

Poster Session

SESSION VII: GENERAL POSTER SESSION

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AUTISM AND ENVIRONMENTAL GENOMICS. MR Herbert*, JP Russo, S Yang, J Roohi, M Blaxill, SG Kahler, L McCoy, DA Ziegler, E Hatchwell. *CMA & Pediatric Neurology, Massachusetts General Hospital, Harvard Medical School, Charlestown MA 02129, USA.

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A NEW DEVELOPMENTAL NEUROTOXICITY STUDY FOCUSING ON THE FETAL BRAIN: EVALUATION OF A RAT AUTISM MODEL INDUCED BY VALPROATE AND THALIDOMIDE. T.Ogawa¹, M.Kuwagata², S.Shioda¹. ¹Department of Anatomy, Showa University School of Medicine, Tokyo, Japan and ²Hatano Research Institute, FDSC, Kanagawa, Japan

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CULTURED LYMPHOCYTES FROM AUTISTIC PATIENTS AND NON-AUTISTIC SIBLINGS UPREGULATE HEAT SHOCK PROTEIN RNA IN RESPONSE TO THIMEROSAL CHALLENGE. SJ Walker. Department of Physiology and Pharmacology, Wake Forest University School of Medicine, Winston-Salem, North Carolina, 27101

P-76 *Post-Doctoral Student (Group 1)*

A DIRECT COMPARISON OF ALGORITHM-BASED AND LITERATURE-BASED SYSTEMS BIOLOGY APPROACHES: APPLICATIONS IN NEURODEVELOPMENT. Julia M. Gohlke, Fredrick M. Parham, Christopher J. Portier. Environmental Systems Biology Group, Laboratory of Molecular Toxicology, National Institute of Environmental Health Sciences, RTP, NC 27709

P-77 *Post-Doctoral Student (Group 1)*

EVALUATING THE NMDA-GLUTAMATE RECEPTOR AS A SITE OF ACTION FOR TOLUENE USING PATTERN ELICITED VISUAL EVOKED POTENTIALS. AS Bale¹, QT Krantz², PJ Bushnell¹, TJ Shafer¹ and WK Boyes¹. ¹Neurotoxicology Division and ²Experimental Toxicology Division, US Environmental Protection Agency, Research Triangle Park, NC

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RX FOR PREVENTION: PEDIATRIC ENVIRONMENTAL HEALTH TOOLKIT PILOT STUDY FINDINGS Kathleen Schuler, MHP, Environmental Scientist, Institute for Agriculture and Trade Policy, 2105 First Av. S, Minneapolis, MN 55404

P-79 *Post-Doctoral Student (Group 1)*

APPLICATION OF MAGNETIC RESONANCE IMAGING IN DEVELOPMENTAL NEUROTOXICITY TESTING: A PILOT STUDY K. Johnson¹, L. Ryan², J. Davis³, A. Elmore³, B. Guenther², J. Marcus¹ and R. Maronpot¹
¹Laboratory of Experimental Pathology, National Institute of Environmental Health Sciences/NIH/DHHS, RTP, NC 27709, ²MRPath, Inc., Durham, NC, 27707, ³Integrated Laboratory Systems, Inc., RTP, NC 27709

P-80 *Post-Doctoral Student (Group 1)*

THE INFLUENCE OF ENVIRONMENTAL FACTORS ON CRITICAL PERIOD PLASTICITY IN RATS AUDITORY CORTEX - IMPLICATIONS FOR DEVELOPMENTAL DISORDERS? Tal Kenet¹, Isaac Pessah² and Michael Merzenich¹
¹University of California, San Francisco; ²University of California, Davis

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A STUDY OF LEAD LEVELS IN BREAST FED INFANTS AND THEIR MOTHERS M. M. Ahmed, D. A. Salem*, Zeinab, M. Mohie-El-Din and Asmaa, S. G. Mohamed * Department of Toxicology and Forensic Medicine, Faculty of Veterinary Medicine, Assiut University, Assiut 71516, Egypt (diefysalem57@yahoo.com). Department of Pediatric, Assiut University Hospital, Faculty of Medicine, Assiut Univ., Assiut 71516, Egypt.

P-82 *Post-Doctoral Student (Group 1)*

EFFECTS OF METHYLMERCURY ON MITOCHONDRIAL FUNCTION, REACTIVE OXYGEN SPECIES FORMATION AND CYTOSOLIC CALCIUM LEVELS IN STRIATAL SYNAPTOSOMES FROM RAT.

A. Dreiem¹, R. F. Seegal^{1,2}. ¹New York State Department of Health, Wadsworth Center, Albany, NY. ²School of Public Health, University at Albany, Albany, NY.

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BENCHMARK CONCENTRATIONS FOR METHYL MERCURY OBTAINED FROM THE 9-YEAR FOLLOW-UP OF THE SEYCHELLES CHILD DEVELOPMENT STUDY. E van Wijngaarden, C Beck, PW Davidson, and GJ Myers. Departments of Community and Preventive Medicine (EVW), Biostatistics and Computational Biology (CB), and Pediatrics (PWD, GJM) and Neurology (GJM), University of Rochester School of Medicine and Dentistry, Rochester, New York, United States

P-84 *Post-Doctoral Student (Group 1)*

INCREASED SENSITIVITY TO PENTOBARBITAL ON THE BEHAVIOR OF RATS EXPOSED TO METHYLMERCURY AND SELENIUM. W.D. Donlin, Ph.D. * and M.C. Newland, Ph.D. † Department of Psychiatry & Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD. †Department of Psychology, Auburn University, Auburn, AL.

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A NEW DEVELOPMENTAL NEUROTOXICITY STUDY FOCUSING ON THE FETAL BRAIN: EVALUATION OF A RAT AUTISM MODEL INDUCED BY VALPROATE AND THALIDOMIDE. T.Ogawa¹, M.Kuwagata², S.Shioda¹. ¹Department of Anatomy, Showa University School of Medicine, Tokyo, Japan and ²Hatano Research Institute, FDSC, Kanagawa, Japan

P-86 *Post-Doctoral Student (Group 1)*

CHLORPYRIFOS AFFECTS NEURONAL CELL REPLICATION AND PHENOTYPIC OUTCOMES. RR Jameson, FJ Seidler, D Qiao and TA Slotkin, Dept. of Pharmacology & Cancer Biology, Integrated Toxicology Program, Duke Univ. Med. Ctr., Durham NC.

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USE OF ANIMAL TOXICITY DATA TO PREDICT ACUTE EFFECTS OF ORGANIC SOLVENTS ON PUBLIC HEALTH. PJ Bushnell, VA Benignus, WK Boyes, TJ Shafer and AS Bale. Neurotoxicology Division, NHEERL, U.S. Environmental Protection Agency, Research Triangle Park, NC, USA.

P-88 *Post-Doctoral Student (Group 1)*

CUMULATIVE RISK OF PYRETHROIDS: RELATIVE POTENCIES FOR ACUTE EFFECTS ON MOTOR FUNCTION IN RATS. M. J. Wolansky¹, C. Gennings² and K. M. Crofton³. ¹National Research Council, Research Triangle Park (RTP), NC; ²Department of Biostatistics, Virginia Commonwealth University, Richmond, VA; ³Neurotoxicology Division, National Health and Environmental Effects Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, RTP, NC, USA.

P-89 *Post-Doctoral Student (Group 1)*
HYDROGEN SULFIDE EXPOSURE REDUCES THE INTRACELLULAR BUFFERING CAPACITY OF RAT NASAL OLFACTORY EPITHELIAL CELLS. E. S. Roberts, V. A. Wong, B. E. McManus, and D. C. Dorman. *CIIT Centers for Health Research, Research Triangle Park, NC, 27709.*

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DEVELOPMENTAL NEUROTOXICITY OF METHYLMERCURY AND METHYLAZOXYMETHANOL: BODY WEIGHT, MOTOR ACTIVITY AND BRAIN DAMAGE COMBINED *Didima de Groot¹, Marja Moerkens¹, Renate Janskin¹, Marlies Otto¹, Linda van de Horst¹, Marga Bos-Kuijpers¹, Ine Waalkens¹, James O'Callaghan², Hans-Jorgen Gundersen³, Wolfgang Kaufmann⁴, Jan Lammers¹, Bente Pakkenberg⁵. ¹TNO Quality of Life, Zeist, NL; ²NIOSH, Morgantown, USA; ³University of Aarhus, DK; ⁴BASF, Ludwigshafen, FRG; ⁵Research Laboratory for Stereology & Neuroscience, Copenhagen, DK

P-91 *Pre-Doctoral Student (Group 2)*
DEVELOPMENTAL EXPOSURE TO METHYLMERCURY AND N-3 FATTY ACIDS: PERFORMANCE ON SPATIAL AND VISUAL DISCRIMINATION REVERSAL TASKS IN ADULT AND AGED RATS. JJ Day¹, EM Paletz², MC Craig-Schmidt³, & MC Newland⁴. ¹Department of Psychology, University of North Carolina at Chapel Hill, Chapel Hill, NC. ²Department of Psychiatry, University of Wisconsin at Madison, Madison, WI. ³Nutrition and Food Science, Auburn University, Auburn, AL. ⁴Department of Psychology, Auburn University, Auburn, AL

P-92 *Pre-Doctoral Student (Group 2)*
INVOLVEMENT OF THE GABA_A RECEPTOR IN METHYLMERCURY-INDUCED DISRUPTION OF Ca²⁺ HOMEOSTASIS IN CEREBELLAR SLICES Jayme D. Mancini and William D. Atchison. *Dept. Pharm/Tox and Neurosci. Prgrm. Mich. State Univ., Coll. Osteopathic Med., E. Lansing, MI 48824*

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HPLC-BASED METHOD FOR MEASUREMENT OF COPPER IN BIOLOGICAL SAMPLES. V. Amarnath, Kalyani Amarnath, Holly Valentine, and William Valentine. *Department of Pathology, Vanderbilt University Medical Center, Nashville, TN 37232 USA.*

P-94 *Pre-Doctoral Student (Group 2)*
SPATIAL DISCRIMINATION IN RATS CONTINUALLY EXPOSED TO SELENIUM AND GESTATIONALLY EXPOSED TO METHYLMERCURY Erin F. Pesek, Miranda Reed, and M. C. Newland, Ph.D. *Department of Psychology, Auburn University, Alabama, U.S.A.*

P-95 *Pre-Doctoral Student (Group 2)*
EFFECTS OF METHYLMERCURY ON THE CRITICAL FUSION FREQUENCY OF RATS John C. Heath MS, M.C., Newland PhD. *Department of Psychology, Auburn University, Alabama, USA.*

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TOXIC EFFECTS OF METHYLMERCURY IN YOUNG DROSOPHILA ARE AMELIORATED BY THE EXPRESSION OF ALZHEIMER'S BETA-AMYLOID PEPTIDES. T Gangi¹, A Halladay², K Reuhl², M Konsolaki¹. *Rutgers, The State University of New Jersey, Departments of ¹Genetics and ²Pharmacology & Toxicology, Piscataway, NJ, USA*

P-97 *Pre-Doctoral Student (Group 2)*
MOTOR FUNCTION AND TISSUE LEVELS IN DAMS CHRONICALLY EXPOSED TO METHYLMERCURY AND SELENIUM. Miranda N. Reed and M.C. Newland. *Auburn University, Behavioral Toxicology Lab., Auburn, AL, USA.*

P-98 *Pre-Doctoral Student (Group 2)*

BEHAVIORAL EFFECTS OF COCAINE & DESIPRAMINE FOR RATS GESTATIONALLY EXPOSED TO METHYLMERCURY AND SELENIUM. Miranda N. Reed & M.C. Newland. *Auburn University, Behavioral Toxicology Lab., Auburn, AL, USA.*

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USE OF MAGNETIC RESONANCE IMAGING (MRI) TO DETERMINE BRAIN MANGANESE DEPOSITION IN MALE SPRAGUE-DAWLEY RATS. VA Fitsanakis¹, N Zhang², KM Erikson³, JC Gore² and M Aschner^{1,4}. ¹Department of Pediatrics, Vanderbilt University School of Medicine, Nashville, TN. ²Vanderbilt University Institute of Imaging Science, Vanderbilt University Medical Center, Nashville, TN. ³Department of Nutrition, University of North Carolina—Greensboro, Greensboro North Carolina. ⁴Department of Pharmacology and the Kennedy Center, Vanderbilt University Medical Center, Nashville, TN.

P-100 *Pre-Doctoral Student (Group 2)*
ANTIOXIDANT PROTECTION AGAINST MeHg-INDUCED NEUROTOXICITY IN VIVO AND IN VITRO. M. Polunas^{1,2}, A.K. Halladay^{1,2}, G.C. Wagner^{1,3} and K.R. Reuhl^{1,2}, *Joint Graduate Program in Toxicology¹, Department of Pharmacology and Toxicology², and Department of Psychology³, Rutgers University, Piscataway, NJ*

submitted (emailed) by Alycia Halladay. M. Polunas on form for pre-doctoral award.

P-101 *Pre-Doctoral Student (Group 2)*
EFFECT OF PRION PROTEINS ON MANGANESE-INDUCED OXIDATIVE INSULT AND MITOCHONDRIAL DYSFUNCTION. Christopher Choi, Vellareddy Anantharam, Arthi Kanthasamy and Anumantha Kanthasamy, *Department of Biomedical Sciences, College of Veterinary Medicine, Iowa State University, Ames, IA-50011, USA.*

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METHYL MERCURY (MeHg) EXPOSURE ALTERS NEUROGENESIS SELECTIVELY IN THE NEONATAL RAT HIPPOCAMPUS. A Falluel-Morel¹, X Zhou¹, A Litterman¹, KR Reuhl² and E DiCicco-Bloom¹. ¹Department of Neuroscience and Cell Biology, Robert Wood Johnson Medical School—UMDNJ, Piscataway, NJ. ²Department of Toxicology and Pharmacology, Rutgers, Piscataway, NJ.

P-103 *Pre-Doctoral Student (Group 2)*
TIME COURSE OF METHYLMERCURY BLOCK OF GABA_A RECEPTOR CURRENTS IS NOT CHANGED BY FLUMAZENIL IN RAT CORTICAL CELLS IN CULTURE. C. Herden, Y. Yuan, and W.D. Atchison. *Neuroscience Program and Department of Pharmacology & Toxicology, Michigan State University, East Lansing, MI, USA*

P-104 *Pre-Doctoral Student (Group 2)*
CELLULAR REPOPULATION OF THE MURINE HIPPOCAMPUS FOLLOWING TRIMETHYLTIN INJURY. BC Weig, HE Lowndes, KR Reuhl. *Department of Pharmacology and Toxicology, and Joint Graduate Program in Toxicology, Rutgers University and University of Medicine and Dentistry of New Jersey*

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MICROGLIA ACTIVATION AND FATE FOLLOWING TMT-INDUCED NEURODEGENERATION IN THE MOUSE HIPPOCAMPUS. C.A. McPherson, R.N. Wine, C.L. d'Hellencourt and G.J. Harry. *NIEHS, NIH, DHHS, Laboratory of Neurobiology, Research Triangle Park, NC*

P-106 *Pre-Doctoral Student (Group 2)*
METHYLMERCURIC CHLORIDE AND PSYCHOGENIC STRESSORS DIFFERENTIALLY ACTIVATE c-FOS EXPRESSION IN THE MURINE BRAIN. Joel F. Cooper and

Alexander W. Kusnecov. *Joint Graduate Program in Toxicology, Rutgers University/UMDNJ, Piscataway, New Jersey, USA*

P-107 Pre-Doctoral Student (Group 2)

BACKGROUND LEVELS OF HEAVY METALS ON FETAL GROWTH AND NEONATAL NEURODEVELOPMENT. HC Wu,¹ YH Hwang,¹ SF Jeng,² WS Hsieh,³ HF Liao,² YN Su,³ FC Su,¹ and PC Chen.¹ ¹National Taiwan University College of Public Health; ²National Taiwan University College of Medicine; ³National Taiwan University Hospital, Taipei, Taiwan

P-108 Pre-Doctoral Student (Group 3)

EXPLORING THE RISK OF CHLORPYRIFOS ON FETAL GROWTH AND NEONATAL NEURODEVELOPMENT. CJ Hsieh,¹ HP Li,² WS Hsieh,³ SF Jeng,⁴ HF Liao,⁴ YN Su,³ SN Yu,¹ and PC Chen.¹ ¹National Taiwan University College of Public Health; ²Taiwan Agricultural Chemicals and Toxic Substances Research Institute; ³National Taiwan University Hospital; ⁴National Taiwan University College of Medicine, Taiwan

P-109 Pre-Doctoral Student (Group 3)

RYANODINE RECEPTOR TYPE 1 (RYR1) POSSESSING MALIGNANT HYPERTHERMIA MUTATION R615C EXHIBITS HEIGHTENED SENSITIVITY TO DYSREGULATION BY NONCOPLANAR PCB 95.

Tram-Anh N. Ta and Isaac N. Pessah. *VM: Molecular Biosciences and UC Davis Center for Children's Environmental Health and Disease Prevention, University of California, Davis, CA*

P-110 Pre-Doctoral Student (Group 3)

AROCLOL 1254 MAY INDUCE LONG-TERM ALTERATIONS IN CENTRAL VASOPRESSIN RELEASE BY INHIBITING NITRIC OXIDE SYNTHESIS WITHIN THE SUPRAOPTIC NUCLEUS. C.G. Coburn¹, B. Hou, L. Lin, C. Cheetham, E.R. Gillard, O. Loson, D. Prodon and M.C. Curras-Collazo² ¹Environmental Toxicology Program and ²Department of Cell Biology & Neuroscience, University of California at Riverside, Riverside, California 92521

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SEXUALLY DIMORPHIC GENE EXPRESSION PATTERNS IN THE DEVELOPING MOUSE EMBRYONIC BRAINS EXPOSED TO 2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN. Y Kagami¹, T Mitsui², and S Maeda². ¹Ecogenomics, Inc., Fukuoka, Japan. ²Department of Biochemistry, University of Yamanashi, Yamanashi, Japan.

P-112 Pre-Doctoral Student (Group 3)

MANCOZEB AND MANEB NEUROTOXICITY IN MESENCEPHALIC CELLS: POSSIBLE RISK FACTOR FOR PARKINSONISM. LM Domico¹, GD Zeevalk², B Buckley³, B Winnik³, MJ Thiruchelvam¹, KR Cooper¹. ¹Joint Graduate Program in Toxicology, Rutgers, The State University of New Jersey, Piscataway, NJ. ²Neurology Department, University of Medicine and Dentistry of New Jersey, Piscataway, NJ. ³Environmental and Occupational Health Sciences Institute, Rutgers/UMDNJ, Piscataway, NJ.

P-113 Pre-Doctoral Student (Group 3)

CONCENTRATION DEPENDENT ACCUMULATION OF [³H]-DELTAMETHRIN IN XENOPUS LAEVIS OOCYTES. J. A. Watkins¹, C. A. Meacham², A. S. Bale², K. M. Crofton², T. J. Shafer². ¹North Carolina State University, Raleigh, NC, USA ²Neurotoxicology Div., NHEERL, ORD, U.S. EPA, Res. Tri. Park, NC, USA

P-114 Pre-Doctoral Student (Group 3)

DELTAMETHRIN INDUCED ALTERATIONS IN THE TRANSCRIPTION OF CALCIUM RESPONSIVE AND IMMEDIATE EARLY GENES IN VIVO. J A Harrill¹, K M Crofton². ¹Curriculum in Toxicology, University of North Carolina,

Chapel Hill, NC; ²Neurotoxicology Division, NHEERL, ORD, USEPA, RTP, NC.

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ADULT AND JUVENILE RAT SODIUM CHANNEL (NAV1.2 AND NAV1.3) SENSITIVITY TO THE PYRETHROID INSECTICIDE DELTAMETHRIN C.A.Meacham¹, P..D.Brodfoehr²; A.S.Bale¹; J.Watkins³; K.M.Crofton¹; and T.J.Shafer¹ ¹Neurotoxicology Div., NHEERL, ORD, U.S. EPA, Res. Tri. Park, NC, USA ²Biol. Dept., Bryn Mawr Col., Bryn Mawr, PA, USA ³North Carolina State University, Raleigh, NC, USA

P-116 Pre-Doctoral Student (Group 3)

POLYCHLORINATED BIPHENYLS EXERT SELECTIVE EFFECTS ON WHITE MATTER COMPOSITION IN A MANNER INCONSISTENT WITH HYPOTHYROIDISM David S. Sharlin and R. Thomas Zoeller. *Morrill Science Center/Biology Department, University of Massachusetts at Amherst, USA*

P-117 Pre-Doctoral Student (Group 3)

AGE-RELATED DIFFERENCES OF ACETYLCHOLINESTERASE INHIBITION FROM TWELVE ORGANOPHOSPHATE INSECTICIDES Edward C. Meek, Howard Chambers, Alper Coban, Benjamin E. Hurley, Jay Pittman, Kristin R. White, and Janice E. Chambers. *Center for Environmental Health Sciences, College of Veterinary Medicine, Mississippi State, MS 39762*

P-118 Pre-Doctoral Student (Group 3)

MATERNAL DDT CONCENTRATIONS AND SEX RATIO OF OFFSPRING. TA Jusko¹, PA Shaw², TA Greenfield³, MJ Charles⁴, and I Hertz-Picciotto³. *Department of Epidemiology¹ and Biostatistics², University of Washington, Seattle, WA, USA; Division of Epidemiology³ and Department of Environmental Toxicology⁴, University of California-Davis, Davis, CA, USA*

P-119 Pre-Doctoral Student (Group 3)

EXPOSURE TO MIXTURES OF ENDOSULFAN AND ZINEB INDUCES APOPTOTIC CELL DEATH IN NEURONAL CELLS (SH-SY5Y), IN VITRO. Z Jia¹ and HP Misra^{1, 2}. ¹Virginia-Maryland Regional College of Veterinary Medicine, Virginia Tech, Blacksburg, VA; ²Edward Via Virginia College of Osteopathic Medicine, Blacksburg, VA USA.

P-120 Pre-Doctoral Student (Group 4)

ALTERED GENE EXPRESSION AND GROWTH RESTRICTION IN FETAL BRAIN FOLLOWING EXPOSURE TO THE WATER DISINFECTANT BYPRODUCT (DBP); CHLOROACETONITRILE (CAN) A E Ahmed, S Jacob, T Wood, and H Fouad. *Dept of Pathology and Molecular Genomics Facility, University of Texas Medical Branch, Galveston, TX 77550, USA*

P-121 Pre-Doctoral Student (Group 4)

DEVELOPMENTAL EFFECTS OF ETHANOL IN THE JAPANESE MEDAKA FISH (*Oryzias latipes*): WINDOWS OF VULNERABILITY, S. Oxendine^{1,2}, D.E. Hinton³, J. Cowden¹, and S. Padilla¹. ¹Neurotox. Div., U.S. EPA, RTP, ²Curr. in Toxicol., UNC-CH, Chapel Hill, and ³Nicholas School of the Environ., Duke Univ., Durham, NC.

P-122 Pre-Doctoral Student (Group 4)

INDUCTION OF C-FOS AND BEHAVIORAL ASSESSMENT IN C57BL/6J AFTER TREATMENT WITH CUPRIZONE Urbach D., Kusnecov A.W. *Joint Graduate Program in Toxicology, Rutgers University and University of Medicine and Dentistry of New Jersey, Piscataway, New Jersey*

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BEHAVIORAL EFFECTS OF DIRECT EXPOSURE OF CNS TO HYPER-IL-6 IN THE PERINATAL CD-1 MOUSE. S.H. Brunssen^{1*}, S.S. Moy¹, G.J. Harry². ¹University of North Carolina, Chapel Hill, NC; ²NIEHS, NIH, DHHS, RTP, NC.

P-124 Pre-Doctoral Student (Group4)

POTENTIATING EFFECT OF THE K⁺_{ATP} CHANNEL BLOCKER GLIBENCLAMIDE ON THE NEUROTOXICITY OF MITOCHONDRIAL COMPLEX I INHIBITORS. J Kou and JR Bloomquist. *Neurotoxicology Laboratory, Department of Entomology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, U.S.A.*

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THE NEW APPROACH FOR THE EFFECTS OF THE TOXIC CHEMICAL EXPOSURE ON THE PROLIFERATION OF EMBRYONIC STEM CELLS IN THE DEVELOPMENTAL NEUROTOXICITY STUDY. M Kuwagata, T Ogawa and S. Shioda. *Department of Anatomy I, Showa University School of Medicine, Tokyo, Japan*

P-126 Pre-Doctoral Student (Group4)

HUMAN ALPHA-7 NICOTINIC ACETYLCHOLINE RECEPTORS EXPRESSED IN XENOPUS OOCYTES ARE INHIBITED BY TRICHLOROETHYLENE (TCE). R Giddings¹, CA Meacham², AS Bale², PJ Bushnell², and TJ Shafer². *1. Curriculum in Toxicology, University of North Carolina, Chapel Hill, NC 27599 2. Neurotoxicology Division, NHEERL, ORD, US EPA, RTP, NC 27711*

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CYTOKINE RECEPTOR EXPRESSION AND GLIAL CONTACT FOLLOWING ACUTE HIPPOCAMPAL INJURY. Robert N. Wine¹, Christian Lefebvre d'Helencourt², Christopher A. McPherson¹, and G. Jean Harry¹. ¹Laboratory of Neurobiology, NIEHS, NIH, DHHS, Research Triangle Park, NC, USA. ²Universite de La Reunion, Reunion-France-DOM.

P-128 Pre-Doctoral Student (Group4)

ANIMAL MODEL OF AUTISM USING *En2*^{-/-} MICE. MA Cheh¹, JH Millonig², E Jacobsen³, X Ming⁴, and GC Wagner^{1,3*}. *Departments of Neuroscience¹ and Psychology³, Rutgers University, New Brunswick, NJ; Center for Advanced Biotechnology and Medicine², UMDNJ-Robert Wood Johnson Medical School, Piscataway, NJ; Department of Neurosciences⁴, UMDNJ-New Jersey Medical School, Newark, NJ.*

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THE EFFECTS OF LIPOPOLYSACCHARIDE INJECTION ON BAX AND BCL2, REGULATORS OF APOPTOSIS, IN NEURAL TISSUE OF NEWBORN MICE. David F Sorrentino, MD¹ and Alexander Kusnecov, PhD². *UMDNJ, New Brunswick, NJ, United States, 08901 and ² Psychology, Rutgers University, Piscataway, NJ, United States, 08855*

P-130 Pre-Doctoral Student (Group4)

PROTEASOMAL INHIBITOR MG-132 INDUCES DOPAMINERGIC DEGENERATION IN CELL CULTURE AND ANIMAL MODELS. Faneng Sun, Calivarathan Latchoumycandane, Danhui Zhang, Vellareddy Anantharam, Arthi Kanthasamy and Anumantha Kanthasamy. *Parkinson's Disorder Research Laboratory, Dept. of Biomedical Sciences, Iowa State University, USA*

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HYPERTENSIVE AND TACHYCARDIC RESPONSES TO ORAL TOLUENE IN THE RAT. Gordon, C.J., Oshiro, W., Samsam, T., Becker, P., Mack, C., and P. Bushnell. *Neurotoxicology Division, National Health Effects and Environmental Research Laboratory, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, U.S.A.*

P-132 Pre-Doctoral Student (Group4)

ASSOCIATION OF CELL CYCLE REGULATORY PROTEINS WITH CELL CYCLE EXIT AND DIFFERENTIATION IN MOUSE EMBRYONIC MIDBRAIN NEURONAL PRECURSOR CELLS EJ Gribble, S Hong, XZ Yu, and EM Faustman. *Department of Environmental and Occupational Health Sciences, University of Washington, Seattle, WA, USA.*

P-133 Pre-Doctoral Student (Group4)

RISKS ASSOCIATED WITH ATTENTION DEFICIT DISORDERS. LP Heilbrun and CS Miller. *Department of Family and Community Medicine, University of Texas School of Medicine, San Antonio, Texas, USA*

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THE GAP BETWEEN NEUROTOXICOLOGY AND PUBLIC POLICY: CASE STUDIES OF ENVIRONMENTAL TOXINS AND NEURODEVELOPMENTAL DISORDERS Roger D. Masters. *Dartmouth College*