

# Curriculum Vitae

**Last name, first name:** Dusinska, Maria

**Gender:** F

**Nationality:** Slovak

## Overall Scientific Expertise:

30 years experience in environment and health, hazard and risk assessment, genetic toxicology, molecular epidemiology, biomonitoring, biomarkers, DNA damage and repair. Member of SCCS committee from 2013. Professor at Oslo University, and lecturer at Comenius University Bratislava. Head of laboratories GLP (Good Laboratory Practice) certified at NILU (Norway) and at Slovak Medical University, Bratislava (Slovakia). National expert for biotechnology and genomics (EC DG RTD Health, Brussels). Coordinator: FP5 Centre of Excellence in Environmental Health HEARNAS, FP7 NanoTEST, NanOMEGA, National project NorNANoREG. Partner leader in FP5/FP6/FP7/Horizon 2020 and Euronanomed projects. Evaluator/reviewer for FP5/FP6/FP7 and Horizon2020 (health, food, environment). Standards Norway Committee ISO/TC229 member, editor of scientific journals.

## 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 (scientific leader)	MILK - Environmental Chemistry Department, NILU, Norwegian Institute for Air Research, Kjeller Norway;	toxicology (alternative methods, exposure assessment), genetic toxicology, nanotoxicology, nanoscience, molecular and cellular toxicology, hazard and risk assessment
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

Year	Degree awarded	Educational Institution – name and location	Areas of educational specialisation
1994	Study stay	Study stay, Rowett research Institute, Aberdeen, Scotland	Methods for detection of DNA damage and repair, molecular epidemiology
1991-1994	Study stay	Post doc study stay (several months each year), Department of Radiobiology, Stockholm University, Sweden	Radiation biology, DNA damage and repair
1993-1994	US NAS Award	American National Academy of Sciences (NAS) bilateral program for young scientists, Czech-Slovak Young Investigator Program on health impacts of environmental degradation.	Hazard assessment, environment and health,
1991	PhD.	Slovak Academy of Sciences, Cancer Research Institute, Bratislava	Mutagenesis, Carcinogenesis, genetic toxicology
1980	RNDr.	Comenius University, Department of Genetics, Bratislava	Biology, Genetics
1980	MSc.	Comenius University, Faculty of Natural Science, Bratislava	Biology, Genetics

### Memberships in Scientific Advisory Bodies/Committees/Panels (*if any*):

- Since 2013 a member of the Scientific Committee on Consumer Safety (SCCS)
- 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
- Member of OECD working groups on genotoxicity
- Since 2012 National coordinator of NanoSafety platform Norway (representing Norway in FP7 NanoREG).
- Member of Norwegian SafeNano platform established in 2010
- 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: Selected list: 2015 –UKEMS-session nanotoxicology; Brno –Nanocon 2015 – various nanotoxicology and in vitro toxicology workshops Barcelona, Brussels, Bergen, Bratislava, Ottawa, Prague, Amsterdam, etc.2006-2015 ;EEMS Warszav 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, Ustroń, 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, around 10 presentations each year.
- Active in different European initiatives such as NanoCLUSTER network, standardization of nanotoxicological methodologies, REACH, etc.

### Memberships in Learned Societies (*if any*):

**Presently member in:** European registered toxicologist (ERT), 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, NanoCluster from 2006.

**Memberships in Editorial Boards** (*if any*):

- Editor of scientific international journal: Food and Chemical Toxicology (Since 2016)
- Editor of scientific international journal: Environmental Research (Since 2014)
- Editor of scientific international journal: Journal of Biomarkers (Since 2012)
- Editorial board of international Journal: Mutagenesis (2004-2014)
- Editorial and Basic Clinical Pharmacology and Toxicology (Since 2008)
- Reviewer of papers in scientific journals such as SCCS Nano, Particle and Fibre Toxicology, Nanomedicine, Nanotoxicology, 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, Toxicology, Toxicology Letters, Toxicology in vitro, Food and Chemical Toxicology, etc.

**List of Publications:**

**Publications:** 240 publications in peer-reviewed journals and book chapters, ~5000 citations, h score 33 (excl. self-citations).

**Selected 7 publications for last 5 years**

1. Dušinská M., Collins A.R.: Detection of oxidised purines and UV-induced photoproducts in DNA, by inclusion of lesion-specific enzymes in the comet assay (single cell gell electrophoresis), *ATLA-ALTERNATIVES TO LABORATORY ANIMALS*, 1996, **24**, 405-411.
2. Dušinská M., Kovačiková Z., Vallová B., Collins A.R.: Responses of alveolar macrophages and epithelial type II cells to oxidative DNA damage caused by paraquat. *Carcinogenesis*, 1998, **19**, 5, 809-812.
3. Dušinská M., Ficek A., Horská A., Rašlová K., Petrovská H., Vallová B., Drličková M., Štupáková A., Gašparovič J., Wood S.G., Bobek P., Nagyová, A., Kovačiková, Z., Blažiček P., Liegebel U., Collins A.R.: Glutathione S-transferase polymorphisms influence the level of oxidative DNA damage and antioxidant protection in humans. *Mutation Research*, 2001, **482**, 47-55.
4. Dušinská M., Collins A.R., Kažimírová A., Barančoková M., Harrington V., Volkovová K, M. Staruchová, Horská A., Wsólková L, Kočan A, Petřík J, Machata M., Ratcliffe B., Kyrtopoulos S.: Genotoxic effects of asbestos in humans, *Mutation Research*, 2004, **553**, 91-102.
5. Dusinska M. and NanoTEST consortium. Testing strategies for the safety of nanoparticles used in medical application. *Nanomedicine*, 2009, editorial, 2009, **4** (6), 605-607.
6. 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.
7. 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*. **2014**, **8**, 233–278.