NANoREG Publications

Date	Title	Author(s)	Ben. Nr.	Journal
2013	Measurement uncertainties of size, shape and surface 1 measurements using transmission electron microscopy of near-2 monodisperse, near-spherical nanoparticles	Pieter-Jan De Temmermann et al	26	Research Paper
2013	Semi-automatic size measurement of primary particles in aggregated nanomaterials by transmission electron microscopy	Pieter-Jan De Temmerman et al	26	Powder technology
2013	Nano-(Q)SAR to Categorise Nanomaterial in the Assessment of Risk: What are the challenges?	Ratna Tantra et al.	12 46 60	Nanotoxicology
2013	Physiologically based pharmacokinetic modeling of polyethylene glycol-coated 2 polyacrylamide nanoparticles in rats	Yang Li et al	15	Nanotoxicology
2014	ECOTOXICITY OF MULTIWALLED CARBON NANOTUBES: STANDARDIZATION OF THE	Cristina Cerrilloa et al	51	Environmental Toxicology and Chemistry, Vol. 34, No. 8, pp. 1854–1862, 2015
2014	Perspectives in immunopharmacology: The future of immunosuppression	Diana Boraschi, Giselle Penton-Rol	31	Immunology Letters
2014	Optimising the use of commercial LAL assays for the analysis of endotoxin contamination in metal colloids and metal oxide nanoparticles	Yang Li et al	31	Nanotoxicology
2014	Nanoparticles and the Immune System Safety and Effects	Diana Boraschi Albert Duschl	31	Boraschi, D. & A. Duschl (authors/editors). 2014. Nanoparticles and the immune system: safety and effects. Elsevier – Academic Press, Oxford, UK)
2014	Evaluation of particle tracking analysis as an alternative for transmission electron microscopy.	Pieter-Jan De Temmerman et al	26	Journal of Colloidal and Interface Science
2014	Classification and Reporting of Nanostructured Silica Materials	Rambabu Atluri, Keld Alstrup Jensen	4	Chemical Reviews
2014	Assessing Suitability of Analytical Methods to Measure Solubility for the Purpose of Nano-Regulation	Ratna Tantra et al.	46, 22, 30, 43	Nanotoxicology

2014	Systematic Investigation of the Physicochemical Factors That Contribute to the Toxicity of ZnO Nanoparticles	Qingshan Mu et al	43	Chemical Research in Toxicology http://pubs.acs.org/doi/abs/10.1021/tx4004243
2015	COLLOIDAL STABILITY AND ECOTOXICITY OF MULTIWALLED CARBON NANOTUBES: INFLUENCE OF SELECT ORGANIC MATTERS	Cristina Cerrillo et al	51	Environmental Toxicology and Chemistry, Vol. 9999, No. 9999, pp. 1–10, 2015
2014	Physical characterization of nanomaterials in dispersion by transmission electron microsco-py in a regulatory framework	Jan Mast et al	26	Electron Microscopy of Materials
2014	Nanomaterial and Food Safety: toxicological evaluation of food additive E551 in NANoREG project	Francesca Maranghi - Roberta Tassinari	17	EFSA Italian Focal Point http://www.iss.it/efsa/index.php?lang=1&anno=2014&tipo=28)
2014	Unmasking nanoparticle subcellular localization artifacts by electron tomography	Ivan Mičetić et al	41	
2014	Interaction of Nanoparticles with the immune system	Diana Boraschi, Paola Italiani	31	Nanoparticles for the Delivery of Nanothera-peutics. J. Ramey, and L. Forrest (Eds.). Future Science e-book series
2015	Characteristics of airborne gold aggregates generated by spark 1 discharge and high temperature evaporation furnace: mass-mobility 2 relationship and surface area	Svensson, C.R. et al	37	Journal of Aerosol Science and technology
2015	Visualization of nanocellulose in biological tissues using a biotinylated cellulase CBM domain, EXG:CBM Authors: Kristina Bram Knudsen et al	Kristina Bram Knudsen et al	4	P&FT
2015	Freshwater dispersion stability of PAA-stabilised cerium oxide nanoparticles and toxicity towards Pseudokirchneriella subcapitata	Andy Booth	44 59 6	Science of the Total Environment
2015	Techniques and protocols for dispersing nanoparticle powders in aqueous media – (what) are we ready to harmonise?	Nanna B. Hartmann, et al.	4	Journal of Toxicology and Environmental Health, Part B: Critical Reviews
2015	SOLUBILITY 5 SOLUBILITY PART 1: OVERVIEW	R. Tantra et al	46	The manuscript is an extension of the solubilty review that has been published recently in Nanotoxicology and hence will answer the same

				regulatory questions as the previous manuscript.
2015	SOLUBILITY 6 SOLUBILITY PART 2: COLORIMETRY	R. Tantra et al	46	
2015	Pooling and analysis of published in vitro data: A proof of concept study for the grouping of nanoparticles	Myrtill Simkó et al	8	International Journal of Molecular Sciences
2015	Towards the standardization of nanoecotoxicity testing: Natural organic matter 'camouflages' the adverse effects of TiO2 and CeO2 nanoparticles on green microalgae	Cristina Cerrillo et al	51	Science of the Total Environment 543 (2016) 95-104 http://dx.doi.org/10.1016/j.scitotenv.2015.10.137
2015	Biological Interactions of Carbon-Based Nanomaterials: From Coronation to Degradation	Kunal Bhattacharya, et al	15	Nanomedicine: Nanotechnology, Biology, and Medicine
2015	CARBON NANOMATERIALS THERMAL DEGRADATION: POTENTIAL RISK OF NANOWASTE COMBUSTION	Danihelka Pavel, et al.	67	Environmental Toxicology & Chemistry Journal
2015	Keeping it real: The importance of material characterization in nanotoxicology	Bengt Fadeel, et al.	15	Biochemical and Biophysical Research Communications
2015	Mechanism-based genotoxicity screening of metal oxide nanoparticles using the ToxTracker panel of reporter cell lines	A. Gliga, B. Fadeel and HL Karlsson	15	Particle and Fibre Toxicology
2015	Size-dependent cytotoxicity of silver nanoparticles in human lung cells: the role of cellular uptake, agglomeration and Ag release	A. Gliga, B. Fadeel and HL Karlsson	15	Particle and Fibre Toxicology
2015	Influence of salinity on fate and behavior of silver standardized nanomaterial and toxicity effects in the estuarine bivalve Scrobicularia Plana.	Carole Bertrand, et al.	32	
2015	CELL TRANSFORMATION ASSAY FOR GENOTOXIC AND NON-GENOTOXIC CARCINOGENS	Dusinska M, et al.	16	Genotoxicity and Repair
2015	Can the comet assay be used reliably to detect nanoparticle-induced genotoxicity?	Dusinska M., et al.	16	Environ Mol Mutagen
2015	Is the toxic potential of nanosilver dependent on its size?	Dusinska M , et al.	16	Particle and Fibre Toxicology 2014
2015	Nanoparticles in food. epigenetic changes induced by nanomaterials and possible impact on health	Dusinska M, et al.	16	Food Chem Toxicol
2015	Critical factors to be considered when	Dusinska M. , et al.	16	Mutagenesis

	testing nanomaterials for genotoxicity with the comet assay.			
2015	Biological impact assessment of nanomaterial used in nanomedicine	Dusinska M. et al.	16	Nanotoxicology.
2015	Toxicity screenings of nanomaterials: challenges due to interference with assay processes and components of classic in vitro tests.	Dusinska M. et al.	16	Nanotoxicology
2015	Coating-dependent induction of cytotoxicity and genotoxicity of iron oxide nanoparticles	Dusinska M. et al.	16	Nanotoxicology
2015	Immunotoxicity and genotoxicity testing of PLGA-PEO nanoparticles in human blood cell model.	Dusinska M. et al.	16	Nanotoxicology
2015	Health effects of selected nanoparticlesin vivo: Liver function and hepatotoxicity following intravenous injection of titanium dioxide and Na-oleate coated iron oxide nanoparticles in rodents.	Dusinska M. et al.	16	Nanotoxicology
2015	Iron oxide nanoparticle toxicity testing using high throughput analysis and high content imaging	Dusinska M. et al.	16	Nanotoxicology
2015	Suitability of human and mammalian cells of different origin for the assessment of genotoxicity of metal and polymeric engineered nanoparticles	Dusinska M. et al.	16	Nanotoxicology
2015	Towards an alternative testing strategy for nanomaterials used in nanomedicine: Lessons from NanoTEST	Dusinska M. et al.	16	Nanotoxicology
2015	Impact of nanosilver on various DNA lesions and HPRT gene mutations.	Dusinska M. et al.	16	Particle and Fibre Toxicology
2015	Impact of Storage Conditions and Storage Time on Silver Nanoparticles' Physicochemical Properties and Implications for their Biological Effects, RCS	Dusinska M. et al.	16	Particle and Fibre Toxicology
2015	Fingerprint Characterisation of Graphene based products	A. Prina-Mello, et al.	14	Nature Publishers – Scientific Reports
2015	No genotoxicity in rat blood cells upon 3- or 6-month inhalation exposure to CeO2 or BaSO4 nanomaterials	Eugenia Cordelli, et al.	18	Mutagenesis
2015	Multi-walled carbon nanotubes (NM401) induce ROS mediated HPRT mutations in Chinese hamster lung fibroblasts	Laura Rubio, et al.	16	Environmental Research journal
2015	Towards a general physiologically based	Ulrika Carlander1	15	International Journal of

	pharmacokinetic (PBPK) model for intravenously injected nanoparticles			Nanomedicine https://www.dovepress.com/toward-a-general-physiologically-based-pharmacokinetic-model-for-intra-peer-reviewed-article-IJN or https://www.dovepress.com/article_25555.t51080323
2015	High throughput screening methods applied to the study of toxicity of nanomaterials	Maria Dusinska	16	RSC Advances (RSC), WIRES nanotechnology (Wiley) or High Throughout Screening (Dove press).
2015	Discussion about the use of the volume-specific surface area (VSSA) as criteria to identify nanomaterials according to the EU definition	Andre´ J. Lecloux	61	J Nanopart Res (2015) 17:447 DOI 10.1007/s11051-015-3239-3
2015	Nano-TiO2 penetration into oral mucosa: in-vitro analysis using 3D organotypic human buccal mucosa models	Mihaela R. Cimpan et al.	27	Journal of Oral Pathology & Medicine
2016	Amorphous silica nanoparticle induced perturbation of cholesterol homeostasis as a function of surface area: an integrated Multi-OMICS approach	Nivedita Chatterjee, et al.	SK006	Nanomedicine
2016	Discussion about the use of the Volume Specific Surface Area (VSSA) as criteria to identify nanomaterials according to the EU definition.	André J. Lecloux, et al.	61	Journal of Nanoparticle Research l
2016	Multi-walled carbon nanotube physicochemical properties predict pulmonary inflammation and genotoxicity	Sarah S. Poulsen, et al	4	Nanotoxicology
2016	Single-Walled Carbon Nanotubes Inhibit the Cytochrome P450 Enzyme, CYP3A4	Ramy El-Sayed1, et al.	15	Scientific Reports
2016	Key challenges for nanotechnology: Standardization of 1 ecotoxicity testing	Cristina Cerrillo, et al.	51	Environment International Journal
2016	Model Validity in Nanoimmunosafety: Advantages and Disadvantages of in vivo vs. in vitro Models, and Human vs. Animal Models	Diana Boraschi et al.	31	Nanomedicne
2016	Influence of salinity on fate and behavior of silver standardized nanomaterial and	Carole Bertrand, et al.	32	Environmental Toxicology and Chemistry

	toxicity effects in the estuarine bivalve Scrobicularia Plana.			
2016	Endotoxin contamination: a key element in the interpretation of nanosafety studies	Yang Li, et al.	31	Nanomedicine (Lond.) (2016) 11(3), 269–287
2016	Silica Nanoparticle – Supported Lipid Membrane Interactions	Mikael Lilja	52	Langmuir
2016	Genotoxicity of TiO2 nanoparticles assessed using mini-gel comet assay and micronucleus scoring with flow cytometry	HL Karlsson	15	Mutagenesis
2016	Exploiting Knowledge on Nano-Immune Interactions: the Present and the Future	Diana Boraschi	31	Current Bionanotechnology
2016	Concepts for Nano-delivery of Therapeutic Immunomodulatory Agents	Diana Boraschi	31	Current Bionanotechnology
2016	Towards a nanospecific approach for risk assessment	Susan Dekkers et al.	5	Regulatory Toxicology and Pharmacology http://www.sciencedirect.com/science/article/pii/S0273230016301581
2016	Epoxy composite dusts with and without carbon nanotubes cause similar pulmonary responses, but differences in liver histology in mice following pulmonary deposition	Hakan Wallin, et al.	4	Particle and Fibre Toxicology
2016	X-RAY DIFFRACTION: A POWERFUL TECHNIQUE FOR THE MULTIPLE-LENGTH-SCALE STRUCTURAL ANALYSIS OF NANOMATERIALS	Cinzia Giannini, et al.	31	Crystals* (http://www.mdpi.com/journal/crystals) within a Special Issue entitled "Colloidal Nanocrystals: Synthesis, Characterization and Application".
2016	Evaluation of the cyto- and genotoxic effects of multi-walled carbon nanotubes in human respiratory cells in relation to their physicochemical properties	Henriqueta Louroa, et al.	53	ournal of Toxicology and Environmental Health, Part A Current Issues.
2016	Responsible Research is not Good Science: Divergences inhibiting the enactment of RRI in nanosafety	Lilian van Hoven	38	Journal of Responsible Innovation
2016	Evaluation of methods to determine adsorption of polycyclic aromatic hydrocarbons to dispersed carbon nanotubes	Andy Booth, et al.	44	Environmental Science and Pollution Research (ESPR)
2016	Dissolution test for risk assessment of nanoparticles: a proof of concept	Stefania Sabelle	28	Nanoscale

2016	Nanoparticles and the immune system	Bengt Fadeel, et al Diana Boraschi	15 39	Elsevier
2016	In vivo biodistribution and physiologically based pharmacokinetic modeling of inhaled fresh and aged cerium oxide nanoparticles in rats	Ulrika Carlander	KI	Particle and Fibre toxicology
2016	Cytotoxicity and immunotoxicity profiling of a panel of nineteen engineered nanomaterials from the FP7-NANOREG project enables ranking and grouping	Kunal Bhattacharya, et al	15	Particle and Fibre Toxicology
2016	Evaluation of a personal sampler for mass-based measurement of airborne nanomaterials	Simon Clavaguera, et al.	23	the Journal of Aerosol Science
2016	Dry generation of CeO2 nanoparticles and deposition onto a co-culture of A549 and THP-1 cells in air-liquid interface – dosimetry consideration and comparison to submerged exposure	Hanna Karlsson	15	https://www.beilstein-journals.org/bjnano/home/home.htm
2016	Twelve gel comet assay format for quick examination of DNA damage and repair	Sergey Shaposhnikov, et al.	62	Express Detection of DNA damage: Methods and Protocols (ed. V.Didenko), pub. Springer/Humana
2016	Biokinetics and Environmental Fate of Biopersistent Nanomaterials	Peter Laux, et al.	6	NanoImpact
2016	Air-liquid interface exposure to aerosols of poorly soluble nanomaterials induces different biological activation levels compared to exposure to suspensions	Ghislaine Lacroix-Duchâteau, et al.	34	Particle and Fibre Toxicology" journal http://www.particleandfibretoxicology.com/content/13/1/58.
2016	Physiologically based modelling of the systemic distribution of nanoceria	Ulrika Carlander, et al	15	International Journal of Nanomedicine
2016	Effects on human bronchial epithelial cells following low-dose chronic exposure to nanomaterials: a 6-month transformation study	Shan Zienolddiny, et al.	19	Toxicology in vitro
2016	The effect of laboratory illumination conditions during toxicological testing on the surface reactivity and degree of dispersion of nano-TiO2	Ivana Fenoglio, et al.	31	Particle and Fibre Toxicology, BioMed Central
2016	Dustiness of 14 carbon nanotubes using the vortex shaker method	Olivier Witschger, et al.	21	Journal of Physics Conference Series, in connection with the conference Nanosafe2016

2016	Predicting the in vivo pulmonary toxicity induced by acute exposure to poorly soluble nanomaterials by using more complex in vitro methods	Ghislaine Lacroix, et al.	34	Nanotoxicology journal
2017	Inorganic nanoparticle-cell two-way interaction: standard and unconventional testing	Caterina Cristallini, et al.	31	Journal of Nanoparticle Research
2016	Acute and long-term in vitro effects of zinc oxide nanoparticles	Ricard Marcos, et al.	27	NANOTOXICOLOGY
2016	Genotoxic and cell-transformation effects of multi-walled carbonnanotubes (MWCNT) following in vitro sub-chronic exposuresGerard	Ricard Marcos, et al.	27	Journal of Hazardous Materials j o ur nal ho me pa ge: www.elsevier.com/locate/j hazmat
2016	Frozen dispersions of nanomaterials are a useful operational procedure in nanotoxicology	Ricard Marcos, et al.	27	NANOTOXICOLOGY, 2017
2017	Physicochemical predictors of MWCNT-induced pulmonary histopathology and toxicity 1 year after pulmonary deposition of 11 different MWCNT in C57BL/6N mice	Kristina Bram Knudsen, et al.	4	Nanotoxicology
2017	Long-term effects of silver nanoparticles in Caco-2 cells	Ricard Marcos Dauder, et al.	27	Nanotoxicology