

Scientific Program

Xi'an International Neurotoxicology Conference



JUNE 5-10, 2011 XI'AN CHINA

Designed to stimulate genuine cross-disciplinary interaction, the format of the INC will encourage active involvement from all who attend. The meeting will convene scientists from leading worldwide laboratories to address at least five key areas in environmental and occupational neurodegeneration research:

Theme-I. Genetics, Molecular and Cellular Mechanisms of Neurodegeneration

- Epigenetics of neurotoxicity and neurodegeneration
- DNA, mRNA and protein targets for increased susceptibility
- Fetal and neonatal origin of adult neurotoxicity
- Brain barrier transport of toxicants

Theme-II. Exposure, Regulation, and Risk Assessment of Neurotoxicities

- Environmental monitoring of neurotoxic chemicals
- Assessment of neuropathogenesis and neurobehavioral alterations
- Biomarkers for environmental and occupational exposure
- Occupational neurotoxicities in Asian countries

Theme-III. Advances in Diagnosis, Treatment and Prevention of Neurotoxicities

- Animal models of neurodegeneration
- New methods for diagnosis and imaging of neuronal functions
- Chelation therapy for Mn-induced Parkinsonism
- Remission and removal of environmental neurotoxicants

Theme-IV. Behavioral Neurotoxicity Testing in the 21st Century

- Neurobehavioral testing in humans - an update of a core test battery
- Integrating cognitive neuroscience into behavioral testing
- Behavioral testing in humans and animals - searching for homologous endpoints

- Neurotoxic modes of action and behavioral endpoints

Theme-V. Epidemiology meets Neurotoxicology and Exposure Sciences

- Follow-up and longitudinal studies
- Modeling dose-response relationships in epidemiology
- Epidemiology in vulnerable sub-populations (children, elderly, immigrants)
- Transfer of epidemiology into risk assessment - how to summarize neurobehavioral studies

Post-Meeting Publications

- A volume of Proceedings of this Conference will be published in a special issue of NeuroToxicology