

*Poster Session***SESSION 8: GENERAL POSTER SESSION****Session Chair:** Lisa Opanashuk, Ph.D

*The Poster Session is a highlight of this conference series. It has proven to be an effective venue for informal, in-depth discussion and collaboration building -- as well as an important networking opportunity for all participants. Papers on any aspect of neuroscience, toxicology, children's environmental health, public health & policy are welcome!*

**Student Award Competition!** *Judging and selection of Pre-Doctoral and Post-Doctoral Student Awardees will be made during the poster session. Abstracts have been divided into two groups: (1) Pre-Doctoral and (2) Post-Doctoral. There will be a 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place winner chosen from each group for a total of six awards.*

**GROUP 1: PRE-DOCTORAL COMPETITION****Group 1: Pre-Doctoral Student Award Committee**

1. Lisa Opanashuk, PhD ~ Chair
2. Rich Seegal, PhD
3. John Bowyer, PhD

**Group 1: Pre-Doctoral Students (6)**

Carlos Collares	<i>Mentor:</i>	Paulo Cesar Trevisol-Bittencourt, PhD
Derek Drechsel	<i>Mentor:</i>	Manisha Patel, PhD
Amar Jyoti	<i>Mentor:</i>	Deepak Sharma, PhD
Brandon Kersh	<i>Mentor:</i>	Barbara Clancy, PhD
Lisa Miyatake	<i>Mentor:</i>	Vanessa Fitsanakis, PhD
Victor Wang	<i>Mentor:</i>	Susan Schantz, PhD

**GROUP 2: POST-DOCTORAL COMPETITION****Group 2: Post-Doctoral Student Award Committee**

1. Anumantha Kanthasamy, PhD ~ Chair
2. Virginia (Ginger) Moser, PhD
3. Toshio Narahashi, PhD

**Group 2: Post-Doctoral Students (7)**

Rebecca Erickson, PhD	<i>Mentor:</i>	Karen Steinmetz, PhD
Wenceslao Kiat, PhD	<i>Mentor:</i>	Irma Makalinao, PhD
Rebecca Knickmeyer, PhD	<i>Mentor:</i>	John Gilmore, MD
Ruth Jameson, PhD	<i>Mentor:</i>	Ted Slotkin, PhD
Tin Tin Win Shwe, PhD	<i>Mentor:</i>	Hidekazu Fujimaki, PhD
Jianyong Wang, MD, PhD	<i>Mentor:</i>	Syed F. Ali, PhD
Xiaoju Zou, PhD	<i>Mentor:</i>	Cheng Wang, MD, PhD

**GROUP 1: PRE-DOCTORAL GROUP****P-85** *Pre-Doc Award Competition*

**CHEMICAL INTOLERANCE IN BRAZIL: BEYOND THE DICHOTOMY.** Collares CF, Trevisol-Bittencourt, PC. Sao Paulo Poison Control Center. Federal University of Santa Catarina. Brazil.

**P-97** *Pre-Doc Award Competition*

**AGE-DEPENDENT IMPAIRMENTS OF CHRONIC ESTROGEN EXPOSURE ON DSA AND DRL OPERANT TASKS.** VC Wang and SL Schantz. Neuroscience Program, University of Illinois, Urbana-Champaign, Urbana, IL

**P-116** *Pre-Doc Award Competition*

**AGING ACCELERATES THE PROGRESSION AND MANIFESTATION OF SEIZURES IN POST-TRAUMATIC MODEL OF EPILEPSY.** Amar Jyoti, Pallavi Sethi and Deepak Sharma. Neurobiology Laboratory, School of Life Sciences, Jawaharlal Nehru University, New Delhi-67, India.

**P-117** *Pre-Doc Award Competition*

**UTILIZATION OF BEHAVIORAL TESTING, ATOMIC ABSORPTION SPECTROSCOPY (AAS) AND ISOPROSTANE ANALYSIS TO DETERMINE THE EFFECTS OF BRAIN MANGANESE (MN) ACCUMULATION IN MALE C57BL/6J MICE.** LA Miyatake<sup>1</sup>, V Fitsanakis<sup>1</sup>, D Milatovic<sup>1</sup>, J Anderson<sup>2</sup>, KM Erikson<sup>2</sup>, M McDonald<sup>3</sup>, and M Aschner<sup>1, 4, 5</sup>. <sup>1</sup>Department of Pediatrics, Vanderbilt University School of Medicine, Nashville, TN. <sup>2</sup>Department of Nutrition, University of North Carolina – Greensboro, Greensboro North Carolina. <sup>3</sup>Department of Pharmacology, Vanderbilt University, Nashville, TN. <sup>4</sup>Department of Pharmacology and the <sup>5</sup>Kennedy Center, Vanderbilt University Medical Center, Nashville, TN.

**P-118** *Pre-Doc Award Competition*

**EQUATING NEURODEVELOPMENT ACROSS MAMMALIAN SPECIES USING NEUROINFORMATICS.** Brandon M. Kersh, James R. Hyde, Barbara Clancy. University of Central Arkansas, Conway AR /INBRE, University of Arkansas for Medical Sciences, Little Rock, AR

**P-122** *Pre-Doc Award Competition*

**1-METHYL-4-PHENYLPYRIDINIUM-INDUCED ALTERATIONS OF GLUTATHIONE AND REDOX ENVIRONMENT IN IMMORTALIZED RAT DOPAMINERGIC NEURONS.** DA Drechsel, LP Liang, and M Patel. Department of Pharmaceutical Sciences, University of Colorado at Denver and Health Sciences Center, Denver, CO, USA.

**GROUP 2: POST-DOCTORAL GROUP****P-88** *Post-Doc Award Competition*

**A PROXY MEASURE OF PRENATAL TESTOSTERONE EXPOSURE IS RELATED TO GRAY MATTER VOLUME IN HUMAN NEONATES** Rebecca C. Knickmeyer<sup>1</sup>, Y.

Sampath K. Vetsa<sup>2</sup>, Bradley Moore<sup>2</sup>, Guido Gerig<sup>1,2</sup> and John Gilmore<sup>1</sup> <sup>1</sup>Dept. of Psychiatry, University of North Carolina, Chapel Hill, NC 27599, <sup>2</sup>Dept. of Computer Science, University of North Carolina, Chapel Hill, NC 27599.

**P-91** *Post-Doc Award Competition*

**ACUTE DELIBERATE ORGANOPHOSPHATE (COUMAPHOS) POISONING WITH INTERMEDIATE SYNDROME IN A ONE YEAR OLD CHILD.** Kiat, WK. Toxicology Unit, St. Luke's Medical Center, Quezon City, Philippines

**P-94** *Post-Doc Award Competition*

**VALIDATION OF THE DELAYED-NON-MATCH-TO-POSITION 8-ARM RADIAL MAZE (8ARM) TASK WITH SCOPOLAMINE, NICOTINE, AND ETHANOL.** RI Erickson, EB Defensor, DR Middaugh, LL Rausch, JC Mirsalis, and KL Steinmetz. SRI International, Menlo Park, CA, USA.

**P-110** *Post-Doc Award Competition*

**ARE NONENZYMATIC FUNCTIONS OF ACETYLCHOLINESTERASE (ACHE) INVOLVED IN THE DEVELOPMENTAL NEUROTOXICITY OF ORGANOPHOSPHATES? EFFECTS OF CHLORPYRIFOS AND DIAZINON ON EXPRESSION OF ACHE SPLICE VARIANTS IN VITRO AND IN VIVO.** RR Jameson, FJ Seidler and TA Slotkin. Department of Pharmacology & Cancer Biology, Duke University Medical Center, Durham, NC, USA.

**P-112** *Post-Doc Award Competition*

**T CELL-MEDIATED NEUROPROTECTIVE RESPONSE IN TOXIC CHEMICAL INDUCED MEMORY-RELATED GENE EXPRESSIONS IN A MOUSE HIPPOCAMPUS.** Tin-Tin-Win-Shwe<sup>1</sup>, S. Ahmed<sup>1</sup>, S. Tsukahara<sup>2</sup>, S. Yamamoto<sup>2</sup>, M. Kakeyama<sup>1</sup>, D. Nakajima<sup>2</sup>, S. Goto<sup>2</sup>, T. Kobayashi<sup>1</sup>, H. Fujimaki<sup>2</sup> <sup>1</sup>Environmental Health Sciences Division, National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba, Ibaraki 305-8506, Japan <sup>2</sup>Center for Environmental Risk Research, National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba, Ibaraki 305-8506, Japan

**P-113** *Post-Doc Award Competition*

**GASEOUS ANESTHETIC DRUG COMBINATIONS INDUCE DEVELOPMENTAL NEURO-APOPTOSIS IN THE RAT FRONTAL CORTEX.** X Zou, N Sadovova, AC Scallet, B Divine, C Hotchkiss, TA Patterson, MG Paule, W Slikker and C Wang. Division of Neurotoxicology, NCTR/FDA, Jefferson, Arkansas, 72079

**P-115** *Post-Doc Award Competition*

**GENE EXPRESSION PROFILING OF MPP<sup>+</sup>-TREATED MN9D CELLS: A MECHANISM OF TOXICITY STUDY.** Jianyong Wang, Zengjun Xu, Hong Fang, Helen M. Duhart, Tucker A. Patterson, and Syed F. Ali. Neurochemistry Laboratory, Division of Neurotoxicology, National Center for Toxicological Research, Jefferson, Arkansas, USA