

INTERNATIONAL SOCIETY FOR
DEVELOPMENTAL PSYCHOBIOLOGY

40TH ANNUAL MEETING
CONFERENCE PROGRAMME

OCTOBER 31 – NOVEMBER 3, 2007
SAN DIEGO, CA

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INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY
40TH ANNUAL MEETING
OCTOBER 31 – NOVEMBER 3, 2007
SAN DIEGO, CA

WEDNESDAY EVENING, OCTOBER 31

4:30 – 7:30 **REGISTRATION – Location TBA**

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

Chair: George Michel

MATERNAL SEPARATION: IT'S ENOUGH TO MAKE YOU SICK

Michael Hennessy

Department of Psychology, Wright State University

A CAREER IN DEVELOPMENTAL PSYCHOBIOLOGY: SOME
HIGHLIGHTS, JOYS, AND FRUSTRATIONS

Judy Stern

Department of Psychology, Rutgers University

9:00 – 10:00 **WELCOME RECEPTION WITH CASH BAR**
– Location TBA

THURSDAY, NOVEMBER 1

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

8:00 – 8:30 **CONTINENTAL BREAKFAST AND COFFEE**

8:30 – 10:30 **EMERGENCE OF SMART BEHAVIOUR: THE ROLE OF PERCEPTION-
ACTION SYSTEMS IN THE DEVELOPMENT OF COMPLEX COGNITIVE
CAPACITIES**

Chair: TBA

8:30 FLEXIBILITY AND SPECIFICITY OF MOTOR LEARNING
Karen Adolph, New York University

9:00 LEARNING TO PERCEIVE: THE ROLE OF OCULOMOTOR BEHAVIOR IN
PERCEPTUAL AND COGNITIVE DEVELOPMENT

Scott Johnson, New York University

9:30 FROM OBJECT MANIPULATION TO TOOL USE

Jeffrey Lockman, Tulane University

10:00 LEARNING BY BABBLING: VOCAL DEVELOPMENT IS GUIDED BY THE
PERCEPTION OF STRUCTURE IN SOCIAL INTERACTIONS

Michael Goldstein, Cornell University

10:30 – 11:00 **MORNING BREAK**

11:00 – 12:30 **ORAL SESSION 1**

Chair: Rachel Barr

11:00 ANATOMICAL AND FUNCTIONAL MAGNETIC RESONANCE IMAGING
(AMRI, FMRI) OF THE DEVELOPING HUMAN BRAIN
C.R. Almli

11:15 EEG FUNCTIONAL CONNECTIVITY OF EXTREMELY PREMATURE
INFANTS AT TERM AGE PREDICTS NEURODEVELOPMENTAL
OUTCOME AT ONE YEAR: AN ANALYSIS BASED ON THE CHIME DATA
SET – **NIH Travel Awardee**
A. Izraelit, P. Grieve, R. Stark, W.P. Fifer, R.A. Darnall, & M.M. Myers

11:30 FETAL HEART RATE RESPONSES OVER PREGNANCY PREDICT
INFANT MENTAL AND MOTOR DEVELOPMENT DURING THE FIRST
YEAR OF LIFE
C. Buss, Q. Class, E.T. Tan, M. Gierczak, C. Patillo, E.P. Davis, & C.A.
Sandman

11:45 EARLY (0-2 YEARS) CHARACTERISTICS OF HIGH-RISK INFANTS
DIAGNOSED OR SUSPECTED TO HAVE AUTISTIC SPECTRUM
DISORDERS
B.Z. Karmel, J.M. Gardner, I.L. Cohen, E. London, E.M Lennon, & M.J.
Flory

12:00 ATTENTIONAL MODULATION OF STEADY-STATE VISUAL EVOKED
POTENTIALS (SSVEP) IN VERY YOUNG INFANTS
S. Robertson & M. Wilbourn

12:15 THE INFANT RAT NEOCORTEX EXHIBITS MULTIPLE FORMS OF
STATE-DEPENDENT ACTIVITY BEFORE THE EMERGENCE OF DELTA
WAVES – **NIH Travel Awardee**
A.M.H. Seelke, A.J. Marcano-Reik, & M.S. Blumberg

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|---------------------|--|--|---|
| 12:30 – 2:00 | LUNCH | | |
| 12:30 – 2:00 | BOARD MEETING WITH PAST PRESIDENTS | | |
| 2:00 – 3:15 | AWARDS SYMPOSIUM | | |
| 2:00 | DISSERTATION AWARD | | 4:45 |
| | Vivian Hsu, Rutgers University Advisor: Carolyn Rovee-Collier THE PARAMETERS OF TIME-WINDOW SPACING ON MEMORY RETENTION | | VARIATION IN ACUTE FETAL RESPONSES TO MATERNAL PSYCHOLOGICAL CHALLENGE M.F.S.X. Novak, E.A. Kerschner, M.L. Miller, G.P. Sackett, & S.J. Suomi |
| 2:20 | KUCHARSKI YOUNG INVESTIGATOR | | 5:00 |
| | Michael Goldstein, Cornell University Title: TBA | | THE MOLECULAR SCARS OF EARLY STRESS: PERSISTING CHANGES IN DNA METHYLATION IN A MODEL OF MATERNAL MALTREATMENT T.L. Roth, F.D. Lubin, A.J. Funk, & J.D. Sweatt |
| 2:40 | SENIOR INVESTIGATOR | | 5:30 – 7:30 |
| | TBA Title: TBA | | POSTER SESSION 1 (CASH BAR) |
| | SANDRA G. WEINER AWARDS | | 1 |
| 3:00 | Deb Watson, University of Delaware Advisor: Mark Stanton | | DEPRESSION, ANXIETY AND CAFFEINE USE DURING PREGNANCY M.A. Diego & T. Field |
| 3:05 | Kathryn Lenz, University of Indiana Advisor: Dale R. Sengelaub | | 2 |
| 3:10 | Jee Hyun Kim, University of New South Wales Advisor: Rick Richardson | | SPONTANEOUS EYE BLINKING DURING THE FIRST YEAR: RELATIONSHIP TO TEMPERAMENT L. Bacher, K. Wallace, K. Cunningham, D. Major, & T. Miller |
| 3:15 – 3:45 | AFTERNOON BREAK | | 3 |
| 3:45 – 5:15 | ORAL SESSION 2 | | INDEPENDENT LOCOMOTION FACILITATES PRELINGUISTIC VOCAL DEVELOPMENT S. Syal & M.H. Goldstein |
| | Chair: TBA | | 4 |
| 3:45 | ESTABLISHMENT OF PREFERENTIAL NIPPLE USE IN KITTENS: WHEN, HOW, WHY? R. Hudson, R.D. González Cervantes, A. Bautista, & H. Distel | | PRACTICE FACILITATES THE DURATION OF RETENTION AND THE FLEXIBILITY OF MEMORY RETRIEVAL BY 12-MONTH-OLD INFANTS – NIH Travel Awardee J. Gross & H. Hayne |
| 4:00 | PREWEANING RAT PUPS RAPIDLY ACQUIRE A HUDDLING PREFERENCE FOR MATERNAL ODOR – NIH Travel Awardee S. Kojima & J.R. Alberts | | 5 |
| 4:15 | DEVELOPMENTAL MANIPULATIONS OF OXYTOCIN AND VASOPRESSIN SYSTEMS IN PRAIRIE VOLES K.L. Bales, E.M. Boone, & C.S. Carter | | MUSIC TRACK INTERFERES WITH IMITATION FROM TELEVISION DURING INFANCY R. Barr, L. Shuck, K. Salerno, M. Somanader, N. Miller, & D. Linebarger |
| 4:30 | COMMUNAL NESTING INDUCES ALTERNATIVE EMOTIONAL, SOCIAL AND MATERNAL BEHAVIOR IN OFFSPRING AND GRAND-OFFSPRING J.P. Curley, F.A. Champagne, & P. Bateson | | 6 |
| | | | CROSS-DIMENSION TRANSFER IN 15-MONTH-OLDS: IMITATION FROM 3D TO 2D AND 2D TO 3D – NIH Travel Awardee E. Zack, R. Barr, L. Shuck, G. Shroff, K. Dickerson, S. Miller, P. Gerhardstein, & A. Meltzoff |
| | | | 7 |
| | | | WHAT DO YOUNG CHILDREN REMEMBER ABOUT A UNIQUE EXPERIENCE AFTER A LONG DELAY? – NIH Travel Awardee K. Tustin & H. Hayne |
| | | | 8 |
| | | | DELAYED EXTINCTION AND SPONTANEOUS RECOVERY AT 3 MONTHS – NIH Travel Awardee C. Shafer & C. Rovee-Collier |
| | | | 9 |
| | | | SPEED OF RECOVERING A BRIEFLY PRIMED MEMORY AT 6 AND 9 MONTHS A.M. Hamilton & C. Rovee-Collier |
| | | | 10 |
| | | | THE SOCIAL-FUNCTION OF LOOKING IN PARENT-INFANT INTERACTION E.P. Charles |

- 11 ARE INFANTS SELECTIVELY TUNED TO INTERSENSORY TEMPORAL UNITY?
D.J. Lewkowicz
- 12 A MIXED MODELS ANALYSIS OF THE DEVELOPMENTAL RELATIONS AMONG INFANT PREHENSION HANDEDNESS AND HANDEDNESS FOR ROLE-DIFFERENTIATED BIMANUAL MANIPULATION – **NIH Travel Awardee**
C.L. Ferre & G.F. Michel
- 13 CHANGES IN HIGH-RISK INFANTS' AND TODDLERS' AFFECTIVE RESPONSES TO AROUSING STIMULI BY AGE AND TASK: COGNITION VS. REGULATION
J.M. Gardner, B.Z. Karmel, M.J. Flory, & E.M. Lennon
- 14 OBJECT, SURFACE AND OBJECT-ON-SURFACE MANIPULATION IN 10 MONTH OLD HIGH-RISK INFANTS – **NIH Travel Awardee**
Y. Bensinger-Brody, J.M. Gardner, & B.Z. Karmel
- 15 SALIVARY DIM LIGHT MELATONIN ONSET (DLMO) AS A MARKER OF CIRCADIAN PHASE IN PRESCHOOLERS
M.K. LeBourgeois, K. Garlo, R. Crossin, & M.A. Carskadon
- 16 EFFECTS OF PRENATAL EXPOSURE TO CORTISOL ON COGNITIVE FUNCTIONING AND TEMPERAMENT IN 5-YEAR OLDS
D.A. Korsen, E.P. Davis, L.M. Glynn, C.D. Dunkel Schetter, C. Hobel, A. Chicz-Demet, & C.A. Sandman
- 17 CHILDREN'S HEDONIC RESPONSE TO THE ODOR OF BEER: A WINDOW TO THEIR EMOTIONS?
J.A. Mennella & C.A. Forestell
- 18 RELATIONSHIP BETWEEN HAPLOTYPES OF THE TAS2R38 BITTER TASTE RECEPTOR GENE AND TASTE PERCEPTION IN CHILDREN, ADOLESCENTS AND ADULTS
J.A. Mennella, M.Y. Pepino, F. Duke, R. Anderson N'Diaye, & D.R. Reed
- 19 LANGUAGE IN INTERNATIONAL ADOPTION: EXPOSURE AND INDIVIDUAL DIFFERENCES – **NIH Travel Awardee**
J.M. Schuch, I.M. Eigsti, J. Evans, S.D. Pollak, & J. Miller
- 20 CORTISOL CONCENTRATIONS IN RHESUS MONKEY MILK: RELATIONSHIP TO CORTISOL CONCENTRATIONS IN PLASMA AND OFFSPRING SEX
E.C. Sullivan, K. Hinde, J.P. Capitanio, & S.P. Mendoza
- 21 A QUANTITATIVE ANALYSIS OF CHOICE IN THE QUAIL NEONATE: EXPLORING THE ORIGINS OF SENSITIVITY TO CONSEQUENCES
S.M. Schneider & R. Lickliter
- 22 AUDIOVISUAL TEMPORAL SYNCHRONY FACILITATES PRENATAL PERCEPTUAL LEARNING IN BOBWHITE QUAIL EMBRYOS – **NIH Travel Awardee**
M. Jaime, L. Bahrick, & R. Lickliter
- 23 BOBWHITE QUAIL NEONATES TRACK HUMAN EYE GAZE TO DIRECT THEIR AVOIDANCE BEHAVIOR – **NIH Travel Awardee**
J.P. Lopez, M. Jaime, & R. Lickliter
- 24 MODIFIED HEART RATE INTERFERES WITH PERCEPTUAL LEARNING IN BOBWHITE QUAIL EMBRYOS – **NIH Travel Awardee**
B. Pham-Escobar, J. Vaillant, & R. Lickliter
- 25 INTENSITY AND TYPE OF PRENATAL AUDITORY STIMULATION ALTERS POSTNATAL PERCEPTUAL PREFERENCE AND BEHAVIOR IN BOBWHITE QUAIL (*COLINUS VIRGINIANUS*)
R.D. Foushee & L. Meeks-Burgoon
- 26 ISOLATION AND REUNION RESPONSES IN 15-DAY-OLD PIGLETS
V. Colonnello, P. Iacobucci, & R.C. Newberry
- 27 A QUALITATIVE ANALYSIS OF ULTRASOUND VOCALIZATIONS EMITTED BY 12-D-OLD RATS DURING HOMING TEST
P. Iacobucci, V. Colonnello, G. Pavan, & L. Ricceri
- 28 EFFECTS OF PAIR HOUSING AFTER A SOCIAL DEFEAT ON ELEVATED PLUS-MAZE BEHAVIORS IN RATS
T. Nakayasu & K. Ishii
- 29 PRETEST MANIPULATIONS IMPACT ELEVATED PLUS-MAZE BEHAVIOR DIFFERENTIALLY ACROSS AGE IN ADOLESCENT AND ADULT RATS – **NIH Travel Awardee**
T.L. Doremus-Fitzwater, E.I. Varlinskaya, & L.P. Spear
- 30 OPERANT LEARNING IN THE NEWBORN RAT: PERSISTENCE OF RESPONDING – **NIH Travel Awardee**
K.A. Bordner, J.C. Molina, & N.E. Spear
- 31 OBJECT EXPLORATION IN THE DEVELOPING RAT: METHODOLOGICAL CONSIDERATIONS
C.J. Heyser & J.S. Ferris
- 32 PREWEANLING RATS SOLVE THE MORRIS WATER TASK VIA DIRECTIONAL NAVIGATION – **NIH Travel Awardee**
K.G. Akers, F.T. Candelaria, & D.A. Hamilton
- 33 COMPARISON OF QUALITATIVE AND QUANTITATIVE BEHAVIORAL ASSESSMENTS IN FETAL MICE THROUGH BOTH DIRECT AND ULTRASOUND OBSERVATIONAL TECHNIQUES – **NIH Travel Awardee**
G.A. Kleven & A.E. Ronca
- 34 BEHAVIOURAL ANALYSIS OF THE COLOBOMA MOUSE: DISSOCIATION OF SENSORY, MOTOR AND COGNITIVE IMPAIRMENTS
R.E. Brown, R. Gunn, & M.-E. Keenan
- 35 DISSOCIATING THE EFFECTS OF NEONATAL NOVELTY EXPOSURE AND MATERNAL STRESS RESPONSE ON ADULT OFFSPRING SPATIAL MEMORY
A.C. Tang, Z. Yang, A.M. Korzekwa, B. Reeb, R. Romeo, & B. McEwen

- 36 PREFERENCE OF FATHER TO NON-FATHER IN NEWBORN MICE
N. Kodama, A. Yamamoto, & Y. Niwa
- 37 DO MOTHER-OFFSPRING SEPARATIONS AFFECT MATERNAL BEHAVIOR? A TRAJECTORY ANALYSIS
A.N. Tyler & G.F. Michel
- 38 SLEEP REGULATION IN NEONATAL RATS: A REEXAMINATION
W.D. Todd & M.S. Blumberg
- 39 EARLY SIBLING COMPETITION AND DOMINANCE IN ADULT RABBITS – **NIH Travel Awardee**
L. Arteaga, M. Herrera-López, A. Bautista, M. Martínez-Gómez, & R. Hudson
- 40 NEWBORN RABBITS COMPETE FOR THERMALLY ADVANTAGEOUS POSITIONS IN THE LITTER HUDDLE – **NIH Travel Awardee**
A. Bautista, V. Reyes, E. García-Torres, M. Martínez-Gómez, & R. Hudson
- 41 GENDER SPECIFIC PROGRAMMING OF CHRONIC PRENATAL STRESS ON ADULT BODY WEIGHT REGULATION, HPA ACTIVITY AND BEHAVIOR
L.A. Baer, J.M. Zeeman, C.E. Wade, & A.E. Ronca
- 42 GENDER DIFFERENCES IN ANTI-OBESITY PROGRAMMING ACHIEVED BY EARLY INTERVENTIONS IN OLETF RATS – **NIH Travel Awardee**
M. Schroeder, L. Shbiro, V. Gelber, T.H. Moran, & A. Weller
- 43 MATERNAL INFLUENCE ON EARLY OBESITY DEVELOPMENT IN THE OLETF RAT
A. Weller, M. Schroeder, & T.H. Moran
- 44 BETWEEN-SIBLING AND BETWEEN-FAMILY DIFFERENCE IN BODY WEIGHT: THE ROLE OF NEONATAL NOVELTY EXPOSURE AND MATERNAL STRESS RESPONSE – **NIH Travel Awardee**
Z. Yang, B. Reeb, & A.C. Tang
- 45 AGE-ASSOCIATED TRAJECTORIES OF CONSUMPTION AND BODY WEIGHT GAIN IN PAIR- AND ISOLATE-HOUSED ADOLESCENT AND ADULT SPRAGUE-DAWLEY RATS – **NIH Travel Awardee**
C.S. Vetter & L.P. Spear

FRIDAY, NOVEMBER 2

7:00 – 8:25 BOARD MEETING

8:00 – 8:30 CONTINENTAL BREAKFAST AND COFFEE

8:30 – 10:30 NEURODEVELOPMENTAL CONSEQUENCES OF EARLY LIFE STRESS

Chair: TBA

8:30 RECURRENT BARRAGES OF MATERNAL CARE PROGRAM A LOWER EXPRESSION OF CORTICOTROPHIN RELEASING HORMONE IN THE PUP HYPOTHALAMUS: HOW?

Tallie Baram, UC Irvine

9:00 PRENATAL EXPOSURE TO MATERNAL STRESS HORMONES INFLUENCES HUMAN INFANT DEVELOPMENT

Elysia Poggi Davis, UC Irvine

9:30 CORTISOL IN BREAST MILK: POSSIBLE INFLUENCES ON INFANT DEVELOPMENT

Laura Glynn, UC Irvine

10:00 LONG-TERM EFFECTS OF PRENATAL PSYCHOSOCIAL STRESS EXPOSURE ON NEUROENDOCRINE, IMMUNE AND METABOLIC FUNCTION IN HUMAN ADULTS

Pathik Wadhwa, UC Irvine

10:30 – 10:45 MORNING BREAK

10:45 – 12:00

JOHN WILEY AWARDS

Hennessy-Smotherman Best Student Paper

Award Presenter: TBA

Winner: TBA

Paper Citation:

JOHN WILEY DISTINGUISHED SPEAKER

STRESS OVER THE LIFESPAN: CENTRAL ROLE OF THE BRAIN

Chair: Regina Sullivan

Wiley Representative: Joe Ingram

Bruce McEwen

Harold and Margaret Milliken Hatch Laboratory of Neuroendocrinology, The Rockefeller University

12:00 – 1:30 LUNCH

12:00 – 1:30 INTERNATIONAL PERINATAL BRAIN AND BEHAVIOR NETWORK: WORKSHOP ON DETECTION DURING THE PERINATAL PERIOD OF PRENATAL EXPOSURE TO PSYCHOACTIVE SUBSTANCES

ALL INVITED

1:30 – 2:30

PRESIDENTIAL ADDRESS

Chair: Mark Blumberg

THE NEUROBIOLOGY OF INFANT ATTACHMENT

Regina Sullivan

University of Oklahoma

2:30 – 3:00

PSYCHOBIOLOGY, NEUROBIOLOGY, AND PSYCHOPATHOLOGY:
FINDING THE LINKS IN DEVELOPMENT

Thomas Insel

NIH National Institute of Mental Health

3:00 – 3:20

AFTERNOON BREAK

3:20 – 5:20

NICHD SYMPOSIUM

EPIGENETICS AND DEVELOPMENT

Chair: TBA

3:20 PATERNAL AGE EFFECTS ON COMPLEX BEHAVIORS IN THEIR
OFFSPRING

Jay Gingrich, Columbia University

4:00 MICROSATELLITE INSTABILITY AND INDIVIDUAL DIFFERENCES IN
BRAIN AND BEHAVIOUR

Elizabeth Hammock, Vanderbilt University

4:40 PRENATAL DRUGS OF ABUSE: LIFE-LONG EFFECTS ON
NEUROBEHAVIORAL DEVELOPMENT

Sonya Sobrian, Howard University

5:30 – 7:30

POSTER SESSION 2 (CASH BAR)

- 1 CHARACTERISTICS OF THE OPIOID-INDUCING FACTOR IN
AMNIOTIC FLUID – **NIH Travel Awardee**
V. Mendez-Gallardo, M.K. Devine, & S.R. Robinson
- 2 THE OPIOID-INDUCING FACTOR IN AMNIOTIC FLUID: TESTS OF
A FETAL ORIGIN HYPOTHESIS – **NIH Travel Awardee**
M.K. Devine, V. Mendez-Gallardo, J.S. Rodefer, & S.R. Robinson
- 3 SPONTANEOUS MOVEMENTS DURING SLEEP IN THREE HIGH
SIDS-RISK SAMPLES: ALCOHOL-EXPOSED INFANTS, APNEIC
PRETERMS AND OPIATE-EXPOSED INFANTS
M.J. Hayes, M. Troese, M. Fukumizu, J.A. Paul, R. Krishnan, M.
Akilesh, M. Brown, P. Tisher, B. Matano, & R. Logan

- 4 SPATIAL NAVIGATION DEFICITS ASSOCIATED WITH
NEONATAL ETHANOL EXPOSURE ARE ATTENUATED BY THE
NMDA ANTAGONIST CP-101,606 – **NIH Travel Awardee**
B. Lewis, K.A. Wellman, M. Cohen, T. Baldwin, & S. Barron.
- 5 LOBELINE REDUCES HYPERACTIVITY INDUCED BY NEONATAL
ALCOHOL EXPOSURE
A. Hutton Kehrberg, K.A. Wellman, B. Lewis, A. Estes, L.P. Dvoskin,
& S. Barron
- 6 ACUTE AGMATINE ADMINISTRATION DURING ETHANOL
WITHDRAWAL AMELIORATES ULTRASONIC VOCALIZATIONS
DEFICITS IN PUPS EXPOSED TO ETHANOL DURING THE FIRST
NEONATAL WEEK – **NIH Travel Awardee**
K.A. Wellman, J.B. Lewis, L. Carter, M. Carter, & S. Barron
- 7 DIFFERENTIAL EFFECTS OF PRENATAL ETHANOL EXPOSURE
ON ADULT HIPPOCAMPAL NEUROGENESIS AND MODULATION
OF STRESS IN MALE AND FEMALE RATS
K.A. Uban, J.H. Sliwowska, L.A.M. Galea, & J. Weinberg
- 8 ETHANOL INTAKE IN BOTH DBA/2J AND C57BL/6J INFANT MICE
IS GREATER THAN WATER INTAKE – **NIH Travel Awardee**
S.K. Sanders, S.L. Boehm II, & N.E. Spear
- 9 ACTIVATING EFFECTS OF ETHANOL DURING THE COURSE OF
EARLY ONTOGENY IN THE RAT
C. Arias, E.C. Mlewski, N.E. Spear, & J.C. Molina
- 10 ADOLESCENT RATS ARE SENSITIVE TO THE POSITIVE
REWARDING EFFECTS OF ETHANOL – **NIH Travel Awardee**
M.L. Myers, R.M. Pautassi, J.M. Molina, L.P. Spear, & N.E. Spear
- 11 BREATHING RATE RESPONSE TO ETHANOL AND A NOVEL
ODOR AFTER PRENATAL EXPOSURE TO ETHANOL IN ONE-
AND THIRTEEN-DAY-OLD RATS – **NIH Travel Awardee**
S.S. Miller, C. Arias, J.C. Molina, & N.E. Spear
- 12 SOCIAL ANTICIPATION AND SOCIAL AFFECT IN ADOLESCENT
RATS: EFFECTS OF SOCIAL DEPRIVATION AND ETHANOL
A.R. Willey, L.P. Spear, & E.I. Varlinskaya
- 13 THE DECREASE OF KISSPEPTIN-IR CELLS IN THE ARCUATE
NUCLEUS OF THE HYPOTHALAMUS IN ADULT FEMALE RATS
PRENATALLY EXPOSED TO ETHANOL IS ESTRADIOL-
DEPENDENT
J.H. Sliwowska, J. Lee, L. Ellis, W. Yu, & J. Weinberg
- 14 NEONATAL BINGE ALCOHOL EXPOSURE DOSE-DEPENDENTLY
IMPAIRS INTERSTIMULUS INTERVAL DISCRIMINATION AND
TEMPORAL UNCERTAINTY CONDITIONED EYEBLINK TASKS IN
WEANLING RATS – **NIH Travel Awardee**
K.L. Brown, M.A. Burman, H.B. Duong, & M.E. Stanton
- 15 CROSS-MODAL TRANSFER OF TIMING OF THE CLASSICALLY
CONDITIONED EYEBLINK RESPONSE IN WEANLING RATS –
NIH Travel Awardee
H.B. Duong, K.L. Brown, & M.E. Stanton

- 16 ONTOGENETIC CHANGES IN UNLEARNED FEAR RESPONSE AND FEAR LEARNING TO PREDATOR ODOR CUES – **NIH Travel Awardee**
P.A. Kabitzke & C.P. Wiedenmayer
- 17 PREPULSE INHIBITION OF THE ACOUSTIC STARTLE RESPONSE IS ALTERED BY PERINATAL ANOXIA WHEN MEASURED IN PERIADOLESCENT BUT NOT ADULT RATS – **NIH Travel Awardee**
M. Wall & A. Gratton
- 18 PRENATAL IV NICOTINE EXPOSURE: SEX-DEPENDENT ALTERATIONS IN SENSORY GATING AS EVIDENCED BY PREPULSE INHIBITION OF THE ACOUSTIC STARTLE RESPONSE – **NIH Travel Awardee**
S. Fitting, L.L. Hord, K. Webb, R.M. Booze, C.F. Mactutus, & S.B. Harrod
- 19 ONTOGENETIC NEUROBEHAVIORAL COMPARISON OF THE ODOR PREFERENCE AND AVERSION LEARNING IN RAT PUPS – **NIH Travel Awardee**
C. Rainecki, K. Shionoya, K. Sander, & R.M. Sullivan
- 20 MATERNAL SEPARATION EFFECTS ON ADAPTIVE FEAR RESPONSES, STRESSOR-INDUCED CORTICOSTERONE SECRETION, AND RELATED GENE EXPRESSION IN THE HIPPOCAMPUS – **NIH Travel Awardee**
Y. Litvin, P. Tovote, N.S. Pentkowski, J. Spiess, D.C. Blanchard, & R.J. Blanchard
- 21 MUSCARINIC AND NICOTINIC INVOLVEMENT IN ACQUISITION AND CONSOLIDATION OF TRACE AND DELAY FEAR CONDITIONING IN ADOLESCENT RATS – **NIH Travel Awardee**
M.E. Levillain, P.E. Crew, L.A. Kostelnik, & P.S. Hunt
- 22 THE EFFECT OF THE NMDA RECEPTOR ANTAGONIST MK-801 ON THE ACQUISITION AND EXTINCTION OF LEARNED FEAR IN THE DEVELOPING RAT – **NIH Travel Awardee**
J.M. Langton, J.H. Kim, J. Nicholas, & R. Richardson
- 23 TO FEAR OR NOT TO FEAR: ERASURE AS A POTENTIAL MECHANISM FOR EXTINCTION IN THE DEVELOPING RAT – **Sandra G. Wiener Award**
J.H. Kim & R. Richardson
- 24 CONCURRENT NEONATAL ACTIVATION OF THE AMYGDALA- FEAR CIRCUIT AND THE ATTACHMENT CIRCUIT DURING INFANCY – **NIH Travel Awardee**
S. Moriceau, K. Shionoya, & R.M. Sullivan
- 25 PREPULSE INHIBITION OF THE ACOUSTIC STARTLE RESPONSE IS ALTERED BY PRENATAL IV COCAINE EXPOSURE
L.L. Hord, S. Fitting, K. Webb, R.M. Booze, B.J. Strupp, & C.F. Mactutus
- 26 EARLY DAM-OFFSPRING SEPARATION AND ITS EFFECTS ON PREPULSE INHIBITION IN C57BL6 – **NIH Travel Awardee**
J.D. Bailoo, A.N. Tyler, & G.F. Michel
- 27 THE MEDIAL AND LATERAL SEPTUM ARE DIFFERENTLY ACTIVATED DURING A TWO-WAY ACTIVE AVOIDANCE TASK
A. Riedel, J. Bock, M. Gruss, & K. Braun
- 28 AGE CONSTRAINTS ON THE ROLE OF CORTICOSTERONE IN THE SWITCH OF INFANT PREFERENCE/AVOIDANCE LEARNING – **NIH Travel Awardee**
K. Upton & R.M. Sullivan
- 29 MATERNAL ATTENUATION OF HYPOTHALAMIC PARAVENTRICULAR NUCLEUS NOREPINEPHRINE SWITCHES AVOIDANCE LEARNING TO PREFERENCE LEARNING IN PREWEANLING RAT PUPS – **NIH Travel Awardee**
K. Shionoya, S. Moriceau, P. Bradstock, & R.M. Sullivan
- 30 NEONATAL MATERNAL SEPARATION ALTERS FEAR CONDITIONING, EXTINCTION, AND CORTICOLIMBIC NMDA RECEPTOR EXPRESSION IN ADULT RATS
A.A. Wilber, C.J. Southwood, & C.L. Wellman
- 31 SELF-INJURIOUS BEHAVIOR: IS THERE A LINK BETWEEN PSYCHIATRIC DIAGNOSIS AND SIB?
S. Bazmi, P.E. Touchette, M.R. Lenjavi, A.S. Kemp, & C.A. Sandman
- 32 BASAL BETA-ENDORPHIN LEVELS PREDICT REDUCTION IN TEMPORAL PATTERNS OF SELF-INJURIOUS BEHAVIOR FOLLOWING TREATMENT WITH NALTREXONE
A.S. Kemp, M.R. Lenjavi, S. Bazmi, A. Chic-DeMet, P.E. Touchette, & C.A. Sandman
- 33 PSYCHOSTIMULANT-INDUCED BEHAVIOR AND DRUG-INDUCED CHANGES IN NUCLEUS ACCUMBENS DOPAMINE IN ADOLESCENT AND ADULT RATS – **NIH Travel Awardee**
K.A. Badanich & C.L. Kirstein
- 34 PRENATAL CHOLINE AVAILABILITY HAS LIFELONG EFFECTS ON MEMORY AND HIPPOCAMPAL PLASTICITY
C.L. Williams, M.J. Glenn, S.J.E. Wong-Goodrich, J.T. Johnson III, T.J. Mellott, & J.K. Blusztajn
- 35 DEVELOPMENT, STATE-DEPENDENCE, AND SOMATOTOPIC ORGANIZATION OF NEOCORTICAL ACTIVITY DURING THE EARLY POSTNATAL PERIOD IN RATS – **NIH Travel Awardee**
A.J. Marcano-Reik, W.D. Todd, A.M.H. Seelke, & M.S. Blumberg
- 36 HPA-AXIS ACTIVITY MEDIATES THE EFFECTS OF NOVELTY EXPOSURE ON THE SUBSEQUENT RESPONSE TO AMPHETAMINE IN PERIADOLESCENT OFFSPRING OF HIGH- AND LOW-LG RATS – **NIH Travel Awardee**
A.J. Pomarenski, M.J. Meaney, & A. Gratton
- 37 METHYLPHENIDATE PARTLY REVERSES INATTENTIVENESS AND BRAIN ACTIVITY: A FUNCTIONAL IMAGING STUDY IN FREELY BEHAVING ANIMALS
A.K. Braun, S. Zehle, & J. Bock
- 38 NEURAL MECHANISMS OF AUDITORY PITCH PROCESSING IN NEWBORNS – **NIH Travel Awardee**
H.T.T. Phan, B.Z. Karmel, & J.M. Gardner

- 39 CUTANEOUS SENSORY AFFERENTS, BUT NOT SPINAL GLUCOCORTICOID RECEPTORS, MAY MEDIATE THE EFFECTS OF EARLY MATERNAL CARE ON DENDRITIC DEVELOPMENT OF MOTONEURONS IN A SEXUALLY DIMORPHIC NEUROMUSCULAR SYSTEM – **Sandra G. Wiener Award**
K.M. Lenz & D.R. Sengelaub
- 40 THE EFFECT OF HANDLING ON AUTISTIC-LIKE BEHAVIOR IN RATS EXPOSED TO GESTATIONAL VALPROIC ACID
B. Sanders, E. Rozek, A. Schwager, A. Fink, M. Alexander, C. Willoughby, M. Mudhar, & M. Valdovinos
- 41 EFFECTS OF PREFRONTAL VS. STRIATAL ADMINISTRATION OF MK-801 ON REVERSAL LEARNING IN THE WEANLING RAT – **Sandra G. Wiener Award**
D.J. Watson, J.R. Cohen, & M.E. Stanton
- 42 IN VIVO PROTON (1H) MR SPECTROSCOPY PREDICTS ADULT HYPEREMOTIONALITY IN PERINATALLY ASPHYXIATED NEONATAL RATS
A.E. Ronca, G.A. Kleven, C. Tulbert, G. Winn, T.F. Atwood, & J.-M. Zhu
- 43 PONTINE STIMULATION IS A SUFFICIENT CS FOR EYEBLINK CONDITIONING IN 12-DAY-OLD RATS
M.M. Campolattaro & J.H. Freeman
- 44 INTERLEUKIN-10 REDUCES PASSIVE BEHAVIORS OF ISOLATED GUINEA PIG PUPS
P.A. Schimi-Webb, A. Perkeybile, E. O'Brien, T. Deak, & M.B. Hennessy

SATURDAY, NOVEMBER 3

7:00 – 8:25 **BOARD MEETING**

8:00 – 8:30 **CONTINENTAL BREAKFAST AND COFFEE**

8:30 – 9:45 **ORAL SESSION 3**

Chair: Julien Gross

8:30 PREGNANT WOMEN WALKING THROUGH DOORWAYS – **NIH Travel Awardee**
J.M. Franchak & K.E. Adolph

8:45 THE RENEWAL EFFECT: A DISSOCIATION ON RECOGNITION AND PRIMING TESTS – **NIH Travel Awardee**
K. Cuevas, C. Rovee-Collier, & A.E. Learmonth

9:00 CAREGIVER RESPONSES TO PRELINGUISTIC VOCALIZATIONS METERED BY INFANTS' ATTENTIONAL FOCUS
J. Gros-Louis

9:15 EFFECT OF INFANT FEEDING METHODS ON CHILDHOOD SLEEP-DISORDERED BREATHING
H.E. Montgomery-Downs, V.M. Crabtree, O. Sans Capdevila, & D. Gozal

9:30 EXPERIMENTALLY MANIPULATED CAREGIVER RESPONSES INFLUENCE INFANTS' FOCUSED ATTENTION
J.L. Miller

9:45 – 10:00 **BEST POSTER AWARD**

Presenter: TBA

10:00 – 10:15 **MORNING BREAK**

10:15 – 12:15

SACKLER SYMPOSIUM

MATERNAL EFFECTS ON OFFSPRING BEHAVIORAL AND NEUROENDOCRINE DEVELOPMENT

Chair: TBA

10:15 TRANSGENERATIONAL IMPACT OF MOTHER-INFANT INTERACTIONS IN RODENTS

Frances Champagne, Columbia University

10:55 THE ROLES OF MATERNAL CARE AND STRESS INOCULATION IN THE DEVELOPMENT OF PRIMATE STRESS RESISTANCE

Karen Parker, Stanford University

11:35 INTERGENERATIONAL TRANSMISSION OF MATERNAL BEHAVIOR IN RHESUS MACAQUES: SOCIAL AND NEUROBIOLOGICAL MECHANISMS
Dario Maestriperi^{1,2}, **J. Dee Higley**³, **Stephen Lindell**³, **Timothy Newman**³, **Kai McCormack**², and **Mar Sanchez**²
¹University of Chicago, ²Emory University, ³National Institute on Alcohol Abuse and Alcoholism

12:15 – 1:15 **BUSINESS MEETING - ALL INVITED**

END OF ISDP CONFERENCE

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**INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY
2007 AWARD WINNERS**

Sandra G. Wiener Awards

| Name | Advisor | Institution |
|--------------|-------------------|-------------------------------|
| Jee Hyun Kim | Rick Richardson | University of New South Wales |
| Kathryn Lenz | Dale R. Sengelaub | University of Indiana |
| Deb Watson | Mark Stanton | University of Delaware |

NIH/Wiley Travel Awards

| Name | Advisor | Institution | Name | Advisor | Institution |
|--------------------------|-----------------------|--------------------------------|-------------------------|------------------------|-----------------------------|
| Katherine Akers | Derek A. Hamilton | University of New Mexico | Juan Pablo Lopez | Robert Lickliter | Florida International Univ. |
| Lourdes Arteaga | Robyn Hudson | National University of Mexico | Amy Jo Marcano-Reik | Mark Blumberg | University of Iowa |
| Kim Badanich | Cheryl L. Kirstein | University of South Florida | Valerie Mendez-Gallardo | Scott Robinson | University of Iowa |
| Jeremy D. Bailoo | Amber N. Tyler | University of Nth Carolina | Stacie Miller | Norman Spear | SUNY - Binghamton |
| Amando Bautista | Robyn Hudson | National University of Mexico | Stephanie Moriceau | Regina Sullivan | University of Oklaholma |
| Yocheved Bensinger-Brody | Judith Gardner | NYS Instit. for Basic Res. | Mallory Myers | Norm Spear | SUNY - Binghamton |
| Kelly Bordner | Norman Spear | SUNY - Binghamton | Barbara Pham-Escobar | Robert Lickliter | Florida International Univ. |
| Kevin Brown | Mark Stanton | University of Delaware | Ha T.T. Phan | Bernard Z. Karmel | NYS Instit. for Basic Res. |
| Kimberly Cuevas | Carolyn Rovee-Collier | Rutgers University | Amanda J. Pomarenski | Alain Gratton | DHRC, McGill University |
| Mary Kathleen Devine | Scott Robinson | University of Iowa | Charles Raineki | Regina Sullivan | University of Oklaholma |
| Tamara Doremus-Fitzwater | Linda Spear | SUNY - Binghamton | Sarah Sanders | Norm Spear | SUNY - Binghamton |
| Huan Bao Duong | Mark Stanton | University of Delaware | Mariana Schroeder | Aron Weller | Bar-Ilan University |
| Claudio Ferre | George Michel | University of Nth Carolina | Jillian DeGroot Schuh | Inge-Marie Eigsti, PhD | University of Connecticut |
| Sylvia Fitting | Charles F. Mactutus | University of South Carolina | Adele Seelke | Mark Blumberg | University of Iowa |
| John Franchak | Karen Adolph | New York University | Christiana Shafer | Carolyn Rovee-Collier | Rutgers Univ. |
| Julien Gross | Harlene Hayne | University of Otago | Kiseko Shionoya | Regina Sullivan | University of Oklaholma |
| Asya Izraeli | Raymond Stark | NYS Psychiatric Institute | Karen Tustin | Harlene Hayne | University of Otago |
| Mark Jaime | Robert Lickliter | Florida International Univ. | Karen Upton | Regina Sullivan | University of Oklaholma |
| Patricia Kabitzke | C. P. Wiedenmayer | NY State Psychiatric Institute | Courtney Vetter | Linda Spear | SUNY - Binghamton |
| Sayuri Kojima | Jeff Alberts | University of Indiana | Michelle Wall | Alain Gratton | DHRC, McGill University |
| Julia Langton | Rick Richardson | University of NSW | Kristen Wellman | Susan Barrow | University of Kentucky |
| Mary Levillain | Pam Hunt | College of William and Mary | Amanda Willey | Linda Spear | SUNY - Binghamton |
| Sylvia Fitting | Charles F. Mactutus | University of South Carolina | Zhen Yang | Akaysha Tang | University of New Mexico |
| Ben Lewis | Susan Barrow | University of Kentucky | Elizabeth Zack | Rachel Barr | Georgetown University |
| Yoav Litvin | D. Caroline Blanchard | University of Hawaii | | | |

| Wednesday - 10/31 | | Thursday - 11/1 | | Friday - 11/2 | | Saturday - 11/3 | |
|-------------------|--|-----------------|---|--------------------------------|--|-----------------|--|
| | | 7:00 - 8.25 | Wiley Editorial Breakfast | 7:00 - 8.25 | Board Meeting | 7:00 - 8.25 | Board Meeting |
| | | 8:00 - 8.30 | Continental Breakfast and Coffee | 8:00 - 8.30 | Continental Breakfast and Coffee | 8:00 - 8.30 | Continental Breakfast and Coffee |
| | | 8.30 - 10.30 | Symposium Emergence of Smart Behavior Karen Adolph Scott Johnson Jeffrey Lockman Michael Goldstein | 8:30 - 10:30 | Symposium Neurodevelopmental Consequences of Early Life Stress Tallie Baram Elysia Poggi Davis Laura Glynn Pathik Wadhwa | 8:30 - 9:45 | Oral Session 3 5 talks |
| | | | | | | 9:45 - 10:00 | Best Poster Award |
| | | | | | | 10:00 - 10.15 | Morning Break |
| | | | | | | 10:15 - 12:15 | Sackler Symposium Maternal Effects on Offspring Behavior and Neuroendocrine Development Frances Champagne Karen Parker Dario Maestriperieri et al. |
| | | 10:30 - 11:00 | Morning Break | 10:30 - 10:45 10:45 - 12:00 | Morning Break | | |
| | | 11:00 - 12.30 | Oral Session 1 6 talks | | John Wiley Awards Hennessy-Smotherman Best Student Paper: To be announced John Wiley Distinguished Speaker Bruce McEwen | | |
| | | 12:30 - 2:00 | Lunch Board Meeting with Past Presidents | 12:00 - 1:30 | Lunch International Perinatal Brain and Behavior Network Workshop ALL INVITED | 12:15 - 1:15 | BUSINESS MEETING - ALL INVITED END OF ISDP CONFERENCE |
| | | | | 1:30 - 2:30 | PRESIDENTIAL ADDRESS The Neurobiology of Infant Attachment Regina Sullivan | | |
| | | 2:00 - 3.15 | Dissertation Award Vivian Hsu Kucharski Young Investigator Michael Goldstein Senior Investigator To be announced Sandra G. Weiner Awards Deb Watson, Kathryn Lenz, Jee Hyun Kim | 2:30 - 3:00 | Psychobiology, Neurobiology, and Psychopathology Thomas Insel | | |
| | | | | 3:00 - 3:20 | Afternoon Break | | |
| | | 3:15 - 3:45 | Afternoon Break | 3:20 - 5:20 | NICHD Symposium Epigenetics and Development Jay Gingrich Elizabeth Hammock Sonya Sobrian | | |
| | | 3:45 - 5:15 | Oral Session 2 6 talks | | | | |
| 4:30 - 7:30 | REGISTRATION | | | | | | |
| | | 5:30 - 7:30 | Poster Session 1 (Cash Bar) | 5:30 - 7:30 | Poster Session 2 (Cash Bar) | | |
| 7:30 - 10:00 | Past Presidents Symposium Michael Hennessy, Judy Stern Welcome Reception | | | | | | |