ISDP Annual Meeting
Catamaran Resort Hotel & Spa
San Diego, CA, USA
November 9-11, 2016

49TH ANNUAL MEETING
CONFERENCE PROGRAM
INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY

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NASA Ames Research Center

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The ISDP would like to express our appreciation for the financial support from the following organizations.

Thank you to our ISDP2016 Sponsors:

- **WILEY**
- **NIH** National Institutes of Health
  - Office of Behavioral and Social Sciences Research
- **NIH** Eunice Kennedy Shriver National Institute of Child Health and Human Development
  - Health research throughout the lifespan
- **NIH** National Institute on Alcohol Abuse and Alcoholism
  - NIH...Turning Discovery Into Health®
- **Nurture Science Program** Columbia University Medical Center
- **The Sackler Institute for Developmental Psychobiology** Columbia University College of Physicians & Surgeons
## 2016 ISDP Travel Award Recipients

<table>
<thead>
<tr>
<th>Awardee</th>
<th>Institution</th>
<th>Advisor</th>
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<td>Sarah Altmann</td>
<td>Univ of New South Wales</td>
<td>Rick Richardson</td>
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<td>Yira Argumedo</td>
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<td>Gale A. Klevin</td>
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<td>7:00-9:00</td>
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<td>8:00-8:30</td>
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<td>8:30-10:15</td>
<td>Oral Session 1: Socio-Emotional and Motor Development</td>
<td>9:00-10:15</td>
<td>Oral Session 4: Stress</td>
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<td>Mid-Morning Break</td>
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<td>12:30-2:30</td>
<td>Wiley Editorial Board Meeting</td>
<td>12:30-2:20</td>
<td>Lunch Workshop: Funding Opportunities from NIH and NSF</td>
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<td>3:45-4:00</td>
<td>Afternoon Break</td>
<td>4:00-4:15</td>
<td>Sackler Symposium: Bridging the Gap Between Animal and Human Research to Better Understand Environment, Behavioral, and Neural Mechanisms Regulating Resiliency and Adaptation to Early-Life Adversity</td>
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<td>4:00-5:00</td>
<td>Mini-Symposium: Emotion and Memory Across Development</td>
<td>4:15-5:15</td>
<td>Presidential Address</td>
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<td>5:30-7:30</td>
<td>Poster Session 1</td>
<td>5:30-7:30</td>
<td>Symposium: How Carolyn Rovee-Collier Shifted Our View of Infant Learning and Memory</td>
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<td>8:00-10:00</td>
<td>Student Social</td>
<td>7:00-9:00</td>
<td>ISDP Reception – open to SFN attendees</td>
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**Symposium: Biopsychosocial Processes in the Emerging Relations Between Attention and Negative Affect in Infancy and Childhood**

- V. LoBue
- K. Pérez-Edgar
- K. Bussa
- N. Fox

**Mini-Symposium: Mother’s Hormonal and Behavioral Influences on Child Behavioral Outcomes**

- K. Voegtline
- K. D’Anna-Hernandez
- L. Hibel
- C. McDonnell

**Wiley Distinguished Speaker:**

- Sex Differences in Microglial Transcriptional and Morphological Development:
  - Implications for Health and Disease
  - S. Bilbo

**Mini-Symposium: Parent-Child Relationships in Psychobiological Context**

- D. Saxbe
- M. Crowley
- J. Borelli

**Symposium: How Carolyn Rovee-Collier Shifted Our View of Infant Learning and Memory**

- K. Cuevas
- P. Gernhardstein
- A. Joh
- R. Barr

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**Oral Session 3: Learning, Memory, & Cognition**

- Sandra G. Wiener Award - P.A. Robinson-Drummer
- Kucharski Young Investigator Award - K. Baker

**Mini-Symposium: Parent-Child Relationships in Psychobiological Context**

- D. Saxbe
- M. Crowley
- J. Borelli
Note: All oral presentations will be held in the Aviary Ballroom on the 2nd floor. All posters sessions will be held in the Rousseau Suite on the 1st floor.
**Tuesday, November 8**

6:00-8:00 ISDP REGISTRATION – Aviary Ballroom

9:45-10:00 INTERRELATION OF SOCIAL-EMOTIONAL AND METABOLIC PHENOTYPES IN MICE ACROSS DEVELOPMENT
C. Harshaw, J. Leffel, & J.R. Alberts

10:00-10:15 ENVIRONMENTAL ENRICHMENT THERAPY FOR AUTISM: OUTCOMES WITH INCREASED ACCESS
M. Leon, E. Aronoff, and R. Hillyer

**Wednesday, November 9**

8:00-5:00 ISDP REGISTRATION

8:00-8:30 CONTINENTAL BREAKFAST

8:30 OPENING REMARKS: April Ronca, President

8:30-10:15 ORAL SESSION 1: SOCIO-EMOTIONAL AND MOTOR DEVELOPMENT
Chair: Natalie Brito

8:30-8:45 DAMPENED BOLD ACTIVATION TO LIFE THREAT FEAR IN PRAIRIE VOLE FATHERS

8:45-9:00 PREPARED FOR PREJUDICE? 6-MONTH-OLD INFANTS SELECTIVELY ASSOCIATE ETHNIC OUT-GROUP FACES WITH FEARFUL VOCALIZATIONS
D. Butler, Y. Kanakogi, M. Imafuku, D. Cowan, M. Nielsen, S. Kennedy, & M. Myowa-Yamakoshi

9:00-9:15 ODOR-INDUCED CRAWLING LOCOMOTION IN THE NEWBORN RAT: STEPPING PATTERNS AND VARIABILITY OF INTERLIMB COORDINATION
V. Mendez-Gallardo, V. Nalluri, & S.R. Robinson

9:15-9:30 NEONATAL IMITATION PREDICTS SOCIALITY IN ONE-YEAR-OLD RHEBUS MACAQUES

9:30-9:45 EFFECT OF PARENTAL DRINKING BEHAVIOR ON PRE-ADOLESCENTS' AFFECT AND ATTENTIONAL BIAS TO ALCOHOL-RELATED CUES
C.A. Forestell, L.A. Collier, & C.L. Dickter

10:00-10:15 MEASURING BIASED ATTENTION TO THREAT IN INFANCY
V. LoBue

11:00-11:25 NEURAL SUBSTRATES OF ATTENTION BIASES TO THREAT IN RISK FOR PEDIATRIC ANXIETY
K. Pérez-Edgar, S. Morales, N. Thai, E. Auday, X. Fu, & B. Taber-Thomas

11:25-11:50 VIGILANCE AND AVOIDANCE IN CHILDREN WITH DYREGULATED FEAR
K. A. Buss, S. Morales, & R. J. Brooker

11:50-12:15 DISCUSSION
N. Fox

12:15-12:30 LUNCH BREAK

**Wiley Editorial Board Meeting**

12:30-2:30 WILEY EDITORIAL BOARD MEETING

**Oral Session 2: Maternal Factors**

Chair: Eliza Nelson

2:30-3:45 DOES MATERNAL SEPARATION IN GUINEA PIG PUPS RESULT IN SENSITIZATION OF A DEPRESSIVE-LIKE STATE?
M.B. Hennessy, A.D. Schreibis, P.A. Schiml, & T. Deak

*Bold* denotes travel award recipient.

**NOTE:** All oral presentations will be in the Aviary Ballroom.
Poster Sessions will be in the Rousseau Suite.
2:45-3:00  PRENATAL STRESS EXPOSURE PREDICTS 6-YEAR-OLDS’ STRESS REGULATION: DISENTANGLING MATERNAL DEPRESSION AND EXPOSURE TO ANTIDEPRESSANTS

3:00-3:15  THE RELATIONSHIPS BETWEEN GESTATIONAL SRI EXPOSURE, SRI BIOEFFECT, AND INFANT NEUROBEHAVIORAL OUTCOMES
A.L. Salisbury, G.M. Anderson, C.L. Miller-Loncar, & J.A. Mattera

3:15-3:30  DIFFERENCES IN MATERNAL TREATMENT OF GENETICALLY ALTERED MOUSE NEONATES DEPENDS ON LITTER FOSTER CONFIGURATION INDEPENDENT OF GENOTYPE
G.A. Kleven, C.M. Estrada, Y.M. Argumedo, & N. Kovar

3:30-3:45  EFFECTS OF EARLY CHILDHOOD PARENTING BEHAVIORS ON LATE CHILDHOOD NEURAL FUNCTIONING

3:45-4:00  AFTERNOON BREAK

4:00-5:00  MINI-SYMPOSIUM: EMOTION AND MEMORY ACROSS DEVELOPMENT
Chair: Despina Ganella

4:00-4:15  EXTINCTION-RESISTANT METH EXPERIENCE DURING ADOLESCENCE: GENOME-WIDE TRANSCRIPTOME ANALYSIS FOLLOWING METHAMPHETAMINE SELF-ADMINISTRATION
J.H. Kim, H.B. Madsen, V.M. Perreau, I.C. Zbukvic, A.J. Lawrence, & S.J. Luikinga

4:15-4:30  NEURODEVELOPMENTAL CORRELATES OF FEAR EXTINCTION: AN FMRI INVESTIGATION IN HUMAN ADOLESCENTS AND ADULTS
S.L. Whittle, D.E. Ganella, E. Ganella, & J.H. Kim

4:30-4:45  THE NEUROCIRCUITRY OF FEAR EXTINCTION IN THE DEVELOPING RAT

4:45-5:00  THE NEUROENVIRONMENTAL LOOP OF PLASTICITY: PARENTAL & PERIPHERAL REGULATION OF EMOTION NEUROBIOLOGY ACROSS THE LIFESPAN

5:30-7:30  POSTER SESSION 1 (RECEPTION & CASH BAR)

1. FAMILY NURTURE INTERVENTION MITIGATES ASSOCIATION BETWEEN PLACENTAL ABNORMALITIES AND EARLY BRAIN ACTIVITY OF PRETERM INFANTS
**M.R. Firestein**, P.G. Grieve, M.M. Myers, & M.G. Welch

2. THE ASSOCIATIONS BETWEEN MATERNAL ACCULTURATIVE STRESS AND ANXIETY SYMPTOMS ON MATERNAL AND INFANT HAIR CORTISOL
**A. Preciado** & K.L. D’Anna-Hernandez

3. PREVIOUS MATERNAL STRESS LEADS TO IMPAIRED MATERNAL BUFFERING IN SUBSEQUENT INFANT RAT OFFSPRING
**J.M. Kan** & R. Richardson

4. LONGITUDINAL AND CONTEXTUAL STABILITY OF CORTISOL AND ALPHA-AMYLASE IN INFANTS FROM 6 TO 12 MONTHS AND THEIR MOTHERS
K. de Barbaro, A. Chiba, S. Khandrika, C. Zavala, & G.O. Dek

5. PRENATAL EXPOSURE TO MATERNAL CULTURAL STRESSORS IN RELATION TO NEWBORN HEALTH OUTCOMES IN INFANTS OF MEXICAN DESCENT

6. EPIGENETIC ALTERATIONS AND THEIR PHENOTYPIC CORRELATES IN AN ANIMAL MODEL OF CAREGIVER MALTREATMENT
**T.S. Doherty**, S.M. Keller, J. Blaze, & T.L. Roth

7. Moved to poster session 2.

8. DEFICIENT FRONTO-STRIATAL ACTIVATION AS AN EARLY BIO-MARKER FOR BULIMIA NERVOSA
**M. Cyr**, X. Yang, G. Horga, & R. Marsh


10. COMPENSATORY CROSS-SYSTEM ACTIONS IN PARASYMPATHETIC AND SYMPATHETIC RESPONDING TO ANGER
**S. Kahle**, J. G. Miller, & P.D. Hastings

11. NEUROENDOCRINE FACTORS DISTINGUISH JUVENILE PSYCHOPATHY VARIANTS
E.R. Kimonis, N. Goulter, D.J. Hawes, R.R. Wilbur, & M.W. Groer

12. LOW CORTISOL MODERATES THE EFFECT OF TESTOSTERONE ON REACTIVE AGGRESSION AMONG YOUNG WOMEN WITH CALLOUS-UNEMOTIONAL TRAITS
N. Goulter, E. R. Kimonis, T. F. Denson, & D. P. Begg
13. MATERNAL POSTPARTUM DEPRESSIVE SYMPTOMS AFFECT INFANT ATTENTION TO SAD FACES
   D.A. Swales*, L. Berger, L. Gulley, B. Hankin, & E. Davis

14. ASTHMA DURING ADOLESCENCE CONTRIBUTES TO ADULT ANXIETY BEHAVIOR AND NEUROBIOLOGICAL PHENOTYPE
   J.I. Caulfield*, M.J. Caruso, R.A. Bourne, & S.A. Cavigelli

15. DIFFERENTIAL BEHAVIORAL AND MOLECULAR CONSEQUENCES OF POSTNATAL AND JUVENILE FLUOXETINE TREATMENT
   M. Maheshwari*, P. Chachra, & V.A. Vaidya

16. TRANSGENERATIONAL EFFECTS OF PRECONCEPTIONAL STRESS & GESTATIONAL ANTIDEPRESSANT EXPOSURE
   A.M. Suleiman* & S. Brummelte

17. AGE-DEPENDENT EFFECTS OF CHRONIC ELECTROCONVULSIVE SEIZURE (ECS) TREATMENT
   S. Ghosh*, M. Jaggar, M. Maheshwari, & V.A. Vaidya

18. SEROTONIN MODULATES MITOCHONDRIAL BIOGENESIS AND FUNCTION IN CORTICAL NEURONS

19. POSTPARTUM FLUOXETINE EXPOSURE AND EXERCISE INTENSITY DIFFERENTIALLY AFFECT MATERNAL BEHAVIOR AND HIPPOCAMPAL NEUROGENESIS IN A RAT MODEL OF POSTPARTUM STRESS

20. BEHAVIORAL EFFECTS OF PRENATAL AND POSTNATAL KETAMINE EXPOSURE IN RHESUS MACAQUE INFANTS ARE DEPENDENT ON MAOA GENOTYPE
   J. Herrington*, L. Del Rosso, & J. Capitanio

21. EFFECTS OF LATE GESTATIONAL CANNABINOID EXPOSURE ON BEHAVIORAL DEVELOPMENT IN RATS
   K.R. Breit*, B. Zamudio, & J.D. Thomas

22. SOMATOSTATIN INTERNEURONS AFFECTED IN ADULT BUT NOT ADOLESCENT VENTRAL STRIATUM AFTER METHAMPHETAMINE SELF-ADMINISTRATION
   S.J. Luikinga*, H.B. Madsen, I.C. Zbukvic, A. J. Lawrence, & J.H. Kim

23. GONADAL HORMONES MEDIATE MATERNAL CARE-PROGRAMMING OF ETHANOL-USE BEHAVIORS
   D.O. Popoola* & N.M. Cameron

24. RELATION BETWEEN SPATIAL REORIENTATION AND HIPPOCAMPAL-DEPENDENT LEARNING AND MEMORY IN YOUNG CHILDREN
   V. Vieites*, S. Pruden, & B.C. Reeb-Sutherland

25. VIDEO MODELING AND IMITATION IN CHILDREN WITH ASD: PRELIMINARY ANALYSES
   A. Learmonth, R. Barr, P. Gerhardstein, E. Janerhofer, J. Napolitano, A. Blazkiewicz, M. Lui, & N. Strautman

26. LASTING MEMORIES: FACILITATING CONTEXT FEAR IN INFANT RATS THROUGH BEHAVIOURAL TAGGING
   S.E. Bae* & R. Richardson

27. FACTORS INFLUENCING DEVELOPMENTAL DIFFERENCES IN RETENTION OF PAVLOVIAN FEAR CONDITIONING
   K.L. Brown*, M.J. Sodoma, & J.H. Freeman

28. EFFECTS OF EARLY POSTNATAL UNDERNUTRITION ON AFFECTIVE BEHAVIOR, CONDITIONED FEAR ACQUISITION AND EXTINCTION, AND HIPPOCAMPAL NEUROGENESIS IN MALE AND FEMALE SPRAGUE DAWLEY RATS
   R.M. De Guzman*, L.M. Colon, A.M. Poulos, & J.L. Workman

29. CONSISTENT PRESCHOOL HAND PREFERENCE PREDICTS LANGUAGE SKILLS AT 5 YEARS OF AGE

30. BIMANUAL ACQUISITIONS DIFFER ACCORDING TO INFANT HAND PREFERENCE GROUP
   E.C. Marcinowski*, J. M. Campbell, & G.F. Michel

31. COORDINATED MOVEMENT IS INFLUENCED BY PRENATAL LIGHT EXPERIENCE IN BOBWHITE QUAIL HATCHLINGS (COLINUS VIRGINIANUS)
   S.C. Belnap* & R. Lickliter

32. ROBOTIC HENS: MOVEMENT INFLUENCES BOBWHITE QUAIL CHICKS’ SOCIAL PREFERENCES (COLINUS VIRGINIANUS)
   P. Velasquez*, S. C. Belnap, & R. Lickliter

33. LITTER CHARACTERISTICS AND NEWBORN SENSORIMOTOR FUNCTION IN A RAT MODEL OF SPINA BIFIDA

34. EFFECTS OF TREADMILL SPEED ON TAIL-PINCH-INDUCED STEPPING BEHAVIOR IN THE NEONATAL RAT
   N. Devine*, R.B. Kempe, & M.R. Brumley

35. MOTHER-INFANT DYAD TOUCH BEHAVIOR DURING POSTURE AND LOCOMOTION IN 8- TO 16-MONTH OLD HUMAN INFANTS
36. MATERNAL BIAS IN PERCEPTION OF INFANT AFFECT PREDICTS DECREASED HEART RATE DIFFERENTIATION BETWEEN CRYING AND LAUGHING STIMULI
   S. Kuzava*, A. Frost, & K. Bernard

37. INVESTIGATING PHYSIOLOGICAL ALLOSTATIC LOAD EFFECTS ON PEER PROBLEMS IN KINDERGARTEN
   C.E. DePasquale*, C.E. Pitula, S.B. Milner, & M.R. Gunnar

38. NEURAL PREDICTORS OF TRAJECTORIES OF ATTENTIONAL CONTROL AND EMOTION REGULATION
   N.B. Perry*, M.M. Swingler, S.D. Calkins, & M. Bell

39. TIMING MATTERS: THE INTERVAL BETWEEN ACUTE STRESSORS WITHIN CHRONIC STRESS AFFECTS BEHAVIORAL AND PHYSIOLOGICAL OUTCOMES

40. STRESS DURING THE PUBERTAL PERIOD EXERTS SEX-SPECIFIC EFFECTS ON BEHAVIOR IN ADULT RATS
   J. Willing*, C.M. Drzewiecki, L.R. Cortes, & J.M. Juraska

41. TAKING THE STRESS OUT OF THE STORM: PROBIOTICS PREVENT SEX-DEPENDENT CHANGES IN PUBERTAL TIMING IN RATS EXPOSED TO EARLY-LIFE STRESS
   C.S.M. Cowan* & R. Richardson

42. THE ROLE OF PUBERTY ON SYNAPTIC PRUNING WITHIN THE MEDIAL PREFRONTAL CORTEX OF MALE AND FEMALE RATS
   C.M. Drzewuecki*, J. Willing, & J.M. Juraska

43. LIPOPOLYSACCHARIDE-INDUCED CHANGES IN ADOLESCENT PREFRONTAL CORTEX AMPA RECEPTORS AFTER EARLY LIFE STRESS
   P. Ganguly* & H.C. Brenhouse

44. WHEN LARVAL NUTRITION IS LIMITED, ADULT DROSOPHILA SACRIFICE VISUAL ACUITY TO MAINTAIN CONTRAST SENSITIVITY
   J.P. Currea*, J. Smith, & J.C. Theobald

45. BREAKING THE 4TH WALL: USING CLOSED-CIRCUIT TV & EYE-TRACKING TO PARSE THE VIDEO DEFICIT
   A. Moser*, S. Olsen, D. Hipp, S. Rusnak, R. Barr, & P. Gerhardstein

46. DEVELOPMENTAL DIFFERENCES IN CHILDREN'S SELF-RECOGNITION OF OPTIC FLOW
   M.A. Taylor & M. Jaime

47. NEURAL CORRELATES OF EXECUTIVE FUNCTION IN PRESCHOOL CHILDREN: ASSOCIATIONS WITH ACADEMIC SCHOOL READINESS
   M.M. Swingler, S.E. Halliday, S.D. Calkins, & E.M. Leerkes

48. ASSOCIATIONS BETWEEN NEUROBEHAVIORAL AND EEG MEASURES AT 9 AND 15 MONTHS OF AGE

49. PRENATAL PROGRAMMING OF POSTNATAL PLASTICITY: AN ANIMAL MODEL
   S. Hartman*, K.L. Bales, & J. Belsky

50. OXYTOCIN RECEPTOR DISTRIBUTION IN THE PRAIRIE VOLE (MICROTUS OCHROGASTER) NEOCORTEX
   A.M.H Seelke, A. Duchemin, T.C. Simmons, S.M. Freeman, & K.L. Bales

51. EFFECTS EARLY LIFE STRESS ON PARVALBUMIN POSITIVE NEURON MATURATION AND CIRCUIT DEVELOPMENT
   G. Manzano-Nieves* & K.G. Bath

52. NEONATAL PAIN AND REDUCED MATERNAL CARE INTERACT TO IMPACT BRAIN DEVELOPMENT
   S. M. Mooney-Leber* & S. Brummelte

8:00-10:00 STUDENT SOCIAL
Thursday, November 10

7:00-9:00 BOARD MEETING – Suite 308

8:30-9:00 CONTINENTAL BREAKFAST

9:00-10:15 ORAL SESSION 2: LEARNING, MEMORY, & COGNITION
Chair: Amanda Dettmer

9:00-10:15 PREVIOUS INSTITUTIONALIZATION IS FOLLOWED BY BROADER AMYGDALA-HIPPOCAMPAL-PFC NETWORK CONNECTIVITY DURING AVERSIVE LEARNING IN HUMAN DEVELOPMENT

9:15-9:30 NEONATAL MERCURY EXPOSURE ALTERS HIPPOCAMPUS-DEPENDENT MEMORY AND ANXIETY IN RATS
P.S. Hunt

9:30-9:45 EXAMINING PATHWAYS BETWEEN NEONATAL AUTONOMIC MEASURES AND LATER LANGUAGE SKILLS DURING INFANCY

9:45-10:00 MECHANISMS FOR A DEVELOPMENTAL CRITICAL PERIOD OF HIPPOCAMPAL LEARNING
A. Travaglia, R. Bisaz, E.S. Sweet, R.D. Blitzer, & C.M. Alberini

10:00-10:15 INFANT COGNITION AND COMT GENOTYPE PREDICT EARLY CHILDHOOD EXECUTIVE FUNCTIONS

10:15-10:30 SANDRA G. WIENER AWARD
Patrese A. Robinson-Drummer, University of Delaware
AGE AND EXPERIENCE-DEPENDENT CHANGES IN EGR-1 EXPRESSION DURING THE ONTOGENY OF THE CONTEXT PREEXPOSURE FACILITATION EFFECT (CPFE)

10:30-10:45 DAVID KUCHARSKI YOUNG INVESTIGATOR AWARD
Kathryn D. Baker, University of New South Wales
Advisor: Rick Richardson
IMPAIRED FEAR EXTINCTION RETENTION IN ADOLESCENT RATS: PHARMACOLOGICAL EVIDENCE FOR A FAILURE TO RECRUIT NMDA RECEPTORS DURING EXTINCTION

11:00-11:30 TRAVEL AWARD 5-MINUTE PRESENTATIONS

Awardee Advisor Institution
Eric Moyer A. Ronca NASA Ames Research Center
Cassandra Hendrix N. Cameron Binghamton University
Michele Bechor J. Pettit Florida International University
Jessica Burris S.M. Rivera University of California, Davis
Isabel C. Zbukvic J.H. Kim Florey Inst of Neurosci/Mental Health
SooYeon Sun N.S. Bradley University of Southern California

11:30-12:30 MINI-SYMPOSIUM: MOTHER'S HORMONAL AND BEHAVIORAL INFLUENCES ON CHILD BEHAVIORAL
Chair: Leah Hibel

11:30-11:45 PRENATAL MATERNAL TESTOSTERONE AND INFANT BIOBEHAVIORAL REGULATION DURING THE STILL FACE PARADIGM

11:45-12:00 FETAL EXPOSURE TO MATERNAL CULTURAL STRESSORS IS ASSOCIATED WITH ADVERSE LOW BIRTHWEIGHT AND FETAL CORTISOL LEVELS IN OFFSPRING OF MEXICAN DESCENT K.L. D’Anna-Hernandez

12:00-12:15 MOTHER-INFANT BIOBEHAVIORAL RELATIONSHIPS IN STRESS AND NON-STRESS CONTEXTS L.C. Hibel

12:15-12:30 ATTUNEMENT OF MATERNAL-CHILD DIURNAL CORTISOL IS MODERATED BY CHILD MALTREATMENT C.G. McDonnell & K. Valentino

12:30-2:20 LUNCH BREAK

12:30-2:20 STUDENT LUNCH WORKSHOP: ACADEMIA & BEYOND (this event requires advance reservation & ticket)

2:20-4:00 SACKLER SYMPOSIUM: BRIDGING THE GAP BETWEEN ANIMAL AND HUMAN RESEARCH TO BETTER UNDERSTAND ENVIRONMENTAL, BEHAVIORAL, AND NEURAL MECHANISMS REGULATING RESILIENCY AND ADAPTATION TO EARLY-LIFE ADVERSITY
Chairs: Susanne Brummelte & Amanda Kentner

2:20-2:45 NEUROBEHAVIORAL IMPLICATIONS FOR EARLY EXPOSURE TO MATERNAL VOICE IN THE VERY LOW BIRTHWEIGHT PREMATURE INFANT C. Krueger
2:45-3:10  THE RAT IN THE INCUBATOR: MIMICKING NICU SETTINGS 
FOR TRANSLATIONAL STUDIES OF EARLY ADVERSITY 
S. Brummelte

3:10-3:35  THE ROLE OF NEUROENDOCRINE ALTERATIONS IN WHITE 
MATTER IN HUMAN ADOLESCENTS WITH FETAL ALCOHOL 
SPECTRUM DISORDER: SEX MATTERS 
K. Uban

3:35-4:00  THE ROLE OF ENVIRONMENTAL COMPLEXITY IN THE 
PROTECTION AND REHABILITATION AGAINST EARLY-LIFE 
ADVERSITY 
A. Kentner

4:00-4:15  AFTERNOON BREAK

4:15-5:15  PRESIDENTIAL ADDRESS 
April E. Ronca 
Perinatal Experience, Birth and Sex Differences on Earth 
and in Space

5:30-7:30  POSTER SESSION 2 (CASH BAR)

1. NATIONAL SCIENCE FOUNDATION FUNDING OPPORTUNITIES FOR 
RESEARCH IN THE DEVELOPMENTAL AND LEARNING SCIENCES 
D.S. Moore

2. NICHD CHILD DEVELOPMENT & BEHAVIORAL BRANCH (CDBB) 
FUNDING INTERESTS 
K. Mann Koepke & L. Freund

3. STRESS HISTORY AND GENETIC POLYMORPHISMS IN 
HYPOTHALAMIC-PITUITARY-ADRENAL AXIS REGULATION 
H.E. Lapp*, R.G. Hunter, & C.L. Moore

4. PARASYMPATHETIC NERVOUS SYSTEM FUNCTIONING PREDICTS 
BEHAVIORAL CHANGES IN CHILDREN EXPOSED TO EARLY LIFE 
STRESS 
K.E. Smith* & G.J. Norman

5. THE EFFECTS OF EARLY ADVERSITY ON AMYGDALA-PREFRONTAL 
CIRCUITRY DURING EMOTIONAL FACE PROCESSING IN CHILDREN 
AND ADOLESCENTS 
M. VanTieghem*, E. Telzer, L. Gabard-Durnam, L.J. Flannery, B. Goff, D.G. 
Gee, K. Humphreys, C. Caldera, M. Shapiro, J. Louie, & N. Tottenham

6. RESCUING ABERRANT MATERNAL BEHAVIOR BY ALTERING DNA 
METHYLATION 
S.M. Keller, T.S. Doherty, & T.L. Roth

7. UNPREDICTABLE VARIABLE PRENATAL STRESS ALTERS 
EXPRESSION OF GENES INVOLVED IN APPETITE CONTROL AND 
ENERGY EXPENDITURE 
E.L. Moyer*, B. Al-Shayeb, L.A. Baer, & A.E. Ronca

8. SEXUALLY-DIMORPHIC GENE EXPRESSION PATTERNS WITHIN THE 
ADULT HPA AXIS FOLLOWING UNPREDICTABLE VARIABLE PRENATAL 
STRESS 
Baer, & A.E. Ronca.

9. PHYSIOLOGICAL ATTUNEMENT IN MOTHER-INFANT DYADS AT 
CLINICAL HIGH RISK: THE INFLUENCE OF MATERNAL DEPRESSION 
AND POSITIVE PARENTING 
C.L. Hendrix*, Z.N. Stowe, D.J. Newport, & P.A. Brennan

10. ADVERSE CHILDHOOD OUTCOMES AND RISK FOR NEGATIVE 
MENTAL HEALTH OUTCOMES 
T.M. Rushe, P. Fletes-Houston, & D. Redmond

11. NEURAL CORRELATES OF ATTENTIONAL BIAS TO THREAT AMONG 
YOUTH WITH AND WITHOUT ANXIETY DISORDERS 
M. Bechor*, B. Reeb-Sutherland, M. Ramos, J. Pettit, & W. K. Silverman

12. A LONGITUDINAL EYETRACKING INVESTIGATION OF ATTENTIONAL 
BIASES TOWARDS THREAT IN EARLY CHILDHOOD 
J.L. Burris* & S.M. Rivera

13. AN INVESTIGATION OF ATTENTIONAL BIASES TOWARDS EMOTIONAL 
MALE AND FEMALE FACES 
R.N. Sims*, J.L. Burris, & S.M. Rivera

14. COGNITIVE RECRUITMENT IN YOUTH WITH ANXIETY DURING A 
SPEEDED RESPONSE TASK 
A.K. Leonard*, M.L. Ramos, M. Bechor, J.W. Pettit, & B.C. Reeb- 
Sutherland

15. ENHANCED ERROR MONITORING AND ATTENTIONAL CONTROL 
ABILITY IN YOUTH WITH AND WITHOUT ANXIETY 
M.L. Ramos*, M. Bechor, J.W. Pettit, W.K. Silverman, & B.C. Reeb- 
Sutherland

16. NEURAL AND VASCULAR DEVELOPMENT IN A RAT MODEL FOR 
DISEASES OF PREMATURITY 
J.A. Adrian, J.T. Olsen, T.S. Morken, & M. Wideroe

17. URINARY EPINEPHRINE, NOREPINEPHRINE AND MELATONIN AT 18 
MONTHS IN A SAMPLE OF INFANTS WITH PRENATAL SSRI EXPOSURE 
A.L. Salisbury, G.M. Anderson, J.A. Mattera, & C.L. Miller-Loncar

18. PATERNAL ALCOHOL EXPOSURE ALTERS BEHAVIOR OF ADULT 
MALE AND FEMALE OFFSPRING 
S.J. Nieto*, D.A. Nielsen, & T.A. Kosten
19. PROCEDURES FOR INDUCING VOLUNTARY BINGE-LEVEL CONSUMPTION OF ETHANOL IN ADOLESCENT RATS
D. Hosova & L.P. Spear

20. INCREASED INTAKE OF SUCROSE-SACCHARIN SOLUTION IN ADOLESCENCE AFTER PRENATAL ETHANOL EXPOSURE IN LATE GESTATION
J.K. Gore-Langton & L.P. Spear

21. CHARACTERIZING FEAR EXTINCTION LEARNING ACROSS ADOLESCENCE: ROLE OF DOPAMINE IN THE PREFRONTAL CORTEX

22. EARLY LIFE STRESS INCREASES MICROGLIA ACTIVATION IN JUVENILE MALE RATS AND CONFERS SENSTIZATION IN MICROGLIA TO LPS INDUCED IMMUNE ACTIVATION
S.A. Goff, V. Thompson, P. Ganguly, & H.C. Brenhouse

23. CONCURRENT EXPOSURE TO METHYLMERCURY AND D-AMPHETAMINE DURING ADOLESCENCE IMPAIRS REVERSAL LEARNING IN MICE: A LOGISTIC ANALYSIS
S.R. Boomhower*, R.A. Sauer, K. Johnson, & M.C. Newland

24. ADOLESCENT EXPOSURE TO METHYLMERCURY INCREASES THE RATE OF MEMORY SATURATION AND DECREASES MINIMUM RESPONSE TIME IN MICE
R.A. Sauer*, S.R. Boomhower, & M.C. Newland

25. LONG-TERM EFFECTS OF IN UTERO SERTRALINE EXPOSURE (A SELECTIVE SEROTONIN REUPTAKE INHIBITOR) ON MALE AND FEMALE RATS
J.M. Kott*, S.M. Mooney-Leber, S.A. Perrine, & S. Brummelte

26. MILD MATERNAL HYPERTHERMIA AS A NON-INVASIVE ANTIPROLIFERATIVE TERATOGEN IN GUINEA PIGS (CAVIA PORCELLUS)
Y. Argumedo*, K. Henschaw, B. Bailey, T. J. Bishop, T. Austin, & G.A. Kleven

27. NEURAL CORRELATES OF FUTURE EPISODIC MEMORY IN 4-YEAR OLDS
T.L. Blankenship*, A.P. Ross, & M.A. Bell

28. CONTRIBUTIONS OF THE MEDIAL PREFRONTAL CORTEX (MPFC) TO CONTEXTUAL FEAR CONDITIONING IN ADOLESCENT RATS
N.A. Heroux*, P.A. Robinson-Drummer, H.R. Sanders, J.B. Rosen, M.E. Stanton

29. BRAIN-DERIVED NEUROTROPHIC FACTOR: A POTENTIAL DRIVER OF THE ACCELERATED NEUROBEHAVIORAL DEVELOPMENT INDUCED BY EARLY-LIFE STRESS
K.B. Huntzicker*, G. Manzano-Nieves, & K.G. Bath

30. EARLY LIFE STRESS DOES NOT RESULT IN IMPAIRED GENERALIZED EXTINCTION IN ADULT RATS
N.D.S. Elliott* & R. Richardson

31. AN INVESTIGATION OF THE RELATION BETWEEN NEUROMOTOR MILESTONES AND HAND PREFERENCE USING PRINCIPAL COMPONENTS ANALYSIS
J.M. Campbell, E.C. Marcinowski, & G.F. Michel

32. ONTOGENY OF LOCOMOTION AND POSTURE IN NEWBORN RATS: A COMPARISON OF SENSORY-DEPRIVED VERSUS SENSORY-ENRICHED TESTING ENVIRONMENTS
H.E. Swann* & M.R. Brumley

33. QUIPAZINE EFFECTS ON SENSORY RESPONSIVENESS IN SPINAL TRANSECTED NEONATAL RATS
S.D. Kauer*, H.E. Swann, & M.R. Brumley

34. DOES ANKLE PROPRIOCEPTION CONTRIBUTE TO SELECTIVE RECRUITMENT OF FLEXOR MUSCLES DURING REPETITIVE LEG MOVEMENTS IN CHICK EMBRYOS?
S. Sun* & N.S. Bradley

35. NEUROLOGIC AND PHYSIOLOGIC RESPONSE TO ODORS IN THE HUMAN NEWBORN DURING ACTIVE AND QUIET SLEEP
J.S. Yang, J.R. Isler, M. Ordonez-Retamar, T. Thai, N. Brito, D.A. Wilson, M.M. Myers, & W.P. Fifer

36. THE RELATIONSHIP BETWEEN INFANT SLEEP, PARENTAL SLEEP, BEHAVIOR, AND DAILY EMOTIONS
C. Ellberg & L. Hibeb

37. SLEEP POSITION DURING PREGNANCY: EFFECTS ON MATERNAL AND FETAL HEART RATE
M. Lucchini*, J.S.C. Yang, J. Zavala, A.J. Elliott, & W.P. Fifer

38. NEWBORN AUTONOMIC MEASURES PREDICT 1-MONTH AUTONOMIC FUNCTION DURING SLEEP

39. A MULTIDISCIPLINARY APPROACH TO INVESTIGATING WORK-RELATED WELL-BEING, STRESS REGULATION AND QUALITY OF PEDAGOGICAL WORK AMONG EARLY CHILDHOOD PROFESSIONALS
M. Nislin, N. Sajaniemi, & E. Suhonen

40. MINDING THE GAP: PROGRESSION OF TEMPORAL PROCESSING DEFICITS IN THE HIV-1 TRANSGENIC RAT
K.A. McLaurin*, R.M. Booze, & C.F. Mactutus
41. PROGRESSIVE DEFICITS IN SUSTAINED ATTENTION IN THE HIV-1 TRANSGENIC (TG) RAT AS A MODEL FOR HIV-1 ASSOCIATED NEUROCOGNITIVE DISORDERS (HAND)
   A.L. Lafond*, K.A. McLaurin, R.M. Booze, & C. F. Mactutus

42. Withdrawn.

43. A FACE ONLY A MOTHER COULD LOVE? INTERGENERATIONAL TRAUMA EXPOSURE REDUCES MALE ATTRACTIVENESS TO POTENTIAL MATES
   S.R. Altmann*, J.M. Kan, & R. Richardson

44. EXAMINATION OF SPONTANEOUS EYE BLINKING FROM INFANCY TO TODDLERHOOD DURING COGNITIVE TASKS
   L.F. Bacher, A. Gonzalez, G. Javier, & M.A. Bell

45. BIRTHWEIGHT, FRONTAL EEG ASYMMETRY, AND TEMPERAMENT: POTENTIAL CONTEXT FOR DEVELOPMENT RISK IN FULL TERM INFANTS
   M.A. Bell, T.L. Blankenship, & R. Liu

46. BASIC ATTENTION AND INTERSENSORY PROCESSING SKILLS BECOME INCREASINGLY INTEGRATED
   L.E. Bahrick, M.E. McNew, J.T. Todd, & K.C. Soska

47. COVERT ATTENTION AND GAZE DURING INFANT FREE-LOOKING
   S.S. Robertson

48. INFANT ATTENTION & CORRESPONDING EEG: POTENTIAL INDICATORS OF CHILDHOOD AD/HD
   C.M. Eng*, L.A. Patton, S.D. Calkins, & M.A. Bell

49. INHIBITORY CONTROL TASK DIFFICULTY AND EEG COHERENCE AT AGE FOUR
   A.P.R. Broomell*, T.L. Blankenship, & M.A. Bell

50. EFFECTS OF ACTIVE AND OBSERVATIONAL EXPERIENCE ON EEG ACTIVITY DURING EARLY CHILDHOOD
   L.J. Bryant* & K. Cuevas

51. PATTERNS OF BRAIN ELECTRICAL ACTIVITY DURING COGNITIVE FLEXIBILITY PERFORMANCE IN EARLY CHILDHOOD
   V. Rajan, & M.A. Bell
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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:00-9:00</td>
<td>BOARD MEETING WITH PAST PRESIDENTS – East/West Boardroom</td>
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<tr>
<td>8:30-9:00</td>
<td>CONTINENTAL BREAKFAST</td>
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<td>9:00-9:45</td>
<td>ORAL SESSION 4: STRESS</td>
<td>Chair: Bethany Reeb-Sutherland</td>
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<td>9:00-9:15</td>
<td>SALIVARY CORTISOL AND ALPHA-AMYLASE REACTIVITY IN RELATION TO CHRONIC</td>
<td>K. Kao*, S.N. Doan, A.M. St. John, J.S. Meyer, &amp; A.R. Tarullo</td>
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<td>9:00-9:30</td>
<td>CHANGES IN MILK CORTISOL ACROSS THE NEONATAL PERIOD PREDICT LATER</td>
<td>A.M. Dettmer*, A.M. Murphy, D. Guitarra, K. Rosenberg, S.J. Suomi, J.M. Meyer, &amp; K. Hinde</td>
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<td>9:30-9:45</td>
<td>CHILDREN'S BIOLOGICAL GIVENS, STRESS RESPONSES, LANGUAGE AND</td>
<td>N. Sajaniemi, E. Suhonen, &amp; M. Niskin</td>
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<td>9:45-10:45</td>
<td>BUSINESS MEETING (all are welcome to attend)</td>
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<tr>
<td>10:45-11:00</td>
<td>MID-MORNING BREAK</td>
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<td>11:00-11:05</td>
<td>BEST DEVELOPMENTAL PSYCHOBIOLOGY STUDENT PAPERS (2014-2015, 2015-2016)</td>
<td>M. Hennessy</td>
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<td>11:05-12:05</td>
<td>JOHN WILEY DISTINGUISHED SPEAKER</td>
<td>Staci Bilbo, Harvard Medical School Chair: April Ronca</td>
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<td>12:05-2:00</td>
<td>LUNCH BREAK</td>
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<tr>
<td>12:05-2:00</td>
<td>LUNCH WORKSHOP: FUNDING OPPORTUNITIES FROM NIH AND NSF</td>
<td>(This event requires advance reservation &amp; ticket)</td>
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<tr>
<td>2:00-3:00</td>
<td>MINI-SYMPOSIUM: PARENT-CHILD RELATIONSHIPS IN PSYCHOBIOLOGICAL CONTEXT</td>
<td>Chair: Jessica L. Borelli</td>
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