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**MATERNAL AND FETAL MERCURY AND N-3 POLYUNSATURATED FATTY ACIDS AS A RISK AND BENEFIT OF FISH CONSUMPTION.** Mineshi Sakamoto and Machi Kubota; *Department of Epidemiology, National Institute for Minamata disease, 4058-18 Hama, Minamata, Kumamoto Japan and Department of Obstetrics and Gynecology, Mumakata Suikokai, General Hospital, 341-Fukuma, Fukuoka 811-3298, Japan*

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**EARLY AND LATE CELLULAR STRESSES FOLLOWING THE EXPOSURE TO METHYLMERCURY.** Fusako Usuki<sup>1</sup>, Noboru Sasagawa<sup>2</sup>, Yuya Takeshita<sup>2</sup>, Akira Yasutake<sup>3</sup>, Takashi Momoi<sup>4</sup>; <sup>1</sup>*Department of Clinical Med. and* <sup>2</sup>*Department of Basic Science, Natl. Inst. for Minamata Disease, Kumamoto, JAPAN;* <sup>3</sup>*Department of Life Sci., Graduate Sch. of Arts and Science, Univ. of Tokyo, JAPAN;* <sup>4</sup>*Natl. Inst. of Neuroscience, Natl. Ctr. of Neurology and Psychiatry, Tokyo, JAPAN*

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**DEGRADATION OF METHYLMERCURY IN RAT LIVER AND CELL CULTURES.** R. Aramaki<sup>1</sup>, A. Yasutake<sup>1</sup>, F. Usuki<sup>1</sup>, K. Hirayama<sup>2</sup>; <sup>1</sup>*National Institute for Minamata Disease, Minamata, Kumamoto, Japan,* <sup>2</sup>*Kumamoto University College of Medical Science, Kuhonji, Kumamoto, Japan*

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**DEVELOPMENTAL NEUROTOXICITY TESTING WITH METHYLMERCURY AND METHYLAZOXYMETHANOL.** DMG de Groot<sup>1</sup>, MFP van Dael<sup>1</sup>, SAY Hartgring<sup>1</sup>, MPT Pelgrim<sup>1</sup>, MM Waanders<sup>1</sup>, B. Pakkenberg<sup>2</sup>, WSH Kaufmann<sup>3</sup>, MHM Bos-Kuijpers<sup>1</sup>, JP O'Callaghan<sup>5</sup>, JHCM Lammers<sup>1</sup>, DH Waalkens-Berendsen<sup>1</sup>, H-JG Gundersen<sup>6</sup>; <sup>1</sup>*TNO Nutrition and Food Research, Zeist, NL;* <sup>2</sup>*Bispebjerg University Hospital, Copenhagen, DK;* <sup>3</sup>*BASF, Ludwigshafen, FRG;* <sup>5</sup>*NIOSH, Morgantown, USA;* <sup>6</sup>*University of Aarhus, DK*

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**NEUROBEHAVIORAL EFFECTS ACROSS THE LIFESPAN IN NONHUMAN PRIMATES EXPOSED IN-UTERO TO METHYLMERCURY.** KS Grant, TM Burbacher and N Liberato; *Dept. of Environmental and Occupational Health Sciences, University of Washington, Seattle, WA*

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**MORPHOLOGICAL, BIOCHEMICAL, AND NEUROBEHAVIORAL EFFECTS IN WISTAR RATS AFTER PRENATAL EXPOSURE TO LOW DOSES OF METHYLMERCURY.** LIU Ping, LI Jian, WU Xinan; *Inst of Environmental Medicine, Kunming Medical College, Kunming, Yunnan, P. R. China*

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**THIMEROSAL, MERCURY, AND AUTISM: CASE STUDY IN THE FAILURE OF THE RISK ASSESSMENT PARADIGM.** Sallie Bernard, Lyn Redwood, Mark Blaxill; *Safe Minds, Cranford, NJ*

A-115 *Post-Doctoral Student*

**SUB-MICROMOLAR THIMEROSAL AND ETHYL-MERCURY INDUCE APOPTOSIS IN MURINE DENDRITIC CELLS IN CULTURE.** Samuel R. Goth, Ruth A. Chu, Isaac N. Pessah; *Department of Molecular Biosciences, and Center for Children's Environmental Health and Disease Prevention, Univ. of California, Davis, CA*

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**PREVENTION OF THIMEROSAL-INDUCED NEUROTOXICITY BY GLUTATHIONE AND CYSTEINE, BUT NOT METHIONINE.** S. Jill James, William Slikker III, Stepan Melnyk, Elizabeth New, and Stefanie Jernigan; *Division of Biochemical Toxicology National Center for Toxicological Research, Jefferson AR and Arkansas Children's Hospital Research Inst, Univ of Arkansas for Medical Sciences, Little Rock AR*

A-117 *Post-Doctoral Student*

**NEURODEVELOPMENTAL CONSEQUENCES OF MeHg IN AN ANIMAL MODEL OF AUTISM.** AK Halladay<sup>1,2</sup>, GC Wagner<sup>3</sup>, R. Zhou<sup>4</sup>, KR Reuhl<sup>1,2</sup>; *Joint Graduate Program in Toxicology<sup>1</sup>, Departments of Pharmacology and Toxicology<sup>2</sup>, Psychology<sup>3</sup>, and Chemical Biology<sup>4</sup>, and Center for Childhood Neurotoxicology and Exposure Assessment, Rutgers University, New Brunswick, NJ*

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**CURRENT HAIR MERCURY LEVELS IN JAPANESE FOR ESTIMATION OF METHYLMERCURY EXPOSURE.** A. Yasutake, M. Matsumoto, M. Yamaguchi, N. Hachiya; *National Institute for Minamata Disease, Hama, Minamata, Kumamoto, Japan*

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**NEUROTOXICANTS IN THE ARCTIC: A PUBLIC HEALTH PERSPECTIVE ON RISK MANAGEMENT.** Eric Dewailly, Pierre Ayotte, Gina Muckle, Serge Dery and Chris Furgal; *Public Health Research Unit, Laval University, Centre Hospitalier Universitaire de Québec (CHUQ), Québec, Canada*

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**COMPARISON OF BLOOD MERCURY LEVELS IN ANGLERS, CHILDREN AND WOMEN OF REPRODUCTIVE AGE FROM AREAS WITH FISHING ADVISORIES AND THE ENTIRE STATE OF ARKANSAS.** MF Cranmer<sup>1</sup>, SC Louie<sup>2</sup>, J. Gandy<sup>1,3</sup> and JM Cranmer<sup>4</sup>. <sup>1</sup>*Department of Environmental and Occupational Health, College of Public Health,* <sup>2</sup>*Arkansas State Department of Health,* <sup>3</sup>*Center for Toxicology and Environmental Health,* <sup>4</sup>*Department of Pediatrics, College of Medicine, University of Arkansas for Medical Sciences, Little Rock, AR*

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**TRENDS IN THE LEVELS OF 2,3,7,8-CHLORINATED DIBENZO-(P)-DIOXINS AND FURANS OVER A 4-YEAR SAMPLING PERIOD.** MF Cranmer<sup>1</sup> and SC Louie<sup>2</sup>; <sup>1</sup>*Department of Environmental and Occupational Health, College of Public Health,* <sup>2</sup>*Arkansas State Department of Health, Little Rock, AR*

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**TECHNICAL WORKSHOP: OPTIMIZING THE DESIGN AND INTERPRETATION OF EPIDEMIOLOGIC STUDIES FOR ASSESSING NEURODEVELOPMENTAL EFFECTS FROM IN UTERO CHEMICAL EXPOSURE.** JS LaKind, LaKind Associates LLC, Dept of Pediatrics, Milton S. Hershey Medical Center, Pennsylvania State Col. of Medicine, Hershey, PA

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**GENETIC POLYMORPHISM DATABASE: ANALYSIS OF THE INFLUENCE OF POLYMORPHISM ON INTERINDIVIDUAL VARIABILITY IN METABOLISM OF XENOBIOTICS.** B. Sonawane<sup>1</sup>, G. Ginsberg<sup>2</sup>, S. Somolensi<sup>2</sup>, P. Neafsey<sup>3</sup>, D. Hattis<sup>4</sup>, and K. Walker<sup>4</sup>; *US Environmental Protection Agency<sup>1</sup>, Connecticut Dept of Health<sup>2</sup>, Univ of Connecticut<sup>3</sup>, and Clark University<sup>4</sup>*

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**MULTIPLE 5' REGION POLYMORPHISMS IN THE DOPAMINE TRANSPORTER GENE (SLC6A3).** SN Kelada, P Costa-Mallen, H Checkoway, and LG Costa; *Department of Environmental and Occupational Health Sciences, University of Washington, Seattle, WA*

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**HEME OXYGENASE-1 (HSP 32): A SENSITIVE INDICATOR OF MANGANESE INDUCED OXIDATIVE STRESS IN PC12 CELLS.** Equar Taka and R. Renee Reams *College of Pharmacy & Pharmaceutical Sciences Florida A & M University, Tallahassee, FL*

A-127 *Post-Doctoral Student*

**PERINATAL EXPOSURE TO DELTA-METHRIN ALTERS DOPAMINERGIC NEUROCHEMISTRY IN THE DEVELOPING MOUSE BRAIN.** JR Richardson, WM Caudle, ED Dean, MZ Wang, and GW Miller; *Center for Neurodegenerative Disease and Department of Environmental and Occupational Health, Rollins School of Public Health, Rollins School of Public Health, Emory University, Atlanta, GA*

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**NEUROPATHOLOGICAL EXAMINATION OF FETAL RAT BRAIN EXPOSED TO 5-BROMO-2'-DEOXYURIDINE.** T. Ogawa<sup>1</sup>, K. Muneoka<sup>1</sup>, M. Kuwagata<sup>2</sup>, S. Shioda<sup>1</sup>. <sup>1</sup>*Department of Anatomy, Showa University School of Medicine, Tokyo, Japan and* <sup>2</sup>*Hatano Research Institute, FDSC, Kanagawa, Japan*

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**NEUROPATHOLOGICAL DETECTION OF 5-BROMO-2' - DEOXYURIDINE - INDUCED CELL DEATH IN FETAL MOUSE BRAIN.** T.Ogawa<sup>1</sup>, K.Muneoka<sup>1</sup>, M.Kuwagata<sup>2</sup>, S.Shioda<sup>1</sup>. <sup>1</sup>*Dept of Anatomy, Showa University School of Medicine, Tokyo, Japan and* <sup>2</sup>*Hatano Research Institute, FDSC, Kanagawa, Japan*

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**NEUROLOGICAL IMPAIRMENT OF FETAL MOUSE BRAIN BY DRINKING WATER DISINFECTANT BYPRODUCTS.** AE Ahmed, S. Jacob and G. Campbell; *Dept of Pathology, The Univ. of Texas Medical Branch, Galveston, TX*

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**EFFECT OF MANGANESE INTAKE AND IRON STATUS ON BEHAVIOR, BRAIN DOPAMINE, TISSUE MINERAL, METAL TRANSPORTERS AND MN TRANSPORT.** TT Tran<sup>1</sup>, and FM Crinella<sup>2</sup>. A Chicz-DeMet<sup>3</sup>, and BL Lönnnerdal<sup>1</sup>; *Dept of Nutrition, University of California, Davis, CA*<sup>1</sup>, *Dept of Pediatrics and* *Dept of Psychiatry and Human Behavior, University of California, Irvine, CA*

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**GRP78 IS TARGETED BY HEAVY METALS IN HUMAN ASTROCYTOMA CELLS.** Y Qian, Y Zheng and E Tiffany-Castiglioni; *Department of Veterinary Anatomy and Public Health, Texas A&M University, College Station, TX*

## A-133

**VISUAL FUNCTIONING IN INFANTS EXPOSED TO INSUFFICIENT THYROID HORMONE LEVELS IN UTERO. A SENSITIVE TECHNIQUE FOR ASSESSING THYROID DISRUPTORS.** G Mirabella, CA Westall, and JF Rovet; *Smith Kettlewell Eye Research Institute, San Francisco CA*; *Depts of Ophthalmology and Pediatrics, University of Toronto, Toronto, Canada*; *Brain and Behavior Program, Hospital for Sick Children, Toronto, Canada*

## A-134

**LOW DOSE EXPOSURE TO FORMALDEHYDE ALTERS GLUTAMATE NMDA RECEPTOR mRNA EXPRESSIONS IN THE RAT NEOCORTEX.** M Kakeyama, Y Kurokawa, N Kunugita, S Yamamoto, R Hojo, K Arashidani, and H Fujimaki. *Environmental Health Sciences Division, National Institute for Environmental Studies, Tsukuba, Japan*

## A-135

**PCBS INDUCE CASPASE-DEPENDENT CELL DEATH IN CULTURED EMBRYONIC RAT HIPPOCAMPAL BUT NOT CORTICAL NEURONS VIA ACTIVATION OF THE RYANODINE RECEPTOR.** AS Howard, and PJ Lein; *Dept of Environmental Health Sciences, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD*

## A-136

**COVALENT ARYLATION OF METALLOTHIONEIN BY DOPAMINE: A POSSIBLE MECHANISM FOR ZINC-MEDIATED ENHANCEMENT OF DOPAMINERGIC NEURON SURVIVAL.** MA Gauthier and GM Ross; *Department of Physiology, Queen's University at Kingston, Ontario, Canada*

## A-137

**BEHAVIOR ABNORMALITIES IN RAT OFFSPRING PRENATALLY EXPOSED TO 5-BROMO-2'-DEOXYURIDINE.** K. Orito<sup>1</sup>, A. Morishima<sup>1</sup>, T. Ogawa<sup>2</sup>, K. Muneoka<sup>2</sup>, M. Kuwagata<sup>3</sup>, M. Shirai<sup>1</sup>, F. Akahori<sup>1</sup>; *Dept of Pharmacology, Azabu University School of Veterinary Medicine, Kanagawa, Japan*, *Dept of Anatomy I, Showa Univ School of Medicine, Tokyo, Japan*, *Hatano Research Inst, FDSC, Kanagawa, Japan*

## A-138

**FAILURE TO DETECT DIFFERENCES IN THE NEUROBEHAVIORAL DEVELOPMENT OF RATS FOLLOWING IN UTERO AND PREWEANLING EXPOSURE TO DEPLETED URANIUM.** J. Rossi III, MYV Bekkedal, SM McInturf, FJ McDougale, A. Lenger, CT Allen, and DP Arfsten; *Neurobehavioral Effects Lab (NHRC/EHEL), Wright-Patterson AFB, OH*

## A-139

**COMPARATIVE TOXICITY OF MAJOR COMPONENTS OF A CHEMICAL MIXTURE BASED ON CONTAMINANT BLOOD PROFILES OF CANADIAN ARCTIC POPULATIONS: EFFECTS ON EARLY DEVELOPMENT AND NEUROBEHAVIORAL FUNCTION.** WJ Bowers, JS Nakai, A Yagminas, I Chu, and D Moir. *Environmental Health Sciences Bureau, Safe Environments Programme, Health Canada, Ottawa, Canada K1A 0L2*

## A-140

**LACK OF EFFECT OF PARAQUAT ON THE NIGROSTRIATAL DOPAMINERGIC SYSTEM OF THE RAT AND MOUSE.** NC Sturgess, AJ Foster and L Marks. *Syngenta Central Toxicology Laboratory, Alderley Park, Macclesfield, Cheshire, UK*

## A-141

**NEUROBEHAVIORAL PERFORMANCE IN PRESCHOOL CHILDREN FROM AGRICULTURAL AND NON-AGRICULTURAL COMMUNITIES IN OREGON AND NORTH CAROLINA.** Diane S. Rohlman<sup>1</sup>, Thomas A. Arcury<sup>2</sup>, Sara A. Quandt<sup>2</sup>, Joan Rothlein<sup>1</sup>, Rachelle Travers<sup>3</sup>, Julie Early<sup>2</sup>, Jackie Phillips<sup>3</sup>, Antonio Marin<sup>2</sup>, Alejandra Zavala<sup>1</sup>, Sarah Weston<sup>1</sup>, Alys Tamulinas<sup>1</sup>, Jennifer Scherer<sup>1</sup>, Linda McCauley<sup>1</sup>; *1Ctr for Research on Occupational and Environmental Health & Science University, Portland, OR*; *2Wake Forest Univ School of Medicine, Winston Salem, NC*; *3Oregon Child Development Coalition, Wilsonville, OR*

## A-142

**MATERNAL HAIR: IDEAL MATRIX TO DETECT MATERNAL EXPOSURE TO ENVIRONMENTAL PESTICIDE / HERBICIDE.** EM Ostrea, Jr., DM Bielawski, NC Posecion, Jr., ML Corrion, JJ Seagraves; *Dept of Pediatrics, Wayne State University, Detroit MI*

## A-143

**MECONIUM: THE BEST MATRIX TO DETECT FETAL EXPOSURE TO ENVIRONMENTAL PESTICIDE / HERBICIDE.** EM Ostrea, Jr., DM Bielawski, NC Posecion, Jr., ML Corrion, JJ Seagraves; *Dept of Pediatrics, Wayne State University, Detroit MI*

## A-144

**DELAYED BEHAVIOURAL TOXICITY OF NEONATAL CHLORPYRIFOS IN MICE.** ML Scattoni<sup>1</sup>, L Ricceri<sup>1</sup>, N Markina<sup>1</sup>, S Fortuna<sup>2</sup>, MF Cometa<sup>2</sup>, A Meneguz<sup>2</sup> and G Calamandrei<sup>1</sup>; *1Section of Comparative Psychology, Laboratorio di Fisiopatologia, & 2Section of Biochemistry, Laboratorio di Farmacologia, Istituto Superiore di Sanità, Rome, Italy*

## A-145 Post-Doctoral Student

**EFFECTS OF PERINATAL EXPOSURE TO PBDE 99 AND A1254 ON MOUSE NEUROBEHAVIORAL DEVELOPMENT.** E. Capone<sup>1,2</sup>, I. Branchi<sup>2</sup>, G. Iaffaldano<sup>3</sup>, F. Cirulli<sup>2</sup>, MR Carratt<sup>3</sup>, E. Alleva<sup>2</sup> and LG Costa<sup>3,4</sup>; *1Dept of Pharmacology of Natural Substances and General Physiology, University of Roma "La Sapienza," Italy*; *2Department of Cell Biology and Neuroscience, I. S. S., Roma, Italy*; *3Department of Pharmacology and Human Physiology, University of Bari Medical School, Italy*; *4Department of Environmental and Occupational Health Sciences, University of Washington, Seattle, WA, USA*

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**DIAZINON: A DEVELOPMENTAL NEUROTOXICITY STUDY IN RATS.** BH Neal<sup>1</sup>, R. Mandella<sup>2</sup>, EB Gordon<sup>2</sup>; *1BBL Sciences, Reston, VA*, *2Huntingdon Life Sciences, New Jersey* and *3Makhteshim-America, New York, NY*

## A-147

**PSYCHOLOGICAL PROFILE OF SOUTH TEXAS ADOLESCENTS WITH SUSPECTED PESTICIDE EXPOSURE.** SF Franks<sup>1</sup>, V Ramos<sup>2</sup>, KS Hagar<sup>3</sup>, JR Hall<sup>1</sup>, and H Balcazar<sup>5</sup>; *1Dept of Psychology (Graduate School of Biomedical Science)*, *2Dept of Social and Behavioral Sciences (School of Public Health), University of North Texas Health Science Center, Fort Worth, TX*, *2Dept of Rehabilitation*, *3Dept of Psychology, University of North Texas, Denton, TX*

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**NEUROBEHAVIORAL DEVELOPMENT IN CHILDREN EXPOSED TO METHYL PARATHION IN MISSISSIPPI AND OHIO.** PZ Ruckart, FJ Bove, WE Kaye. *Epidemiology and Surveillance Branch, Division of Health Studies, Agency for Toxic Substances and Disease Registry, Atlanta, GA*

## A-149

**DEVELOPMENTAL NEUROTOXICITY RESULTS IN RATS TREATED WITH ORGANOPHOSPHORUS (OP) INSECTICIDES.** LP Sheets. *Toxicology Department, Bayer CropScience LP, Stilwell, KS USA*

## A-150

**NEUROTOXICITY EVALUATION OF TRIALLATE IN DEVELOPING AND ADULT SPRAGUE-DAWLEY RATS FOR RISK ASSESSMENT.** AA Li, TA Kaempfe, and JK Lemen; *Health Risk and Food and Chemicals Practices, Exponent, Inc. San Francisco, CA*; *Product Safety Center, Monsanto Company, St. Louis, MO*

## A-151

**A PILOT STUDY OF NEUROBEHAVIORAL DEFICITS AMONG OFFSPRING OF LEAD-EXPOSED WORKERS.** TN Chen, SY Tsai, and PC Chen; *Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University College of Public Health, Taipei, Taiwan*

## A-152 Post-Doctoral Student

**EFFECT OF MATERNAL PLASMA LEAD LEVELS DURING PREGNANCY ON INFANT NEUROCOGNITIVE DEVELOPMENT AT AGE 24 MONTHS.** Martha Ma. Tellez-Rojo<sup>1</sup>, Adrienne S. Ettinger<sup>2</sup>, Hector Lamadrid<sup>1</sup>, David Bellinger<sup>2</sup>, Lourdes Schnaas<sup>1</sup>, Donald Smith<sup>3</sup>, Howard Hu<sup>2</sup>, Mauricio Hernandez-Avila<sup>1</sup>; <sup>1</sup>National Institute of Public Health, Mexico; <sup>2</sup>Harvard School of Public Health, Boston MA, USA <sup>3</sup>University of California at Santa Cruz

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**LEAD AND PUBLIC HEALTH IN CANADA: AN "OLD" PROBLEM REVISITED.** ME Easson and AW Myres on behalf of the *Health Canada Lead Issues Working Group; Healthy Environments and Consumer Safety Branch, Environmental Contaminants Bureau, Safe Environments Programme, Health Canada, Ottawa,*

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**HOUSING SURVEYS AND CHILD HEALTH: COMPARISON OF RETROSPECTIVE AND PROJECTED TRENDS BETWEEN 1990 AND 2005.** DE Jacobs and Richard Nevin; *Office of Healthy Homes and Lead Hazard Control, U.S. Department of Housing and Urban Development, Washington DC*

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**HAWAII HEPTACHLOR RESEARCH AND EDUCATION FOUNDATION.** Willis Butler, MD, *Hawaii Heptachlor Research and Education Foundation, Honolulu, HI*

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**VOLCANIC FOG (VOG) IN HAWAII AND ACUTE CHANGES IN LUNG FUNCTION AND SYMPTOMS.** Jon-Pierre Michaud, Dmitry Krupitsky, John S Grove, Elizabeth K Tam, Bruce S Anderson; *John A. Burns School of Medicine, University of Hawai'i, Honolulu, HI*

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**THE PACIFIC RESEARCH CENTER FOR MARINE BIOMEDICINE.** Edward A. Laws, *Department of Oceanography, University of Hawaii at Manoa, Honolulu, HI*

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**HAWAII ISLAND CHILDREN'S LUNG ASSESSMENT SCIENTIFIC STUDY (HICLASS).** EK Tam<sup>1</sup>, J. Kunitomo<sup>2</sup>, S. Labrenz, J. Sutherland, Y-L Chen<sup>1</sup>, AJ Sutton<sup>3</sup>, T. Elias<sup>3</sup>, E. Avol<sup>4</sup>, D. Dockery<sup>5</sup>, K. Tantisira<sup>5</sup>. *1John A. Burns School of Medicine, University of Hawaii, 2Hawaii Island Rural Health Association, 3US Geological Survey, 4University of Southern California, 5Harvard School of Public Health,*

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**ETHICS ASSESSMENT, RISK ASSESSMENT, AND ENVIRONMENTAL JUSTICE.** Bernard Weiss; *University of Rochester School of Medicine and Dentistry, Rochester, NY*

**A-160 Pre-Doctoral Student METHYLMERCURY (MeHg) ELICITS ACUTE AND LONG-TERM EFFECTS ON NEUROGENESIS IN THE NEONATAL RAT HIPPOCAMPUS SELECTIVELY.** Kelly Burke<sup>1</sup>, Ken Reuhl<sup>2</sup>, Yinghong Cheng<sup>1</sup>, Alex Petrov<sup>1</sup>, Nicole Caldiera<sup>1</sup>, and Emanuel DiCiccio-Bloom<sup>1</sup>. *<sup>1</sup>Department of Neuroscience and Cell Biology, Robert Wood Johnson Medical School – UMDNJ, Piscataway, NJ <sup>2</sup>Dept of Pharmacology and Toxicology, Rutgers Univ, Piscataway, NJ*

**A-161 Pre-Doctoral Student**

**DOPAMINE TRANSPORTER AND VESICULAR MONOAMINE TRANSPORTER LEVELS ARE INCREASED BY PERINATAL HEPTACHLOR EXPOSURE.** WM Caudle, JR Richardson, ED Dean, MZ Wang, and GW Miller; *Ctr for Neurodegenerative Disease and Dept of Environmental and Occupational Health, Rollins School of Public Health, Emory University, Atlanta, GA*

**A-162 Pre-Doctoral Student**

**THE NOVEL COMPOUNDS R1937 AND Y1036 PREVENT BRAIN-DERIVED NEUROTROPHIC FACTOR BINDING TO trkB AND p75<sup>NTR</sup>.** SA Chapelsky and GM Ross; *Department of Physiology, Queen's University at Kingston, Ontario, Canada*

**A-163 Pre-Doctoral Student**

**A NEW MODEL OF AUTISM: BEHAVIORAL MARKERS FOLLOWING PRE-AND POST-NATAL SODIUM VALPROATE TO BALB/c MICE.** MA Cheh<sup>1</sup>, AK Halladay<sup>2</sup>, KR Reuhl<sup>2</sup> and GC Wagner<sup>3</sup>; *<sup>1</sup>Joint Graduate Programs in Neuroscience and <sup>2</sup>Toxicology, <sup>3</sup>Department of Psychology and Center for Childhood Neurotoxicology and Exposure Assessment, Rutgers University, Piscataway, NJ*

**A-164 Pre-Doctoral Student**

**PRENATAL EXPOSURE TO THYROID HORMONE DISRUPTORS, THYROID HORMONE LEVELS IN NEONATES AND NEURODEVELOPMENT IN AN AGRICULTURAL COMMUNITY.** Jonathan Chevrier, Laura Fenster, Asa Bradman and Brenda Eskenazi; *School of Public Health, University of California, Berkeley, CA*

**A-165 Pre-Doctoral Student**

**LEAD INDUCES TROPIC EFFECTS IN EMBRYONIC RAT CEREBRAL CORTICAL PRECURSORS.** Zev Davidovics and Emanuel DiCiccio-Bloom; *Dept of Neuroscience and Cell Biology, Robert Wood Johnson Medical School – UMDNJ, Piscataway, NJ*

**A-166 Pre-Doctoral Student**

**METHODS FOR GIS-BASED DISPERSION MODELING OF AIR TOXICS RELEASES: IMPACTS FOR CHILDREN'S HEALTH AND ENVIRONMENTAL JUSTICE.** Dana C. Dolinoy and Marie Lynn Miranda; *Integrated Toxicology Program, Duke University, Durham, NC*

**A-167 Pre-Doctoral Student**

**EFFECT OF LEAD EXPOSURE ON THE NERVOUS SYSTEM IN YOUNG RATS.** Djebli Nour Eddine<sup>1</sup>, Slimani Miloud<sup>2</sup> and Aoues Abdelkader<sup>2</sup>; *<sup>1</sup>Département de Biologie, Faculté des Sciences, Université de Mostaganem(27000) Algérie; <sup>2</sup>Département de Biologie, Faculté des Sciences, Université d'Es-Senia Oran Algérie*

**A-168 Pre-Doctoral Student**

**ASSESSMENT OF GROWTH AND DEVELOPMENTAL EFFECTS FOLLOWING PRENATAL PCB AND PBDE EXPOSURE: A WORK IN PROGRESS.** Julie B. Herbstman and Lynn Goldman; *Departments of Epidemiology and Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD*

**A-169 Pre-Doctoral Student**

**THE EFFECTS OF METHYLMERCURY ON THE CONFORMATION OF THE NEUROTROPHINS NGF AND BDNF.** A Colquhoun and GM Ross; *Department of Physiology, Queen's University at Kingston, Ontario, Canada*

**A-170 Pre-Doctoral Student**

**NEURONAL DIFFERENTIATION STATE INFLUENCES SUSCEPTIBILITY TO METHYLMERCURY-INDUCED OXIDATIVE STRESS AND MITOCHONDRIAL PERTURBATIONS.** MA Polunas<sup>1,2</sup>, RB Tjalkens<sup>3,4</sup>, MA Philbert<sup>3</sup>, HE Lowndes<sup>1,2</sup> and KR Reuhl<sup>1,2</sup>; *<sup>1</sup>Neurotoxicology Laboratories, Department of Pharmacology and Toxicology, Rutgers University and <sup>2</sup>Joint Graduate Program in Toxicology, Rutgers University/ UMDNJ-RWJMS, Piscataway, NJ, <sup>3</sup>Toxicology Program, Department of Environmental Health Sciences, University of Michigan, Ann Arbor, MI, <sup>4</sup>Dept of Veterinary Anatomy and Public Health, Texas A&M University, College Station, TX*

**A-171 Pre-Doctoral Student**

**VISUAL FUNCTIONING IN INFANTS EXPOSED TO ORGANIC SOLVENTS IN UTERO.** C Till, SJ Swartz, G Koren, CA Westall, and JF Rovet; *Departments of Psychology, Pediatrics, and Ophthalmology, University of Toronto, Toronto, Canada; Brain and Behavior Program, and Population Health, Research Institute, Hospital for Sick Children, Toronto, Canada*

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**DIAMINOCHLOROTRIAZINE (DACT) ALTERS LH RELEASE FROM THE PITUITARY AND/OR HYPOTHALAMUS.** TS McMullin<sup>1</sup>, JM Brzezicki<sup>1</sup>, RJ Handa<sup>2</sup>, T Pak<sup>2</sup>, ME Andersen<sup>3</sup>, WH Hanneman<sup>1</sup>. *<sup>1</sup>Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO <sup>2</sup>Department of Biomedical Sciences, Colorado State University, Fort Collins, CO <sup>3</sup>CIIT, Center for Health Research, Raleigh, NC*