



**39<sup>th</sup> Annual Meeting  
Conference Program**

**OCTOBER 11 - 14, 2006**

**Renaissance Atlanta Downtown Hotel  
Atlanta, Georgia**

# INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY

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University of North Carolina-Greensboro

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University of Oklahoma

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University of Delaware

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Oswego University

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Rebecca D. Foushee  
University of Alabama

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University of Connecticut

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**International Society for Developmental Psychobiology**  
**39<sup>th</sup> Annual Meeting,**  
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**WEDNESDAY EVENING, OCTOBER 11<sup>TH</sup>**

**4:30 – 7:30      REGISTRATION**

**7:30 – 9:00      PAST PRESIDENTS' SYMPOSIUM**

Chair: Robert Lickliter

HOW ISDP CHANGED MY LIFE: TESTS OF ETHANOL INTAKE AND  
REINFORCEMENT IN EARLY ONTOGENY

**Norman "Skip" Spear**

Center for Developmental Psychobiology, Binghamton University

WHAT PARENTS PASS ON: EXTENDING THE CONCEPT OF INHERITANCE

**Celia Moore**

Department of Psychology  
University of Massachusetts Boston

**9:00 – 10:00      WELCOME RECEPTION WITH CASH BAR  
VISTA FOYER**

9:00      SOCIALLY-GUIDED VOCAL LEARNING OF PHONOLOGICAL  
FORM IN PRELINGUISTIC INFANTS

M. H. Goldstein, J. A. Schwade and S. Syal

9:15      CAREGIVER RESPONSIVENESS TO PRELINGUISTIC  
VOCALIZATIONS MEDIATED BY CONTEXT AND ACOUSTIC  
STRUCTURE

J. Gros-Louis and E. Ables

9:30      NARROWING OF INTERSENSORY PERCEPTION IN HUMAN  
INFANTS

D. J. Lewkowicz

**9:45 – 10:00      Morning Break**

**10:00 – 12:00      NICHD SYMPOSIUM  
ALCOHOL AND DEVELOPMENT: BEYOND FAS**

Chair: Juan Molina

Organizers: Linda Spear and Regina Sullivan

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**THURSDAY OCTOBER 12<sup>TH</sup>**

**8:00 – 8:30      Continental Breakfast and Coffee**

**8:30 – 9:45      Oral Session 1**

Chair: April Ronca

8:30      DEPRESSED MOTHER'S INTRUSIVE VERSUS WITHDRAWN  
INTERACTION STYLE DIFFERENTIALLY AFFECT THE  
DEVELOPMENT OF INFANT FRONTAL EEG ASYMMETRY

M. A. Diego and T Field

8:45      SLEEP, CORTISOL, AND THE LATE ADOLESCENT TRANSITION  
TO COLLEGE

S. E. Gans, V. K. Johnson, S. Kerr and A. A. Cairns

10:00      EARLY LEARNING ABOUT THE SENSORY PROPERTIES OF ALCOHOL  
**Julie Mennella**, Monell Chemical Senses Center

10:40      ADOLESCENCE: DIFFERENTIAL ALCOHOL SENSITIVITIES AND INTAKE  
**Linda Spear**, Binghamton University

11:20      DEVELOPMENT OF ALCOHOL DEPENDENCE: THE ROLE OF FEEDING,  
NUTRITION AND REINFORCEMENT SYSTEMS  
**Michael Lewis**, Hunter College, CUNY

This symposium is supported by NIH/NICHD

**12:00 – 1:30      Lunch**

**12:00 – 1:30      Wiley Editorial Board Luncheon**

**1:30 – 2:45 Oral Session 2**

Chair: Susie Swithers

- 1:30 MODERATE NEONATAL CHALLENGES MAY IMPROVE THE VALIDITY OF EXPERIMENTAL OUTCOMES THROUGH A REDUCTION OF FEAR RESPONSES IN ADULT MICE  
S. Macrì, P. Pasquali, S. Pieretti and G. Laviola
- 1:45 DIFFERENTIAL DOPAMINERGIC REGULATION OF CONTACT QUIETING OF ISOLATED RAT PUPS IN RESPONSE TO DAM OR LITTERMATES  
H. Shair, J. Muller, M. Myers and H. Moore
- 2:00 EARLY LIFE ISOLATION OR MATERNAL SEPARATION: EFFECTS ON GLUCOCORTICOID RECEPTOR mRNA AND GABA RECEPTOR SUBUNIT mRNA  
W. Shoemaker, J. Covault, L. Burian and A. Armstrong
- 2:15 PRENATAL SEROTONIN REUPTAKE INHIBITOR EXPOSURE: FETAL AND INFANT OUTCOMES  
A. Salisbury, J. DiPietro, T. Pearlstein, K. Wisner, S. Carr and B. Lester
- 2:30 EXTINCTION IN PREWEANLING RATS: THE ABSENCE OF RENEWAL, REINSTATEMENT, AND FG7142 EFFECTS  
J. Kim and R. Richardson

**2:45 – 3:00 Afternoon Break****3:00 – 4:00 PRESIDENTIAL ADDRESS**

Chair: Regina Sullivan

"A DEVELOPMENTAL PSYCHOBIOLOGICAL APPROACH TO THE DEVELOPMENT OF INFANT HANDEDNESS"

**George Michel**

Department of Psychology, University of North Carolina at Greensboro

**4:00 – 5:30****TRAVEL AWARD 5 MINUTE PRESENTATIONS**

Chair: Mark Blumberg

Awardee	Sponsor	Institution
Akers, K.	A. Tang	Univ. New Mexico
Antemano, R.	K. Braun	Otto von Guericke Univ.
Arakawa, H.	R. Blanchard	Univ. Hawaii
Bagot, R.	M. Meaney	McGill Univ.
Bauer, J.	M. Myers	Columbia Univ.
Burke, K.	J. Turman Jr.	Univ. So. Calif.
Castellanos, I.	L. Bahrack	Florida Internatl. Univ.
Chadman, K.	M. Stanton	Univ. Delaware
Doremus-Fitzwater, T.	L. Spear	Binghamton Univ.
Evans, L.	M. Myers	Columbia Univ.
Ferris, M.	R. Booze	Univ. So. Carolina
Fitting, S.	C. Mactutus	Univ. So. Carolina
Frank, M.	R. Lickliter	Florida Internatl. Univ.
Harshaw, C.	R. Lickliter	Florida Internatl. Univ.
Maken, D.	M. Hennessey	Wright State Univ.

**6:00 – 8:00****Poster Session I (Cash Bar)**

- MULTIPLE DOSES OF ERYTHROPOIETIN (EPO) PROVIDE LONG-TERM NEURAL AND BEHAVIORAL PROTECTION FOLLOWING STROKE IN NEONATAL RATS  
R.A. Abel, F.F. Gonzalez, D. Mu, P.S. McQuillen, D.M. Ferriero and C.R. Almlı
- "SOCIAL CONTROL" BETWEEN TWO STRANGERS--IMPACT OF NEONATAL NOVELTY EXPOSURE ON ADULT SOCIAL INTERACTION  
K. G. Akers, B. C. Reeb, R. D. Romeo, B. S. McEwen, J. Kagan, R. J. Dolan and A. C. Tang
- STRESS-INDUCED CHANGES OF S100B- AND GFAP- IMMUNOREACTIVE ASTROCYTE NUMBER AND SIZE IN THE RODENT PREFRONTAL CORTEX  
R. Antemano, C. Helmeke and K. Braun
- THE EFFECTS OF JUVENILE ISOLATION AND DIFFERENT SEX, AGE AND RELATEDNESS OF REARING-PAIRS ON DEFENSIVE BURYING BEHAVIORS IN RATS  
H. Arakawa
- OPERANT CONDITIONING IN 5-DAY OLD RATS: CHANGES IN MILK SELF-ADMINISTRATION PATTERNS  
C. Arias, A. Molina, N. Spear and J. Molina

6. DEVELOPMENT OF SPONTANEOUS EYE BLINKING: LINKS TO TEMPERAMENT  
L. Bacher, K. Wallace, L. Poole, J. Valdez, B. Leece, K. Cunningham, J. Wilson and A. Mclean
7. ANTENATAL PROGRAMMING OF ADULT BODY MASS AND COMPOSITION IN MALE RATS: EFFECTS OF CHRONIC PRENATAL STRESS  
L. A. Baer, C. E. Wade, and A. E. Ronca
8. NATURAL VARIATIONS IN MATERNAL CARE AND REGULATION OF CONTEXTUAL FEAR CONDITIONING IN THE RAT  
R. C. Bagot and M. J. Meaney
9. WITHIN FAMILY VARIANCE IN MATERNAL AND WEANLING BEHAVIOR  
C. E. Barrett and S. A. Cavigelli
10. PRENATAL EXPOSURE TO FLUOXETINE INCREASES PAIN THRESHOLDS OF INFANT RATS  
J. Bauer, S. A. Brunelli, A. Y. Tu, and M. M. Myers
11. FUNCTIONAL IMAGING OF THE LIMBIC SYSTEM DURING TWO-WAY ACTIVE AVOIDANCE TRAINING IN ADOLESCENT RATS  
J. Bock, A. Riedel, T. B. Ruhl, M. Gruss, and K. Braun
12. SELECTION FOR PUP SEPARATION CALLS INFLUENCES GENE EXPRESSION ASSOCIATED WITH ADULT HPA FUNCTION IN HIGH AND LOW USV LINES.  
A. D. Branscom, L. Y. Moyano, M. A. Hofer and S. A. Brunelli,
13. PERFORMANCE OF 2-YEAR-OLD CHILDREN ON THE DIMENSIONAL CHANGE CARD SORT TASK  
L. Buonomano, K. Morasch and M. A. Bell
14. UNILATERAL NEONATAL HYPOXIC-ISCHEMIC BRAIN INJURY ALTERS DEVELOPMENT OF THE CONTRALATERAL PREFRONTAL CORTEX  
K.A.Burke I; M.McCaughan, R.Abel, C.R.Almli, J.E.Turman
15. DEVELOPMENT OF EYEBLINK CONDITIONING: STIMULATION OF THE MEDIAL AUDITORY THALAMUS AS A CONDITIONED STIMULUS  
M. M. Campolattaro and J. H. Freeman
16. INTERSENSORY REDUNDANCY EDUCATES INFANTS' ATTENTION TO AMODAL INFORMATION IN UNIMODAL STIMULATION  
I. Castellanos, M. Vaillant-Molina, R. Lickliter and L. Bahrick
17. RISPERIDONE IMPAIRS LEARNING IN WEANLING RATS  
K. K. Chadman, D. J. Watson and M. E. Stanton
18. PRENATAL ETHANOL EXPOSURE INTERFERES WITH POSTNATAL LEARNING ABOUT ETHANOL AS A FUNCTION OF AGE IN RAT PUPS  
M. G. Chotro, C. Arias and N. E. Spear
19. STIMULUS PREEXPOSURE DOES NOT FACILITATE LONG-DELAY EYEBLINK CONDITIONING IN YOUNG RATS  
D. Claflin and C. Morita
20. THE RELATIONSHIP AMONG MATERNAL TEMPERAMENT CHARACTERISTICS AND PREMATURE RUPTURE OF MEMBRANES (PROM)  
A. D. Clements, W. E. Dixon, Jr. , and J. Gorniewicz
21. DO 6- TO-10 MONTHS OLD INFANTS SCAN OBJECTS DIFFERENTLY PRIOR TO REACHING?  
D. Corbetta, J. Williams and W. Snapp-Childs
22. RESPONSES TO PRE- AND POST-NATAL MATERNAL STRESS DIFFER IN C57BL/6 AND BALB/C MICE  
C. P. Cramer and V. Nguyen
23. ANXIOLYTIC EFFECTS OF DIAZEPAM IN ADOLESCENT AND ADULT MALE AND FEMALE RATS : IMPACT OF SOCIAL VERSUS NON-SOCIAL TESTING  
T. L. Doremus-Fitzwater, E. I. Varlinskaya and L. P. Spear
24. MATERNAL SENSITIVITY PREDICTS PHYSIOLOGIC REGULATION IN HUMAN INFANTS  
L. Evans, L. Kaplan, E. Warner, S. Cabral, S. Mbabazi and C. Monk
25. ENDURING RECEPTOR ALTERATIONS RESULTING FROM PRENATAL COCAINE EXPOSURE  
M. J. Ferris, J. M. Silvers, U. Hasselrot, B. J. Strupp, C. F. Mactutus and R. M. Booze
26. HIV-1 PROTEINS: DIFFERENTIAL NEUROBEHAVIORAL EFFECTS IN YOUNG AND ADULT RATS  
S. Fitting, R. M. Booze and C. F. Mactutus

27. INTERMODAL PERCEPTION OF SELF: INFANTS' SENSITIVITY TO TEMPORAL AND SPATIAL CONTINGENCIES  
R. Flom and L. Bahrick
28. EARLY DETERMINANTS OF FRUIT AND VEGETABLE ACCEPTANCE  
C. A. Forestell and J. A. Mennella
29. THE INFLUENCE OF ENRICHED REARING ON FREEZING AND ACTIVITY LEVELS IN BOBWHITE QUAIL CHICKS  
M. Frank, C. Harshaw and R. Lickliter
30. DEVELOPMENT OF EYEBLINK CONDITIONING: STIMULATION OF THE COCHLEAR NUCLEI AS A CONDITIONED STIMULUS  
J. H. Freeman and J. L. Wood
31. CIRCADIAN VARIATIONS IN SLEEP AND WAKEFULNESS IN DEVELOPING RATS  
A. J. Gall, B. Ray and M. S. Blumberg
32. YOUNG INFANTS' CAPACITY FOR PERCEPTION OF OBJECTS ACROSS 2D VIEWS  
P. Gerhardstein, J. Tse and G. Shroff
33. THE NUMBER AND AGE OF SUCKLING PUPS DETERMINES THE DURATION OF MOTHER-YOUNG CONTACT IN RABBITS  
G. González-Mariscal and A. Toribio
34. AGE-RELATED CHANGES IN THE EFFECT OF PRACTICE ON RETENTION BY HUMAN INFANTS  
J. Gross and H. Hayne
35. EFFECTS OF INTERSENSORY REDUNDANCY AND STIMULUS CONTINGENCY ON EARLY PERCEPTUAL LEARNING  
C. Harshaw, L. Bahrick and R. Lickliter
36. AROUSAL DEFICITS IN APNEIC PREMATURE INFANTS TREATED WITH THEOPHYLLINE AND CAFFEINE  
M. J. Hayes, M. R. Akilesh, A. A. Gilles, M. Fukumizu, B.A. Sallinen, and M. Troese
37. DECREASED CEREBROSPINAL FLUID OXYTOCIN CONCENTRATIONS ASSOCIATED WITH CHILDHOOD MALTREATMENT IN ADULT WOMEN  
C. Heim, D. J. Newport, T. Mletzko, A. H. Miller, L. J. Young and C. B. Nemeroff
38. TIME FOR A CHANGE OF SCENERY? LEAVING THE LEARNING CONTEXT FACILITATES GENERALISATION BY 12-MONTH-OLD HUMAN INFANTS  
E. J. H. Jones, R. MacLeod, V. Stuart and J. S. Herbert
39. PREFERENCE OF MOTHER TO FATHER IN NEWBORN MICE  
N. Kodama and A. Yamamoto
40. THERMOTACTILE INDUCTION OF FILIAL HUDDLING PREFERENCES  
S. Kojima and J. R. Alberts
41. NEGATIVE MATERNAL BEHAVIOR PREDICTS OFFSPRING'S SPATIAL COGNITION  
A. M. Korzekwa, E. Jaetao, B. C. Reeb and A. C. Tang
42. EARLY AUDITORY EXPERIENCE AND ITS IMPACT ON AUTONOMIC NERVOUS SYSTEM DEVELOPMENT IN PRETERM INFANTS  
C. Krueger
43. SOCIAL BUFFERING OF THE PLASMA CORTISOL RESPONSE TO NOVELTY IN MATURING MALE GUINEA PIGS  
D. S. Maken and M. B. Hennessy

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**FRIDAY OCTOBER 13<sup>TH</sup>**

- 7:00 – 8:25**      **Board Meeting**
- 8:00 – 8:30**      **Continental Breakfast and Coffee**
- 8:30 – 9:30**      **Oral Session 3**  
Chair: Harlene Hayne
- 8:30      ALPHA-MSH ATTENUATES PASSIVE RESPONSES INDUCED BY  
CRF and LPS in ISOLATED GUINEA PIG PUPS  
M. B. Hennessy, P. A. Schiml-Webb, E. E. Miller and T. Deak
- 8:45      STIMULATION OF THE SEROTONERGIC SYSTEM AS A METHOD  
FOR EXAMINING DEVELOPMENTAL PLASTICITY OF  
LOCOMOTOR MECHANISMS IN THE RAT  
M. R. Brumley and S. R. Robinson
- 9:00      IN VIVO PROTON MR SPECTROSCOPIC DETECTION OF  
NEUROCHEMICAL MODULATION IN INFANT RATS FOLLOWING  
BIRTH ASPHYXIA  
A.E. Ronca, T. F. Atwood, G. A. Kleven, R. E. Jordan and J. -M. Zhu
- 9:15      SOCIAL COMPLEXITY AS A COMMUNICATIVE CONSTRAINT:  
GROUP SIZE INFLUENCES VOCAL COMPLEXITY IN CAROLINA  
CHICKADEES  
T. M. Freeberg
- 9:30 – 10:00**      **DISSERTATION AWARD**  
**Gale A. Kleven**  
University of Iowa      Thesis Advisor: Scott R. Robinson
- PATTERNS OF EARLY BEHAVIORAL DEVELOPMENT AFTER  
EXPOSURE TO A PROTOTYPICAL NEUROTOXIN  
METHYLAXOZYMETHANOL (MAM)
- 10:00 – 10:15**      **Morning Break**

- 10:15 – 12:15**      **NICHD SYMPOSIUM**  
**UPDATE ON SUDDEN INFANT DEATH SYNDROME**  
Chair: Michael M. Myers
- 10:15**      WHAT ARE THE MECHANISMS OF SIDS? CLUES FROM EPIDEMIOLOGY  
**Ed Mitchell**, University of Auckland
- 10:55**      SEROTONIN AND SIDS  
**Hannah Kinney**, Harvard Medical School
- 11:35**      ALTERED AUTONOMIC DEVELOPMENT IN SIDS  
**William Fifer**, Columbia University

This symposium is supported by NIH/NICHD

- 12:15 – 1:45**      **Lunch**  
**12:15 – 1:45**      **Board Luncheon with Past Presidents**
- 1:45 – 3:00**      **JOHN WILEY AWARD AND JOHN WILEY INVITED ADDRESS**
- HENNESSY-SMOTHERMAN-WILEY BEST STUDENT JOURNAL ARTICLE AWARD**  
Award Presenter: Michael Hennessy  
**Winner: Jennifer Gregg**  
Placentophagia in naïve adults, new fathers, and new mothers in the biparental  
dwarf hamster, *Phodopus campbelli*. *Developmental Psychobiology* **47**: 179–188,  
2005. *With Katherine Wynne-Edwards.*

- JOHN WILEY INVITED ADDRESS**
- THE RELATION BETWEEN NEURONAL REPLACEMENT AND LEARNING
- Fernando Nottebohm, Ph.D.**  
The Rockefeller University
- Chair: George Michel  
Wiley Representative: Joe Ingram

**3:00 – 3:15 Afternoon Break**

**3:15 – 4:15 Oral Session 4**

Chair: Gabriela González-Mariscal

3:15 NARCOLEPSY AS THE REVERSION TO AN INFANTILE STATE OF SLEEP-WAKE ORGANIZATION

M. S. Blumberg, E. D. Johnson, C. Shaw, and C. M. Coleman

3:30 OVARIAN HORMONES INFLUENCE DEVELOPMENT OF INGESTIVE RESPONDING TO ALTERATIONS IN FATTY ACID OXIDATION

S. E. Swithers

3:45 WHAT MAKES AN ADAPTIVE RAT--"BETTER" MOTHERS OR EXPOSURE TO NOVELTY?

A. C. Tang, K. G. Akers, B. C. Reeb, A. M. Korzekwa and L. N. Rogers

4:00 POST-TRAINING ETHANOL DISRUPTS TRACE CONDITIONED FEAR IN ADOLESCENT RATS

P. S. Hunt, B. M. Spector and L. A. Kostelnik

**4:15 – 5:45 NIH TRAVEL AWARD 5 MINUTE PRESENTATIONS**

Chair: Leigh Bacher

<b>Awardee</b>	<b>Sponsor</b>	<b>Institution</b>
Mendez-Gallardo, V.	S. Robinson	Univ. Iowa
Morasch, K.	M.A. Bell	VA Polytech Inst. & State Univ.
Nunez, Y.	H. Shair	Mercy College
Parent, C.	M. Meaney	McGill Univ.
Pham-Escobar, B.	R. Lickliter	Florida Internat. Univ.
Phan, H.	B. Karmel	NYS Inst. Devel. Disabil.
Pomarenski, A.	A. Gratton	McGill Univ.
Reeb, B.	A. Tang	Univ. New Mexico
Syal, S.	M.H. Goldstein	Cornell Univ.
Tai W-C	J. Turman Jr.	Univ. Southern Calif.
Tininenko, J.	J.C. Ablow	Univ. Oregon
Tourgeman, I.	R. Lickliter	Florida Internat. Univ.
Tustin, K.	H. Hayne	University of Otago
Wilber, A.	C. Wellman	Univ. Indiana
Woller, S.	S. Robinson	Univ. Iowa
Zack, E.	R. Barr,	Georgetown Univ.

**6:00 – 8:00 Poster Session 2 (Cash Bar)**

1. DIFFERENCES IN MATERNAL CARE HAVE NO DIRECT EFFECT ON THE DEVELOPMENT OF AGGRESSIVE BEHAVIOR IN BALB/C AND C57 MOUSE STRAINS  
E. Lauterbach, L. Groot and M. Meaney
2. BALANCE DEFICITS ASSOCIATED WITH NEONATAL ETHANOL EXPOSURE ARE ATTENUATED BY COMPOUNDS KNOWN TO MODULATE POLYAMINE ACTIVITY  
B. Lewis, K. A. Wellman, M. A. Rubin and S. Barron
3. QUANTITATIVE AND KINEMATIC ANALYSIS OF CHANGES IN INTERLIMB COORDINATION DURING MOTOR LEARNING IN THE INTACT AND SPINALIZED NEONATAL RAT  
A. J. Marciano-Reik, N. M. Khetarparl and S. R. Robinson
4. TRANSIENT CO-OCCURRENCE OF RIPPLE- AND GAMMA-PRENATAL AUDITORY STIMULATION MODIFIES ZENK PROTEIN EXPRESSION IN TELEENCEPHALIC REGIONS IN BOBWHITE QUAIL CHICKS  
R. Markham and R. Lickliter
5. PARTICIPATION OF PROLACTIN DERIVED FROM MATERNAL MILK DURING THE EARLY POSTNATAL PERIOD ON THE DEVELOPMENT OF EMOTIONALITY IN MALE AND FEMALE RATS  
A. I. Melo, M. Pérez-Ledezma, M. Hernández-Curiel and A. S. Fleming
6. OPIOID-MEDIATED EFFECTS OF AMNIOTIC FLUID ON CHEMOSENSORY RESPONSES IN THE NEONATAL RAT  
V. Mendez-Gallardo and S. R. Robinson
7. SWEET TASTE LIKING, BODY WEIGHT, AND DEPRESSION IN CHILDREN  
J. A. Mennella, M. Y. Pepino and A. L. Steinmeyer
8. ASSOCIATIVE AND NONASSOCIATIVE LEARNING SOON AFTER BIRTH  
S. S. Miller and N. E. Spear
9. INFANTS' INTERMODAL PERCEPTION OF CANINE EXPRESSIONS AND VOCALIZATIONS  
B. Mills, H. Whipple, N. Larson, L. Jackman, I. Simpson, K. Burgon, P. Fairbourn, A. Vilburn, J. Christensen and R. Flom



10. TRANSIENT CO-OCCURRENCE OF RIPPLE AND GAMMA--FREQUENCY OSCILLATIONS DURING A PERIOD OF HYPEREXCITABILITY IN THE NEONATAL RAT HIPPOCAMPUS IN VIVO  
E. J. Mohns, K. Æ. Karlsson and M. S. Blumberg
11. LOCOMOTIVE AND THERMAL EFFECTS OF ETHANOL UNDERLYING THE ACQUISITION OF ETHANOL-MEDIATED SECOND-ORDER CONDITIONING  
J. C. Molina, R. M. Pautassi, E. M. Truxell and N. E. Spear
12. RELATIONS BETWEEN INFANT BRAIN ELECTRICAL ACTIVITY AND TODDLER RECOGNITION MEMORY  
K. C. Morasch and M. A. Bell
13. MATERNAL PRESENCE SERVES AS A SWITCH BETWEEN LEARNING FEAR AND ATTRACTION IN INFANCY  
S. Moriceau and R. M. Sullivan
14. THE POTENTIATION OF RAT PUPS' ISOLATION VOCALIZATION BY PRIOR AFFILIATIVE CONTACT IS MODULATED BY DOPAMINE D2 RECEPTORS IN THE VENTRAL STRIATUM  
J. M. Muller, M. M. Myers, H. Moore and H. N. Shair
15. ABILITY TO OBTAIN SOCIAL INTEREST IS IMPAIRED BY NEONATAL OXYGEN DEPRIVATION  
M. Nakazawa, A. M. Korzekwa, K. G. Akers and A. C. Tang
16. REINFORCING EFFECTS OF CENTRAL ETHANOL INJECTIONS IN NEWBORN RAT PUPS: CLASSICAL OLFACTORY CONDITIONING WITH LEMON ODOR  
M. E. Nizhnikov, E. I. Varlinskaya and N. E. Spear
17. RECENCY OF SOCIAL CONTACT INFLUENCES ISOLATION-INDUCED ULTRASONIC VOCALIZATION OF 2-WEEK-OLD RAT PUPS  
Y. Nunez, S. A. Brunelli and H. N. Shair
18. STABILITY AND POTENTIAL INHERITANCE OF MATERNAL AND NON-MATERNAL RESPONSES IN NAIVE FEMALE PRAIRIE VOLES  
D. E. Olazabal and L. J. Young
19. DOMINANCE STATUS IN THE FEMALE RAT IS INFLUENCED BY NATURAL VARIATIONS IN MATERNAL CARE  
C. I. Parent, A. Del Corpo, N. M. Cameron and M. J. Meaney
20. MOTIVATIONAL PROPERTIES OF ETHANOL IN PREWEANLING RATS ASSESSED BY MEANS OF A NOVEL OPERANT LEARNING TASK  
R. M. Pautassi, E. M. Truxell, J. C. Molina and N. E. Spear
21. AROUSAL INFLUENCES PERCEPTUAL LEARNING IN BOBWHITE QUAIL EMBRYOS  
B. Pham-Escobar and R. Lickliter
22. AUDITORY BRAINSTEM EVOKED RESPONSES IN NEWBORN TWINS  
H. T. T. Phan, B. Z. Karmel and J. M. Gardner
23. NATURAL VARIATIONS IN MATERNAL CARE INFLUENCE AMPHETAMINE-INDUCED LOCOMOTION DURING PERIADOLESCENCE BUT NOT BEHAVIOURAL SENSITIZATION IN ADULTS  
J. Pomarenski, M. J. Meaney, and A. Gratton
24. EXPLAINING EARLY STIMULATION EFFECT: MATERNAL MEDIATION OR MATERNAL MODULATION?  
B. C. Reeb, R. D. Romeo, B. S. McEwen and A. C. Tang
25. RENEWAL IS DEPENDENT ON EXTINCTION-TEST INTERVAL BUT NOT ACQUISITION-EXTINCTION INTERVAL  
R. Richardson and J. H. Kim
26. PERTURBATION AND COUPLING OF BODY MOVEMENT AND GAZE THREE MONTHS AFTER BIRTH  
S. Robertson, S. Johnson, A. Masnick and S. Weiss
27. OPERANT GENERALIZATION IN NORTHERN BOBWHITE NEONATES  
S. M. Schneider and R. Lickliter
28. NURSING AFTER MOTHER / PUP SEPARATION FOR 24 HOURS  
M. Scurlock, R. Wall, H. Lyman and H. Schreiber
29. STATE-DEPENDENT NEOCORTICAL ACTIVITY IS PRESENT BEFORE THE ONSET OF DELTA WAVES IN INFANT RATS  
M. H. Seelke and M. S. Blumberg
30. ADOLESCENT ETHANOL-INDUCED IMPAIRMENTS IN SPATIAL LEARNING AND MEMORY: ROLE OF NMDA RECEPTOR  
R. Sircar, A. K. Basak and D. Sircar
31. EFFECTS OF PRENATAL VISUAL STIMULATION ON INCUBATION LENGTH AND HATCH PATTERNS OF BOBWHITE QUAIL  
M. Sleight, E. Davis and M. Williams

32. PRELINGUISTIC VOCALIZATIONS SIGNAL A READINESS TO LEARN  
S. Syal, M. H. Goldstein, J. A. Schwade and M. Kim
33. IMPACT OF POSTNATAL DAY 3 HYPOXIC-ISCHEMIC BRAIN INJURY ON RAT FEEDING BEHAVIORS  
W. C. Tai, K. A. Burke, A. Harrold and J. E. Turman, Jr.
34. SEX SPECIFIC MATERNAL SEPARATION EFFECTS ON STRESS REACTIVITY AND ODOR PREFERENCES IN ADOLESCENT CD-1 MICE  
N. R. Thomas, K. Leister and C. A. Cornwell
35. RESPIRATORY CONTROL METHODOLOGY WHEN MEASURING RESPIRATORY SINUS ARRHYTHMIA (RSA) DURING A TALKING TASK  
J. R. Tininenko and J. C. Ablow
36. EFFECTS OF STIMULUS CONTINGENCY ON MALLEABILITY OF SPECIES-SPECIFIC AUDITORY PREFERENCES  
I. Tourgeman, C. Harshaw and R. Lickliter
37. NEONATAL SLEEP IN INFANTS WITH PRENATAL ALCOHOL EXPOSURE  
M. Troese, A. A. Gilles, B. A. Sallinen, M. Fukumizu, E. Brown and M. J. Hayes
38. A NEW TASK TO STUDY MEMORY DEVELOPMENT DURING EARLY CHILDHOOD  
K. Tustin and H. Hayne
39. ACUTE RESTRAINT STRESS INCREASES SENSITIVITY TO SOCIAL CONSEQUENCES OF ETHANOL IN ADOLESCENT RATS  
E. I. Varlinskaya and L. P. Spear
40. THE EFFECT OF SYSTEMIC AND INTRA-HIPPOCAMPAL ADMINISTRATION OF MK-801 ON SPATIAL DELAYED ALTERNATION WEANLING RATS  
D. J. Watson, M. R. Herbert and M. E. Stanton
41. NEONATAL MATERNAL SEPARATION ALTERS ADULT EYEBLINK CONDITIONING AND GLUCOCORTICOID RECEPTOR EXPRESSION IN THE CEREBELLAR INTERPOSITUS NUCLEUS  
A. A. Wilber, C. J. Southwood, G. Sokoloff, J. E. Steinmetz and C. L. Wellman
42. MOTOR MEMORY IN THE INFANT RAT: POSITIVE AND NEGATIVE TRANSFER EFFECTS AFTER YOKE TRAINING OF DIFFERENT LIMB PAIRS AND INTERLIMB PATTERNS  
S. A. Woller, A. J. Marcano-Reik and S. R. Robinson
43. IMITATION FROM 2D IMAGES AND 3D OBJECTS BY 9- AND 15-MONTH-OLDS  
E. Zack, E. O'Brien, R. Barr, G. Schroff, S. Miller and P. Gerhardstein
44. SPATIAL LEARNING DIFFERENCES IN RATS BRED FOR AN INFANTILE VOCALIZATION PHENOTYPE: EFFECTS OF ENRICHED ENVIRONMENT HOUSING  
B. Zimmerberg, T. A. Van Kempen, R. C. Jordan, A. L. Nicol and S. A. Brunelli

**International Society for Developmental Psychobiology  
39<sup>th</sup> Annual Meeting,  
October 11-14, 2006  
Atlanta, Georgia**

**SATURDAY, OCTOBER 14<sup>TH</sup>**

**7:00 – 8:25 Board Meeting**

**8:00 – 8:30 Continental Breakfast and Coffee**

**11:15 – 11:30 Morning Break**

**8:30 – 9:15 SANDRA G. WEINER AWARDS**

Chair: Rick Richardson

**11:30 – 12:30 Business Meeting**

**8:30 Ni Lan**, University of British Columbia, Sponsor: Joanne Weinberg  
Effects of testosterone on hypothalamic-pituitary-adrenal function in male rats  
prenatally exposed to ethanol

**8:45 Amy Jo Marcano-Reik**, Univ. of Iowa, Sponsor: Scott Robinson  
Quantitative and kinematic analysis of changes in interlimb coordination  
during motor learning in the intact and spinalized neonatal rat

**9:00 Adele Seelke**, Univ. of Iowa, Sponsor: Mark Blumberg  
State-dependent neocortical activity is present before the onset of delta waves  
in infant rats

**Post Meeting Event**

**1:00-3:00 (location TBA) Invited Meeting:** "Fetal State Identification."  
Intl. Perinatal Brain and Behavior Network Workshop.  
Organizers: Carolyn Granier-Deferre and Christine Moon.

**9:15 – 11:15**

**SACKLER SYMPOSIUM**

**AUTISM: HINTS FROM THE CLINIC AND THE LAB**

Chair: Gordon Barr

EYE-TRACKING STUDIES OF SOCIAL ENGAGEMENT IN INFANTS AND  
TODDLERS WITH AUTISM SPECTRUM DISORDERS

**Ami Klin**, Yale Child Study Center Autism Program,  
Child Psychology & Psychiatry Yale University School of Medicine

INTERPRETING BRAIN IMAGING STUDIES OF PERSONS WITH AUTISM:  
CAVEAT EMPTOR

**Bradley Peterson**, Department of Psychiatry, Columbia College of  
Physicians & Surgeons & New York State Psychiatric Institute

TRANSLATIONAL RESEARCH APPROACHES FOR STUDYING THE  
PATHOPHYSIOLOGY OF AUTISM

**Pat Levitt**, Vanderbilt Kennedy Center for Research on Human  
Development

# INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY

## 2006 AWARD WINNERS

### Dissertation Award Winner

Name	Institution	Advisor
Gale Kleven	University of Iowa	Scott Robinson

### Sandra G. Wiener Awards

Name	Institution	Advisor
Ni Lan	University of British Columbia	Joanne Weinberg
Amy Jo Marciano-Reik	University of Iowa	Scott Robinson
Adele Seelke	University of Iowa	Mark Blumberg

### NIH Travel Awards

Name	Advisor	Institution	Name	Advisor	Institution
Katherine Akers	Akaysha Tang	University of New Mexico	Valerie Mendez-Gallardo	Scott Robinson	University of Iowa
Rowena Antemano	Katharina Braun	Otto von Guericke University	Stacie Miller	Norman Spear	SUNY - Binghamton
Hiroyuki Arakawa	Robert Blanchard	University of Hawaii	Katherine Colona Morasch	Martha Ann Bell	Virginia Polytechnic Institute
Rosemary Bagot	Michael Meaney	McGill University	Stephanie Moriceau	Regina Sullivan	University of Oklahoma
Jessica Bauer	Michael Myers	Columbia University	Michael Nizhnikov	Norman Spear	Binghamton University
Michele Brumley	Scott Robinson	University of Iowa	Yasmin Nunez	Harry Shair	Mercy College
Lisa Buonomano	Mary Ann Bell	Virginia Polytechnic Institute	Carine Parent	Michael Meaney	McGill University
Katherine Burke	Jack Turman Jr.	University of Southern California	Barbara Pham-Escobar	Robert Lickliter	Florida International University
Irina Castellanos	Robert Lickliter	Florida International University	Ha Phan	Bernard Karmel	NYS Instit. Develop.Disabilities
Kathryn Chadman	Mark Stanton	University of Delaware	Amanda Pomarenski	Alain Gratton	McGill University
Tamara Doremus-Fitzwater	Linda Spear	Binghamton University	Bethany Reeb	Akaysha Tang	University of New Mexico
Linda Evans	Michael Myers	Columbia University	Supriya Syal	Michael Goldstein	Cornell University
Mark Ferris	Rosemary Booze	University of South Carolina	Wei-Cheng Tai	Jack Turman Jr.	University of Southern California
Sylvia Fitting	Charles Mactutus	University of South Carolina	Jennifer Tininenko	Jennifer Ablow	University of Oregon
Michael Frank	Robert Lickliter	Florida International University	Isaac Tourgeman	Robert Lickliter	Florida International University
Chris Harshaw	Robert Lickliter	Florida International University	Karen Tustin	Harlene Hayne	University of Otago
Jee Kim	Rick Richardson	University of New South Wales	Deborah Watson	Mark Stanton	University of Delaware
Amy Korzekwa	Akaysha Tang	University of New Mexico	Aaron Wiber	Cara Wellman	University of Indiana
Deborah Maken	Michael Hennessey	Wright State University	Sarah Woller	Scott Robinson	University of Iowa
			Elizabeth Zack	Rachel Barr	Georgetown University

	Wednesday - 10/11		Thursday - 10/12		Friday - 10/13		Saturday - 10/14
				7:00 – 8:25	<b>Board Meeting</b>	7:00 – 8:25	<b>Board Meeting</b>
		8:00 – 8:30	<b>Continental Breakfast and Coffee</b>	8:00 – 8:30	<b>Continental Breakfast and Coffee</b>	8:00 – 8:30	<b>Continental Breakfast &amp; Coffee</b>
		8:30 – 9:45	<b>Oral Session 1</b>	8:30 – 9:30	<b>Oral Session 3</b>	8:30 – 9:15	<b>Sandra G. Weiner Awards</b> Ni Lan, Amy Jo Marcano – Reik Adele Seelke
		9:45 – 10:00	<b>Morning Break</b>	9:30 – 10:00	<b>Dissertation Award</b> Gale Kleven	9:15 – 11:15	<b>Sackler Symposium</b> <b>Autism: Hints from the Clinic and the Lab</b> Ami Klin Bradley Petersosn Pat Levitt
		10:00 – 12:00	<b>NICHD Symposium</b>	10:00 – 10:15	<b>Morning Break</b>		
			<b>Alcohol and Development: Beyond FAS</b> Julie Mennella Linda Spear Michael Lewis	10:15 – 12:15	<b>NICHD Symposium</b> <b>What are the Mechanisms of SIDS?</b> <b>Clues from Epidemiology</b> Ed Mitchell Hannah Kinney William Fifer	11:15 – 11:30	
		12:00 – 1:30	<b>Lunch</b>	12:15 – 1:45	<b>Lunch</b> <b>Board Meeting with Past Presidents</b>	12:30 – 12:30	<b>Morning Break</b> <b>BUSINESS MEETING – ALL INVITED</b>
							<b>END OF ISDP CONFERENCE</b>
		1:30 – 2:45	<b>Oral Session 2</b>	1:45 – 3:00	<b>John Wiley Awards</b> Best Student Paper: Jennifer Gregg	1:30 – 2:30	<b>Post Meeting Event</b>  <i>By Invitation</i> <b>International Perinatal Brain and Behavior</b> <b>Network Workshop</b>
		2:45 – 3:00	<b>Afternoon Break</b>		<b>John Wiley Invited Lecture</b> Fernando Nottebaum		
		3:00 – 4:00	<b>PRESIDENTIAL ADDRESS</b> George Michel	3:00 – 3:15	<b>Afternoon Break</b>		
		4:00 – 5:30	<b>NIH Travel Award 5 Minute Presentations</b>	3:15 – 4:15	<b>Oral Session 4</b>		
				4:15 – 5:45	<b>NIH Travel Award 5 Minute Presentation</b>		
4:30 – 7:30	<b>REGISTRATION</b>						
		6:00 – 8:00	<b>Poster Session 2 (Cash Bar)</b>	6:00 – 8:00	<b>Poster Session 2 (Cash Bar)</b>		
7:30 – 9:00	<b>Past Presidents Symposium</b> Skip Spear, Celia Moore  <b>Welcome Reception</b>						