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#### Parallel symposia by INA and ICOH

#### Parallel Symposia (Total: 13)

These parallel symposia are presented in the afternoons and one in the evening. The subjects of these symposia are designed to fit uniquely to the memberships of respective organizations.

### Monday June 6

#### Parallel Symposium 1 (INA) Monday June 6, Hall 3

#### Neurodegeneration and Neuroprotection: Neurons and Microglia

#### Chair: Wei Zheng (USA)

- 13:00-13:25 Toxic polyneuropathy in Taiwan. **Chin-Chang Huang**, Dept of Neurology, Chang Gung Memorial Hospital, Chang-Gung University, Taipei, Taiwan
- 13:25-13:50 Neuroinflammation and  $\alpha$ -Synuclein dysfunction potentiate each other driving chronic progression of Parkinson's Disease. **Hui-Ming Gao and Jau-Shyong Hong**, Laboratory of Toxicology and Pharmacology, National Institute of Environmental Health Sciences/National Institutes of Health, Research Triangle Park, NC, USA
- 13:50-14:15 Bridging the gap between in vitro and in vivo neurotoxicity: Do we need sophisticated models or functional endpoints? **Remco Westerink**, Institute for Risk Assessment Sciences Utrecht University, Netherlands
- 14:15-14:40 PTEN nuclear translocation plays a critical role in NMDAR-mediated excitotoxic neuronal death. **Yu Tian Wang**, Brain Research Centre, University of British Columbia, Vancouver Canada
- 14:40-15:00 Identification of molecular modulators of methylmercury-induced dopamine neuron degeneration in C. Elegans. **Richard Nass**, Dept of Pharmacology and Toxicology, Indiana University School of Medicine, Indianapolis, IN, USA

#### Parallel Symposium 2 (ICOH) Monday June 6, Hall 4

#### Neurobehavioral and neurodevelopmental effects of pesticide exposures

#### Chair: Leslie London (South Africa) and Co-Chair: Cheryl Beseler (USA)

- 13:00-13:20 Evaluation of experimental data for developmental neurotoxicity of Pesticides. **Angela Moretto and Claudio Colosio**, Dept of Environmental and Occupational Health, Università degli Studi di Milano, Italy
- 13:20-13:40 Neurobehavioral Deficits and Increased Blood Pressure in School-Age Children Prenatally Exposed to Pesticides. **Raul Harari**, Corporación para el Desarrollo de la Producción y el Medio Ambiente Laboral, Quito, Ecuador
- 13:40-14:00 Mancozeb and chlorpyrifos exposure is associated with behavioral disorders and cognitive effects in boys aged 6 to 9 from Talamanca, Costa Rica. **Berna van Wendel de Joode and Ana Maria Mora**, Central American Institute for Studies on Toxic Substances (IRET) Universidad Nacional, Heredia, Costa Rica
- 14:00-14:20 Attention deficit/hyperactivity disorder and urinary metabolites of organophosphate



insecticides in U.S. children. **David Bellinger**, Harvard School of Public Health, Boston, USA

14:20-14:40 Depressive symptoms in pesticide poisoned and non-poisoned individuals: Association with injury. **Cheryl Besseler**, Center for Disease Control and Prevention, Atlanta, USA

14:40-15:00 The association of suicidality, depression and organophosphate exposure amongst farm workers in South Africa. **Leslie London**, Department of Occupational Health, University of Cape Town, Cape Town, South Africa

15:00-15:15 Coffee Break

#### Parallel Symposium 3 (INA) Monday June 6, Hall 3

##### **Emerging Neurotoxic Mechanisms in Environmental Factors – Induced Neurodegeneration**

**Chair: Anumantha Kanthasamy (USA)**

15:15-15:45 Hyperacetylation of Histones and Non-Histone Proteins as an Emerging Epigenetic Mechanism in Neurotoxicity. **Anumantha Kanthasamy**, School of Veterinary Medicine Iowa State University, Ames, USA

15:45-16:15 Environmental Exposure and Epigenetics: Resetting the Aging Program at Birth. **Nassei Zawia**, Dept of Biological and Environmental Sciences, University of Rhode Island Kingston, USA

16:15-16:45 Role of Autophagy in Cell Death and Survival During Neurotoxic Insults. **Arthi Kanthasamy** School of Veterinary Medicine, Iowa State University, Ames, USA

16:45-17:15 Alpha-Synuclein Phosphorylation, Aggregation and Neurotoxicity: A Possible Role of MLK Group of Kinases. **Ajay Rana**, Dept. of Pharmacology and Experimental Therapeutics School of Medicine, Loyola University, Chicago, USA.

#### Parallel Symposium 4 (ICOH) Monday June 6, Hall 4

##### **Occupational Neurotoxicities in Asian Countries**

**Chair: Monika Meyer-Baron (Germany) and Co-Chair: Seong-Kyu Kang (S. Korea)**

15:15-15:40 Neurotoxicity of 1-bromopropane, an alternative to ozone-depleting solvents. **Gaku Ichihara**, Nagoya University Graduate School of Medicine, Nagoya, Japan

15:40-16:05 Occupational Neurotoxicity in Korea, history of occupational diseases and prevalence of neurotoxic chemicals. **Eun Kim**, KOSHA, South Korea

16:05-16:30 Solvent neurotoxicity among working children. **Iman Nuwayhid**, Occupational Environmental Health, American University of Beirut, Beirut, Lebanon

16:30-16:55 Reproductive and developmental effects of lead and other trace metals: international collaboration studies between Japan, Iran and China. **Kazuhito Yokoyama**, Dept of Epidemiology and Environmental Health Juntendo University, Tokyo, Japan

16:55-17:15 The impact of occupational exposure to pesticides: State of the art in Asian countries **Monika Meyer-Baron**, Leibniz Research Centre for Working Environment and Human Factors, Dortmund, Germany

17:30-18:30 Business meeting: INA, Hall 3; ICOH, Hall 4

18:30-20:00 Dinner, Function Room

20:00-22:00 Poster Session 1, Hall 1 and 2

**Tuesday June 7**Parallel Symposium 5 (INA) Tuesday June 7, Hall 3**Neurotoxicity Potential of Engineered Nanomaterials****Chair: Robert A. Yokel (USA) and Co-Chair: William K. Boyes (USA)**

- 13:00-13:25 Overview of nanomaterials in the nervous system, drug applications, benefits, and potential risks. **Martin Philbert**, University of Michigan, Ann Arbor, USA
- 13:25-13:50 The toxicokinetics of engineered nanomaterials. **Robert A. Yokel**, College of Pharmacy University of Kentucky, Lexington, USA
- 13:50-14:15 Translocation into the brain and potential neurological damage following nanoparticle exposure. **Chunying Chen**, National Center for Nanoscience and Technology, Beijing, China
- 14:15-14:40 Engineered Metallic Nanoparticles and Blood-Brain-Barrier. **Syed Ali**, Division of Neurotoxicology, NCTR/FDA, Jefferson, AR USA
- 14:40-15:00 The retina as a potential site of nanomaterial phototoxicity. **William K. Boyes**, U.S. EPA Research Triangle Park, USA

Parallel Symposium 6 (ICOH) Tuesday June 7, Hall 4**Using Epidemiology and Neurotoxicology to Reduce Risks to Young Workers****Chair: Diane Rohlman (USA) and Co-Chair: Iman Nuwayhid (Lebanon)**

- 13:00-13:20 Health hazards and workplace conditions of carpet weaving children in three districts of Punjab, Pakistan. **Muazzam Nasrullah**, Injury Control Research Center, West Virginia University, Morgantown, USA
- 13:20-13:40 Methodological issues in testing working children exposed to solvents. **Basema Saddik** King Saud bin Abdulaziz University for Health Sciences, Saudi Arabia
- 13:40-14:00 Bringing the Unknown to the attention of Policy Makers: Young African Informal Sellers Exposures to Highly Hazardous Street Pesticides. **Andrea Rother**, University of Cape Town Cape Town, South Africa
- 14:00-14:20 Creating Safe Work Environments for Adolescent Farmworkers in the United States. **Diane Rohlman**, Oregon Health & Science University, Portland, USA
- 14:20-14:40 Setting permissible exposure levels for working children: ethics versus science. **Iman Nuwayhid**, American University of Beirut, Beirut, Lebanon
- 14:40-15:00 Panel Discussion: Speakers, **Philippe Grandjean**, Institute for Production and Work Environment Development, Ecuador; Ahmed Ismail, Menoufia University, Egypt.

15:00-15:15 Coffee Break

Parallel Symposium 7 (INA) Tuesday June 7, Hall 3

**Developmental Thyroid Hormone Disruption: Prevalence, Environmental Contaminants and Neurodevelopmental Consequences**

**Chair: Mary E. Gilbert (USA)**

- 15:15-15:40 Role of thyroid hormone in neurodevelopment. **R. Thomas Zoeller**, Department of Zoology, University of Massachusetts, Amherst, USA
- 15:40-16:05 Neurobehavioral Effects of Hypothyroidism in Children from Antenatal and Childhood Exposure. **Joanne Rovet**, Hospital for Sick Children, University of Toronto, Toronto, Canada
- 16:05-16:30 Endemic Cretinism revisited and its elimination through Universal Salt Iodization. **Zupe Chen**, Institute of Endocrinology, Tianjin Medical University, Tianjin, China
- 16:30-16:55 PCBs and PBDEs bind to the nuclear thyroid hormone receptor and disrupt cerebellar development. **Noriyuki Koibuchi**, Department of Integrative Physiology, Gunma University Graduate School of Medicine, Gunma, Japan
- 16:55-17:15 Neurodevelopmental consequences of low-level thyroid disruption induced by environmental contaminants. **Mary E. Gilbert**, U.S. EPA, Research Triangle Park, USA

Parallel Symposium 8 (ICOH) Tuesday June 7, Hall 4

**Current Needs and Future Directions of Occupational Safety and Health in a Globalized World**

**Chair: Michael Aschner (USA) and Co-Chair: Frederick Perera (USA)**

- 15:15-15:45 In vitro and in vivo toxicology and biology of carbon nanotubes and buckypaper: a perspective in occupational medicine. **Federico Micciulla**, National Institute of Nuclear Physics, INFN, Frascati, Italy
- 15:45-16:15 The Hazards of Technology Waste for Workers and Children. **Steve Gilbert**, Director and Founder of the Institute of Neurotoxicology and Neurological Disorders (INND), Seattle USA
- 16:15-16:45 Differential tissue uptake of nanoceria, brain versus peripheral organs. **Michael T. Tseng** Dept of Anatomical Sciences & Neurobiology, University of Louisville, Louisville, USA
- 16:45-17:15 Effects of prenatal polycyclic aromatic hydrocarbon (PAH) exposure and environmental tobacco smoke on child IQ in a Chinese cohort. **Frederick Perera**, Dept of Environmental Health Sciences, Columbia University, New York, USA.

Student Symposium (INA & ICOH) Tuesday June 7, Hall 3

**Neurotoxicology: Matters, Methods, and Mechanisms**

**Chair: Jordi Llorens (INA) and Co-Chair: Roberto Lucchini (ICOH)**

- 17:30-17:40 Micropatterned neuronal cells for analysis of the stimulatory and protective effects of brain-derived neurotrophic factor. **Julia Sissnaiske** (Mentor: **Christoph van Thriel**), IfADO-Leibniz Research Center for Working Environment and Human Factors, Dortmund, Germany
- 17:40-17:50 Chronic arsenite exposure through drinking water change the synapse structure of neuron and impair spatial memory of SD rats. **Jinfei Jing** (Mentor: **Jingyuan Chen**), Dept of Military Preventive Medicine, the Fourth Military Medical University, Xi'an, China
- 17:50-18:00 In vivo manganese exposure disrupts brain copper homeostasis by reducing copper clearance at brain barriers. **Xue Fu** (Mentor: **Wei Zheng**), School of Health Sciences, Purdue University, West Lafayette, USA
- 18:00-18:10 Ceria engineered nanoparticle association with the blood-brain barrier using in situ brain perfusion. **Mo Dan** (Mentor: **Yokel, Robert**), Dept of Pharm Sciences and Toxicology, University of Kentucky, Lexington, USA
- 18:10-18:20 Neuroimaging of brain manganese and GABA as biomarkers of occupational manganese exposure. **Zaiyang Long** (Mentor: **Ulrike Dydak**), School of Health Sciences, Purdue University, West Lafayette, USA
- 18:20-18:30 Cognitive function changes and the abnormal expression of tau protein of

retiredelectrolytic aluminum smelting workers. **Xiao-ting Lu** (Mentor: **Qiao Niu**), Dept of Occ Health, Shanxi Medical University, Taiyuan, China

18:30-20:00 Dinner, Function Room

Parallel Symposium 13 (ICOH Evening Symposium) Tuesday June 7, Hall 4

**Speakers chosen from the submitted abstracts**

**Chair: EunA Kim (Korea) and Co-Chair: Donna Mergler (QUEBEC)**

- 20:00-20:20 Association of prenatal exposure to methylmercury and n-3 fatty acids with neurobehavioral test performance at ages 7 and 10 years. **Anna Choi**, Harvard School of Public Health, Boston, USA
- 20:20-20:40 Reliability of neurobehavioral performance tests by farmers on pesticide use in Korea **Sakong Joon**, Dept of Occupational and Environmental Medicine, Yeungnam University, Korea
- 20:40-21:00 Neurotoxicity of acrylonitrile: Potential protectants. **Rongzhu Lu**, Dept of Preventive Medicine, Jiangsu University School of Medical Science, China
- 21:00-21:20 Neurobehavioral effects of pesticide exposure among farmers and adult members of their family in the western cape, South Africa. **Z Holtman**, Centre for Occupational and Environmental Health Research, School of Public Health & Family Medicine, University of Cape Town, South Africa
- 21:20-21:40 Neuromotor function in ship welders after cessation of manganese exposure. **Gunilla Wastensson**, Dept of Occupational and Environmental Medicine, University of Gothenburg, Gothenburg, Sweden
- 21:40-22:00 Neurobehavioral performance among workers at water-based paints factory. **Gaafar M Abdel Rasoul**, Community, Environmental and Occupational Medicine Department, Menoufia University, Egypt

**Thursday June 9**

Parallel Symposium 9 (INA) Thursday June 9, Hall 3

**Strategies and Tools for Preventing, Neurotoxicity: To Test, To Predict, and How to Do It**

**Chair: Jordi Llorens (Spain)**

- 13:00-13:30 Regulatory Neurotoxicity Testing Today to Infinity and Beyond: Evolution or Revolution: **Abby Li**, Exponent Health Sciences, San Francisco, USA
- 13:30-14:00 Neurotoxicity testing in the 22nd century: a vision or a smell? **Jordi Llorens**, University of Barcelona, Barcelona, Spain
- 14:00-14:30 Neurotoxicity testing: the challenge of in vitro alternatives. **Sandra Ceccatelli**, Dept. of Neuroscience Karolinska Institutet, Stockholm, Sweden
- 14:30-15:00 Cell-based methods for predicting neurotoxicity of environmental pollutants. **Cristina Sunol**, Institut d'Investigacions Biomèdiques de Barcelona, CSIC-IDIBAPS, Barcelona, Spain

Parallel Symposium 10 (ICOH) Thursday June 9, Hall 4

**Chronic Solvent Induced Encephalopathy: a Step Forward**

**Chair: Gert van der Laan (Netherlands) and Co-Chair: Markku Sainio (Finland)**

- 13:00-13:20 Struggling with cases: some problems in the assessment of CSE. **Ellie Wekking and Moniek van Hout**, Coronel Institute, Amsterdam, The Netherlands
- 13:20-13:40 Multimodal event related potentials in occupational chronic solvent encephalopathy. **Petr**

**Keski-Säntti**, Occupational Health Institute, Helsinki, Finland

- 13:40-14:00 Memory and metamemory functioning in patients exposed to organic solvents. **Ritva Akila**, Occupational Health Institute, Helsinki, Finland
- 14:00-14:20 Effectiveness of a screening program on CSE: the Dutch Painters Study. **Gert van der Laan**, Coronel Institute, Amsterdam, The Netherlands
- 14:20-14:40 Search for workers with potential CSE in trade union registers. **Markku Sainio**, Occupational Health Institute, Helsinki, Finland
- 14:40-15:00 The course of chronic solvent induced encephalopathy, results of a study in the Netherlands. **Evelien van Valen**, Coronel Institute, Amsterdam, The Netherlands

15:00-15:15 Coffee Break

Parallel Symposium 11 (INA) Thursday June 9, Hall 3

**CAAT- special topic: Translating neurobehavioral test results into in vitro readouts**

**Chair: Christoph van Thriel (Germany) and Co-Chair: Marcel Leist (Germany)**

- 15:15-15:40 Use of genetic polymorphism to design better test systems. **Christian Beste**, Institute for Cognitive Neuroscience, Biopsychology, Ruhr University, Bochum, Germany
- 15:40-16:05 Linkage of solvent neurotoxicity between in vitro and in vivo systems via the NMDA-glutamate receptor. **Ambuja S. Bale**, National Health and Environmental Effects Research Laboratory, U.S. EPA, Research Triangle Park, USA
- 16:05-16:30 In vitro endpoints of relevance to organophosphorus pesticide-induced neurobehavioral deficits. **Pamela J. Lein**, Molecular Bioscience, University of California, Davis, USA
- 16:30-16:55 Functional assays in murine and human embryonic stem cell derived neural cells to detect neurodevelopmental toxicants. **Marcel Leist**, Doerenkamp-Zbinden, University of Konstanz, Konstanz, Germany
- 16:55-17:15 The network formation assay (NFA) – a general tool for the investigation of neuronal plasticity? **Christoph van Thriel**, IfAdo - Leibniz Research Centre for Working Environment and Human Factors, Dortmund, Germany

Parallel Symposium 12 (ICOH) Thursday June 9, Hall 4

**Manganese exposure and cognitive deficits: a growing concern for manganese neurotoxicity**

**Chair: Harry Roels (Belgium) and Co-Chair: Rosemarie M. Bowler (USA)**

- 15:15-15:40 Functional neuroimaging in welders exposed to manganese. **Yangho Kim**, University of Ulsan, South Korea
- 15:40-16:05 Blood manganese concentrations and postnatal neurodevelopment. **Birgit Claus Henn**, Harvard University, Boston, USA
- 16:05-16:30 Occupational exposure to manganese (Mn): Reversibility outcome of early Mn-induced neurotoxic effects after decrease of exposure. **Harry Roels**, Université catholique de Louvain, Brussels, Belgium.
- 16:30-16:55 Relationship of airborne manganese exposure with neurological and neuropsychological test results in a community living near a point source. **Rosemarie M. Bowler**, San Francisco State University, CA, USA.
- 16:55-17:15 Manganese exposure and cognitive deficits: a growing concern for manganese neurotoxicity. **Donna Mergler**, Centre for Interdisciplinary Research in Biology, Health, Environment and Society, University of Quebec at Montreal, Montreal, Canada

17:15-19:30 Break

17:30-18:30 International Soccer Game: FMMU main campus

19:00-22:00 Banquet and Art Performance, Hall 1 and 2

21:15 Awards and Recognitions (**Dr. Wei Zheng**)

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