

Curriculum Vitae

Last name, First name: Dusinska, Maria

Gender: F

Nationality: Slovak

Overall Scientific Expertise:

European registered toxicologist (ERT), PhD., DSc. 30 years experience in environment and health, risk assessment, molecular, cellular, genetic toxicology, molecular epidemiology, biomonitoring, biomarkers, DNA damage and repair. Visiting professor at Oslo University, ‘Food toxicology’ till 2016; teaching at Comenius University Bratislava ‘DNA instability and human health’ till 2019. Scientific leader of Health Effects laboratory and director of GLP 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). She is member of cross-cutting WG on Genotoxicity in EFSA since 2020, permanent OECD delegates of Norway for WG on Genotoxicity, in the Expert group on the development of an IATA for NGTxC and in the Expert group on AOP for mixtures

Coordinates H2020 project RiskGONE, coordinated FP7 project NanoTEST, FP5 Centre of Excellence in Environmental Health HEARNAS, Marie Curie project NanOMEGA and several national projects in Slovakia and Norway. Partner and WP leader in FP5/FP6/FP7 FIBRETOX, ESCODD, INTARESE, HENVINET, COMICS, NewGeneris, NanoImpactNet; NanoTOES; QNANO, NanoREG, NanoReg2, HISENTS, H2020 projects NanoSolveIT, SABYDOMA, VISION and TWINALT and EURONANOMED projects GOTTARG, INNOCENT, CELLUX, and others. Evaluator/reviewer for FP5/FP6/FP7 (health, food, environment, MCurie, SME). Standards Norway Committee ISO/TC229 member. Over 360 publications in peer-reviewed journals/book chapters, 15000 SCI citations, h-score 63.

Professional Experience

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation [^]
2006-present	Senior Scientist, Director of GLP Laboratory	MILK - Environmental Chemistry Department, NILU, Norwegian Institute for Air Research, Kjeller Norway;	toxicology (alternative methods, NAMs), 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	Visiting 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 of Experimental and Applied Genetics,	Molecular epidemiology, Biomonitoring

	Department	IPCM, Slovak Medical University, Bratislava, Slovakia.	
1997-2019	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*
2017	DSc.	Doctor of Science (Doctor scientiarum), Comenius University, Bratislava, SK	Molecular epidemiology, Genetics
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	CSc. (PhD.)	<i>Candidatus scientiarum</i> equivalent to PhD. Slovak Academy of Sciences, Cancer Research Institute, Bratislava	Mutagenesis, Carcinogenesis, genetic toxicology
1980	RNDr.	Rerum Naturalis Doctor, 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):

- Member of cross-cutting WG on Genotoxicity in EFSA since 2020,
- Permanent OECD delegates of Norway for WG on Genotoxicity,
- Member of OECD Expert group on the development of an IATA for NGTxC
- Member of OECD Expert group on AOP for mixtures 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 (From FP5, in FP6, FP7, H2020 and Horizon Europe
- 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 BP13 conference in Paris at OECD, Nanosafety Summer school 2023, 2022, Nanosafety Cluster conferences, Workshops (Perugia 2009, Coleraine 2007, Warsaw 2005, Aberdeen 2003, Ulm 2001, Smolenice 1999), Vitamins conference 2006, Pardubice.

Invited lectures at conferences and Workshops: Workshop on genotoxicity, OECD, Paris 2023, Nanotoxicology conference 2022, European Environmental Mutagenesis & Genomics Society international conference (EEMGS, EEMS): Berlin 2018, Copenhagen 2016, Plymouth 2015 (UKEMS), Warsaw 2012, Oslo 2010, Atlanta 2007, Basel 2007 ICEM San Francisco 2005; Aberdeen 2003, EEMS Warsaw 2012, ICOH Porto 2011, Lucknow Nanotoxicology conference 2011; Airmon conference 2011; FRRS 2010; Nanotox Dublin 2009; 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). EUROTOX: Bratislava 2017, Dubrovnik 2006; International Nanotoxicology Conference: Boston 2016, Dublin 2009; AIRMON 2011 Loen; Nanosafety Conference Lucknow India 2011; European congress FRRS Oslo 2010, 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 2000;

- Active in different European initiatives such as NanoCLUSTER network, standardization of nanotoxicological methodologies, REACH, etc.
- Advisory Board member of Institute of Experimental Medicine, and NanoEnviCZ, Prague and Advisory Board member of Biomedical Center of Slovak Academy of Science, Bratislava

Memberships in Learned Societies (if any):

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 (if any):

- Editor of scientific international journal: Journal of Biomarkers (Since 2012)
- Editor of Mutation Research since 2015,
- Nanomaterials (since-2020).
- Frontier in Toxicology since 2020
- Editorial board of international Journal: Mutagenesis (Since 2005-2014, and from 2022)
- Editorial and Basic Clinical Pharmacology and Toxicology (Since 2006)

Editor of special issues:

- **Dusinska M** Tribute to Andrew Collins, SI, Mutation Research 2023, **guest editor**, Special Issue
- **Dusinska M**, Costa S, Collins A. Introduction to hCOMET SI 'Comet assay in vitro'. **Guest editors** Special issue in Mutat Res. 2019 Sep;845:403071. doi:10.1016/j.mrgentox.2019.07.001. Epub 2019 Jul 3.
- Collins A, Milic M, Bonassi S, **Dusinska M**. The comet assay in human biomonitoring: Technical and epidemiological perspectives. **Guest editors** of Special Issue in Mutat Res. 2019 Jul;843:1-2. doi: 10.1016/j.mrgentox.2019.06.002. Epub 2019 Jun 8. PubMed PMID: 31421730.
- Doak SH, **Dusinska M**. NanoGenotoxicology: present and the future. **Guest editors**, Special Issues in Mutagenesis. 2017 Jan;32(1):1-4. doi: 10.1093/mutage/gew066. PubMed PMID: 28011747.
- **Dusinska M**, Tran, L. NanoTEST in a Nutshell. Editorial, Nanotoxicology ; 2015, 9, (S1): 1–4. **Guest editors:** Special issue from the NanoTEST project

- Møller P, **Dusinska M**, Vogel U. Lessons learned from research on air pollution and other particles in the toxicology of nanomaterials and vice versa. **Guest editors**, Special issue in *Environ Mol Mutagen*. 56, 77-81. 2015. doi: 10.1002/em.21930. [Epub ahead of print] PubMed PMID: 25572697

Publications: over 350 publications in peer-reviewed journals, over 15000 citations, h score 63 (Google Scholar).

Maria Dusinska, List of selected publications for last 5 years from 2019

1. Mech A, Rasmussen K, Jantunen P, Aicher L, Alessandrelli M, Bernauer U, Bleeker EAJ, Bouillard J, Di Prospero Fanghella P, Draisci R, Dusinska M, Encheva G, Flament G, Haase A, Handzhiyski Y, Herzberg F, Huwyler J, Jacobsen NR, Jeliaskov V, Jeliaskova N, Nymark P, Grafström R, Oomen AG, Polci ML, Riebeling C, Sandström J, Shivachev B, Stateva S, Tanasescu S, Tsekovska R, Wallin H, Wilks MF, Zellmer S, Apostolova MD. Insights into possibilities for grouping and read-across for nanomaterials in EU chemicals legislation. *Nanotoxicology*: 13 Issue: 1, 119-141, 2019-Feb. doi: 10.1080/17435390.2018.1513092. PubMed PMID: 30182766.
2. Niazi Y, Thomsen H, Smolkova B, Vodickova L, Vodenkova S, Kroupa M, Vymetalkova V, Kazimirova A, Barancokova M, Volkovova K, Staruchova M, Hoffmann P, Nöthen MM, Dušinská M, Musak L, Vodicka P, Hemminki K, Försti A. Genetic variation associated with chromosomal aberration frequency: A genome-Wide association study. *Environ Mol Mutagen*. 2019 Jan;60(1):17-28. doi:10.1002/em.22236. Epub 2018 Oct 3. PubMed PMID: 30368896.
3. Dusinska M, Mariussen E, Rundén-Pran E, Hudecova AM, Elje E, Kazimirova A, El Yamani N, Dommershausen N, Tharmann J, Fieblinger D, Herzberg F, Luch A, Haase A. In Vitro Approaches for Assessing the Genotoxicity of Nanomaterials. *Methods Mol Biol*. 2019; 1894:83-122. doi: 10.1007/978-1-4939-8916-4_6. PubMed PMID: 30547457.
4. Patsula V, Tulinska J, Trachtová Š, Kuricova M, Liskova A, Španová A, Ciampor F, Vavra I, Rittich B, Ursinyova M, Dusinska M, Ilavska S, Horvathova M, Masanova V, Uhnakova I, Horák D. Toxicity evaluation of monodisperse PEGylated magnetic nanoparticles for nanomedicine. *Nanotoxicology*. 2019 Feb 1:1-17. doi:10.1080/17435390.2018.1555624. [Epub ahead of print] PMID: 30704361
5. Gajski, Goran; Zegura, Bojana; Ladeira, Carina; Pourrut, Bertrand; Del Bo', Cristian; Novak, Matjaz; Sramkova, Monika; Milic, Mirta; Gutzkow, Kristine Bjerve; Costa, Solange; Dusinska, Maria; Brunborg, Gunnar; Collins A The comet assay in animal models: From bugs to whales - (Part I Invertebrates). *Mutation research*, 2019, 779, 82-113. DOI:10.1016/j.mrrev.2019.02.003
6. SCCS; Vanhaecke, Tamara, SCCS members; SCCS external experts Opinion of the Scientific Committee on Consumer safety (SCCS) - Opinion on Ethylzingerone - 'Hydroxyethoxyphenyl Butanone' (HEPB) - Cosmetics Europe No P98 - CAS No 569646-79-3 - Submission II (eyeirritation). *Regulatory toxicology and pharmacology*. 107 Pages:104393 Published: 2019 Jun-04 (Epub 2019 Jun 04)
7. Lombi E, Donner E, Dusinska M, Wickson F. A One Health approach to managing the applications and implications of nanotechnologies in agriculture *NATURE NANOTECHNOLOGY* Volume: 14 Issue: 6 Pages: 523-531 Published: JUN 2019
8. Dusinska M, Costa S, Collins A. Introduction to hCOMET special issue, 'Comet assay in vitro'. *Mutat Res*. 2019 Sep;845:403071. doi:10.1016/j.mrgentox.2019.07.001. Epub 2019 Jul 3. PubMed PMID: 31561893.
9. Niazi Y, Thomsen H, Smolkova B, Vodickova L, Vodenkova S, Kroupa M, Vymetalkova V, Kazimirova A, Barancokova M, Volkovova K, Staruchova M, Hoffmann P, Nöthen MM, Dusinska M, Musak L, Vodicka P, Hemminki K, Försti A. Distinct pathways associated with chromosomal aberration frequency in a cohort exposed to genotoxic compounds compared to general population. *Mutagenesis*. 2019 Oct 4. pii:gez024. doi: 10.1093/mutage/gez024. [Epub ahead of print] PubMed PMID: 31586183.
10. Elje E, Hesler M, Rundén-Pran E, Mann P, Mariussen E, Wagner S, Dusinska M, Kohl Y. The comet assay applied to HepG2 liver spheroids. *Mutat Res*. 2019 Sep;845:403033. doi: 10.1016/j.mrgentox.2019.03.006. Epub 2019 Mar 29. PubMed PMID: 31561895.
11. Kazimirova A, Baranokova M, Staruchova M, Drlickova M, Volkovova K, Dusinska M. Titanium dioxide nanoparticles tested for genotoxicity with the comet and micronucleus assays in vitro, ex vivo and in vivo. *Mutat Res*. 2019 Jul;843:57-65. doi: 10.1016/j.mrgentox.2019.05.001.
12. Azqueta A, Muruzabal D, Boutet-Robinet E, Milic M, Dusinska M, Brunborg G, Møller P, Collins AR. Technical recommendations to perform the alkaline standard and enzyme-modified comet assay in human biomonitoring studies. *Mutat Res*. 2019 Jul;843:24-32. doi: 10.1016/j.mrgentox.2019.04.007. Epub 2019 May 1. PubMed PMID: 31421734.
13. Collins A, Milic M, Bonassi S, Dusinska M. The comet assay in human biomonitoring: Technical and epidemiological perspectives. *Mutat Res*. 2019 Jul;843:1-2. doi: 10.1016/j.mrgentox.2019.06.002. Epub 2019 Jun 8. PubMed PMID: 31421730.

14. Gajski G, Žegura B, Ladeira C, Novak M, Sramkova M, Pourrut B, Del Bo' C, Milić M, Gutzkow KB, Costa S, Dusinska M, Brunborg G, Collins A. The comet assay in animal models: From bugs to whales - (Part 2 Vertebrates). *Mutat Res.* 2019 Jul - Sep;781:130-164. doi: 10.1016/j.mrrev.2019.04.002. Epub 2019 Apr 20. Review. PubMed PMID: 31416573.
15. SCCS, Panteri E; Scs members; Scs external experts. Opinion of the Scientific Committee on Consumer safety (SCCS) - Opinion on the safety of cosmetic ingredient salicylic acid (CAS 69-72-7). *Regul Toxicol Pharmacol.* 2019 Nov;108:104376. doi: 10.1016/j.yrtph.2019.05.001.
16. SCCS members; External experts. Opinion of the Scientific Committee on consumer safety (SCCS) - Final opinion on the safety of fragrance ingredient Acetylated Vetiver Oil (AVO) - (Vetiveria zizanioides root extract acetylated) - Submission III. *Regul Toxicol Pharmacol.* 2019 Oct;107:104389. doi:10.1016/j.yrtph.2019.05.014. Epub 2019 Jun 6. PubMed PMID: 31176744.
17. Masanova, V; Liskova, A; Mikusova Lehotska M; Rollerova, E; Tulinska J; Krivosikova, Z; Stefikova, K; Uhnakova, I; Ursinyova, M; Babickova, J; Babelova, A; Busova, M; Tothova, L; Wsolova, L; Dusinska, M; Sojka, M; Horvathova, M; Alacova, R; Vecera, Z; Mikuska, P. Six-week inhalation of CdO nanoparticles in mice: The effects on immune response, oxidative stress, antioxidative defense, fibrotic response, and bones. *Food and chemical toxicology.* , 2019, p.110954
18. Giusti, A; Atluri, R; Tsekovska, R; Gajewicz, A; Apostolova, MD; Battistelli, CL; Bleeker, EAJ; Bossa, C; Bouillard, J; Dusinska, M; Gomez-Fernandez, P; Grafstrom, R; Gromelski, M; Handzhiyski, Y; Jacobsen, NR; Jantunen, P; Jensen, KA; Mech, A; Navas, JM; Nymark, P; Oomen, AG; Puzyn, T; Rasmussen, K; Riebeling, C; Rodriguez-Llopis, I; Sabella, S; Sintes, JR; Suarez-Merino, B Tanasescu, S; Wallin, H; Haase, A Nanomaterial grouping: Existing approaches and future recommendations NANOIMPACT Volume: 16, Article Number: 100182, DOI: 10.1016/j.impact.2019.100182 Published: APR 2019
19. Zavadil, J, Melki, P. N., Renard, C. Mariussen, E.; Pran, Runden E., Longhin, E. M., Dusinska, M., Sancey, L.; Busser, B.; Herbert, R. A.; Korenjak, M. Mutational Imprints of Cobalt Exposure: A Genome-Scale Multi-system Approach. *ENVIRONMENTAL AND MOLECULAR MUTAGENESIS*, Volume: 60, Pages: 49-49, Supplement: 1, Special Issue: SI, Meeting Abstract: 9, 2019
20. Rogiers, Vera; Benfenati, Emilio; Bernauer, Ulrike, Dusinska M.; et al. The way forward for assessing the human health safety of cosmetics in the EU - Workshop proceedings *TOXICOLOGY* Volume: 436 Article Number: 152421 Published: APR 30 2020
21. Elje, Elisabeth; Mariussen, Espen; Moriones, Oscar H. Dusinska M. et al. Hepato(Geno)Toxicity Assessment of Nanoparticles in a HepG2 Liver Spheroid Model , *NANOMATERIALS* Volume: 10 Issue: 3 Article Number: 545 Published: MAR 2020)
22. Kazimirova, Alena; El Yamani, Naouale; Rubio, Laura; Garcia-Rodriguez, A , Barancokova, M , Marcos R, Dusinska M.. Effects of Titanium Dioxide Nanoparticles on the Hprt Gene Mutations in V79 Hamster Cells *NANOMATERIALS* Volume: 10 Issue: 3 Article Number: 465 Published: MAR 2020
23. Pfuhrer, Stefan; van Benthem, Jan; Curren, Rodger; Dusinska M, et al. Use of in vitro 3D tissue models in genotoxicity testing: Strategic fit, validation status and way forward. Report of the working group from the 7th International Workshop on Genotoxicity Testing (IWGT) *MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS* Volume: 850 Special Issue: SI Article Number: 503135 Published: FEB-MAR 2020
24. Tulinska, Jana; Masanova, Vlasta; Liskova, Aurelia, Dusinska M., et al. Six-week inhalation of CdO nanoparticles in mice: The effects on immune response, oxidative stress, antioxidative defense, fibrotic response, and bones *FOOD AND CHEMICAL TOXICOLOGY* Volume: 136, 110954, 2020
25. Afantitis, Antreas; Melagraki, Georgia; Isigonis, Panagiotis, Dusinska M., et al. NanoSolveIT Project: Driving nanoinformatics research to develop innovative and integrated tools for *in silico* nanosafety assessment. *Computational and structural biotechnology journal* Volume: 18 Pages: 583-602 Published: 2020
26. SCCS members, Dusinska M., The SCCS guidance on the safety assessment of nanomaterials in cosmetics. *Regulatory toxicology and pharmacology : RTP* Volume: 112 Pages: 104611 Published: 2020-04 (Epub 2020 Feb 13)
27. Isigonis P, Afantitis A, Antunes D, Bartonova A, Beitollahi A, Bohmer N, Bouman E, Chaudhry Q, Cimpan MR, Cimpan E, Doak S, Dupin D, Fedrigo D, Fessard V, Gromelski M, Gutleb AC, Halappanavar S, Hoet P, Jeliaskova N, Jomini S, Lindner S, Linkov I, Longhin EM, Lynch I, Malsch I, Marcomini A, Mariussen E, de la Fuente JM, Melagraki G, Murphy F, Neaves M, Packroff R, Pfuhrer S, Puzyn T, Rahman Q, Pran ER, Semenzin E, Serchi T, Steinbach C, Trump B, Vrček IV, Warheit D, Wiesner MR, Willighagen E, Dusinska M. Risk Governance of Emerging Technologies Demonstrated in Terms of its Applicability to Nanomaterials. *Small.* 2020 Jul 23:e2003303. doi: 10.1002/sml.202003303. Online ahead of print. PMID: 32700469 Review
28. Malsch I, Isigonis P, Dusinska M, Bouman EA. Embedding Ethical Impact Assessment in Nanosafety Decision Support. *Small.* 2020 Jul 23:e2002901. doi: 10.1002/sml.202002901.

29. Nelissen I, Haase A, Anguissola S, Rocks L, Jacobs A, Willems H, Riebeling C, Luch A, Piret JP, Toussaint O, Trouiller B, Lacroix G, Gutleb AC, Contal S, Diabaté S, Weiss C, Lozano-Fernández T, González-Fernández Á, Dusinska M, Huk A, Stone V, Kanase N, Nocuń M, Stępnik M, Meschini S, Ammendolia MG, Lewinski N, Riediker M, Venturini M, Benetti F, Topinka J, Brzicova T, Milani S, Rädler J, Salvati A, Dawson KA. Improving Quality in Nanoparticle-Induced Cytotoxicity Testing by a Tiered Inter-Laboratory Comparison Study. *Nanomaterials (Basel)*. 2020, 22;10(8): E1430. doi:10.3390/nano10081430.PMID: 32707981
30. Precupas A, Gheorghe D, Botea-Petcu A, Leonties AR, Sandu R, Popa VT, Mariussen E, Naouale EY, Rundén-Pran E, Dumit V, Xue Y, Cimpan MR, Dusinska M, Haase A, Tanasescu S. Thermodynamic Parameters at Bio-Nano Interface and Nanomaterial Toxicity: A Case Study on BSA Interaction with ZnO, SiO₂, and TiO₂. *Chem Res Toxicol*. 2020 Jul 15. doi: 10.1021/acs.chemrestox.9b00468. Online ahead of print. PMID: 32600046
31. Kohl Y, Runden-Pran E, Mariussen E, Hesler M, El Yamani N, Longhin EM, Dusinska M. Genotoxicity of Nanomaterials: Advanced In Vitro Models and High Throughput Methods for Human Hazard Assessment-A Review. *Nanomaterials (Basel, Switzerland)* 2020;10(10):1911. doi: 10.3390/nano10101911.PMID: 32992722 .
32. Niazi Y, Thomsen H, Smolkova B, Vodickova L, Vodenkova S, Kroupa M, Vymetalkova V, Kazimirova A, Barancokova M, Volkovova K, Staruchova M, Hoffmann P, Nöthen MM, Dusinska M, Musak L, Vodicka P, Hemminki K, Försti A. Impact of genetic polymorphisms in kinetochore and spindle assembly genes on chromosomal aberration frequency in healthy humans. *Mutat Res*. 2020 Oct-Dec;858-860:503253. doi: 10.1016/j.mrgentox.2020.503253. Epub 2020 Sep 15.PMID: 33198934
33. Møller P, Azqueta A, Boutet-Robinet E, Koppen G, Bonassi S, Milić M, Gajski G, Costa S, Teixeira JP, Costa Pereira C, Dusinska M, Godschalk R, Brunborg G, Gutzkow KB, Giovannelli L, Cooke MS, Richling E, Laffon B, Valdíglesias V, Basaran N, Del Bo' C, Zegura B, Novak M, Stopper H, Vodicka P, Vodenkova S, de Andrade VM, Sramkova M, Gabelova A, Collins A, Langie SAS. Minimum Information for Reporting on the Comet Assay (MIRCA): recommendations for describing comet assay procedures and results. *Nat Protoc*. 2020 Dec;15(12):3817-3826. doi: 10.1038/s41596-020-0398-1. Epub 2020 Oct 26.PMID: 33106678
34. Vodenkova S, Azqueta A, Collins A, Dusinska M, Gaivão I, Møller P, Opattova A, Vodicka P, Godschalk RWL, Langie SAS. An optimized comet-based in vitro DNA repair assay to assess base and nucleotide excision repair activity. *Nat Protoc*. 2020 Dec;15(12):3844-3878. doi: 10.1038/s41596-020-0401-x. Epub 2020 Nov 16.PMID: 33199871
35. Buocikova V, Rios-Mondragon I, Pilalis E, Chatziioannou A, Miklikova S, Mego M, Pajuste K, Rucins M, Yamani NE, Longhin EM, Sobolev A, Freixanet M, Puntos V, Plotniece A, Dusinska M, Cimpan MR, Gabelova A, Smolkova B. Epigenetics in Breast Cancer Therapy-New Strategies and Future Nanomedicine Perspectives. *Cancers (Basel)*. 2020 Dec 3;12(12):3622. doi: 10.3390/cancers12123622.PMID: 33287297
36. Araceli Sánchez Jiménez, Raquel Puellas, Marta Pérez Fernández, Paloma Gómez Fernández, Leire Barruetabeña, Nicklas Raun Jacobsen, Blanca Suarez-Merino, Christian Micheletti, Nicolas Manier, Bénédicte Trouiller, Jose Maria Navas, Judit Kalman, Beatrice Salieri, Roland Hischier, Yordan Handzhiyski, Margarita D.Apostolova, Niels Hadrup, Jacques Bouillard, Yohan Oudart, Cesar Merino, Erika Garcia, Biase Liguori, Stefania Sabella, Jerome Rose, Armand Masion, Karen S.Galea, Sean Kelly, Sandra Štěpánková, Catherine Mouneyrac, Andrew Barrick, Amélie Châtel, María Dusinska, Elise Rundén-Pran, Espen Mariussen, Christophe Bressot, Olivier Aguerre-Chariol, Neeraj Shandilya, Henk Goede, Julio Gomez-Cordon, Sophie Simar, Fabrice Nesslany, Keld Alstrup Jensen, Martievan Tongeren, Isabel Rodríguez Llopis Safe(r) by design implementation in the nanotechnology industry. *NanoImpact*, Volume 20, October 2020, 100267; <https://doi.org/10.1016/j.impact.2020.100267>
37. Kohl Y, Biehl M, Spring S, Hesler M, Ogourtsov V, Todorovic M, Owen J, Elje E, Kopecka K, Moriones OH, Bastús NG, Simon P, Dubaj T, Rundén-Pran E, Puntos V, William N, von Briesen H, Wagner S, Kapur N, Mariussen E, Nelson A, Gabelova A, Dusinska M, Velten T, Knoll T Microfluidic In Vitro Platform for (Nano)Safety and (Nano)Drug Efficiency screening. *Small*. 2021 Jan 18:e2006012. doi: 10.1002/sml.202006012. Online ahead of print.PMID: 33458959
38. Jirsova K, Vesela V, Skalicka P, Ruzickova E, Glezgova J, Zima T, Dusinska M, Collins A, Bednar J. The micronucleus cytome assay - A fast tool for DNA damage screening in human conjunctival epithelial cells. *The ocular surface* Volume: 20 Page 195-198 , 2021 -Mar-04 (Epub 2021 Mar 04). doi: 10.1016/j.jtos.2021.02.011. Epub 2021 Mar 4. PMID: 33677062.
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