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 Tajes, 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 Schroechsandel, 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 Otawa, 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**

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<tr>
<th>Time</th>
<th>Session/Activity</th>
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<tr>
<td>09:15</td>
<td>Welcome and introduction</td>
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<td>Blanca Laffon, University of A Coruña, Spain</td>
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<tr>
<td>09:20</td>
<td>Introduction to NanoLINEN Project</td>
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<td>Bensu Karahalil, NanoLINEN Project coordinator, University of Gazi, Ankara, Turkey</td>
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<td>09:25</td>
<td>Importance of cooperation between India and Europe</td>
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<td>Kailash C. Gupta, Director of the Indian Institute of Toxicology Research, India</td>
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<td>09:30</td>
<td>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</td>
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<td>Pieter van Broekhuizen, IVAM UvA, The Netherlands</td>
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**Session 9. Human exposure to nanomaterials**

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

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<tr>
<td>10:00</td>
<td>S9-1. An early warning system for working with nanomaterials? - Gert van der Laan, Netherlands Center for Occupational Diseases, The Netherlands</td>
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<td>10:15</td>
<td>S9-2. Determination of airborne nanoparticles from welding operations - João Gomes, Universidade Tecnica de Lisboa, Portugal</td>
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<td>10:30</td>
<td>S9-3. Determination of alveolar-deposited surface area of nanoparticles - Paula Albuquerque, Escola Superior de Tecnologia de Saúde de Lisboa, Portugal</td>
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<td>10:45</td>
<td>Q &amp; A</td>
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<td>11:00</td>
<td>Coffee break – Poster Session 3</td>
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<td>11:30</td>
<td>KS7. Key-note Speaker. Regulating Multi-Wall Carbon Nanotube</td>
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<td>Lang Tran, Institute of Occupational Medicine, UK</td>
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**Session 10. Genotoxicity of nanomaterials**

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

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<tr>
<td>12:00</td>
<td>S10-1. Metal oxide nanoparticles elicit genotoxic response in mammalian cells - Alok Dhawan, Indian Institute of Toxicology Research, India</td>
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<td>12:30</td>
<td>S10-3. Cyto- and geno- toxic potential of carbon nanomaterials in human lung cells - Alok K. Pandey, Indian Institute of Toxicology Research, India</td>
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<td>12:45</td>
<td>Q &amp; A</td>
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<td>Lunch</td>
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<td>14:00</td>
<td>Poster Session 3</td>
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<td>14:30</td>
<td>KS8. Key-note Speaker. Safety assessment of nanoparticles. Experience from FP7 NanoTEST</td>
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<td>Maria Dusinska, Norwegian Institute for Air Research, Norway</td>
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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