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Twenty-ninth Annual Meeting of the Neurobehavioral Teratology Society and Twenty-fourth Annual Meeting of the Behavioral Toxicology Society in conjunction with the Forty-fifth Annual Meeting of the Teratology Society

The Trade Winds Grand Island Resort
St. Pete Beach Florida
June 25–28, 2005

PROGRAM
Saturday, June 25, 2005

9:00 a.m.–11:30 a.m. BTS Platform Sessions

1:00 p.m.–8:00 p.m. NBTS Registration
GRAND PALM COLONNADE—EAST SIDE

1:00 p.m.–2:30 p.m. NBTS Publications Committee Meeting
Snow Egret Room

1:30 p.m.–2:30 p.m. NBTS Public Affairs Committee Meeting
Compass Room

2:30 p.m.–5:30 p.m. NBTS Council Meeting
Royal Tern Room

6:00 p.m.–9:00 p.m. **NBTS/BTS Joint Symposium—Zebrafish models of neurobehavioral toxicity**
Sponsored in part by US EPA
Chairs—Frank Scalzo and Ed Levin
INDIAN KEY AND BIRD KEY ROOMS

6:00 p.m.–6:25 p.m. **NBTS 1/BTS 1. Zebrafish as a neurotoxicological and neurobehavioral model.** LINNEY, E. Duke University Medical Center, Durham, N.C.

6:25 p.m.–6:50 p.m. **NBTS 2/BTS 2. Molecular analysis of the zebrafish visual system.** FADOOL, J. Florida State University, Tallahassee, FL

6:50 p.m.–7:20 p.m. **NBTS 3/BTS 3. Zebrafish: A tool for studying behavioral effects and mechanistic action of algal toxins.** LEFEBVRE, K. National Oceanic and Atmospheric Administration, Seattle, WA.

7:20 p.m.–7:35 p.m. Break

doi:10.1016/j.ntt.2005.03.003

7:35 p.m.–8:00 p.m. **NBTS 4/BTS 4. Characterization of developmental toxicity of algal toxins after microinjection of fish embryos.** RAMSDELL, J. National Oceanic and Atmospheric Administration, Charleston, S.C.

8:00 p.m.–8:25 p.m. **NBTS 5/BTS 5. Neurobehavioral effects of stressors in embryonic zebrafish.** SCALZO, F.M. Bard College, Annandale-on-Hudson, N.Y.

8:25 p.m.–8:50 p.m. **NBTS 6/BTS 6. Zebrafish choice behavior: sensitivity to pharmacological and toxicological challenge.** LEVIN, E.D. Duke University Medical Center, Durham, N.C.

8:50 p.m.–9:00 p.m. Discussion

Sunday, June 26, 2005

8:30 a.m.–5:00 p.m. **NBTS Registration**
GRAND PALM COLONNADE—EAST SIDE

9:00 a.m.–12:00 p.m. **NBTS Symposium**
Adolescence: Drugs and Behavior
Chair—Diana Dow-Edwards
INDIAN KEY AND BIRD KEY ROOMS

9:00 a.m.–9:05 a.m. **Introduction**. DIANA DOW-EDWARDS, SUNY Downstate, New York, NY.

9:05 a.m.–9:40 a.m. **NBTS 7. Imaging the Ontogeny of Self-Regulatory Control.** PETERSON, B.S.* Department of Psychiatry, Columbia University, and the New York State Psychiatric Institute, New York, N.Y.

9:40 a.m.–10:15 a.m. **NBTS 8. Binge alcohol exposure during adolescence produces behavioral, electro-physiological and biochemical adaptations in hippocampus.** MATTHEWS, D.B.*, J.M. SILVERS*, S. TOKUNAGA* and A.L. MORROW* Department of Psychology, University of Memphis, Memphis Tennessee and University of North Carolina, Chapel Hill, N.C.

10:15 a.m.–10:30 am Break

10:30 a.m.–11:05 a.m. **NBTS 9. Cannabinoid/psychostimulant interactions in adolescent vs adult rats** IZENWASSER, S.* Dept. of Psychiatry and Behavioral Sciences, Univ. Miami School of Medicine, Miami, FL.

11:05 a.m.–11:40 a.m. **NBTS 10. Repeated exposure to low dose methylphenidate during adolescence enhances spatial working memory**. DOW-EDWARDS D., M. LENDERMAN*, L. GRULLON*, A. JACKSON*, and S. STEPHENSON* Department of Physiology/Pharmacology, SUNY Downstate, Brooklyn, N.Y.

11:40 a.m.–12:00 p.m. Discussion

12:00 p.m.–1:00 p.m. Lunch

1:00 p.m.–2:00 p.m. **NBTS 11/BTS 7 Charles River Distinguished Speaker**
Assessment of cognitive function: bridging the gap from preclinical animal studies to the human condition. SNYDER, P.J., Pfizer, Groton, CT
TARPON/SAWYER ROOM

2:00 p.m.–5:00 p.m. **Joint NBTS/BTS/TS Symposium: Cognitive Testing and Neurodevelopment**
Chairs—Frank Scalzo and Robert Parker
TARPON/SAWYER ROOM

2:00 p.m.–2:40 p.m. **NBTS 12. Use of identical behavioral tasks in children and laboratory animals for studying chemical effects on a variety of cognitive functions.** PAULE, M.G. Behavioral Toxicology Laboratories, Division of Neurotoxicology, FDA's National Center for Toxicological Research (NCTR), Jefferson, AR.

2:40 p.m.–3:20 p.m. **NBTS 13. Cognitive testing in infant monkeys: responding to biomedical and public health concerns.** GOLUB, M.S. California National Primate Research Center, Davis, CA.

3:20 p. m.–3:40 p.m. Break

3:40 p.m.–4:20 p.m. **NBTS 14. Path integration versus spatial learning: what does the Cincinnati water maze (CWM) measure?** VORHEES, C.V., C. PU*, M. FUKUMURA*, and M.T. WILLIAMS*. Div. of Neurology, Cincinnati Children's Research Foundation and Univ. of Cincinnati, Cincinnati, OH.

4:20 p.m.–5:00 p.m. **NBTS 15. Adaptation to change as an index of cognitive function.** WEISS, B. Department of Environmental Medicine, University of Rochester School of Medicine and Dentistry, Rochester N.Y.

6:15 p.m.–7:45 p.m. **Welcoming Reception (TS/NBTS/OTIS) and Exhibits Open**
Jacaranda Hall

Monday, June 27, 2005

8:00 a.m.–4:00 p.m. NBTS Registration
GRAND PALM COLONNADE—EAST SIDE

8:10 a.m.–9:00 a.m. **The Josef Warkany Lecture (joint with Teratology Society)**
Tarpon/Sawyer Room

9:00 a.m.–9:30 a.m. **The James G. Wilson Publication Award Presentation and Address (joint with Teratology Society)**
Tarpon/Sawyer Room

9:30 a.m.–9:45 a.m. Break

9:45 a.m.–11:45 a.m. **NBTS Platform Session I**
INDIAN KEY AND BIRD KEY ROOMS
Chair—Susan Robinson

9:45 a.m.–10:05 a.m. **NBTS 16. Cigarette's impact on cognitive performance in young adults following control for pre-smoking abilities.** FRIED, P.A. and R. GRAY*. Carleton University, Ottawa, Ontario, Canada.

10:05 a.m.–10:25 a.m. **NBTS 17. Perinatal Nicotine Exposure Affects Nicotine-stimulated Rubidium Efflux.** BRITTON, A.F.*, R.E. VANN*, and S.E. ROBINSON. Department of Pharmacology and Toxicology, Virginia Commonwealth University, Richmond, VA.

10:25 a.m.–10:45 a.m. **NBTS 18. Prenatal cocaine and/or nicotine alters life span in laboratory rats in a sex-dependent manner.** SOBRIAN, S.K., E. CLARK, Jr., K. RESSMAN*, L. MARR*, and S.T. GERALD. Department of Pharmacology, Howard University College of Medicine, Washington, D.C.

10:45 a.m.–11:05 a.m. **NBTS 19. Assessment of selective attention and error reactivity in *fmr1* knockout (KO) mice: A mouse model of Fragile X Syndrome (FXS).** STRUPP, B.J., J. MOON*, A. BEAUDIN*, S. VEROSKY*, L.L. DRISCOLL, L.S. CRNIC, and D.A. LEVITSKY*. Cornell Univ., Ithaca, N.Y., and Univ. Colorado Health Sci. Ctr., Denver, CO.

Travel Award Recipient

11:05 a.m.–11:25 a.m. **NBTS 20. Prenatal folate deficiency in mice increases adult anxiety levels.** BERRY, K.[1], S.A. FERGUSON[1], D.K. HANSEN[1,*], A.C. ANTONY[2,3,*], K.S. WALL[1,*], G. WHITE[1,4,*] [1]National Center for Toxicological Research, [2]Indiana University School of Medicine, [3]Richard L. Roudebush Veterans Affairs Medical Center, [4]Toxicological Pathology Associates, Jefferson, AR.

11:25 a.m.–11:45 a.m. **NBTS 21. Rodent strain differences in performance of operant tasks measuring time estimation and impulsivity.** FERGUSON, S.A., M.G. PAULE, A. CADA, C.M. FOGLE, and E.P. GRAY. Division of Neurotoxicology, NCTR/FDA, Jefferson, AR.

11:45 a.m.–1:00 p.m. Lunch

11:45 a.m.–7:30 p.m. Posters and Exhibits Open
(Posters set-up 11:45 a.m.–7:30 p.m. and attended 5:30 p.m.–7:30 p.m.)
Jacaranda Hall

1:00 p.m.–3:30 p.m. **NBTS/TS/BTS ILSI SYMPOSIUM**
An Evaluation and Interpretation of Neurodevelopmental Endpoits for Human Health Risk Assessment
Supported in part by ILSI.
Isabel Walls (organizer) and Steve Brimijoin co-chairs
Tarpon/Sawyer Room

1:00 p.m.–1:10 p.m. **NBTS 22. An Evaluation and Interpretation of Neurodevelopmental Endpoints for Human Health Risk Assessment—Introductory Remarks.** WALLS, I.*,[1] and S. BRIMIJOIN.*,[2] [1]ILSI Risk Science Institute, Washington DC; [2]Mayo Clinic, Rochester, MN.

1:10 p.m.–1:35 p.m. **NBTS 23. Application of Developmental Neurotoxicity Testing to Public Health Protection.** FENNER-CRISP, P.*,[1], J. ADAMS[2], J. BALBUS*,[3], D. BELLINGER[4], S. BRIMIJOIN[5], S. MAKRIS[6], T. MARRS*,[7] , and D. RAY*,[8]. [1]Consultant, ILSI Risk Science Institute, Charlottesville, VA;[2] University of Massachusetts, Boston, MA;[3] Environmental Defense, Washington, DC;[4] Harvard University, Boston, MA [5]Mayo Clinic, Rochester, MN; [6] NCEA, ORD, USEPA, Washington, DC; [7] UK Food Standards Agency, London, UK; [8] University of Nottingham, Nottingham, UK.

1:35 p.m.–2:00 p.m. **NBTS 24. Undertaking Positive Control Studies as Part of Developmental Neurotoxicity Testing.** CROFTON, K.M.[1] , J.A. FOSS[2], U. HASS[3], K. JENSEN[1], E.D. LEVIN[4], S.L. PARKER[5] [1]Neurotoxicology, NHEERL, ORD, USEPA, RTP, NC; [2]CR-DDS Argus Division, Horsham, PA; [3]Danish Institute for Food and Veterinary Research, Soborg, Denmark; [4]Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, NC, [5]OrbusMedical Technologies, Fort Lauderdale, FL

2:00 p.m.–2:25 p.m. **NBTS 25. Identification and Interpretation of Treatment-Related Effects in Developmental Neurotoxicity (DNT) Testing.** TYL, R.W.,[1] S. BRIMIJOIN*,[2], A. MORETTO[3], L. SHEETS[4], T. SOBOTKA[5], and E. MENDEZ.[6] [1]RTI, Research Triangle Park, NC., [2]Mayo Clinic, Rochester, MN, [3]University of Padua, Italy; [4]Bayer CropScience, Stilwell KS; [5]FDA CFSAN, Laurel MD; [6]US EPA, OPP, Arlington, VA.

2:25 p.m.–2:40 p.m. Break

2:40 p.m.–3:05 p.m. **NBTS 26. Framework for Determining Normal Variability for Endpoints Measured in a Developmental Neurotoxicity Test.** Raffaele, K.C.*,[1], E. Fisher[2], S. Hancock[3], K.P. Hazelden[4], and S.K. Sobrian[5]. [1]HED, OPP, US EPA, Washington DC, [2]DNDP, CDER, FDA, Rockville, MD, [3]Health Canada, Ottawa, Canada, [4]Huntingdon Life Sciences, East Millstone, NJ, USA, [5]Howard University College of Medicine, Washington D.C.

3:05 p.m.–3:30 p.m. **NBTS 27. Statistical Issues and Techniques Appropriate for Developmental Neurotoxicity (DNT) Testing.** HOLSON, R.R.[1], L.L. FRESHWATER*,[2], J.P. MAURISSEN[3], V.C. MOSER[4], and W. PHANG*[5]. [1]New Mexico Tech, Socorro, NM; [2]BioSTAT Consultants, Portage, MI; [3]The Dow Chemical Company, Midland, MI; [4]NTD, NHEERL, USEPA, Research Triangle Park, N.C.; [5]OPP/OPPTS, USEPA, Washington, D.C.

3:30 p.m.–5:30 p.m. NBTS BUSINESS MEETING
INDIAN KEY AND BIRD KEY ROOMS

5:30 p.m.–7:30 p.m. **NBTS/TS/OTIS Poster Session I and Exhibits Open**
Jacaranda Hall
Chair—Jacques Maurissen

7:30 p.m.–10:30 p.m. MARTA/MTA Student Career Event

NBTS 28. Toxicity test validation, positive controls and proficiency: are chemicals necessary? MAURISSEN, J.P. [a] and B.R. MARABLE[b], Neurotoxicology, [a]The Dow Chemical Company, Midland, Michigan and [b]Syracuse Research Corporation, Syracuse, N.Y.

NBTS 29. Prenatal cocaine exposure-induced changes in the expression of dopamine receptor-signaling genes in the mouse cerebral cortex. HE, F.*, S.I. NOVIKOVA*, J. BAI*, M.S. LIDOW. Dept, of Biomed. Sci., University of Maryland, Baltimore, MD.

NBTS 30. Harmful effects of perinatal omega-3 fatty acid deficiency and excess on the neurodiagnostic auditory brainstem response (ABR): Preliminary results. CHURCH, M.W. and K-L.C. JEN*. Dept. Ob/Gyn and Nutrition and Food Sci., Wayne State Univ., Detroit, MI.

NBTS 31. Intergenerational effects of chronic and intermittent cocaine exposure on maternal behavior in next generation non-lactating offspring. MCMURRAY, M.S., A. HASLUP*, R. MIRZA*, T. JARRETT*, C. WALKER*, T. RODRIGUES*, V. HOFLER, and J.M. JOHNS. Department of Psychiatry, University of North Carolina, Chapel Hill, N.C.

NBTS 32. Confounding Effects of Prepulse Stimulus Intensity and Frequency Type on Prepulse Inhibition in Scopolamine Treated Rats. ANDRUS, A.K.[a,b], B.R. MARABLE[c], G.L. DUNBAR[b,*], M.P. REILLY[b,*], and J.P.J. MAURISSEN[a,b]. [a]Toxicology and Environmental Research and Consulting, The Dow Chemical Company, Midland, Michigan. [b]Department of Psychology, Central Michigan University, Mt. Pleasant, Michigan. [c]Syracuse Research Corporation, Syracuse, N.Y.

NBTS 33. Iron (Fe) deprivation and infant behavior in monkeys; prenatal vs postnatal effects during the first three months of life. GOLUB, M.S., C.E. HOGREFE*, S.L. GERMANN, and J.P. CAPITANIO*. California National Primate Research Center, Davis, CA.

Travel Award Recipient

NBTS 34. Multiple toxic effects of in utero exposure to DEHP. MCFADDEN*, H.G., SAHAY*, N., and PIZZI, W.J. Northeastern Illinois University, Chicago, IL.

NBTS 35. Cocaine exposure limited to early pregnancy in rats produces lasting impairment in selective attention: Evidence from extra-dimensional shift (EDS) tasks. BENEDETTO, T.L.*, S.A. BEAUDIN*, C.F. MACTU-TUS, D.A. LEVITSKY*, R.M. BOOZE, M. STRAW-DERMAN, and STRUPP, B.J. Cornell Univ., Ithaca, NY, Univ. of S. Carolina, Columbia, S.C.

NBTS 36. Adolescent Nicotine Exposure Produces Dose-Dependent Changes in Cocaine Sensitivity in Adult Rats. NOLLEY, E.P.* KELLEY, B.M., LYONS, M.D.* WILEY, A.R.* Department of Psychology, Bridgewater College, Bridgewater, VA.

NBTS 37. Neuropsychological markers of ADHD risk in substance exposed and non-exposed infants. NOLAND, J.S.; SINGER, L.T.; SHORT, E.J.*, MINNES, S.*; ARENDT, R.E., SIMPSON, K.S.* Department of Psychology and Human Development, Vanderbilt Kennedy Center, Vanderbilt University, Nashville, Tennessee; Department of Pediatrics, Case Western Reserve University, Cleveland, OH.

NBTS 38. Developmental outcome of children prenatally exposed to carbamazepine. JANULEWICZ, P.[1], ADAMS, J.[1], HOLMES, L.B.[2], AND DHILLON, R.*[2]. [1]Psychology, Univ. of Massachusetts Boston, [2]Genetics and Teratology, Mass General Hospital, Boston, MA.

NBTS 39. Succimer chelation normal-izes emotion regulation in lead-exposed rats: Evidence from an olfactory conditional association task. BEAUDIN, S.A., STANGLE, D.E.[1], STRAWDERMAN, M.S.[1], SMITH, D.[2], LEVITSKY, D.A.[1], and STRUPP, B.J.[1*] [1]Cornell University, Ithaca, NY, [2] University of California, Santa Cruz, CA.

NBTS 40. Prenatal cocaine exposure up-regulates caspase-3 in noradrenergic locus coeruleus neurons. DEY, S.*, BOOZE, R.M., MACTUTUS, C.F., and SNOW, D.M., Univ. of Kentucky, Lexington, KY, and USC, Columbia, S.C.

NBTS 41. Cocaine exposure throughout gestation results in decreased sensitivity to cocaine in adulthood: effects on timing behavior in rhesus monkeys. PAULE, M.G.[1,2], CHELONIS, J.J.*[1,2,3], GILLAM, M.P.*[1] and GRAHAM, S.A.*[2]. [1]Division of Neurotoxicology, National Center for Toxicological Research, Jefferson, Arkansas, [2]Dept Pediatrics, Arkansas Children's Hospital and [3]U. Arkansas Little Rock, Little Rock, AR.

Tuesday, June 28, 2005

8:30 a.m.–4:00 p.m. NBTS Registration
GRAND PALM COLONNADE—EAST SIDE

8:30 a.m.–11:30 a.m. **NBTS Platform Session II**
Chair—Joe Tizzano
INDIAN KEY AND BIRD KEY ROOMS

8:30 a.m.–8:50 a.m. **NBTS 42. Analysis of the behavioral and neurochemical consequences of (±)3,4-methylenedioxymethamphetamine (MDMA or "ecstasy").** PIPER, B.J., J.B. FRAIMAN*, C.B. OWENS*, and J.S. MEYER. Neuroscience and Behavior Program, Department of Psychology, University of Massachusetts, Amherst, MA.

8:50 a.m.–9:10 a.m. **NBTS 43. Induction of the immediate-early gene Egr-1 by MDMA in neonatal rats.** MEYER, J.S.[1] and A. HSU*[2]. [1]Neuroscience and Behavior Program, University of Massachusetts, Amherst, Massachusetts, and [2]Neuroscience and Behavior Program, Mt. Holyoke College, South Hadley, MA.

9:10 a.m.–9:30 a.m. **NBTS 44 . This Is Your (Child's) Brain on Drugs: *in utero* Exposure to a Cannabinoid Agonist Affects Dendritic Morphology of Hippocampal CA1 Neurons in the Young Rat.** MERVIS, R.F[1,2], BERBERI, N.[3*], BACHSTETTER, A.[2*], CASSANO T [4*], MORGESE, M.G [4 *], GAETANI, S[5*] and V. CUOMO[5*]. [1]Ctr for Aging and Brain Repair, Dept Neurosurgery., Univ. South Florida College of Medicine, Tampa, FL; [2]NeuroStructural Research Labs, Tampa, FL; [3]Honors College, Univ of South Florida, Tampa, Fl.; [4]Univ Foggia, Italy; [5] Univ La Sapienza Rome, Italy

9:30 a.m.–9:50 a.m. **NBTS 45. Metallothionein Expression and Developmental Exposure to Mercury: Effects on Learning in Mice.** LEVIN, E.D., D. EDDINS*, A. PETRO*, N. POLLARD*, C. PERRAUT* and J.H. FREEDMAN*. Dept. of Psychiatry, Nicholas School of Environ. and Earth Sci., Duke University, Durham, N.C.

9:50 a.m.–10:10 a.m. BREAK

10:10 a.m.–10:30 a.m. **NBTS 46. Reversal of heroin neurobehavioral teratogenicity by grafting of neural progenitors.** J. YANAI[1,2], T. BEN-HUR[3], T.A. SLOTKIN[2] and S. KATZ[1]., [1]Ross Lab. for Neural Birth Defects, Dept. Anat. and Cell Biol., [3]Dept. Neurol, Hadassah Hebrew U.- Med. Sch., Jerusalem, Israel; [2]Dept. Pharmacol. and Cancer Biol. Duke Med. Ctr., N.C., USA.

10:30 a.m.–10:50 a.m. **NBTS 47. Alterations in stress-associated behaviors and neuromarkers in adult rats after neonatal carrageenan injection of a hindpaw.** LIDOW, M.S., ANSELONI V.C.Z*, HE, F.*, NOVIKOVA, S.I.* and LIDOW, I.A.*, Dept. of Biomed. Sci., University of Maryland, Baltimore, MD.

10:50 a.m.–11:10 a.m. **NBTS 48. Thyroid Hormone Insufficiency: Persistent Deficits in Brain Structure and Function.** M. E. GILBERT, Neurotoxicology Division, NHEERL, ORD, US EPA, RTP, North Carolina.

11:10 a.m.–11:30 a.m. **NBTS 49. Consequences of Bullying During Puberty.** NEWMAN, M.L., and Y. DELVILLE*. Department of Psychology, University of Texas at Austin, Austin, TX.

11:30 a.m.–1:30 p.m. **NBTS/TS POSTER SESSION II** and Exhibits Open
(Posters set-up 9:00 a.m.–1:30 p.m. and attended 11:45 a.m.–1:15 p.m.)
Jacaranda Hall
Chair—Brian Kelley

Travel Award Recipient

NBTS 50. Effect of low-dose acrylamide exposure on preweaning behavior of Fisher 344 rats. GAREY, J., FERGUSON, S.A. AND PAULE, M.G. Division of Neurotoxicology, National Center for Toxicological Research/FDA, Jefferson, AR.

NBTS 51. A single administration of ketamine produces an inflammatory response in the developing rat brain. WRIGHT, L.K.M.[1*], TWADDLE, N.[2*], BRANHAM, W.[3*], WANG, C.[1*], SCHMUED, L.C.[1*], PATTERSON, T.A.[1*] and PAULE, M.G.[1]. Divisions of [1]Neurotoxicology and [2]Biochemical Toxicology and [3]Center for Functional Genomics, National Center for Toxicological Research, Jefferson, AR.

Travel Award Recipient

NBTS 52. Neonatal hippocampal Tat injections: Effects on prepulse inhibition (PPI). FITTING, S.*, BOOZE, R.M., WU, G., and MACTUTUS, C.F. Beh. Neurosci. Prgm., USC, Columbia, SC.

NBTS 53. Prenatal Cocaine Exposure: Dose-Dependent Increase in Intentional Tremor. BROWN, L.M.*, BOOZE, R.M., STRUPP, B.J., SNOW, D.M., and MACTUTUS, C.F., Behav. Neurosci. Prgm. USC, Columbia, SC.

NBTS 2005 New Investigator Award—Lori L. Driscoll

NBTS 54. Early postnatal exposure to DE-71 produces lasting effects on learning in a visual discrimination task. DUFAULT, C.,* POLES, G.* and DRISCOLL, L.L. Dept. of Psychology, Colorado College, Colorado Springs, CO.

NBTS 55. Similarities in Methylphenidate Sensitivity and Reward Were Observed in Adolescent Mice and Adult Mice Exposed to Nicotine During Adolescence. KELLEY, B.M., NOLLEY, E.P.* BINNS, D.L.,* CLARKE, R.,* WADSWORTH, S.H.* Department of Psychology, Bridgewater College, Bridgewater, Virginia.

NBTS 56. Blood and Brain Mercury Levels in Infant Monkeys Exposed to Methylmercury or Vaccines Containing Thimerosal. BURBACHER, T.M.[a,c,d], SHEN, D.D.*[b], LIBERATO, N.A.*[a,c,d], GRANT, K.S.[a,c,d], CERNICHIARI, E.*[e], and CLARKSON, T.*[e]. Department of Environmental and Occupational Health Sciences,[a] School of Public Health and Community Medicine, Departments of Pharmacy and Pharmaceutics [b], School of Pharmacy, Washington National Primate Research Center,[c] and Center on Human Development and Disability,[d] University of Washington, Seattle, WA. , Department of Environmental Medicine[e] , University of Rochester School of Medicine, Rochester, N.Y.

2:00 p.m.–5:00 p.m. **NBTS Platform Session III**
INDIAN KEY AND BIRD KEY ROOMS
Chairs—Gregg Stanwood and Lynn Singer

2:00 p.m.–2:20 p.m. **NBTS 57. Growth Trajectories of Children Prenatally Exposed to Cocaine to Age 6 Years.** H.L. KIRCHNER*, S. MINNES*, Y. IBRAHIM*, E. SHORT*, L.T. SINGER. Case Western Reserve University, Departments of Pediatrics, General Medical Sciences, and Psychology, Cleveland, OH.

2:20 p.m.–2:40 p.m. **NBTS 58. Preweaning cocaine alters acquisition of active avoidance in the adult male Sprague-Dawley rat.** MELNICK, S.M.[1], J.R. MYRIE[2]* and D.L. DOW-EDWARDS, Physiology/Pharmacology, SUNY Downstate Medical Center, Brooklyn, N.Y., [1]SK Bio-Pharmaceuticals, Fairfield, N.J. [2]Memorial Sloan Kettering Cancer Center, New York, N.Y.

2:40 p.m.–3:00 p.m. **NBTS 59. Prenatal intravenous (IV) cocaine: Cell loss in the locus coeruleus (LC).** MACTUTUS, C.F., U. HASSELROT*, S. FITTING, S. ADAMS, D.M. SNOW, B.J. STRUPP and R.M. BOOZE, Beh. Neurosci. Prgm. USC, Columbia, SC; Anat. and Neurobiol. UKY, Lexington, KY; Dept Psych., Cornell Univ., Ithaca, NY.

3:00 p.m.–3:15 p.m. Break

3:15 p.m.–3:35 p.m. **NBTS 60. Correlations of brain glucose metabolic rates and behavior in adolescent rats exposed to prenatal cocaine and subsequent methylphenidate administration.** TORRES-REVERON A. and D.L. DOW-EDWARDS. Department of Physiology and Pharmacology and Program in Neural and Behavioral Science, SUNY Downstate, Brooklyn, New York.

3:35 p.m.–3:55 p.m. **NBTS 61. *In utero* cocaine exposure permanently alters behaviorally relevant brain circuits.** STANWOOD, G.D., B.L. THOMPSON*, and P. LEVITT* Dept. Pharmacology and Vanderbilt Kennedy Center, Vanderbilt University, Nashville, TN.

3:55 p.m.–4:15 p.m. **NBTS 62. Self-Reported Mental Health Symptoms Of 9-Year Old Prenatally Cocaine-Exposed Children.** L.T. SINGER, S. MINNES*, T. LINARES*, E. SHORT*, S. SATAYATHUM*, H.L. KIRCHNER*. Case Western Reserve University, Departments of Pediatrics, Psychology, and General Medical Sciences, Cleveland, OH.

4:15 p.m.–4:30 p.m. Discussion

4:30 p.m.–11:00 p.m. Free Evening—Group Social Event