Vaculcikova L, Gregan F, Dusinska M. Biological activity of plant extract isolated from Papaver rheas on human lymphoblastoid cell line. *Neoplasma*, 2011, **58**(5), 386-91.
23. Dusinska M, Fjellsbø LM, Magdolenova Z, Ravnum S, Rinna A, Runden-Pran E: Chapter 11. Safety of Nanomaterial in Nanomedicine. In: *Nanomedicine in Health and Disease* (RJ Hunter, VR Preedy, Eds) CRC Press, 2011, 203-226.
24. Ferk F, Chakraborty A, Jäger W, Kundi M, Bichler J, Mišík M, Wagner KH, Grasl-Kraupp B, Sagmeister S, Haidinger G, Hoelzl C, Nersesyan A, Dušinská M, Simić T, Knasmüller S. Potent protection of gallic acid against DNA oxidation: Results of human and animal experiments. *Mutat Res.*, 2011, **715**(1-2), 61-71.
25. Kruszewski M, Brzoska K, Brunborg G, Asare N, Dobrzańska M, Dušinská M, Fjellsbø LM, Georgantzopoulou A, Gromadzka-Ostrowska J, Gutleb AC, Lankoff A, Magdolenová Z, Runden-Pran E, Rinna A, Instanes C, Sandberg WJ, Schwarze P, Stępkowski T, Wojewódzka M, Refsnes M. Toxicity of Silver Nanomaterials in Higher Eukaryotes. In: *Advances in Molecular Toxicology*, 5 (JC Fishbein, Ed.) Elsevier, 2011, 179-218.
26. Zimanová J, Batorová I, Dusinska M, Burghardtová K, Blazicek P, Vojtech I, Bizik A. Short term oxidative DNA damage by hyperbaric oxygenation in patients with chronic leg ulcers. *Bratislavské Lekárské Listy*, 2011, **112**(8), 447-52.
27. Magdolenova Z, Rinna A, Fjellsbø L, Dusinska M. Safety assessment of nanoparticles cytotoxicity and genotoxicity of metal nanoparticles in vitro. *J Biomed Nanotechnol*, 2011, **7**(1), 20-1.
28. Dusinska M, Rundén-Pran E, Carreira SC, Saunders M. *In vitro* and *in vivo* toxicity test methods. Chapter 4. Critical Evaluation of Toxicity Tests. In: *Adverse Effects of Engineered Nanomaterials: Exposure, Toxicology and Impact on Human Health*. (Fadeel, Pietrojusti & Shvedova, Eds.). Elsevier, 2012. 63-84.
29. Hašlová K, Hudecová A, Magdolenová Z, Bjøras M, Gálová E, Miadoková E, Dušinská M. DNA alkylation lesions and their repair in human cells: Modification of the comet assay with 3-methyladenine DNA glycosylase (AlkD). *Toxicol Lett.*, 2012, **208**(1), 76-81.
30. Hudecova A, Hasplova K, Kellovska L, Ikreniova M, Miadokova E, Galova E, Horvathova E, Vaculcikova D, Gregan F, Dusinska M. Gentiana asclepiadea and Armoracia rusticana can modulate the adaptive response induced by zeocin in human lymphocytes. *Neoplasma*. 2012, **59** (1), 62-9.
31. Kuricova M, Tulinska J, Liskova A, Horvathova M, Ilavská S, Kovacikova Z, Tatrai E, Hurbanova M, Cerna S, Jahnova E, Neubauerova E, Wsolova L, Wimmerova S, Fuortes L, Kyrtopoulos SA, Dusinska M. Immune System and Environmental

- Xenobiotics - The Effect of Selected Mineral Fibers and Particles on the Immune Response. Chapter 14. In: *Recent Advances in Immunology to Target Cancer, Inflammation and Infections*, J Kanwar, Ed.) 2012, 335-380.
32. Hudecová A, Hašplová K, Miadoková E, Magdolenová Z, Rinna A, Collins AR, Gálová E, Vaculčíková D, Gregář F, Dušinská M. Gentiana asclepiadea protects human cells against oxidation DNA lesions. *Cell Biochem Funct.*, 2012, **30**(2), 101-7.
  33. Collins A, Anderson D, Coskun E, Dhawan A, Dusinska M, Koppen G, Kruszewski M, Moretti M, Rojas E, Speit G, Valverde M, Bonassi S. Launch of the ComNet (comet network) project on the comet assay in human population studies during the International Comet Assay Workshop meeting in Kusadasi, Turkey (Sept 13-16, 2011). *Mutagenesis*, 2012, **27**(4), 385-6.
  34. Magdolenova Z, Bilaničová D, Pojana G, Fjellsbø LM, Hudecova A, Hasplova K, Marcomini A, Dusinska M. Impact of agglomeration and different dispersions of titanium dioxide nanoparticles on the human related in vitro cytotoxicity and genotoxicity. *J Environ Monit.*, 2012, **14**(2):455-64.
  35. Dusinska M, Staruchova M, Horska A, Smolkova B, Collins A, Bonassi S, Volkovova K. Are glutathione S transferases involved in DNA damage signalling? Interactions with DNA damage and repair revealed from molecular epidemiology studies. *Mutat Res.*, 2012, **736**(1-2), 130-7.
  36. Handy RD, van den Brink N, Chappell M, Mühlung M, Behra R, Dušinská M, Simpson P, Ahtiainen J, Jha AN, Seiter J, Bednar A, Kennedy A, Fernandes TF, Riediker M. Practical considerations for conducting ecotoxicity test methods with manufactured nanomaterials: what have we learnt so far? *Ecotoxicology*, 2012, **21**(4), 933-72.
  37. Hudecová A, Kusznierewicz B, Hašplová K, Huk A, Magdolenová Z, Miadoková E, Gálová E, Dušinská M. Gentiana asclepiadea exerts antioxidant activity and enhances DNA repair of hydrogen peroxide- and silver nanoparticles-induced DNA damage. *Food Chem Toxicol.*, 2012, **50**(9), 3352-3359.
  38. Dziendzikowska K, Gromadzka-Ostrowska J, Lankoff A, Oczkowski M, Krawczyńska A, Chwastowska J, Sadowska-Bratek M, Chajduk E, Wojewódzka M, Dušinská M, Kruszewski M. Time-dependent biodistribution and excretion of silver nanoparticles in male Wistar rats. *J Appl Toxicol.*, 2012, doi:10.1002/jat.2758. [Epub ahead of print]
  39. Merlo DF, Filiberti R, Kobernus M, Bartonova A, Gamulin M, Ferencic Z, Dusinska M, Fucic A. Cancer risk and the complexity of the interactions between environmental and host factors: HENVINET interactive diagrams as simple tools for exploring and understanding the scientific evidence. *Environ Health*, 2012, **11** Suppl 1:S9.
  40. Smita S, Gupta SK, Bartonova A, Dusinska M, Gutleb AC, Rahman Q. Nanoparticles in the environment: assessment using the causal diagram approach. *Environ Health*, 2012, **11** Suppl 1:S13.
  41. Volkovova K, Bilanicova D, Bartonova A, Letašiová S, Dusinska M. Associations between environmental factors and incidence of cutaneous melanoma. Review. *Environ Health*, 2012, **11** Suppl 1:S12. PubMed PMID: 22759494; PubMed Central PMCID: PMC3388446.
  42. Letašiová S, Medvedová A, Sovčíková A, Dušinská M, Volkovová K, Mosou C, Bartonová A. Bladder cancer, a review of the environmental risk factors. *Environ Health*, 2012, **11** Suppl 1:S11.
  43. Magdolenova Z, Lorenzo Y, Collins A, Dusinska M. Can Standard Genotoxicity Tests be Applied to Nanoparticles? *J Toxicol Environ Health A*. 2012, **75**(13-15), 800-6.
  44. Kazimirova A, Magdolenova Z, Barancokova M, Staruchova M, Volkovova K, Dusinska M. Genotoxicity testing of PLGA-PEO nanoparticles in TK6 cells by the comet assay and the cytokinesis-block micronucleus assay. *Mutat Res.*, 2012, **748**(1-2), 42-7.
  45. Georgantzopoulou A, Balachandran YL, Rosenkranz P, Dusinska M, Lankoff A, Wojewodzka M, Kruszewski M, Guignard C, Audinot JN, Girija S, Hoffmann L, Gutleb AC. Ag nanoparticles: size- and surface-dependent effects on model aquaticorganisms and uptake evaluation with NanoSIMS. *Nanotoxicology*. 2012. [Epub ahead of print] PubMed PMID: 22834480.
  46. Hudecová A, Kusznierewicz B, Rundén-Pran E, Magdolenová Z, Hašplová K, Rinna A, Fjellsbø LM, Kruszewski M, Lankoff A, Sandberg WJ, Refsnæs M, Skuland T, Schwarze P, Brunborg G, Bjørås M, Collins A, Miadoková E, Gálová E, Dušinská M. Silver nanoparticles induce premutagenic DNA oxidation that can be prevented by phytochemicals from *Gentiana asclepiadea*. *Mutagenesis*, 2012, **27**(6):759-69.
  47. Liu HY, Bartonova A, Pascal M, Smolders R, Skjetne E, Dusinska M. Approaches to integrated monitoring for environmental health impact assessment. *Environ Health*, 2012, **11**(1), 88.
  48. Dusinska M, Magdolenova Z, Fjellsbø LM. Toxicological aspects for nanomaterial in humans. Chapter 1. In: *Nanotechnology for Nucleic acid Delivery, Methods in Molecular Biology*. (D Oupicky, M Ogris, Eds.), Humana Press, 2013, **948**, 1-12.
  49. Sebekova K, Dusinska M, Simon Klenovics K, Kollarova R, Boor P, Kebis A, Staruchova M, Vlkova B, Celec P, Hodosy J, Baciak L, Tuskova R, Beno M, Tulinska J, Pribojova J, Bilanicova D, Pojana G, Marcomini A, Volkovova K. Comprehensive assessment of nephrotoxicity of intravenously administered sodium-oleate-coated ultrasmall superparamagnetic iron oxide (USPIO) and titanium dioxide ( $TiO_2$ ) nanoparticles in rats. *Nanotoxicology*. 2012 Dec 31. [Epub ahead of print]
  50. Magdolenova Z, Collins AR, Kumar A, Dhawan A, Stone V, Dusinska M. Mechanisms of Genotoxicity. Review of Recent in vitro and in vivo Studies with Engineered Nanoparticles. *Nanotoxicology*. 2013 Feb 5. PubMed PMID:23379603.
  51. Geoffrey Hunt, Iseult Lynch, Flemming Cassee, Richard Handy, Teresa F. Fernandes, Markus Berges, Thomas A. Kuhlbusch, Maria Dusinska, Michael Riediker: Towards a Consensus View on Understanding Nanomaterials Hazards and Managing Exposure: Knowledge Gaps and Recommendations, Materials, Special issue Nanotoxicology. Man ID: materials-29219
  52. Fjellsbø LM, Van Rompay AR, Hooyberghs J, Nelissen I, Dusinska M. Screening for potential hazard effects from four nitramines on human eye and skin. *Toxicol In Vitro*. 2013 Feb 14. doi:pii: S0887-2333(13)00027-1. 10.1016/j.tiv.2013.02.004. [Epub ahead of print] PubMed PMID: 23416265. 27 (2013), pp. 1205-1210.
  53. Kruszewski M, Grądzka I, Bartłomiejczyk T, Chwastowska J, Sommer S, Grzelak A, Zuberek M, Lankoff A, Dusinska M, Wojewódzka M. Oxidative DNA damage corresponds to the long term survival of human cells treated with silver nanoparticles, *Toxicology Letters*, 2013, accepted