

SCIENTIFIC PROGRAMME

MONDAY, OCTOBER 17

08:30 Registration and information

09:00 **Opening Session**

Guilhermina Rego, Councilwoman-Knowledge and Social Cohesion of the Porto City Hall

José Manuel Calheiros, Vice-president of National Institute of Health, Portugal

José Luis Forte, President of *Autoridade para as Condições do Trabalho* (ACT), Portugal

Blanca Laffon, ICOEH 2011 Co-President, University of A Coruña, Spain

Joao Paulo Teixeira, ICOEH 2011 President, National Institute of Health, Porto, Portugal

09:30 **KS1. Key-note Speaker. Work-related stress: ACT's intervention in improving health and safety at work**

José Luis Forte, President of *Autoridade para as Condições do Trabalho* (ACT), Portugal

Session 1. Occupational Health: Human Monitoring I

Chairperson: Gert van der Laan, Netherlands Center for Occupational Diseases, Netherlands

10:00 S1-1. Pesticide exposure in agriculture. Genotoxicity and genetic susceptibility - Carla Costa, National Institute of Health, Portugal

10:15 S1-2. Evaluation of genotoxic and immunotoxic effects in people occupationally exposed to lead - Julia García-Lestón, University of A Coruña, Spain

10:30 S1-3. Towards an harmonised approach to human biomonitoring in Europe - Sónia Namorado, Universidade de Lisboa, Portugal

10:45 Q & A

11:00 **Coffee break - Poster Session 1**

11:30 **KS2. Key-note Speaker. Effect of TiO₂ nanoparticles in human cells from healthy individuals and patients with respiratory diseases**

Diana Anderson, University of Bradford, United Kingdom

Session 2. Occupational Health: Human Monitoring II

Chairperson: José Luis Forte, President of ACT, Portugal

12:00 S2-1. Relation between smoke exposure values and exhaled breath indicators on firefighters - Ana Isabel Miranda, University of Aveiro, Portugal

12:15 S2-2. Exposure to oxide aluminum particles during polish - Susana Viegas, Instituto Politécnico de Lisboa, Portugal

12:30 S2-3. May shift work be a cause of stress in nurses working in a University Hospital? - Ema Leite, Hospital de Santa Maria/CHLN, Portugal

12:45 Q & A

13:00 **Lunch**

14:00 **Poster Session 1**

Session 3. Occupational Health: Human Monitoring III

Chairperson: Erdem Coskun, Gazi University, Turkey

- 14:30 S3-1. Risk factors for canine norovirus cross-species transmission through occupational exposure to dogs – João Rodrigo Mesquita – University of Porto, Portugal
- 14:45 S3-2. Environmental management in chemical industry - a comparative study on the sector of paints and varnishes – Joana Simões, College of Health and Technology of Coimbra, Portugal
- 15:00 S3-3. Risk perception for pandemic flu and motivation for vaccination among health professionals in a University Hospital – Luís Mendonça, Hospital de Santa Maria/CHLN, Portugal
- 15:15 S3-4. Hospital ergonomics – João Almeida, College of Health and Technology of Coimbra, Portugal
- 15:30 S3-5. Occupational health: hygienic and psychosocial determinants – Marina Dyakovich, Institute of Occupational Health & Human Ecology, Russia
- 15:45 S3-6. Assessment of workplace risk factors and occupational diseases surveillance: the role of geographic information systems. Early results – Mariana Neto, Centro Nacional de Protecção contra os Riscos Profissionais, Portugal
- 16:00 Q & A
- 16:15 **KS3. Key-note Speaker. Chemical speciation of trace elements in environmental health and toxicology**
Fernando Barbosa Jr., University of São Paulo, Brazil

Session 4. Metals as environmental pollutants

Chairperson: Fernando Barbosa Jr., University of São Paulo, Brazil

- 16:45 S4-1. Metal(loid)s levels in biological matrices from human populations exposed to mining contamination - Panasqueira Mine area – Patricia Coelho, National Institute of Health, Portugal
- 17:00 S4-2. Cadmium-zinc-lead isotopic multitracer and lichens used to assess metal atmospheric deposition and soil contamination near an abandoned old mine – Fátima Africano, Universidade de Lisboa, Portugal
- 17:15 S4-3. Zinc accumulation in plant species from a contaminated Portuguese site – Helena Moreira, Universidade Católica Portuguesa, Portugal
- 17:30 Q & A
- 17:45 **Welcome Party**

TUESDAY, OCTOBER 18

09:00 **KS4. Key-note Speaker. The comet assay in human biomonitoring**
Andrew Collins, University of Oslo, Norway

Session 5. Natural or accidental environmental pollutants

Chairperson: M. Lourdes Bastos, University of Porto, Portugal

09:30 S5-1. Mercury problems in Eastern Syberia, Russia – Natalia Efimova, East-Siberian research centre human ecology, Russia

09:45 S5-2. Human health effects in individuals exposed to spilled oils – Blanca Laffon, University of A Coruña, Spain

10:00 S5-3. A step towards the use of biomonitors as PAH air estimators in environmental health studies – Sofia Augusto, Universidade de Lisboa, Portugal

10:15 S5-4. What does the use of lichens as biomonitors showed us about the levels and sources of dioxins and furans in Portugal? – Cristina Branquinho, Universidade de Lisboa, Portugal

10:30 Q & A

10:45 Coffee break – Poster Session 2**Session 6. Toxins, immunotoxicity and susceptibility biomarkers**

Chairperson: Elsa Casimiro, APTOX, Portugal

11:15 S6-1. Okadaic acid: just a diarrheic toxin? – Vanessa Valdiglesias, University of A Coruña, Spain

11:30 S6-2. Okadaic acid in bivalves: harmful or beneficial effects? – Juan Fernández Tajés, University of A Coruña Spain

11:45 S6-3. Immunomonitoring in humans – Dietmar Fuchs, Medical University, Biocenter, Austria

12:00 S6-4. Comparison of *in vitro* tests for antioxidant and immunomodulatory capacities of compounds – Sebastian Schroecksnadel, Medical University, Biocenter, Austria

12:15 S6-5. *Helicobacter pylori* related immune tolerance in gastric carcinoma versus colorectal carcinoma patients – Ayse Basak Engin, Gazi University, Turkey

12:30 S6-6. DNA repair enzyme polymorphism could be a biomarker of susceptibility of cancer – Bensu Karahalil, Gazi University, Turkey

12:45 Q & A

13:00 Lunch**14:00 Poster Session 2**

14:00 **Parallel session** – Executive NanoLINEN partners meeting

14:30 **KS5. Key-note Speaker. Critical factors to consider in chemical toxicity testing**
Sam Kacew, University of Ottawa, Canada

Session 7. Genetic and Environmental Toxicology

Chairperson: Bruno Nunes, CESAM, Aveiro University, Portugal

- 15:00 S7-1. *In vitro* genotoxic response to glycidamide: Role of individual genetic polymorphisms of biotransformation and DNA repair genes - Jorge Gaspar, Universidade Nova de Lisboa, Portugal
- 15:15 S7-2. Study of environmental risk factors of lung cancer at South of Portugal - Ana Oliveira, Instituto Superior Técnico, Portugal
- 15:30 S7-3. Polycyclic aromatic hydrocarbons and their quinones modulate the metabolic profile and induce DNA damage in human alveolar and bronchiolar cells - Deepak Gurbani, Indian Institute of Toxicology Research, India
- 15:45 S7-4. A comparative study of peak expiratory flow rate and serum malondialdehyde levels in women using firewood and mixed fuels in the environs of Ahmadu Bello University, Zaria, Nigeria - Maryam Akor-Dewu, Ahmadu Bello University, Nigeria
- 16:00 S7-5. Analysis and identification of trihalomethanes in Lisbon indoor swimming pools: distribution, determinants and human exposure - A. Sofia Cardoso, National Institute of Health, Portugal
- 16:15 Q & A

16:30 **Coffee break**

Session 8. Air Pollution and Health

Chairperson: Maria Vieira da Silva, Escola Superior de Tecnologia da Saúde do Porto, Portugal

- 17:00 S8-1. Preliminary results on indoor environmental quality in children day care centers located in Lisbon - Manuela Cano, National Institute of Health, Portugal
- 17:15 S8-2. Elemental characterization of indoor breathable particles at a Portuguese urban hospital - Klara Slezakova, Universidade do Porto, Portugal
- 17:30 S8-3. Ozone concentration as risk factor for childhood asthma - Sofia Sousa, Universidade do Porto, Portugal
- 17:45 S8-4. Association of distances between schools, urban green spaces, open sport spaces and physical activity in teenagers of Porto Community. Alexandre Magalhaes, Porto Medical School, Portugal
- 18:00 Q & A

20:00 **Conference Dinner**

WEDNESDAY, OCTOBER 19

Workshop on Biomarkers & Human Exposure to Nanoparticles

- 09:15 **Welcome and introduction**
Blanca Laffon, University of A Coruña, Spain
- 09:20 **Introduction to NanoLINEN Project**
Bensu Karahalil, NanoLINEN Project coordinator, University of Gazi, Ankara, Turkey
- 09:25 **Importance of cooperation between India and Europe**
Kailash C. Gupta, Director of the Indian Institute of Toxicology Research, India
- 09:30 **KS6. Key-note Speaker. Precautionary risk management tool: the nano reference value (NRV) - Feasibility and comprehensibility of a voluntary tool for SMEs to control risks of nanomaterials**
Pieter van Broekhuizen, IVAM UvA, The Netherlands

Session 9. Human exposure to nanomaterials

Chairperson: Kailash C. Gupta, Indian Institute of Toxicology Research, India

- 10:00 S9-1. An early warning system for working with nanomaterials? – Gert van der Laan, Netherlands Center for Occupational Diseases, The Netherlands
- 10:15 S9-2. Determination of airborne nanoparticles from welding operations – João Gomes, Universidade Tecnica de Lisboa, Portugal
- 10:30 S9-3. Determination of alveolar-deposited surface area of nanoparticles – Paula Albuquerque, Escola Superior de Tecnologia de Saúde de Lisboa, Portugal
- 10:45 Q & A

11:00 Coffee break – Poster Session 3

- 11:30 **KS7. Key-note Speaker. Regulating Multi-Wall Carbon Nanotube**
Lang Tran, Institute of Occupational Medicine, UK

Session 10. Genotoxicity of nanomaterials

Chairperson: Maria Dusinska, Norwegian Institute for Air Research, Norway

- 12:00 S10-1. Metal oxide nanoparticles elicit genotoxic response in mammalian cells – Alok Dhawan, Indian Institute of Toxicology Research, India
- 12:15 S10-2. Nanosized titanium dioxide particles: evaluation of genotoxic effects in human lymphocytes – Ana Tavares, National Institute of Health, Portugal
- 12:30 S10-3. Cyto- and geno- toxic potential of carbon nanomaterials in human lung cells – Alok K. Pandey, Indian Institute of Toxicology Research, India
- 12:45 Q & A

13:00 Lunch

14:00 Poster Session 3

- 14:30 **KS8. Key-note Speaker. Safety assessment of nanoparticles. Experience from FP7 NanoTEST**
Maria Dusinska, Norwegian Institute for Air Research, Norway

Session 11. Applications and ecotoxicity of nanomaterials

Chairperson: Lang Tran, Institute of Occupational Medicine, UK

- 15:00 S11-1. Polymeric nanoparticles: efficient pDNA/siRNA carriers – Kailash C. Gupta, Indian Institute of Toxicology Research, India
- 15:15 S11-2. Towards silicon as possible optical imaging agent? – Nathalie Herlin, CEA, France
- 15:30 S11-3. Self-assembled nanoparticles made of mannan – Miguel Gama, Universidade do Minho, Portugal
- 15:45 S11-4. Titanium dioxide nanoparticles impact and bioaccumulation in wheat and rapeseed – Marie Carriere, CEA, France
- 16:00 S11-5. Bacteria as a model for ecotoxicity of engineered nanomaterials – Rishi Sanker, Indian Institute of Toxicology Research, India
- 16:15 Q & A

16:30 **Presentation of Taylor & Francis awards to the 3 best students presentations**

16:45 **Closing Session**

Henrique de Barros, President of Institute of Public Health (ISPUP)

Sam Kacew, Editor-in-Chief Journal of Toxicology and Environmental Health

Joao Paulo Teixeira, ICOEH 2011 President, National Institute of Health, Porto, Portugal