

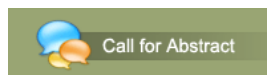
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#### Joint symposia by INA and ICOH

##### Joint Symposia (Total: 5)

Four joint symposia are presented in the morning and one in the evening. The subjects of these symposia are designed to fit to the memberships of both organizations.

##### [Joint Symposium 1 \(Monday, June 6\)](#)

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##### Joint Symposium 1 (INA & ICOH) Monday, June 6, Hall 1 and 2

##### Neurologic Impacts from Inhalation of Pollutants and the Nose-Brain Interaction

Chair: Roberto Lucchini (Italy) and Co-Chair: Bellina Veronesi (USA)

- 10:00-10:30** Is there pathology associated with the accumulation of nanoparticles in the central nervous system? *Alison Elder*, Dept of Environmental Medicine, University of Rochester, Rochester, USA
- 10:30-11:00** Olfactory transport of inhaled particles and metals. *David C. Dorman*, College of Veterinary Medicine; North Carolina State University, Raleigh, USA
- 11:00-11:30** Particulate matter and oxidative stress (OS) mediated neurotoxicity.  
*Bellina Veronesi*, U.S. EPA, Integrated Systems Toxicology Division, Research Triangle Park, USA
- 11:30-12:00** Metal exposure from industrial emission and neurotoxic effects on motor-cognitive-sensory functions in children and elderly. *Roberto Lucchini*, Dept. of Occupational and Environmental Health, University of Brescia, Brescia, Italy

Noon-13:00 Lunch, Function Room

##### [Joint Symposium 2 \(Tuesday, June 7\)](#)

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##### Joint Symposium 2 (INA & ICOH), Tuesday, June 7, Hall 1 and 2

##### Developmental Origins of Adult Diseases and Neurotoxicity: Epidemiological Experimental Studies

Chair: Donald Fox (USA) and Co-Chair: Didima de Groot (Netherlands)

- 9:00-9:30** Long-term implications of developmental methylmercury neurotoxicity. *Philippe Grandjean*, University of South Denmark, Denmark
- 9:30-10:00** Low-level gestational lead exposure as a risk factor for late-onset metabolic syndrome and neurodegeneration in humans and animals. *Donald Fox*, University of Houston, Houston, USA
- 10:00-10:30** Role of diet during perinatal development mediates the metabolic and neurotoxic effects following developmental methylmercury exposure. *Didima de Groot*, TNO Quality of Life, Zeist, Netherlands
- 10:30-11:00** Acute perinatal exposure to anesthesia and long lasting deficits in apoptosis, learning, motivation and short-term memory in Rhesus monkeys. *Merle Paule*, National Center for Toxicological Research, Jefferson, USA

Noon-13:00 Lunch, Function Room

##### Joint Symposium 5 (INA & ICOH) Tuesday, June 7, Hall 3



### Integration of Epidemiology and Animal Neurotoxicity Data for Risk Assessment

Chair: **Abby A. Li (USA)** and Co-Chairs: **Tina Levine (USA)**

- 20:00-20:25** Integrating Human Epidemiology into Risk Assessment: A "Shift" in the Weight of Evidence. **Tina Levine**, US EPA OPP Health Effects Division, Washington DC, USA
- 20:25-20:50** Developing parallel animal and human research to address the adverse neurotoxic effects of organophosphorus pesticide exposures. **W. Kent Anger**, Center for Research on Occupational and Environmental Toxicology, Oregon Health and Science University, Portland, USA
- 20:50-21:15** Opportunities to integrate epidemiology in risk assessment. **Carol Burns**, Dow Chemical Company, Midland, USA
- 21:15-21:40** Relating animal data to human outcome and exposures: Paraquat and chlorpyrifos as case studies. **Abby Li**, Exponent Health Sciences, San Francisco, USA
- 21:40-22:00** Importance of considering animal and human exposures in risk assessment: Pesticide and paraquat exposure and the risk of Parkinson's Disease as a case study. **Lewis Smith**, Medical Research Council Toxicology Unit, University of Leicester, Leicester, U.K.

### Joint Symposium 3 (Thursday, June 8)

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Joint Symposium 3 (INA & ICOH), Thursday, June 8, Hall 1 and 2

#### Pathophysiology of Manganese Associated Neurotoxicity

Chair: **Brad A. Racette (USA)** and Co-Chair: **Wei Zheng (USA)**

- 9:00-9:30** c. Elegans and the role of dopamine in manganese-induced neurodegeneration. **Michael Aschner**, Dept of Pharmacology & Pediatrics, Vanderbilt University, Nashville, TN, USA
- 9:30-10:00** Dysregulation of in vivo dopamine release in the striatum of manganese-exposed non-human primates measured by Positron Emission Tomography. **Tomas R. Guilarte**, Dept of Environmental Health Sciences, School of Public Health, Columbia University, New York, USA
- 10:00-10:30** Reduced Uptake of [18F]FDOPA PET in Asymptomatic Welders with Occupational Manganese Exposure. **Brad A. Racette**, Dept of Neurology, Washington University School of Medicine, St. Louis, USA
- 10:30-11:00** Basal ganglia intensity indices and diffusion weighted imaging in manganese exposed welders. **Susan R. Criswell**, Dept of Neurology, Washington University School of Medicine, St. Louis, USA
- 11:00-11:30** In vivo Assessment of GABA and glutamate levels by Magnetic Resonance Spectroscopy in manganese exposure. **Ulrike Dydak**, School of Health Sciences, Purdue University, West Lafayette, USA

### Joint Symposium 4 (INA & ICOH), Friday June 10, Hall 1 and 2

#### Effects of Chronic Lead Exposure on Functions of Nervous System in Chinese Children and Developmental Rats

Chair: **Jingyuan Chen (China)** and Co-Chair: **Di-Yun Ruan (China)**

- 9:00-9:25** The Effects of Chronic Lead Exposure on Functions of Neural System in Chinese Children. **Di-Yun Ruan**, School of Life Science, University of Science and Technology of China, Xian, PRC
- 9:25-9:50** Lead-induced blood-brain barrier disruption in developmental rats and the public health implications. **Jingyuan Chen**, School of Public Health, Fourth Military Medical University, Xian, PRC
- 9:50-10:15** Effect of microglia activation on lead induced learning and memory deficits and

its possible mechanism. **Wenjing Luo**, School of Public Health, Fourth Military Medical University, Xian, PRC

10:15-10:40 The whole picture of childhood lead poisoning in China. **Chonghuai Yan**, Shanghai Key Laboratory of Children's Environmental Health, Shanghai Jiaotong University School of Medicine, Shanghai, PRC

10:40-11:05 The role of metabotropic glutamate receptor 5 in developmental lead neurotoxicity. **Xu Jian**, Shanghai Key Laboratory of Children's Environmental Health, Shanghai Jiaotong University School of Medicine, Shanghai, PRC

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