



**42<sup>ND</sup> ANNUAL MEETING  
CONFERENCE PROGRAM**

**OCTOBER 14-17, 2009**

**THE WESTIN O'HARE, CHICAGO, IL**

International Society for Developmental Psychobiology  
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INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY

42<sup>ND</sup> ANNUAL MEETING  
OCTOBER 14-17, 2009  
CHICAGO, IL

WEDNESDAY OCTOBER 14

1:00—5:00 THE INTERNATIONAL PERINATAL BRAIN AND BEHAVIOR NETWORK  
PRE-CONFERENCE

FETAL LEARNING AND THE EFFECTS OF PERINATAL EXPERIENCE WITH ETHANOL

**Gabriela Chotro** - UNIVERSITY OF PAÍS VASCO

**Michael Nizhnikov** - STATE UNIVERSITY OF NEW YORK

**Scott Robinson** - IDAHO STATE UNIVERSITY, POCATELLO

DISCUSSION LEADER: **Skip Spear**, STATE UNIVERSITY OF NEW YORK

4:30 – 7:30 **REGISTRATION** (SEE PG. 10 FOR OTHER TIMES TO REGISTER AND  
FOR TIMES FOR SPEAKERS TO LOAD TALKS)

7:30 – 10:00 **OPENING REMARKS**  
**PRESIDENT: GORDON BARR**

**PAST PRESIDENTS SYMPOSIUM**  
**ROBERT LICKLITER**  
**JEFF ALBERTS**

Chair: Mark Blumberg

**WELCOME RECEPTION**

**EXECUTIVE FORUM ROOM**

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THURSDAY, OCTOBER 15

7:00 – 8:25 **WILEY EDITORIAL BREAKFAST**

8:00 – 8:30 **CONTINENTAL BREAKFAST AND COFFEE/TEA**  
**STUDENT/POST-DOC BREAKFAST CHAT SESSION**

8:30 – 10:00 **SYMPOSIUM**

**COMPLEXITY, EMERGENCE, AND DEVELOPMENTAL SYSTEMS THEORY:  
PSYCHOLOGY AND NEW PHYSICS AND BIOLOGY**

Chair: Gary Greenberg

8:30 THE SIGNIFICANCE OF NEW IDEAS IN PHYSICS AND BIOLOGY FOR  
DEVELOPMENTAL PSYCHOBIOLOGY  
**Gary Greenberg**, Wichita State University

8:50 DEVELOPMENT OF INFANT MANUAL SKILLS: MOTOR PROGRAM,  
SCHEMATA, OR DYNAMICAL SYSTEMS?  
**George Michel**, University of North Carolina

9:10 HIERARCHY AND THE RELATIONSHIP BETWEEN EMOTION AND  
BEHAVIOR  
**Daniel McShea**, Duke University

9:30 DISCUSSANT  
**Robert Lickliter**, Florida International University

10:00 – 10:30 **MORNING BREAK**

10:30 – 12:15 **ORAL SESSION 1**  
**HOMEOSTASIS AND FLEXIBILITY OF RECOVERY**

Chair: Pam Hunt

10:30 BRAINSTEM AND HYPOTHALAMIC REGULATION OF SLEEP  
PRESSURE AND REBOUND IN NEWBORN RATS  
W. Todd & M.S. Blumberg  
**NIH Travel Awardee**

10:45 LESS IS MORE: CHARACTERIZATION OF BEHAVIORAL STATES  
USING SLEEP-WAKE CYCLE DYNAMICS  
K.Æ. Karlsson

11:00	ONTOGENY OF DELAY AND TRACE EYEBLINK CONDITIONING USING A VIBROTACTILE CS J.H. Freeman, M.E. Levillain, G.P. Tinkler, and K.H. Ng <b>NIH Travel Awardee</b>	<b>3:15-3:45</b>	<b>AFTERNOON BREAK</b>
11:15	DEVELOPMENTAL PLASTICITY AFTER ACUTE AND CHRONIC TRANSECTION OF THE CORPUS CALLOSUM: EVIDENCE FOR RECOVERY OF FUNCTION AND GABAERGIC INHIBITION DURING THE EARLY POSTNATAL PERIOD A.J. Marcano-Reik & M.S. Blumberg <b>NIH Travel Awardee</b>	<b>3:45-5:15</b>	<b>AWARDS SYMPOSIUM</b>  Chair: Mark Blumberg
11:30	IS THERE A CRITICAL PERIOD FOR NOVELTY EXPOSURE-INDUCED FUNCTIONAL BRAIN ASYMMETRY? Z. Yang, R.S. Zaleski, & A.C. Tang <b>NIH Travel Awardee</b>	3:45	<b>DISSERTATION AWARD</b>  <b>THE ROLE OF THE MEDIAL PREFRONTAL CORTEX IN FEAR EXTINCTION IN THE DEVELOPING RAT</b> <b>Jee Hyun Kim</b> , University of New South Wales Advisor: Rick Richardson
11:45	THE SPATIOTEMPORAL (MIS)COORDINATION OF ATTENTION AND ORIENTING AFFECTS LEARNING IN QUAIL HATCHLINGS C. Harshaw & R. Lickliter <b>NIH Travel Awardee</b>	4:05	<b>SENIOR INVESTIGATOR 2009</b>  <b>Myron Hofer, MD</b> Sackler Institute, Columbia University Professor of Developmental Psychobiology
12:00	BEHAVIORAL, PHARMACOLOGICAL, AND NUTRITIONAL TREATMENTS FOR MEMORY IMPAIRMENTS INDUCED BY NEONATAL ALCOHOL EXPOSURE P.S. Hunt		<b>SANDRA G. WIENER AWARDS</b>
<b>12:15 – 1:45</b>	<b>LUNCH</b>	4:15	<b>John Franchak</b> , New York University HEAD-MOUNTED EYE-TRACKING OF INFANTS DURING NATURAL INTERACTION
<b>12:15 – 1:45</b>	<b>BOARD MEETING WITH PAST PRESIDENTS</b>	4:30	<b>Ethan Mohns</b> , University of Iowa SLEEP-RELATED NEOCORTICAL SPINDLE BURSTS ACTIVATE THE HIPPOCAMPUS OF NEWBORN RATS
<b>1:45 – 3:15</b>	<b>SYMPOSIUM: THE RAVELL'D SLEEVE OF CARE: DEVELOPMENTAL PSYCHOBIOLOGY OF SLEEP – CRITICAL IMPORTANCE AND POTENTIAL PATHOPHYSIOLOGY</b>  Chair: Hawley Montgomery-Downs	4:45	<b>Kasey Soska</b> , New York University ON THE OTHER HAND: SPONTANEOUS MOVEMENTS OF THE FREE HAND DURING UNIMANUAL OBJECTS EXPLORATION IN INFANTS
1:45	INFANT SLEEP: PERCHANCE TO LIVE AND LEARN <b>William Fifer</b> , Columbia University	5:00	<b>Sayuri Kojima</b> , Indiana University WARMTH FROM SKIN-TO-SKIN CONTACT IS ESSENTIAL FOR ACQUISITION OF FILIAL HUDDLING IN PREWEANLING RATS AND IMPLIES A MEDIATING ROLE OF OXYTOCIN
2:05	SLEEP APNEA, INFLAMMATION, AND COGNITIVE CONSEQUENCES IN CHILDREN <b>David Gozal</b> , University of Chicago	<b>5:15 – 7:15</b>	<b>POSTER SESSION 1 (CASH BAR): LASALLE BALLROOM</b>
2:25	NON-OBVIOUS INFLUENCES ON PEDIATRIC SLEEP-DISORDERED BREATHING <b>Hawley Montgomery-Downs</b> , West Virginia University	1	THE ONTOGENY OF SLEEP-WAKING CYCLES IN ZEBRAFISH H. Thorsteinnsson, I. Jhannesdttir, H. Arnardttir, & K. Karlsson
2:45	DISCUSSANT <b>Robert Darnall</b> , Dartmouth Medical Center	2	HOLDING POTENTIAL IN LOOSE CELL ATTACHED RECORDINGS AS A TOOL FOR STUDYING NEURAL CIRCUITS OF ZEBRAFISH NERVOUS SYSTEM DURING DEVELOPMENT R. Vargas, I. Jhannesdttir, & K. Karlsson

- 3 FETAL BEHAVIOR INDICATORS FOR STATE CLASSIFICATION  
A.L. Salisbury, J.B. McFarland, & J.A. DiPietro
- 4 FREQUENCY OF LONGITUDINAL, MULTIDAILY FATIGUE REPORTING AMONG POST PARTUM MOTHERS  
M.M. Clegg-Kraynok, L. R. Mancini, & H.E. Montgomery-Downs **NIH Travel Awardee**
- 5 NORMATIVE MATERNAL POST PARTUM SLEEP  
H.E. Montgomery-Downs, L.R. Rackette, S.P. Insana, & M.M. Clegg-Kraynok,
- 6 DYNAMICS OF SLEEP AND SLEEPINESS AMONG POSTPARTUM PARENTS.  
S.P. Insana & H.E. Montgomery-Downs  
**NIH Travel Awardee**
- 7 AROUSAL HABITUATION IN RESPONSE TO ACUTE INTERMITTENT HYPOXIA IS MEDIATED THROUGH GABAERGIC MECHANISMS.  
C.M. Tobia, R.W. Schneider, and R.A. Darnall,  
**NIH Travel Awardee**
- 8 LATE ADOLESCENT CORTISOL RESPONSE TO CHALLENGE VARIES WITHIN INDIVIDUALS OVER TIME  
S.E. Gans & V.K. Johnson
- 9 ADOLESCENT COCAINE USE IS INCREASED AFTER PRENATAL OR "POSTNATAL" COCAINE EXPOSURE  
J.H. Hannigan, L.M. Chiodo, J. Janisse, J. Ager, M.K. Greenwald, R.J. Sokol, M. Watts, & B.V. Delaney-Black
- 10 CAN SECURE ATTACHMENT BE A RISK FACTOR? PREDICTING CORTISOL REACTIVITY ACROSS THE DAY AT CHILDCARE  
L.S. Badanes & S.E. Watamura
- 11 ASSOCIATIONS BETWEEN EARLY ENVIRONMENTAL RISK AND CHILDREN'S 5-HTTLPR GENOTYPE  
I.Y. Pikovsky & S.E. Watamura
- 12 INDIVIDUAL RECOGNITION IN NORTHERN BOBWHITE QUAIL CHICKS  
K. Crum & R. Lickliter  
**NIH Travel Awardee**
- 13 EFFECTS OF LATERALIZATION AND INTERSENSORY REDUNDANCY ON CONTINGENCY-BASED PERCEPTUAL LEARNING  
C. Barasch Ford, C. Harshaw, L. Bahrack, & R. Lickliter **NIH Travel Awardee**
- 14 DISTRIBUTION OF SENSORY STIMULATION AFFECTS PRENATAL AUDITORY LEARNING IN NORTHERN BOBWHITE QUAIL  
J. Vaillant, C. Harshaw, M. Jaime, L.E. Bahrack, & R. Lickliter
- 15 GENETIC VARIATION, MATERNAL BEHAVIOR, AND HPA AXIS FUNCTION IN INFANT RHESUS MONKEYS  
K. Stansbury, M.M. Sanchez, & K. McCormack
- 16 PRESENCE OF MOTHER ATTENUATES PHARMACOLOGICALLY INDUCED PASSIVE RESPONSES OF GUINEA PIG PUPS  
M.B. Hennessy, S. Jacobs, T. Deak, & P.A. Schiml-Webb
- 17 INFANT HEART RATE AND MATERNAL SENSITIVITY DURING PLAY, SEPARATION AND REUNION IN 6-MONTH-OLD INFANTS  
D.W. Haley, K.E. Stansbury, & K.S. Lee
- 18 MATERNAL BEHAVIOR AND EARLY DEVELOPMENT OF THE PAMPAS DEER (OZOTOCEROS BEZOARTICUS)  
D.E. Olazábal, S. González-Pensado, M. Villagran, & R. Ungerfeld
- 19 INDIVIDUAL DIFFERENCES IN EXECUTIVE ATTENTION AT AGE 8  
M.A. Bell, V. Raj, D. Greene, & C.D. Wolfe
- 20 FRONTAL EEG ASYMMETRY: SOCIAL AND NON-SOCIAL TEMPERAMENTAL FEAR REACTIVITY AT 10-MONTHS  
A. Diaz & M.A. Bell  
**NIH Travel Awardee**
- 21 AN ELECTROPHYSIOLOGICAL INVESTIGATION OF SOURCE MEMORY DEVELOPMENT IN EARLY CHILDHOOD  
V. Raj & M.A. Bell  
**NIH Travel Awardee**
- 22 CHANGES IN EEG POWER AND COHERENCE IN SLEEPING INFANTS DURING EYELID CONDITIONING  
A.R. Tarullo, J.R. Isler, D.L. Byrd, J.D. Nugent, & W.P. Fifer
- 23 FACTORS AFFECTING T-MAZE ACQUISITION IN POST-WEANLING SUFFOLK LAMBS  
T.B. Johnson, M.E. Stanton, C.R. Goodlett, & T.A. Cudd
- 24 PRECOCIOUS WALKING COMPETENCY IS NOT COMPROMISED BY LIGHT-INDUCED VARIATIONS IN TIME TO HATCH IN CHICKS  
A. Sindhurakar & N. Bradley  
**NIH Travel Awardee**

- 25 AGE AND NEUROMOTOR DEVELOPMENTAL PREDICTORS OF INFANT HANDEDNESS  
I. Babik & G.F. Michel  
**NIH Travel Awardee**
- 26 QUALITATIVE AND QUANTITATIVE CHARACTERIZATION OF SELF-DIRECTED MOVEMENTS IN PREMATURE INFANTS  
A.L. Einfeldt, M.C. Schreiber, V. Méndez-Gallardo, & S.R. Robinson  
**NIH Travel Awardee**
- 27 MOTHERS ENHANCE INFANTS' 2D-3D TRANSFER OF LEARNING  
E. Zack, J. Zocca, R. Barr, & P. Gerhardstein  
**NIH Travel Awardee**
- 28 USING VERBAL CUES TO FACILITATE LEARNING FROM BOOKS AND TELEVISION DURING TODDLERHOOD  
N. Brito, R. Barr, & G. Simcock  
**NIH Travel Awardee**
- 29 BUILDING BETTER MEMORIES: DEFERRED IMITATION PROLONGS RETENTION IN THE VRM PARADIGM  
J. Gross & H. Hayne  
**NIH Travel Awardee**
- 30 POTENTIATION OF OPERANT LEARNING IN 6- AND 9-MONTH-OLD HUMAN INFANTS  
A.B. Giles, V.C. Hsu, & C. Rovee-Collier
- 31 EFFECTS OF INTERPOLATED CONTEXT CHANGES IN 6-MONTH-OLD INFANTS  
J.M. Cressen, V.C. Hsu, & C. Rovee-Collier
- 32 MINIMUM-DURATION PRIMING: LATENCY EFFECTS ACROSS INFANCY  
S. Lee, V.C. Hsu, & C. Rovee-Collier
- 33 SOCIALLY MOTIVATED VOCAL LEARNING IN ZEBRA FINCHES  
S. Syal, M.H. Goldstein, & T.J. DeVogd.
- 34 EFFECTS OF INTERACTIVE STYLE ON INFANTS' SPEECH PERCEPTION IN NOISE  
J. Versele, R. Panneton, & L. Polka
- 35 A PRELIMINARY COMPARISON OF THE FETAL RESPONSE TO MATERNAL SPEECH: LIVE VOICE AND RECORDED VOICE  
C. Krueger, L. Keller, F. Pe Benito, & A. Petito
- 36 PLAY PARTNER PREFERENCE IN THREE SPECIES OF NON-HUMAN PRIMATE: COMPARISONS OF PLAY BEHAVIOR IN PAN PANSICUS, PAN TROGLODYTES, AND GORILLA GORILLA INFANTS  
J.A. Herrington, N.S. Porter, & A. Boulton
- 37 ACTIVITY LEVELS AFFECT RATE AND TYPES OF PLAY IN THREE SPECIES OF NON-HUMAN PRIMATES (PAN PANSICUS, PAN TROGLODYTES, AND GORILLA GORILLA )  
N.S. Porter & J.A. Herrington
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- FRIDAY, OCTOBER 16**
- 8:00 – 8:30 CONTINENTAL BREAKFAST AND COFFEE/TEA**
- 8:30 – 10:30 ORAL SESSION 2  
ATTENTION, MEMORY, MOVEMENT AND SOCIAL INTERACTION**
- Chair: Julien Gross
- 8:30 DO YOU SEE WHAT I SEE? INFANT VISUAL ATTENTION DURING LEARNING  
J.S. Herbert & G. Taylor
- 8:45 LEARNING FROM SCREEN MEDIA IN OLDER INFANTS: AN EXTENSION OF THE VIDEO DEFICIT EFFECT  
P. Gerhardstein, K. Dickerson, E. Zack, & R. Barr
- 9:00 A NEW TEST OF EPISODIC MEMORY IN YOUNG CHILDREN  
H. Hayne, J. Gross, & M. Colombo
- 9:15 CLIFF OR STEP? POSTURE-SPECIFIC LEARNING AT THE EDGE OF A DROP-OFF  
K.S. Kretch, L.B. Karasik, & K.E. Adolph
- 9:30 BRACHIATION ON MONKEY BARS  
W.G. Cole, E. Quon, & K.E. Adolph  
**NIH Travel Awardee**
- 9:45 THE REWARD VALUE OF INFANT-DIRECTED SPEECH: NEW EVIDENCE FROM THE CONDITIONED PLACE PREFERENCE PARADIGM  
M.H. Goldstein, T. Tan, & J. Pagnotta

10:00	THE INFLUENCE OF MATERNAL RESPONSIVENESS ON THE DEVELOPMENT OF PRAGMATIC USE OF PRELINGUISTIC VOCALIZATIONS IN SOCIAL INTERACTIONS J. Gros-Louis	2:45 – 3:45	<b>ORAL SESSION 3 MECHANISMS</b>  Chair: Steve Robertson
10:15	SOCIAL SHAPING IN THE ZEBRA FINCH: TIMING OF INTERACTIONS WITH ADULTS AFFECT SONG LEARNING O. Menyhart, M.H. Goldstein, & T.J. DeVoogd	2:45	IN MEMORY OF WILLIAM P. SMOTHERMAN S. Robinson, M. Hennessy, S. Robertson, & L. Bacher
<b>10:30 – 11:00</b>	<b>MORNING BREAK</b>	3:00	THE CONTRIBUTIONS OF DONALD O HEBB TO DEVELOPMENTAL PSYCHOBIOLOGY R.E. Brown
<b>11:00 – 12:15</b>	<b>JOHN WILEY BEST STUDENT PAPER</b> To be announced by: Michael Hennessy  <b>JOHN WILEY DISTINGUISHED SPEAKER</b>  Chair: Gordon Barr  Wiley Representative: Joe Ingram	3:15	CONTROL SUBJECTS REARED WITH GENETICALLY ALTERED MICE REVEAL EPIGENETIC FACTORS DEPENDENT ON BOTH LITTER COMPOSITION AND GENDER G.A. Kleven, A.E. Ronca, & J. Olson
	EARLY PAIN EXPERIENCE: SETTING ADULT PAIN PROFILES  <b>Maria Fitzgerald</b>  Department of Anatomy and Developmental Biology University College London	3:30	THE NUMBER OF SUCKLING PUPS MODULATES CIRCADIAN PERIODICITY OF NURSING IN RABBITS G. Gonzalez-Mariscal, A.C. Lemus, & R. Aguilar-Roblero
<b>12:15 – 1:45</b>	<b>LUNCH</b>	<b>3:45 – 4:15</b>	<b>AFTERNOON BREAK</b>
<b>12:15 – 1:45</b>	<b>MEET THE PROFESSORS LUNCH</b>	<b>4:15 – 5:15</b>	<b>PRESIDENTIAL ADDRESS</b> Chair: Harlene Hayne  CHANGING EFFECTS OF DRUGS ON BEHAVIOR DURING DEVELOPMENT: LESSONS LEARNED  <b>Gordon Barr</b>  Children's Hospital of Philadelphia
<b>1:45 – 2:45</b>	<b>SYMPOSIUM</b> <b>SEYMOUR LEVINE'S LEGACY: THE INFANT'S WORLD AND ITS' CONSEQUENCES</b>  Chair: Judith Stern	<b>5:15 – 7:15</b>	<b>POSTER SESSION 2 (CASH BAR): LASALLE BALLROOM</b>
1:45	ONTOGENY OF LEARNING: ROLE OF PERINATAL ALCOHOL AND OTHER EARLY TOXIC INSULTS <b>Mark Stanton</b>	1	ALTERED GENE EXPRESSION IN TWO ANIMAL MODELS OF ADHD AFTER REWARD-RELATED LEARNING K.M. Clements, T.L. Pitcher, J.R. Wickens, & J.N.J. Reynolds
2:05	MATERNAL HIGH FAT DIET PROGRAMS LONG-TERM METABOLISM AND REWARDING CIRCUITRY IN OFFSPRING: AN EARLY DETERMINANT OF DISEASE VULNERABILITY <b>Claire-Dominique Walker</b>	2	AGE DIFFERENCES IN EXPLORATORY BEHAVIOUR AND ITS RELATIONSHIP TO AMPHETAMINE-INDUCED LOCOMOTOR ACTIVITY I. Z. Mathews & C. M. McCormick
2:25	ANIMAL MODELS OF EARLY LIFE STRESS: IMPLICATIONS FOR UNDERSTANDING RESILIENCE <b>David Lyons</b>	3	DENDRITIC AND SPINE ALTERATIONS OVER THE ADOLESCENT PERIOD OF MALE AND FEMALE RATS IN THE BASOLATERAL AMYGDALA W. A. Koss, C. E. Belden, S. K. Decker, & J.M. Juraska

- 4 SOCIAL INSTABILITY STRESS IN ADOLESCENT FEMALE RATS LEADS TO A LASTING REDUCTION IN SPATIAL MEMORY  
F. Nixon, C. Thomas, B.J. Loewi, & C.M. McCormick  
**NIH Travel Awardee**
- 5 IMMEDIATE AND LONG TERM EFFECTS OF CHRONIC CORTICOSTERONE ADMINISTRATION IN ADOLESCENCE OR IN ADULTHOOD ON ANXIETY AND DEPRESSIVE BEHAVIOUR IN MALE RATS  
P. Waters, C.M. Thomas, I.Z. Mathews, & C.M. McCormick
- 6 EFFECTS OF ETHANOL ADMINISTRATION ON CORTICOSTERONE LEVELS IN ADOLESCENT AND ADULT RATS  
A.R. Willey, M. Morales, R.L. Ramirez, R.I. Anderson, & L.P. Spear  
**NIH Travel Awardee**
- 7 CHRONIC ETHANOL EXPOSURE IN ADOLESCENT AND ADULT RATS: EFFECTS ON SOCIAL BEHAVIOR AND ETHANOL INTAKE  
M.A. Broadwater, E.I. Varlinskaya, & L.P. Spear  
**NIH Travel Awardee**
- 8 ADOLESCENT SOCIAL INSTABILITY ALTERS HIPPOCAMPAL NEUROGENESIS INTO ADULTHOOD  
C. Thomas, P. Waters, I.Z. Mathews, & C.M. McCormick
- 9 STRESS MEDIATED MODULATION OF THE NEUROENDOCRINE AND IMMUNE SYSTEMS  
A.P.M. Lerch, N. Porter, L.A. Jason, & M. Sorenson
- 10 PUBERTY: INFLUENCE OF PRENATAL ETHANOL EXPOSURE AND PAIR FEEDING IN RATS  
J.H. Sliwowska, W.L. Comeau, W. Yu, L. Ellis, & J. Weinberg
- 11 LOBELINE DOSE-DEPENDENTLY ATTENUATES HYPERACTIVITY IN A RODENT MODEL OF THIRD TRIMESTER ETHANOL EXPOSURE  
K.A. Wellmann, B. Lewis, L.P. Dwoskin, & S. Barron  
**NIH Travel Awardee**
- 12 BINGE ETHANOL EXPOSURE OVER POSTNATAL DAYS 4-9 DIFFERENTIALLY IMPAIRS LONG-DELAY VERSUS TRACE EYEBLINK CONDITIONING IN THE WEANLING RAT  
H.S. Lange, N.J. Murawski, & M.E. Stanton
- 13 SHORT-TERM ADMINISTRATION OF PHYSIOLOGICAL LEVELS OF CORTICOSTERONE PRODUCES LASTING EFFECTS ON TRACE EYEBLINK CONDITIONING  
L. Greenfield, M.B. Hennessy, & D.I. Claffin
- 14 ENHANCED PREFERENCE FOR ETHANOL ODOR AND INCREASED VOLUNTARY INTAKE FOLLOWING EXPOSURE TO ETHANOL DURING THE EARLY POSTNATAL PERIOD  
A.B. Barrineau & P.S. Hunt
- 15 POSTNATAL SUPPLEMENTAL CHOLINE FACILITATES EXTINCTION OF FEAR IN RATS TRAINED AS ADOLESCENTS  
T.G. Spencer, N.C. Hakkal, & P.S. Hunt  
**NIH Travel Awardee**
- 16 ALTERED CORTICOTROPIN-RELEASING HORMONE MRNA LEVELS: PRENATAL ALCOHOL EXPOSURE AND STRESS  
K.A. Uban, W.L. Comeau, W. Dionela, C. Bauermeister, L.A. Ellis, W.K. Yu, L.A.M. Galea, & J. Weinberg  
**NIH Travel Awardee**
- 17 BINGE ETHANOL EXPOSURE OVER POSTNATAL DAYS 4-9 OR 7-9 DISRUPTS THE CONTEXT PREEXPOSURE FACILITATION EFFECT IN JUVENILE RATS  
N.J. Murawski & M.E. Stanton  
**NIH Travel Awardee**
- 18 PROMOTING AND BLOCKING CONTEXTUAL FEAR LEARNING IN RATS DURING EARLY ONTOGENY AND SUBSEQUENT EFFECTS ON CREB PHOSPHORYLATION IN THE AMYGDALA AND HIPPOCAMPUS  
P.A. Kabitzke, L.K. Silva, & C.P. Wiedenmayer  
**NIH Travel Awardee**
- 19 MATERNAL PRESENCE MODULATES HIPPOCAMPAL PARTICIPATION IN CONTEXTUAL FEAR CONDITIONING IN INFANTS RATS  
C. Rainecki, P.J. Holman, J. Debiec, M. Bugg, A. Beasley, & R.M. Sullivan  
**NIH Travel Awardee**
- 20 SINGLE-UNIT ACTIVITY IN THE DEVELOPING HIPPOCAMPUS DURING TRACE EYEBLINK CONDITIONING  
M.E. Levillain, M.M. Campolattaro, A. Kashef, K.H. Ng, & J.H. Freeman  
**NIH Travel Awardee**
- 21 BEHAVIORAL ALTERATIONS DURING THE ACUTE POSTNATAL PHASE FOLLOWING PERINATAL ASPHYXIA IN THE RAT  
J.J. Morgan, G.G. Winn, C.D. Tulbert, A.E. Ronca  
**NIH Travel Awardee**



- 22 LATENT INHIBITION EFFECT OR FACILITATION OF CONDITIONED TASTE AVERSION AFTER CS-PREEXPOSURE IN INFANT RATS  
E. Diaz-Cenzano & M.G. Chotro
- 23 ROLE OF MEDIAL PREFRONTAL NMDA RECEPTORS IN SPATIAL DELAYED ALTERNATION IN 19-, 26-, AND 33-DAY-OLD RATS  
S.A. Jablonski, D.J. Watson, H.S. Lange, & M.E. Stanton  
**NIH Travel Awardee**
- 24 EFFECT OF THE SEROTONIN ANTAGONIST METHYSERGIDE ON QUIPAZINE-INDUCED STEPPING IN NEONATAL RATS  
B. O'Neill & M.R. Brumley
- 25 DOES TACTILE FEEDBACK INFLUENCE STEPPING BEHAVIOR IN THE POSTNATAL DAY ONE RAT?  
M.E. Roberto, M.M. Strain, & M.R. Brumley  
**NIH Travel Awardee**
- 26 A DESCRIPTIVE ANALYSIS OF HOW NEWBORN RATS INTERACT WITH DIFFERENT SUBSTRATES DURING LOCOMOTOR BEHAVIOR  
M.M. Strain, M.E. Roberto, & M.R. Brumley  
**NIH Travel Awardee**
- 27 SPONTANEOUS MATERNAL BEHAVIOR OF MICE: EFFECT OF EARLY EXPOSURE TO PREDATOR CUES  
E.M. Hill
- 28 DIET DURING PREGNANCY VARIES WITH WOMEN'S MENTAL HEALTH  
A. Singh & C. Monk  
**NIH Travel Awardee**
- 29 NATURALLY OCCURRING DIFFERENCES IN MATERNAL CARE ALTER SOCIALLY-MEDIATED AND DOPAMINE-DEPENDENT BEHAVIORS IN RAT OFFSPRING  
T.K.S. Craft, S. Steinfeld, J.P. Curley, H. Shair, F.A. Champagne, & H. Moore  
**NIH Travel Awardee**
- 30 THE CONSEQUENCES OF MATERNAL SEPARATION ON MATERNAL CARE IN C57BL/6  
J.D. Bailoo, X.J. Garza, & R.L. Jordan  
**NIH Travel Awardee**
- 31 CONSEQUENCES OF MATERNAL SEPARATION ON PATTERNS OF MATERNAL NEST ATTENDANCE IN C57BL/6  
J. Campbell, X.J. Garza, R.L. Jordan, & J.D. Bailoo  
**NIH Travel Awardee**
- 32 EARLY LIFE STRESS DISRUPTS ATTACHMENT LEARNING VIA CORTICOSTERONE AND CRF  
S. Moriceau & R.M. Sullivan  
**NIH Travel Awardee**
- 33 IS BEHAVIORAL INHIBITION RELATED TO ANXIETY-RELATED BEHAVIOR IN MICE?  
C.M. Ragan, A.J. Bressler, S.A. Belegundu, A.R. Lewis, B.C. Jones, N. Vasudevan, A.M. Andrews, & S.A. Cavigelli
- 34 ANXIOLYTIC EFFECT OF PRENATAL PHYTOESTROGEN EXPOSURE ON SOCIAL INTERACTION BEHAVIORS IN PERIPUBESCENT RATS  
A.J. Bies, M.B. Craig, & L.A. Becker  
**NIH Travel Awardee**
- 35 CORTICOSTERONE STRESS RESPONSE PROFILE AS PREDICTORS OF LONG-TERM HABITUATION OF ACOUSTIC STARTLE RESPONSE.  
A.A. Chen, Y. Zhang, R.D. Romeo, H. Jiang, Z. Yang, B.S. McEwen, & A.C. Tang
- 36 INFLUENCE OF TRAUMATIC EXPERIENCE ON THE ASSOCIATION BETWEEN BASAL CIRCULATING CORTICOSTERONE CONCENTRATION AND SHORT-TERM HABITUATION OF ACOUSTIC STARTLE RESPONSE  
Y. Zhang, A.A. Chen, R.D. Romeo, H. Jiang, Z. Yang, B.S. McEwen, & A.C. Tang  
**NIH Travel Awardee**
- 37 COMMUNAL NESTING ALTERS THE DEVELOPMENT OF AFFECTIVE AND SOCIAL BEHAVIOR IN RATS SELECTIVELY BRED FOR AN INFANTILE TRAIT  
A.R. Martinez, S.A. Brunelli, & B. Zimmerberg
- 38 DEVELOPMENTAL TRANSITION FROM EXPONENTIAL TO POWER-LAW WAKE BEHAVIOR DEPENDS UPON THE FUNCTIONAL INTEGRITY OF THE LOCUS COERULEUS  
A.J. Gall, B. Joshi, J. Best, V.R. Florang, J.A. Doorn, & M.S. Blumberg  
**NIH Travel Awardee**
- 8:00 – 10:00** STUDENT SOCIAL  
Food and Cash Bar

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**SATURDAY, OCTOBER 17**

- 8:00 – 8:30**      **CONTINENTAL BREAKFAST AND COFFEE/TEA**
- 8:30 – 10:30**      **Sackler Symposium**  
ADOLESCENCE: A UNIQUE PHASE OF DEVELOPMENT  
Chair: Linda Spear
- 8:30      PUBERTAL HORMONES AND THE ADOLESCENT BRAIN  
**Cheryl Sisk**, Michigan State University
- 9:00      NEUROANATOMICAL CHANGES IN COGNITIVE AREAS OF THE RAT  
BRAIN DURING ADOLESCENCE  
**Janice Juraska**, University of Illinois
- 9:30      DEVELOPING THE ROLE OF PUBERTY IN SHAPING STRESS  
REACTIVITY  
**Russell Romeo**, Barnard College
- 10:00      SENSITIVITY TO ALCOHOL AND OTHER HEDONIC STIMULI IN AN  
ANIMAL MODEL OF ADOLESCENCE  
**Linda Spear**, Binghamton University
- 10:30 – 11:00**      **MORNING BREAK**
- 11:00 – 12:00**      **ORAL SESSION 4**  
**STRESS AND EMOTION REGULATION**  
  
Chair: Michael Goldstein
- 11:00      HAIR CORTISOL AS A BIOMARKER FOR LATER ANXIETY IN YOUNG  
RHESUS MONKEYS  
A.M. Dettmer, M.A. Novak, J.S. Meyer, & S.J. Suomi
- 11:15      LIKE MOTHER, LIKE DAUGHTER (AND SON): ELEVATED  
CORTICOSTERONE LEVELS IN MILK, BLOOD, AND BRAIN OF THE  
OFFSPRING AFTER MATERNAL CORTICOSTERONE TREATMENT  
S. Brummelte, K.L. Schmidt, K.K. Soma, & L.A.M. Galea  
**NIH Travel Awardee**
- 11:30      PRENATAL STRESS, MATERNAL SENSITIVITY, AND HPA AXIS  
REACTIVITY IN HUMAN INFANTS  
K.-A. Grant, M.P. Austin, C. McMahon, & L. Leader  
**NIH Travel Awardee**

- 11:45      EFFECTS OF PRENATAL STRESS SCHEDULE ON EMOTION  
REGULATION IN AN ANIMAL MODEL OF DEPRESSION  
T. Sultany & A. Weller  
**NIH Travel Awardee**
- 12:00 – 12:15**      **BEST POSTER AWARD**  
  
Presenter: Harlene Hayne
- 12:15 – 1:00**      **BUSINESS MEETING - ALL INVITED**
- 
- END OF ISDP CONFERENCE**

**REGISTRATION DESK HOURS:**

- WEDNESDAY      4:30-7:30 PM  
THURSDAY      7:30-8:30 AM; DURING LUNCH; DURING POSTER SESSION  
FRIDAY      7:30-8:30 AM; DURING LUNCH

**LOAD TALKS ON CONFERENCE COMPUTERS:**

- WEDNESDAY      4:30-7:30 PM  
THUR/FRIDAY      8:00-8:30 AM; DURING LUNCH; DURING POSTER SESSION  
SATURDAY      8:00-8:30 AM

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**INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY**

**2009 AWARD WINNERS**

**ISDP Dissertation Award**

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>
Jee Hyun Kim	Rick Richardson	University of New South Wales

**Sandra G. Wiener Awards**

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>
John Franchak	Karen E. Adolph	New York University
Ethan Mohns	Mark S. Blumberg	University of Iowa
Kasey Soska	Karen E. Adolph	New York University
Sayuri Kojima	Jeff Alberts	Indiana University

**Sackler Institute and NIH (NICHD) Travel Awards**

<b>Name</b>	<b>Advisor</b>	<b>Institution</b>	<b>Name</b>	<b>Advisor</b>	<b>Institution</b>
Iryna Babik	George Michel	University of North Carolina	Amy Jo Marcano-Reik	Mark S. Blumberg	University of Iowa
Jeremy Bailoo	George Michel	University of North Carolina	Valerie Méndez-Gallardo	Scott Robinson	University of Iowa
Alex Bies	Lora Becker	University of Evansville	Jonathan Morgan	April Ronca	Wake Forest Univ Med Sch
Natalie Brito	Rachel Barr	Georgetown University	Stephanie Moriceau	Regina Sullivan	Nathan Kline Institute
Maggie Broadwater	Linda Spear	Binghamton University	Nathan Murawski	Mark Stanton	University of Delaware
Susanne Brummelte	Liisa Galea	University of British Columbia	Ka Ng	John Freeman	University of Iowa
Julie Campbell	George Michel	University of North Carolina	Feather Nixon	Cheryl McCormick	Brock University
Megan Clegg-Kraynok	Hawley Montgomery-Downs	West Virginia University	Charlis Raineke	Regina Sullivan	Nathan Kline Institute
Whitney Graham Cole	Karen Adolph	New York University	Vinaya Raj	Martha Ann Bell	Virginia Tech
Tara Craft	Harry Shair	Columbia University	Megan Roberto	Michele Brumley	Idaho State University
Kathleen Crum	Robert Lickliter	Florida International University	Anil Sindhurakar	Nina Bradley	Keck School of Medicine
Anjolie Diaz	Martha Ann Bell	Virginia Tech	Angelie Singh	Catherine Monk	Columbia University
Cassie Ford	Robert Lickliter	Florida International University	Tracy Spencer	Pam Hunt	College of William and Mary
Andrew Gall	Mark Blumberg	University of Iowa	Misty Strain	Michele Brumley	Idaho State University
Kerry-Ann Grant	Cathy McMahon	Macquarie University	Tom Sultany	Aron Weller	Bar-Ilan University
Julien Gross	Harlene Hayne	University of Otago	Christy Tobia	Robert A. Darnall	Dartmouth Medical School
Chris Harshaw	Robert Lickliter	Florida International University	William David Todd III	Mark Blumberg	University of Iowa
Salvatore Insana	Hawley Montgomery-Downs	West Virginia University	Kristina Uban	Joanne Weinberg	University of British Columbia
Sarah Jablonski	Mark Stanton	University of Delaware	Kristen Wellmann	Susan Barron	University of Kentucky
Huan Jiang	Akaysha Tang	University of New Mexico	Amanda Willey	Linda Spear	Binghamton University
Patricia Kabitzke	Christoph Wiedenmayer	Columbia University	Zhen Yang	Akaysha Tang	University of New Mexico
Mary Levillain	John Freeman	University of Iowa	Elizabeth Zack	Rachel Barr	Georgetown University

Wednesday – 10/14		Thursday – 10/15		Friday – 10/16		Saturday – 10/17	
1:00-5:00pm	<b>IPBBN Preconference Fetal learning and the effects of perinatal experience with ethanol</b>  Gabriela Chotro Michael Nizhnikov Scott Robinson Discussion Leader: Skip Spear	7:00-8:30	<b>Wiley Editorial Breakfast</b>				
		8:00-8:30	<b>Continental Breakfast: Coffee/tea "Student/Post-doc Breakfast Chat Session"</b>	8:00-8:30	<b>Continental Breakfast and Coffee/Tea</b>	8:00-8:30	<b>Continental Breakfast And Coffee/Tea</b>
		8:30-10:00	<b>Symposium Complexity, Emergence, and Developmental Systems Theory: Psychology and New Physics and Biology</b> Gary Greenberg George Michel Daniel McShea Robert Lickliter	8:30-10:30	<b>Oral Session 2 Attention, Memory, Movement, and Social Interaction</b>	8:30-10:30	<b>Sackler Symposium</b>  <b>Adolescence: A Unique Phase of Development</b> Cheryl Sisk Janice Juraska Russell Romeo Linda Spear
		10:00-10:30	<b>Morning Break</b>	10:30-11:00	<b>Morning Break</b>	10:30-11:00	<b>Morning Break</b>
		10:30-12:15	<b>Oral Session 1: Homeostasis and Flexibility of Recovery</b>	11:00-12.15	<b>John Wiley Award</b> Wiley Best Student Paper	11:00-12:00	<b>Oral Session4 Stress and Emotion Regulation</b>
		12:15-1:45	<b>Lunch</b>	12:15-1:45	<b>John Wiley Distinguished Speaker</b> Maria Fitzgerald	12:00-1:00	<b>POSTER AWARD BUSINESS MEETING – ALL INVITED</b>
		1:45-3:15	<b>Board Meeting with Past Presidents</b>		<b>Lunch</b>		<b>END OF ISDP CONFERENCE</b>
		1:45-3:15	<b>The Ravell'd Sleeve of Care: Developmental Psychobiology of Sleep – Critical Importance and Potential Pathophysiology</b> William Fifer David Gozal, Hawley Montgomery-Downs Robert A. Darnall	1:45-3:45	<b>Meet the Professors Lunch</b>		
		3:15-3:45	<b>Afternoon Break</b>		<b>Seymour Levine's Legacy: The Infant's World and its Consequences</b> Mark E. Stanton Claire-Dominique Walker David Lyons		
			<b>Awards Symposium</b>	3:45-4:15	<b>Oral Session 3 Mechanisms</b>		
4:30-7:30	<b>REGISTRATION EXECUTIVE FORUM</b>	3:45-5:15	<b>Afternoon Break</b>				
7:30-10:00	<b>Opening Remarks</b> Gordon Barr <b>Past Presidents</b> Lickliter & Alberts <b>Welcome Reception</b>	5:15-7:15	<b>Dissertation Award</b> <b>Senior Investigator Award</b> <b>Sandra G. Wiener Awards</b>	4:15-5:15	<b>Presidential Address</b> CHANGING EFFECTS OF DRUGS ON BEHAVIOR DURING DEVELOPMENT: LESSONS LEARNED Gordon Barr		
			<b>Poster Session 1 (Cash Bar)</b> LaSalle Ballroom	5:15-7:15	<b>Poster Session 2 (Cash Bar)</b> LaSalle Ballroom		
				8:00-10:00	<b>Student Social</b> Cash bar		