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)

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)

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.

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 Positrion 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 Dydk, School of Health Sciences, Purdue University, West Lafayette, USA

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