

**INTERNATIONAL SOCIETY FOR DEVELOPMENTAL
PSYCHOBIOLOGY 36TH ANNUAL MEETING, NOV 5 - NOV 8, 2003
NEW ORLEANS, LOUISIANA**

WEDNESDAY EVENING, NOVEMBER 5TH

4:30 – 7:15 **Registration**

7:15 – 9:00 **Past Presidents' Symposium**

Chair: W.P. Fifer

THE DEVELOPMENTAL ORIGINS OF APPETITES AND DESIRES

W.G. Hall

Department of Psychology, Duke University

FOOD FOR THOUGHT: PRENATAL DIET, AGING, AND MEMORY

C.L. Williams

Department of Psychology, Duke University

9:00 – 10:00 **Welcome Reception and Registration with Cash Bar**

THURSDAY MORNING, NOVEMBER 6TH

8:00 – 8:30 Continental Breakfast and Coffee

8:30 – 10:15 **Oral Session I**

Chair: D. Lewkowitz

8:30 MANIPULATION OF SPONTANEOUS EYE BLINKING RATE IN HUMAN INFANTS

L.F. Bacher, W.D. Chase & W.P. Smotherman

8:45 CAN I SEE THAT AGAIN? THE EFFECT OF REPETITION ON IMITATION FROM TELEVISION DURING INFANCY

R. Barr, A. Garcia, J. McAllister, P. Muentener & N. Yue

9:00 ELECTROPHYSIOLOGICAL CORRELATES OF FACE AND EMOTION RECOGNITION IN ROMANIAN INSTITUTIONALIZED AND COMMUNITY CHILDREN

S.W. Parker & C.A. Nelson

9:15 INFANTS OF CHRONICALLY DEPRESSED MOTHERS ACQUIRE ASSOCIATIONS IN RESPONSE TO MALE, BUT NOT FEMALE, INFANT-DIRECTED SPEECH
P. Kaplan, J. Dungan & M. Zinser

9:30 MITOCHONDRIAL DNA (mtDNA) AND COGNITIVE DEVELOPMENT, IN MICE

P. L. Roubertoux, M. Carlier, F. Sluyter, B. Marcet, B. Verrier & C. Cohen-Salmon

9:45 THE TRACE CONDITIONING DEFICIT AND DEVELOPMENT: IS IT THE TRACE INTERVAL OR THE CS-US DELAY?

P.S. Hunt & R.C. Barnet

10:00 EVIDENCE FOR A LATE DEVELOPMENT OF BRAIN FUNCTIONS UNDERLYING SPATIAL MEMORY IN RATS

F. Schenk, R.Salazar & J. Rossier

10:15 – 10:30 Morning Break

10:30 - 11:30 **Oral Session II: Young Investigator Awards**

Chair: R. Richardson

10:30 **Dissertation Award:** Marianne Weber
A DEVELOPMENTAL AND NEURAL ANALYSIS OF CONDITIONED FEAR IN RATS

11:00 **NIH Travel Award Five Minute Presentations**

A.Tarullo, University of Minnesota (M. Gunnar)
S.M. Hynes, University of Iowa (S. Robinson)
N.J. Musisca, College of William & Mary (P. Hunt)
Y. Lavi-Avnon, Bar-Ilan University (A. Weller)
O. Malkesman, Bar-Ilan University (A. Weller)

11:30 - 12:30 **Presidential Address:** H.N. Shair
EXPLORING THE MIND OF A NON-VERBAL ORGANISM
Chair: R. Lickliter

12:30 – 2:00 **Lunch**

Board Meeting I with Past and Current Presidents

THURSDAY AFTERNOON

2:00 – 4:00

NICHD Symposium:

Synapses, Circuits and the Ontogeny of Learning
Chairs: M. Stanton & P. Hunt

MULTIPLE BRAIN REGIONS CONTRIBUTE TO THE ACQUISITION OF PAVLOVIAN FEAR

M.S. Fanselow
Department of Psychology & Brain Research
Institute, UCLA

EXPRESSION OF LEARNED FEAR: APPROPRIATE TO AGE OF TRAINING OR AGE OF TESTING?

R. Richardson
School of Psychology, University of New South
Wales, Sydney, Australia

ON HOW THE CEREBELLUM LEARNS

M.D. Mauk
Department of Neurobiology and Anatomy,
University of Texas Health Science Center at
Houston

ONTOGENETIC CHANGES IN THE NEURAL MECHANISMS OF EYEBLINK CONDITIONING

J. Freeman
Department of Psychology, The University of Iowa

4:00 – 4:15

Afternoon Break

4:15- 5:15

Oral Session III: Young Investigator Awards

Chair: J. Galef

4:15

Dissertation Award Finalist: Daniel Nicholson
DEVELOPMENTAL CHANGES IN OLIVOCEREBELLAR INTERACTIONS

D.A. Nicholson & J.H. Freeman, Jr.

4:30

Sandra G. Wiener Award: Jenny Richmond
INTERPRETING PERFORMANCE ON THE VISUAL PAIRED-COMPARISON TASK

J. Richmond, M. Colombo & H. Hayne

4:45

NIH Travel Award Five Minute Presentations

M. Jaime, Florida International University (R. Lickliter)
D.J. Watson, University of Delaware (M. Stanton)
K. Sugrue, University of Otago (H. Hayne)
M.H. Mohammadi, Wayne State University (Hannigan)
D.A. Korsen, UC Irvine (C. Sandman)
R. Nie, Williams College (S. Brunelli)

5:15 – 7:30

Poster Session I (Cash Bar)

#1

NIH Travel Award Winner

BEHAVIORAL CORRELATES OF DOMINANCE RANK AMONG PRESCHOOL CHILDREN

A.R. Tarullo, S.B. Mliner, M. D. Gustafson & M.R. Gunnar

#2

SIMPLE VISUAL ASSOCIATIVE MEMORY IN THREE YEAR OLD CHILDREN BORN PREMATURE OR FULLTERM

A.A. Wilber & C.R. Almlı

#3

NUMBER OF SUCKLING PUPS DETERMINES DURATION OF MOTHER-YOUNG CONTACT ACROSS EARLY LACTATION IN RABBITS

G. Gonzalez-Mariscal & E. Cuamatzi

#4

MOVEMENT-ATTENTION COUPLING AT 1 AND 3 MONTHS PREDICTS ATTENTION PROBLEMS AT 8 YEARS

A.H. Friedman, S.E. Watamura & S.S. Robertson

#5

DISINHIBITION AND IMPULSIVITY IN YOUNG CHILDREN: RELATIONS WITH BASAL AND PHASIC PARASYMPATHETIC AND SYMPATHIC ACTIVITY

L.C. Munoz

#6

NIH Travel Award Winner

LONG-TERM EFFECTS OF PRENATAL TOLUENE EXPOSURE ON SPONTANEOUS LOCOMOTOR ACTIVITY

M.H. Mohammadi, J.C. Batis, J.H. Hannigan & S.E. Bowen

#7

NEONATAL HANDLING AFFECTS MALE MONOGAMOUS BEHAVIORS IN PRAIRIE VOLES (MICROTUS OCHROGASTER)

K.L. Bales, A. Lewis-Reese & C.S. Carter

- #8 ATTENTION AND RECOGNITION MEMORY IN HUMAN INFANTS: AN ERP STUDY
G.D. Reynolds & J.E. Richards
- #9 THE ROLE OF TESTOSTERONE IN THE SUPPRESSION OF MATERNALLY DIRECTED SEXUAL BEHAVIOR IN PERIADOLESCENT MALE GUINEA PIGS
M.B. Hennessy, H.R. Maxwell, S.E. Wilson & P.A. Schiml-Webb
- #10 MILKWEED BUGS (ONCOPELTUS FASCIATUS) FAIL TO SHOW POSTNATAL PREFERENCE FOR PERINATAL STIMULATION
K. Mann, G. Birchard & M. Sleight
- #11 *NIH Travel Award Winner*
SERIAL REVERSAL LEARNING OF POSITION DISCRIMINATION IN DEVELOPING RATS
D.J. Watson, J.G. Frank & M.E. Stanton
- #12 SMOKING AND ALCOHOL CONSUMPTION DURING PREGNANCY INTERACT WITH MATERNAL DEPRESSION TO INFLUENCE BIRTH WEIGHT
S.A. Brunelli, M. Youngman, S. Ten Fingers, M.M. Myers & W.P. Fifer
- #13 REGIONAL CHANGES IN EEG ACTIVITY FOLLOWING HEAD-UP TILTING IN NEWBORN AND TWO-FOUR MONTH OLD HUMAN INFANTS
P. Grieve, A. Tseng, K. Anderson, R.I. Stark, M.M. Myers & W.P. Fifer
- #14 *NIH Travel Award Winner*
LONG-TERM EFFECTS OF SELECTIVE BREEDING FOR INFANTILE USV IN RAT PUPS ON NOVELTY-SUPPRESSED FEEDING IN ADULTHOOD
R. Nie, A.L. Garcia, V. Winniger & S.A. Brunelli
- #15 EFFECT OF MATERNAL ENVIRONMENT ON ETHANOL-INDUCED CONDITIONED PLACE PREFERENCE IN F1 HYBRIDS OF C57BL/6J AND DBA/2J INBRED MOUSE STRAINS
K.I. Gabriel & C.L. Cunningham
- #16 COMPARISON OF EARLY STRESS MODELS ON SUBSEQUENT ALTERATIONS IN SOCIAL AND COMMUNICATIVE BEHAVIOR IN RATS
B. Zimmerberg & K.A. Sageser
- #17 DOES SEASON OF BIRTH INFLUENCE BIRTH WEIGHT IN HUMAN INFANTS?
J. Gross, K. Tustin & H. Hayne
- #18 *NIH Travel Award Winner*
AGE-RELATED CHANGES IN REPRESENTATIONAL FLEXIBILITY IN OLDER CHILDREN AND ADULTS
K. Sugrue & H. Hayne
- #19 THE DEVELOPMENT OF ODOR HABITUATION LEARNING IN NEONATAL RATS
M. Stevenson, L. M. McCray, L. C. Jones, L. M. Terry & I. B. Johanson
- #20 EFFECTS OF CROSS-FOSTERING ON ACTIVITY AND EMOTIONALITY OF C57BL/6J AND BALB/CJ MICE
W. J. Millard, E. M. Zilioli, R. N. Leaton & C. P. Cramer
- #21 LABOR CONTRACTIONS INDUCE C-FOS EXPRESSION IN NEWBORN RAT BRAIN
L.A. Baer, J. Villarreal, A. Lin, G.C. Conway & A.E. Ronca
- #22 *NIH Travel Award Winner*
MATERNAL POTENTIATION OF ULTRASONIC VOCALIZATION IN PUPS FROM LINES OF RATS SELECTIVELY BRED FOR HIGH AND LOW LEVELS OF ISOLATION-INDUCED USV
A.L. Garcia, H.N. Shair & S.A. Brunelli
- #23 *NIH Travel Award Winner*
PRENATAL EXPOSURE TO CORTICOTROPHIN-RELEASING HORMONE AND ITS EFFECT ON INFANT TEMPERAMENT
D.A. Korsen, E.P. Davis, L.M. Glynn, C.J. Hobel, C. Dunkel Schetter & C.A. Sandman

- #24 STABILITY OF PHYSIOLOGICAL MEASURES IN YOUNG CHILDREN
N. M. Talge, J. Bruce, B. Donzella & M. R. Gunnar
- #25 *NIH Travel Award Winner*
3- & 5-MONTH-OLDS' DISCRIMINATION OF AFFECT IN MUSIC
K. Gordon, S. Gunderson, S. Wood & R. Flom
- #26 *NIH Travel Award Winner*
PROBING THE REGULATION OF SPONTANEOUS MOTOR ACTIVITY WITH A PROPRIOCEPTIVE HINDLIMB MANIPULATION IN THE NEONATAL RAT
S.M. Hynes, M.R. Brumley, L.C. Oetken & S.R., Robinson
- #27 DOES THE SOCIAL ENVIRONMENT OF PREGNANT MICE AFFECT THE DEVELOPMENT OF THE OFFSPRINGS' ODOR PREFERENCES?
H. Honeycutt & J.R. Alberts
- #28 CIRCADIAN DISTURBANCE AND EARLY ADVERSITY PREDICT BEHAVIORAL FUNCTIONING IN INTERNATIONALLY ADOPTED CHILDREN
D.A. Kertes & M.R. Gunnar
- #29 *NIH Travel Award Winner*
SOCIAL EXPOSURE TO ETHANOL FOLLOWING NALOXONE ADMINISTRATION AND ITS EFFECTS ON ETHANOL INTAKE IN PERIADOLESCENT RATS
N.J. Musisca, J.L. Duda, & P.S. Hunt
- #30 ANALGESIC PROPERTIES OF SWEET TASTE IN CHILDREN: THE MORE THEY LIKE SWEETS, THE BETTER IT WORKS
M. Y. Pepino, J. Kennedy & J. A. Mennella
- #31 THE EFFECT OF AGE AND EXPERIENCE ON DEFERRED IMITATION IN HUMAN INFANTS
J. Herbert, J. Gross & H. Hayne
- #32 TRACE EYEBLINK CLASSICAL CONDITIONING DEFICITS IN ADULT LONG-EVANS RATS INDUCED BY THREE-DAY NEONATAL BINGE ALCOHOL EXPOSURE
T. Johnson & C. Goodlett
- #33 *NIH Travel Award Winner*
PRENATAL EXPOSURE TO TEMPORAL SYNCHRONY AFFECTS POSTNATAL RESPONSIVENESS TO SPATIAL CONTIGUITY IN BOBWHITE QUAIL CHICKS
M. Jaime & R. Lickliter
- #34 PERCEPTION OF AUDIOVISUAL SEQUENCES IN HUMAN INFANTS
D. J. Lewkowicz & S. Marcovitch
- #35 SPINY MOUSE (ACOMYS CAHIRINIS) PARENT-OFFSPRING INTERACTIONS
J.A. Menge, C.J. Nieves & J.R. Alberts
- #36 *NIH Travel Award Winner*
THE EFFECT OF ETHANOL ON BEHAVIORAL AND PHYSIOLOGICAL RESPONSES TO CAT ODOR IN ADOLESCENT AND ADULT RATS
R.C. Ristuccia, F. Lukomski & L.P. Spear
- #37 HIPPOCAMPAL AND AMYGDALA DEVELOPMENT FOLLOWING INSTITUTIONALIZATION AND SUBSEQUENT ADOPTION
N. Tottenham, I.-M. Eigsti, M.C. Davidson, R. Watts, M. Altemus, J. Aronson, & B.J. Casey
- #38 THE DAM DECREASES THE STRESS RESPONSE IN YOUNG RATS
P. Wiedenmayer, A. M. Magarinos, B. S. McEwen & G. A. Barr
- #39 *NIH Travel Award Winner*
PRENATAL IV COCAINE EXPOSURE: ALTERATIONS IN SENSORY GATING AS EVIDENCED BY PREPULSE INHIBITION OF THE ACOUSTIC STARTLE RESPONSE
K.L. Matthews, R.M. Booze, B.J. Strupp, D.M. Snow, C.F. Mactutus

- #40 *NIH Travel Award Winner*
DOUBLE DISSOCIATION BETWEEN SNIFFING AND AROUSAL IN INFANT RATS
M. H. Seelke & M.S. Blumberg
- #41 *NIH Travel Award Winner*
NEONATAL NOVELTY EXPOSURE MODULATES SEX DIFFERENCES IN TURNING BIAS
K. Akers, B. Reeb & A.C. Tang
- #42 REPEATED EXPOSURE TO ETHANOL OR ETHANOL ODOR, BUT NOT SWEETENED ETHANOL, INCREASES PREFERENCE FOR ETHANOL IN ADULT AND ADOLESCENT RATS
E. Truxell & N. Spear
- #43 THE ONTOGENY OF BITTER TASTE MAY INFLUENCE ETHANOL CONSUMPTION IN INFANT RATS
S. Sedgh, E. Truxell & N. Spear
- #44 *NIH Travel Award Winner*
ETHANOL INTAKE IN THE RAT DURING EARLY INFANCY
S.K. Sanders & N.E. Spear
- #45 *NIH Travel Award Winner*
IMMOBILITY AND SOCIAL PLAY IN ADOLESCENT RATS: DIFFERENCES BETWEEN TWO GENETIC ANIMAL MODELS OF DEPRESSION
O. Malkesman & A. Weller
- #46 *NIH Travel Award Winner*
MATERNAL BEHAVIOR IN A GENETIC ANIMAL MODEL OF DEPRESSION: EFFECTS OF POSTPARTUM WEEK AND ACUTE STRESS EXPOSURE
Y. Lavi-Avnon & A. Weller
- #47 THE RENEWAL EFFECT IN EARLY INFANCY
E. Meyers & C. Rovee-Collier
- #48 MEMORY REACTIVATION IN THE SECOND YEAR OF LIFE
V. Hsu & C. Rovee-Collier
- #49 MEMORY REACTIVATION IN HUMAN INFANCY AND REMINDER DURATION
D. Hill, J. Grodkiewicz & C. Rovee-Collier
- #50 *NIH Travel Award Winner*
EFFECTS OF NEONATAL ALCOHOL EXPOSURE ON AN AMPETHAMINE CHALLENGE IN ADULT RATS
T.A. Wills, C.R. Goodlett & B.S. Neal-Beliveau
- #51 EVIDENCE FOR A LATE DEVELOPMENT OF BRAIN FUNCTIONS UNDERLYING SPATIAL MEMORY IN RATS
F. Schenk, R.Salazar & J. Rossier
- #52 PRE-EXPOSURE EFFECTS ON ACQUISITION OF TRACE EYEBLINK CONDITIONING IN DEVELOPING RATS
D. I. Claflin & M. L. Buffington
- #53 PROGRESSIVE MOTOR DEFICITS IN MICE LACKING THE SEROTONIN TRANSPORTER
M.S. Ansorge, M. Zhou, A. Lira & J.A. Gingrich
- #54 EARLY EXPERIENCE, NEURAL PLASTICITY, AND DEPRESSION: TRANSLATING ANIMAL RESEARCH TO CLINICAL APPLICATION
J.E. Black & I. Kodish
- #55 *NIH Travel Award Winner*
DIFFERENTIAL IMPACT OF GESTATIONAL TOLUENE EXPOSURE ON MOTOR CO-ORDINATION IN THE RAT
J.C. Batis, J.H. Hannigan & S.E. Bowen
- FRIDAY MORNING, NOVEMBER 7th**
- 8:00 – 8:30 Continental Breakfast and Coffee
- 8:30–10:00 **Oral Session IV**
Chair: TBA
- 8:30 THE IMPACT OF MATERNAL PSYCHOLOGICAL STATE DURING PREGNANCY ON INFANT TEMPERAMENT
E. P. Davis, N. Snidman, P. D. Wadhwa, L. M. Glynn, C. Dunkel Schetter & C. A. Sandman

8:45	EARLY DEPRIVATION IN MARMOSET MONKEYS: BEHAVIORAL AND ENDOCRINE EVIDENCE FOR DEPRESSION AND POSTTRAUMATIC STRESS DISORDER LIKE SYMPTOMS A.C. Dettling, J. Feldon & C.R. Pryce	11:00	NIH Travel Award Five Minute Presentations: N.V.Weistaub, Columbia University (J. Gingrich) A.G. Halpert, University of British Columbia (J. Weinberg) R. McCue U. Pennsylvania/NASA Ames Res. Ctr. (A.Ronca) J.R. Yee, University of Chicago (M. McClintock) M. Brown, University of Evansville (L. Becker)
9:00	EFFECTS OF EXPOSURE TO CHILDHOOD SEXUAL ABUSE ON HIPPOCAMPAL VOLUME OF YOUNG ADULTS M.H. Teicher, A. Polcari, S. L. Andersen, E. Vinchow & E. Volente	11:30-12:30	Decade of Behavior Distinguished Lecture Bruce S. McEwen, Alfred R. Mirsky Professor, Rockefeller University ALLOSTASIS AND ALLOSTATIC LOAD: THE PRICE OF ADAPTATION TO 'STRESS' OVER THE LIFE-COURSE Chair: A. Ronca
9:15	DIFFERENTIAL EFFECT OF EMOTIONAL AND PHYSICAL STRESS ON CORTICAL DENDRITIC SPINE DEVELOPMENT AND POSSIBLE ROLE OF 5-HT1A-RECEPTOR BLOCKADE C. Helmeke, A. Abraham & K. Braun	12:30 – 2:00	Lunch Board Meeting II
9:30	A HYPOTHESIS OF THE DELAYED ONSET OF SCHIZOPHRENIA: ABNORMAL REGULATION OF CORTICOLIMBIC CIRCUITS REGULATING THE RESPONSE TO STRESS A.A. Grace	2:00 – 4:00	FRIDAY AFTERNOON Sackler Institute Invited Symposium: Mood Disorders in Children Chair: J. Stern
10:00 – 10:15	Morning Break		CHILDHOOD-ONSET BIPOLAR DISORDER: CHARACTERISTICS, DIAGNOSTIC ISSUES, AND POSSIBLE GENETIC BASES D.F. Papolos Departments of Psychiatry and Behavioral Genetics, Albert Einstein School of Medicine
10:15 – 11:30	Oral Session V: Young Investigator Awards Chair: TBA		EFFECTS OF CHILDHOOD TRAUMA ON MOOD AND ANXIETY DISORDERS: RELATIONSHIP TO THE NEUROBIOLOGY OF STRESS C. Heim Department of Psychiatry & Behavioral Sciences, Emory University
10:15	Kucharski Award: Joseph Lonstein HORMONAL AND SENSORY REGULATION OF MATERNAL ANXIETY DURING LACTATION IN RATS J.S. Lonstein		NEURAL IMAGING OF MOOD DISORDERS IN CHILDREN AND ADULTS D.A. Pizzagalli Department of Psychology, Harvard University
10:45	Sandra G. Wiener Award: Timothy Bredy ENRICHMENT ON GLUTAMATE RECEPTOR SUBUNIT mRNA EXPRESSION IN THE HIPPOCAMPUS OF THE RAT T.W. Bredy, J. Diorio & M. J. Meaney		DISCUSSANT S.Swedo, National Institute of Mental Health

- 4:00 - 4:15 Afternoon Break
- 4:15 – 5:15 **Oral Session VI: Young Investigator Awards**
Chair: R. Barr
- 4:15 **Sandra G. Wiener Award:** Miquel Diego
EEG ASYMMETRY PATTERN GENDER DIFFERENCES
IN INFANTS OF DEPRESSED AND NON-DEPRESSED
MOTHERS
M.A. Diego, N.A. Jones & T. Field
- 4:30 **NIH Travel Award Five Minute Presentations**
J. Young, SUNY New York University (K. Adolph)
A.S. Joh, New York University (K. Adolph)
R. B. Sotsky New York University (K. Adolph)
S. Gunderson, Brigham Young University, (R. Flom)
F. Yamashita, University of British Columbia (J. Weinberg)
M. Krall, California State University-SB (C. Crawford)
J.C. Batis, Wayne State University (J. Hannigan)
- 5:15 – 6:00 **Developmental Psychobiology Editorial Board Meeting**
- 5:15 – 7:30 **Poster Session II (Cash Bar)**
- #1 **NIH Travel Award Winner**
INFANT LANGUAGE EXPOSURE TO PARENTAL
SPEECH AT 6 AND 12 MONTHS OF AGE
L.A. Cocas & D.S. Moore
- #2 HANDLING AFFECTS USV IN RAT PUPS
SELECTIVELY BRED FOR SEPARATION-INDUCED
ULTRASONIC VOCALIZATIONS
J.Muller, H. J. Polan, M.M. Myers, V. Winiger, A.L.
Garcia, R. Nie & S.A. Brunelli
- # 3 **NIH Travel Award Winner**
EFFECTS OF PRENATAL CALORIC RESTRICTION IN
RATS ON SOCIAL PLAY AND SENSORIMOTOR
GATING
O. Valdman, H. Moore, A.Y. Tu & M.M. Myers
- #4 **NIH Travel Award Winner**
MALE RATS PRENATALLY EXPOSED TO ETHANOL
ALTERS CYTOKINE RESPONSE TO LPS AFTER REPEATED
RESTRAINT STRESS
J. Eskes, W. Yu, L. Ellis & J. Weinberg
- #5 **NIH Travel Award Winner**
EFFECTS OF ACUTE STRESS ACROSS THE ESTROUS
CYCLE IN RATS PRENATALLY EXPOSED TO ETHANOL
F. Yamashita, N. Lan, A. Halpert & J. Weinberg
- #6 **NIH Travel Award Winner**
HYPOTHALAMIC-PITUITARY-ADRENAL ACTIVITY
ACROSS THE ESTROUS CYCLE IN RATS PRENATALLY
EXPOSED TO ETHANOL
A.G. Halpert, N. Lan, F. Yamashita & J. Weinberg
- #7 STRAIN AND MATERNAL EXPERIENCE EFFECTS ON
WATER MAZE PERFORMANCE OF MICE
C. P. Cramer, E. R. Konwiser & K. M. Weekley
- #8 THE IMPORTANCE OF MOTION FOR THE PERCEPTION OF
AFFORDANCES OF EVERYDAY OBJECTS BY HUMAN
INFANTS
K. Anasagasti, Laura C. Batista & Lorraine E. Bahrck
- #9 INTERSENSORY REDUNDANCY EDUCATES ATTENTION
TO AMODAL INFORMATION DURING PRENATAL
DEVELOPMENT
R. Lickliter, L.E. Bahrck & R. Markham
- #10 **NIH Travel Award Winner**
DOSE-DEPENDENT NEONATAL ETHANOL-INDUCED
DEFICITS IN SHIFTING OF EYEBLINK CLASSICAL
CONDITIONING ACROSS DIFFERENT INTERSTIMULUS
INTERVALS
H.D. Jackson, T.D. Tran & C.R. Goodlett
- #11 ONTOGENY OF SENSORY-EVOKED SINGLE-UNIT
RESPONSES IN RAT AMYGDALA
D.A. Wilson
- #12 **NIH Travel Award Winner**
EMERGENCE OF FEAR IN NEONATAL RAT PUPS
T. Okotoghaide, S. Moriceau, T. Roth & R. Sullivan

- #13 OPIOID MODULATION OF THE NEUROBIOLOGY OF OLFACTORY LEARNING AND MEMORY IN RAT PUPS
T.L. Roth & R.M. Sullivan
- #14 CORTICOSTERONE INFLUENCES ON MAMMALIAN IMPRINTING
S. Moriceau & R.M. Sullivan
- #15 ***NIH Travel Award Winner***
TELEMETRIC MEASUREMENT OF INTRAUTERINE PRESSURE IN PARTURIENT RATS: I. EFFECTS OF AN INTRAUTERINE PRESSURE SENSOR ON THE DAM'S BEHAVIOR
R. McCue, K. Saldanha, J. Villarreal, L. Baer, C. Wade & A. Ronca
- #16 ***NIH Travel Award Winner***
TELEMETRIC MEASUREMENT OF INTRAUTERINE PRESSURE IN PARTURIENT RATS: II. TEMPORAL RELATIONSHIP BETWEEN INTRAUTERINE PRESSURE CHANGE AND BEHAVIORAL EXPRESSIONS OF LABOR
K. Saldanha, R. McCue, J. Villarreal, L. Baer, C. Johanson, R. Boyle, C. Wade & A. Ronca
- #17 ***NIH Travel Award Winner***
PRIOR EXPOSURE DURING THE NEONATAL PERIOD ALTERS THE RESPONSIVITY OF JUVENILE RATS TO ACUTE AND CHRONIC METHAMPHETAMINE
M.R. Carroll & B.S. Neal-Beliveau
- #18 DEVELOPMENTAL NICOTINE EXPOSURE IMPAIRS SPATIAL LEARNING IN ADULT RATS
W.-J.A. Chen, H.D. Dominguez, E.P. Riley & J.D. Thomas
- #19 DEVELOPMENTAL DIFFERENCES IN INFANTS' ATTENTIONAL HEART RATE RESPONSES TO VISUAL AND AUDITORY EVENTS
R.P. Cooper & J. E. Richards
- #20 ASSOCIATING REPRESENTATIONS OF STIMULI IN ABSENTIA: A PREVIEW
K. Cuevas, A. Learmonth & C. Rovee-Collier
- #21 ETHANOL-INDUCED ANALGESIA IN ADOLESCENT AND ADULT RATS
M. Hernandez & L.P. Spear
- #22 ***NIH Travel Award Winner***
ANXIETY, ACTIVITY AND PAIN SENSATION DURING ACUTE ETHANOL WITHDRAWAL IN ADOLESCENT AND ADULT FEMALE RATS
T.L. Doremus & L.P. Spear
- #23 ***NIH Travel Award Winner***
INTERSENSORY REDUNDANCY AND INFANTS' PERCEPTION OF DYNAMIC FACIAL EXPRESSIONS
S. Gunderson, K. Gordon, S. Wood & R. Flom
- #24 CHILDREN'S HEDONIC JUDGMENTS OF TOBACCO ODOR: EFFECTS OF PARENTAL SMOKING
C.A. Forestell & J.A. Mennella
- #25 ***NIH Travel Award Winner***
TRACE CONDITIONING IN 1-DAY OLD RAT PUPS
K. A. Bordner, C. E. Baker, M. Myers, A. Scotland, M. Yost & N. E. Spear
- #26 ***NIH Travel Award Winner***
THE SOCIAL ROLE ADOPTED BY BEHAVIORALLY INHIBITED RATS IN THE FAMILY SETTING AND ITS CONSEQUENCES
J.R. Yee, S.A. Cavigelli & M.K. McClintock
- #27 EARLY REARING ENVIRONMENT MODULATES ADULT DEPRESSIVE BEHAVIOR IN A GENETIC ANIMAL MODEL OF DEPRESSION
E. Friedman & M. Berman
- #28 INFLUENCES OF EARLY MATERNAL CARE IN AN ANIMAL MODEL OF PERINATAL BRAIN INJURY.
A.T.M. Konkle & M.M. McCarthy
- #29 ***NIH Travel Award Winner***
COMPARISON OF NEONATAL ETHANOL-INDUCED DEFICITS IN TRACE AND SHORT-DELAY EYEBLINK CONDITIONING IN RATS
D. Garzon, T.D. Tran & C.R. Goodlett

- #30 PRECISE PERCEPTUAL CONTROL OVER INFANTS' VISUAL EXPERIENCE DURING OPERANT LEARNING: ADAPTING THE MOBILE PROCEDURE TO PRESENT GENERATED STIMULI
P. Gerhardstein, K. Kraebel, J. Tse & R. Makum
- #31 ALTERED SPATIAL MEMORY AND OPEN FIELD PERFORMANCE IN CASPASE 3 KNOCKOUT MICE
R.A. Abel, T. West, M.K. Mueller, D.M. Holtzman & C.R. Almi
- #32 WITH WHICH HAND DO INFANTS IMITATE?
J. Fagard
- #33 *NIH Travel Award Winner*
INTERSENSORY REDUNDANCY PRENATAL IV COCAINE: CEREBELLAR PURKINJE CELL ABNORMALITIES AND NEUROMOTOR FUNCTION
L.R. Helmick, U. Hasselrot, C.E. Heape, B.J. Strupp, D.M. Snow, C.F. Mactutus & R.M. Booze
- #34 *NIH Travel Award Winner*
THE EFFECTS OF SAMPLING FREQUENCY ON DEVELOPMENTAL TRAJECTORIES
J. Young, T. Webster, K.E. Adolph, S. R. Robinson & P. Kanani
- #35 SENSORY PRECONDITIONING IN THE 3-MONTH-OLD HUMAN INFANT
J. Campanella & C. Rovee-Collier
- #36 CONTEXT AS A REACTIVATION CUE FOR DEFERRED IMITATION BY 6-MONTH-OLDS
A.E. Learmonth & C. Rovee-Collier
- #37 EXPOSURE OF NEONATAL RATS TO ISOLATION STRESS ENHANCES BEHAVIORAL SENSITIZATION IN ADULTHOOD
B.S. Neal-Beliveau, T.A. Wills, D. Garzon, J.S. McKay, S.D. Chestnut & C.R. Goodlett
- #38 *NIH Travel Award Winner*
EFFECT OF ELEVATED MATERNAL CORTICOSTERONE DURING THE PREWEANLING PERIOD ON CATALEPTIC BEHAVIOR IN P45 OFFSPRING
L.J. Miller & B.S. Neal-Beliveau
- # 39 *NIH Travel Award Winner*
EFFECTS OF EARLY METHYLPHENIDATE EXPOSURE ON MORPHINE-INDUCED CPP AND DOPAMINE D2 BINDING SITES
C.M. Krall, S.W. Villafranca, J.M. Sibole, M.C. Cyr, D.L. Abbott, S.A. McDougall & C.A Crawford
- #40 REVERSAL LEARNING PERFORMANCE AFTER PRENATAL AND EARLY NEONATAL ALCOHOL EXPOSURE
S. K. O'Leary-Moore, S. N. Mathison, A. P. McMechan, S. D. Morrison, R. F. Berman, & J. H. Hannigan
- #41 FEMALE INTEREST IN INFANTS ACROSS THE LIFESPAN: ADAPTIVE SIGNIFICANCE OF VARIATION ACROSS AGES AND INDIVIDUALS
D. Maestripieri, K. M. Durante, S. Pelka, J. R. Roney & G. M. Spaepen
- #42 *NIH Travel Award Winner*
RETENTION OF HINDLIMB MOTOR COORDINATION AFTER MID-THORACIC SPINAL TRANSECTION IN THE RAT FETUS
A.J. Marcano & S.R. Robinson
- #43 *NIH Travel Award Winner*
RETENTION OF INTERLIMB YOKE TRAINING IN THE NEONATAL RAT: TEST OF A MOTOR MEMORY HYPOTHESIS
S.A. Woller & S.R. Robinson
- #44 POSTNATAL HIGH-INTENSITY AUDITORY STIMULATION ALTERS MATERNAL AUDITORY RESPONSIVENESS IN BOBWHITE QUAIL CHICKS
D. D. Milliken, D. K. Riser, J. W. Henson & R. D. Foushee

- #45 ***NIH Travel Award Winner***
ANXIETY-RELATED BEHAVIORS IN 5-HT2A
RECEPTOR KNOCK OUT MICE
N.V.Weistaub, A.Lira M. Zhou, M.D.Bradley-
Moore, R. Merker & J.A.Gingrich
- #46 ***NIH Travel Award Winner***
DEVELOPMENT OF LEARNING FROM FALLING
A.S. Joh, V.M. Pignetti, L.A. Wall, P.J. Narayanan,
M.R. Campbell, K.E. Adolph & M.A. Eppler.
- #47 ***NIH Travel Award Winner***
DEVELOPMENT OF REGULATORY HUDDLING BY
MUS MUSCULUS PUPS.
T.E.B. Schlossberg & J.R. Alberts
- #48 ***NIH Travel Award Winner***
DIETARY PHYTOESTROGEN EXPOSURE DURING
PERINATAL PERIOD AFFECTS MALE OFFSPRING:
DAILY WEIGHT, ANOGENITAL DISTANCE, USV AND
TESTOSTERONE LEVELS
M. Brown, E.E. Ball, M. Snyder, M.T. Williams &
L.A. Becker
- #49 SEX DIFFERENCES IN SOCIAL RECOGNITION
MEMORY IN A LONGITUDINAL STUDY OF THE RAT
B.C. Reeb & A.C. Tang
- #50 ***NIH Travel Award Winner***
DAILY CHANGES IN THE RAT'S SPONTANEOUS
TURNING BEHAVIOR DURING THE FIRST THREE
WEEKS OF POST-NATAL LIFE
M. Nakazawa, B. Reeb, A. Murley & A.C. Tang
- #51 ***NIH Travel Award Winner***
INTERSTIMULUS INTERVAL (ISI) RESPONSE IN 23-
AND 30-DAY-OLD RATS
K.L. Brown, J.H. Pagani & M.E. Stanton
- #52 ***NIH Travel Award Winner***
HOW INFANTS KEEP PACE WITH THEIR MOTHERS
R. B. Sotsky, J. S. Garciaguirre & K. E. Adolph
- #53 ***NIH Travel Award Winner***
EFFECTS OF POSTNATAL ALCOHOL ADMINISTRATION
ON SUSTAINED ATTENTION PERFORMANCE IN RATS
K.M. Woolfrey, P.S. Hunt & J.A. Burk
- #53 ANXIETY-LIKE BEHAVIORS IN MICE SELECTIVELY BRED
FOR DIFFERENCES IN AGGRESSION
K. E. Hood & K. S. Quigley
- #54 EARLY TRAUMATIC EXPERIENCE ALTERS METABOLIC
BRAIN ACTIVITY IN THALAMIC, HYPOTHALAMIC AND
PREFRONTAL CORTICAL BRAIN AREAS OF OCTODON
DEGUS
K. Braun & J. Bock
- #55 RISKY BUSINESS: JUVENILE RATS MORE READILY
INTERACT WITH NOVEL STIMULI THAN ADULTS
K.S. Smith, M. Gonzalez & J.I. Morrell
- 7:30 – 9:30 **Reception for Postdoctoral, Graduate and Undergraduate
Students**
- SATURDAY MORNING, NOVEMBER 2ND**
- 8:00 – 8:30 Continental Breakfast and Coffee
- 8:30–10:15 **Oral Session VII**
Chair: J. Freeman
- 8:30 BLOCKADE OF LONG-TERM BEHAVIORAL EFFECTS OF
NEONATAL ISOLATION BY MEMANTINE
W. Shoemaker & J. Costill
- 8:45 PRENATAL VALPROIC ACID AND LIPOPOLYSACCHRIDE
SYNERGISTICALLY PRODUCE BEHAVIORAL AND
NEUROANATOMICAL CHANGES.
B.F. El-Khodori, P.B. Kozlowski, A. Rabe & M.H. Lee
- 9:00 DISRUPTION OF FUNCTIONAL COUPLING BY
PREWEANING COCAINE EXPOSURE: EVIDENCE USING A
DA CHALLENGE APPROACH
D. Dow-Edwards, J. Weedon & S. Melnick

- 9:15 NEONATAL NOVELTY EXPOSURE MODULATES ADULT CORTICOSTERONE STRESS RESPONSE ELICITED BY THE MORRIS WATER MAZE TEST
A.C. Tang, B. Reeb, M. Nakazawa, R.D. Romeo, K.G. Akers & B.S. McEwen
- 9:30 LONG TERM EFFECTS OF MATERNAL SEPARATION ON EMOTIONAL BEHAVIOR AND BRAIN PLASTICITY IN THE RAT
F. Cirulli, A. Berry, M. Roceri, M. Riva & E. Alleva
- 9:45 HYPOTHALAMIC CONTRIBUTION TO SLEEP-WAKE CYCLE DEVELOPMENT
K.Δ. Karlsson, J.C. Kreider & M.S. Blumberg
- 10:00 SEROTONIN AGONISTS ALTER MOTOR ACTIVITY AND PROMOTE HINDLIMB STEPPING IN THE INTACT AND MID-THORACIC TRANSECTED E20 RAT FETUS
M.R. Brumley, R.A. Fleenor, L.L. Simmons & S.R. Robinson
- 10:15-10:30 Morning Break
- 10:30-11:30 **John Wiley Best Student Journal Article Award**
Award Presenter: M. Hennessey
- John Wiley Invited Address:** Thomas Insel, NIMH
EPIGENESIS: WHERE NURTURE MEETS NATURE
Chair: H.N. Shair
Wiley Representative: J. Ingram
- 11:30 – 12:30 **Business Meeting**
Chair: H.N. Shair
- 12:30 **Meeting Adjourned**