

VIRTUAL, 20 - 22 APRIL, 2021

Tuesday 20th April 2021

10am to 4.10pm (BST)

Time	Session Details		
10.00 - 10.15	Welcome <i>Shareen Doak, Coordinator of PATROLS, Swansea University, UK</i>		
10.15 - 11.00	Exhibition and Posters Viewing		
11.00 - 11.45	Keynote Hazard identification of nanomaterials: in silico unravelling of descriptors for cytotoxicity and genotoxicity. <i>Professor Maria Dusinska, Norwegian Institute for Air Research, Norway</i> Chair: <i>Shareen Doak, Coordinator of PATROLS, Swansea University, UK</i>		
11.45 - 12.00	Coffee break		
12.00 - 13.10	Parallel Session 1		
	Parallel Session 1.1 - Hazard Characterisation of nanomaterials and advanced materials Chair: <i>Bengt Fadeel, Karolinska Institutet, Sweden</i>	Parallel Session 1.2 - Risk assessment of nanomaterials and advanced materials, and their governance Chair: <i>Maria Dusinska, Norwegian Institute for Air Research, Norway</i>	Parallel Session 1.3 - Hazard Characterisation & Ranking Chair: <i>Janeck Scott-Fordsmand</i>
12:05	Effect of Nrf2 deletion on inflammatory response in lung of female mice exposed to zinc oxide nanoparticles <i>Dr. Gaku Ichihara, Tokyo University Of Science, Japan</i>	The GRACIOUS Framework - Grouping and Read-Across of Nanomaterials in order to streamline innovation and risk assessment <i>Prof Vicki Stone, Heriot-Watt University, UK</i>	Testing and Ranking the Reactivity and Solubility of Nano- and Micro-Size Materials' in Different Cell Culture Media Using Sensor Dish Reader TM <i>Miss Amalie Kofoed Jørgensen, NFA, Denmark</i>
12:20	Indirect embryo-fetal risks of nanoparticles: Impact on human placental function, the release of placental signaling factors and subsequent alterations on angiogenic and neurodevelopmental processes <i>Ms Battuja Batbajar Dugershaw, Empa St. Gallen, Switzerland</i>	The caLIBRAte nano-risk innovation governance framework and tools with demonstration of its use for risk management along a stage-gate innovation funnel. <i>Professor Keld Alstrup Jensen, National Research Centre for the Working Environment, Denmark</i>	Grouping nanoforms with differing organic surface treatments based on coating material biodegradation rates <i>Dr Richard Cross, UKCEH, UK</i>
12:35	Titanium dioxide nanomaterials- induced DNA damage in intestinal cells following simulated in vitro digestion <i>Dr Henriqueta Louro, Department of Human Genetics, National Institute of Health, Portugal</i>	Decision Support System for risk assessment and management of nano(bio)materials used in medical devices and advanced therapy medicinal products <i>Phd Alex Zabeo, Greendecision, Italy</i>	Predicting the hazardous potential of metallic nanomaterials in HepaRG cells using the Isalos Analytics Platform <i>Dr Anastasios Papadiamantis, NovaMechanics Ltd, Cyprus</i>
12:40	Dissecting nanoparticle specific key events orchestrated in the mouse lung for improved in vitro testing strategies <i>Dr. Carola Voss, Helmholtz Center Munich, Germany</i>	The Stakeholder engagement to structure the regulatory governance of nanomaterials <i>Professor Wilson Engelmann, University Of Vale Do Rio Dos Sinos, Brazil</i>	A Systematic Approach to Investigate the Carrier Effect of Polycyclic Aromatic Hydrocarbons (PAHs) for Micro and Nano Polymer Particles (PPs) <i>Mr. Emeka Emecheta, German Federal Institute For Risk Assessment, Germany</i>
12:45	Adverse Outcome Pathway development for assessment of lung carcinogenicity by nanomaterials <i>Dr. Penny Nymark, Karolinska Institute, Sweden</i>	DaNa4.0 - advanced materials knowledge base in a new outfit <i>Dr. Katja Nau & Dr. Christoph Steinbach, Karlsruhe Institute Of Technology, Germany</i>	Quaternary mixtures of TiO2NP, CeO2NP, arsenic, and mercury potentiate A549, HepG2 and SH-SY5Y cells cytotoxicity <i>Dr. Fernanda Rosário, National Institute Of Health Doutor Ricardo Jorge, Portugal</i>
12:50	Assessment of Cytotoxicity of Metal Oxide Nanoparticles on the Basis of Physical-Chemical Parameters Immediately Available <i>Dr. Felice Simeone, Cnr-national Research Council Of Italy, Italy</i>		
13.10 - 14.00	Lunch		
13.15 - 14.00	Exhibition and Posters Viewing		
14.00 - 14.45	Keynote Utilising integrated approaches to testing and assessment (IATAs) to make grouping decisions for nanomaterials <i>Dr Helinor Johnston, Heriot Watt University, UK</i> Chair: <i>Shareen Doak, Coordinator of PATROLS, Swansea University, UK</i>		
14.45 - 15.00	Coffee break		
15.00 - 16.10	Parallel Session 2		

	Parallel Session 2.1 - Alternative methods for nanomaterial hazard testing <i>Chair: Barbara Rothen-Rutishauser, Adolphe Merkle Institute, University Fribourg, Switzerland</i>	Parallel Session 2.2 - Release and exposure to nanomaterials and advanced materials <i>Chair: Socorro Vázquez-Campos</i>	Parallel Session 2.3 - Environmental hazard characterisation <i>Chair: Willie Peijnenburg, RIVM, The Netherlands</i>
15:05	Chronic Inflammation Prediction for Inhaled Particles based on Nanomaterial Cycling and Quarantining in the Lung Epithelium <i>Prof. Janez Štrancar, Jozef Stefan Institute, Slovenia</i>	Rat biodistribution of cerium dioxide and titanium dioxide nanomaterials after single and repeated inhalation exposure <i>Dr Ilse Gosens, RIVM, The Netherlands</i>	Acute ZnONP exposure induces oxidative stress responses in the olfactory sensory neurons and alters olfaction-mediated behaviour in zebrafish embryos <i>Dr. Aya Takesono, University of Exter, UK</i>
15:20	Intestinal effects of engineered nanomaterials – advanced in vitro models vs. in vivo feeding studies <i>Dr. Angela Kämpfer, Iuf, Germany</i>	Subcellular and intracellular dissolution of particulate and fibrous metal-based nanomaterials in pulmonary cell lines <i>Mrs Johanna Wall, Karlsruhe Institute of Technology, Germany</i>	Total Concept for Safe(r)-by (SbD for Nano(bio)enabled Replacement Hip Joints. A Model for SbD for Medical Devices, Standardisation and Regulatory Approval <i>Prof. Terry Wilkins, Univeristy of Leeds, UK</i>
15:35	Investigating protein-nanoparticle interactions in 3D models of the human bronchial epithelium for the long-term toxicity study of inhaled nanoparticles <i>Mr Daniel Sanchez-Guzman, Université De Paris-BFA, France</i>	Focal accumulations of nanoparticles in remote organs: a quantitative LA-ICP-MS study <i>MSc Svenja Berit Seiffert, BASF SE, Germany</i>	Lipid and iron nanobiomaterials only produce toxic effects in fish cell lines after a long-term exposure <i>Dr. David Hernandez-Moreno, National Institute for Agricultural and Food Research and Technology (INIA), Spain</i>
15:40	Implementing an alveolar in vitro co-culture model to predict the potential hazard of engineered nanomaterial (ENM) inhalation exposure using Adverse Outcome Pathways (AOPs). <i>Dr Kirsty Meldrum, Swansea University, UK</i>	In vitro intestinal models for nanomaterial toxicity and translocation studies <i>Dr Victor Ude, Heriot-Watt Univeristy, UK</i>	Bioaccumulation potential of CuO nanoparticles following dietary exposure to rainbow trout <i>Dr Judit Kalman, National Institute for Agricultural and Food Research and Technology (INIA), Spain</i>
15:45	Grouping of nanoforms following oral ingestion: Development of an Integrated Approach to Testing and Assessment within The EU Project GRACIOUS <i>Dr Luisana Di Cristo, Istituto Italiano Di Tecnologia, Italy</i>	Integration of particle size distribution into material flow analysis of titanium dioxide <i>Ms Yuanfang Zheng, Empa, Switzerland</i>	Quantification of CeO2 nanoparticle uptake in algal cells using single cell ICP-MS and ICP-TOFMS <i>Dr Aiga Mackevica, Technical University Of Denmark, Denmark</i>
15:50	Gut microbiome and plasma metabolome changes in rats after oral gavage of nanoparticles - sensitive indicators of possible adverse health effects <i>Dr. Daniela Hahn, Biomedical Technology Center, Germany</i>	Physiologically Based Kinetic Modelling of cerium dioxide and titanium dioxide nanomaterials in rat after inhalation <i>Mr Jordi Minnema, RIVM The Netherlands</i>	Eco-friendly preparation of high-quality reduced graphene oxide via sonoluminescence with a TiO2 photocatalyst <i>A Young Lee, Korea Research Institute Of Standards And Science, South Korea</i>
15:55	Developing Integrated Approaches for Testing and Assessment of nanobiomaterial safety following intravenous exposure <i>Ms Suzanne Gillies, Heriot-Watt University, UK</i>		

VIRTUAL, 20 - 22 APRIL, 2021

Wednesday 21st April 2021
9.30am to 4.30pm (BST)

Time	Session Details		
09.30 - 09.35	Welcome <i>Chair: Vicki Stone, Coorinator of GRACIOUS, Heriot-Watt University, UK</i>		
09.35 - 10.30	Exhibition and Posters Viewing		
10.30 - 11.15	Keynote Unmasking the Surface Effect: A Superficial View of Nanotoxicology <i>Prof. Bengt Fadeel, M.D., Ph.D, Karolinska Institutet, Sweden</i> <i>Chair: Vicki Stone, Coorinator of GRACIOUS, Heriot-Watt University, UK</i>		
11.15 - 12.25	Parallel Session 3		
	Parallel Session 3.1 - Risk assessment and governance <i>Chair: Amaia Rodriguez, European Chemicals Agency, Finland</i>	Parallel Session 3.2 - Alternative methods for nanomaterial hazard testing <i>Chair: Hedwig Braakhuis, RIVM, The Netherlands</i>	Parallel Session 3.3 - Environmental hazard characterisation <i>Chair: Martina Vijver, Leiden University, The Netherlands</i>
11:20	The NanoInformaTIX platform <i>Dr. Gianpietro Basel, GreenDecision S.r.l., Italy</i>	In vitro-in vivo correlations of pulmonary toxicity caused by MWCNT <i>Mr. Emilio Di Ianni, National Research Centre For The Working Environment, Denmark</i>	Long-term impacts of nTiO₂ and nTiO₂-coated carbendazim on zooplankton and macroinvertebrate communities (in naturally assembled model ecosystems) <i>Msc. Tom Nederstigt, Leiden University, The Netherlands</i>
11:35	Occupational risk assessment of nano-biomaterials used in medical devices and advanced therapy medicinal products and its application to a case study using the BIORIMA Decision Support System <i>Ms. Virginia Cazzagon, University Ca' Foscari Of Venice, Italy</i>	Transcriptomic-based and AOP-informed structure-activity relationships to predict adverse outcomes induced by nanomaterials. <i>Dr. Karolina Jagiello, QSAR Lab, Poland</i>	Modeling local nanobiomaterial release hotspots in the environment <i>Mrs Marina Hauser, Empa, Switzerland</i>
11:50	Simulation of the Dose-response relationships of metal and metal oxide nanomaterials <i>Dr. Warisa Bunmahotama, Institute of Environmental Sciences (CML), Leiden University, The Netherlands</i>	Towards a better understanding of occupational exposures: In vitro macrophage systems for repeated nanomaterial exposure studies <i>Mrs Anaëlle Torres, Cea/Irig/diese/lcbm/promd, France</i>	Effects of suspended titanium dioxide nanoparticles on microbiota of early-life stage zebrafish <i>MSc. Bregje Brinkmann, Leiden University, Institute of Environmental Sciences, The Netherlands</i>
11:55	Quality of nanoplastics and microplastics ecotoxicity studies: refining nanomaterial reporting quality criteria <i>Dr. Dana Kühnel, Helmholtz-centre For Environmental Research - Ufz, Germany</i>	Neutrophil responses to nanomaterials in vitro: comparing primary human neutrophils with the HL-60 cell line <i>Ms Suzanne Gillies, Heriot-Watt University, UK</i>	Uptake of manufactured CeO₂ NPs by freshwater shrimps – A dual-radiolabelling study <i>Dr. Stefan Schymura, HZDR - Institute of Resource Ecology, Germany</i>
12:00	Going beyond Microplastics: Food Safety Risk Assessment Approaches for Submicron- and Nano-sized Plastic Particles <i>Dr. Holger Sieg, German Federal Institute For Risk Assessment, Germany</i>	An interlaboratory comparison study upon particle deposition and exposure effects using an air-liquid interface lung cell model <i>Dr Hedwig Braakhuis & Dr Rob Vandebriel, National Institute for Public Health & Environment, The Netherlands</i>	Dietary exposure to TiO₂ and silver nanoparticles in zebrafish (Danio rerio): Evaluating the bioaccumulation and depuration kinetics using single particle-ICP-MS analysis <i>Jung Yang, Department of Environment Engineering, National Cheng Kung University, Taiwan</i>
		CoDo - a combined in vitro-in vivo dosimetry model enabling the comparison of in vitro doses and exposure levels for nanomaterials <i>Ms Daina Romeo, Empa, Switzerland</i>	Tracing the environmental and biological fate of nanomaterials: application of isotope labelling and synchrotron radiation-based techniques <i>Mr Peng Zhang, University Of Birmingham, UK</i>
12.25 - 12.40	Coffee break		
12.40 - 13.25	Keynote Physiologically Anchored Tools for Realistic nanomaterial hazard aSessment (PATROLS): establishing advanced ecotoxicity testing and cross-species models <i>Prof. Dr. Martina Vijver, Leiden University, The Netherlands</i> <i>Chair: Vicki Stone, Coorinator of GRACIOUS, Heriot-Watt University, UK</i>		
13.25 - 14.15	Lunch		
13.30 - 14.15	Exhibition and Posters Viewing		
14.15 - 15.25	Parallel Session 4		
	Parallel Session 4.1 - Hazard Characterisation of nanomaterials and advanced materials <i>Chair: Samantha Llewellyn, Swansea University, UK</i>	Parallel Session 4.2 - Hazard Characterisation of nanomaterials and advanced materials <i>Chair: Tobias Stoeger, Helmholtz Zentrum München, Germany</i>	Parallel Session 4.3 - Hazard assessment and making the most of complex data sets <i>Chair: Tomasz Puzyn</i>
14:20	Development of Liver Carcinoma Biomarker Panel in 3D HepG2 Liver Spheroids Following Nanomaterial Exposure <i>Miss Gillian Conway, Swansea University, UK</i>	Study on dietary bioaccumulation of titanium dioxide nanoparticles by turbot <i>Ms Monica Quarato & Dr Begoña España, International Iberian Nanotechnology Laboratory, Portugal</i>	Similarity of nanoforms for grouping purposes: Methods to compare the biological behavior of nanoforms <i>Dr. Gemma Janer & Dr. Wendel Wahlleben, Basf Se, Germany</i>

14:35	<p>Deducing the impact of carbon-based engineered nanomaterials at occupationally relevant exposure concentrations upon the innate immune system in vitro <i>Dr Martin Clift, Swansea University, UK</i></p>	14:35	<p>Exposure to TiO₂ NPs and ZnO NPs induce alterations in metabolic pathways leading to lipid synthesis in the A549 cells <i>Mr Arturo Jimenez-Chavez, Centro de Investigación y de Estudios Avanzados del IPN, Mexico</i></p>	14:35	<p>Similarity assessment of metallic nanoparticles <i>Prof.dr. Willie Peijnenburg, Rijn, The Netherlands</i></p>
14:40	<p>Real time in vivo investigation early alveolar neutrophil dynamics during ventilator-assisted nanoparticle inhalation <i>M.Med. Qiongliang Liu & Prof. Dr. rer. nat. Markus Rehberg, Institute Of Lung Biology And Diseases(ILBD)/ Comprehensive Pneumology Center (CPC), Helmholtz Zentrum München, Germany</i></p>	14:40	<p>Occupational Inhalation Exposures to Nanoparticles at Six Singapore Printing Centers <i>Dr Magdiel Ingrid Setyawati, Nanyang Technological University, Singapore</i></p>	14:50	<p>Meta-analysis of animal studies for assessing the genotoxicity of 26 different engineered nanoparticles <i>Dr. Daniela Hahn, Biomedical Technology Center, Germany</i></p>
14:45	<p>Exposure of mouse monocyte/macrophage (J774) & human lung epithelial (A459) cells to ZnO nanoforms, and in vitro cytotoxic responses <i>Dr Premkumari Kumarathasan, Department Of Health, Canada</i></p>	14:45	<p>Atomizer Differential Mobility Analyzer Hyphenated with Single Particle Inductively Coupled Plasma-Mass Spectrometry (DMA-splCP-MS): Development and Performance Evaluation <i>Mr. Yi Chin Hsieh, National Cheng Kung University, Taiwan</i></p>	14:55	<p>In vitro toxicity of synthetic amorphous nano-silica – investigating the role of surface silanol groups <i>Miss Polly Cooper, Institute of Occupational Medicine, UK</i></p>
				15:00	<p>Exploring the biocompatibility, efficacy and biodegradability of carbohydrate-derived carbon nanoparticles for photo-thermal therapy of lung cancer <i>Ph.D. Ida Kokalari, University Of Turin, Italy</i></p>
				15:05	<p>Pulmonary effects of Fe₃O₄-PEG-PLGA nanoparticles in human bronchial epithelial cells and in wild type and Nrf2 knockout mice following pharyngeal aspiration <i>Ms Harue Sato, Tokyo University of Science, Japan</i></p>

15.25 - 15.40

Coffee break

15.40 - 16.25

Keynote

An EU regulatory approach to address the risk of nanomaterials under REACH

Dr. Amaia Rodriguez, European Chemicals Agency, Finland

Chair: *Vicki Stone, Coorinator of GRACIOUS, Heriot-Watt University, UK*

**Thursday 22nd April 2021
9.00am to 1.30pm (BST)**

Time	Session Details																					
09.00 - 09.05	Welcome <i>Chair: Lang Tran, Coordinator of BIORIMA, IOM, UK</i>																					
09.05 - 09.50	Exhibition and Poster Viewing																					
09.50 - 10.35	Keynote In vivo Transportation and Bioavailability of MoS₂ Nanomaterials Bridged by Protein Corona <i>Chunying Chen, National Center for Nanoscience and Technology of China</i> <i>Chair: Lang Tran, Coordinator of BIORIMA, IOM, UK</i>																					
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