



**43RD ANNUAL MEETING
CONFERENCE PROGRAM**

NOVEMBER 10-13, 2010

**CATAMARAN RESORT HOTEL
SAN DIEGO, CA**

International Society for Developmental Psychobiology

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INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY
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WEDNESDAY, NOVEMBER 10
KON TIKI BALLROOM

THURSDAY, NOVEMBER 11
KON TIKI BALLROOM

Preconference		7:00 – 8:25	WILEY EDITORIAL BREAKFAST: Rousseau Center
3:00-6:00	INTERNATIONAL PERINATAL BRAIN AND BEHAVIOR NETWORK - 5TH ANNUAL MEETING	8:00 – 8:30	CONTINENTAL BREAKFAST AND COFFEE/TEA: Kon Tiki Ballroom Foyer
	<i>Topic:</i> WHAT CAN WE LEARN FROM PRETERM INFANTS ABOUT FETAL DEVELOPMENT? Sam Doesburg, University of British Columbia with Ruth Grunau, University of British Columbia Hugo Lagercrantz, Karolinska Institute, Stockholm <i>Discussant:</i> Stanley Graven, University of South Florida <i>Discussion Leader:</i> Jeffrey Alberts, Indiana University	8:00 – 8:30	STUDENT/POST-DOC BREAKFAST CHAT SESSION: Toucan Room
	<i>Website:</i> www.ipbbn.org <i>Contact:</i> Christine Moon mooncm@plu.edu	8:30 – 10:00	SYMPOSIUM: EARLY EXPERIENCES AND LATER MENTAL HEALTH Chair: Sonia Cavigelli
4:30 – 7:30	Registration (<i>see page 16 for other times to register and for times for speakers to load talks</i>) Location: Kon Tiki Ballroom Foyer	8:30	IDENTIFYING FEARFUL TEMPERAMENT IN INFANCY Nathan A. Fox, University of Maryland
7:30 – 7:40	OPENING REMARKS President: Harlene Hayne	8:50	THE CONTRIBUTION OF CHILDHOOD TRAUMA TO THE NEUROBIOLOGY OF DEPRESSION Christine M. Heim, Emory University
7:40-8:40	PAST PRESIDENT'S SYMPOSIUM Chair: Gordon Barr	9:10	MATERNAL DEPRESSION, ANXIETY, AND ANTIDEPRESSANT TREATMENT DURING PREGNANCY INFLUENCES OFFSPRING NEUROBEHAVIORAL DEVELOPMENT FROM LATE GESTATION THROUGH THE FIRST YEAR OF LIFE Amy L. Salisbury, Brown University
7:40	INFANT SLEEP: PERCHANCE TO LEARN William P. Fifer, Columbia University	9:30	MATERNAL-NEONATE INTERACTIONS AND SIBLING VARIANCE IN ANXIETY-RELATED SYMPTOMS IN RODENTS Sonia A. Cavigelli & Christina M. Ragan Pennsylvania State University
8:10	CONTEXT REPRESENTATIONS, THE HIPPOCAMPUS AND DEVELOPMENT Jerry W. Rudy, University of Colorado		
8:40-10:00	WELCOME RECEPTION: East/West Boardroom/Foyer	10:00 – 10:30	MORNING BREAK

- 10:30 – 12:30 **ORAL SESSION 1: EARLY LIFE STRESS AND REGULATION OF CORTISOL**
Chair: Pamela Hunt
- 10:30 ALLOSTATIC LOAD IN THE CONTEXT OF POVERTY IN EARLY CHILDHOOD
C. Blair, C. Raver, D. Granger, R. Mills-Koonce & L. Hibel
- 10:45 EXPOSURE TO INTIMATE PARTNER VIOLENCE AND THE DEVELOPMENT OF ADRENOCORTICAL REACTIVITY AND RECOVERY ACROSS THE FIRST TWO YEARS OF LIFE
L. Hibel, D. Granger & C. Blair
- 11:00 LATENT PROFILES OF INFANT ANS ACTIVITY IN A HIGH RISK SAMPLE
K. Voegtline, C. Stifter & D. Granger
- 11:15 CORTISOL RESPONSE AND NEGATIVE TEMPERAMENTAL REACTIVITY IN INFANCY AND TODDLERHOOD ARE ASSOCIATED WITH ANTENATAL MATERNAL CORTISOL AND ANXIETY
B.R.H. Van Den Bergh, A. Simons, K. Allegaert, J. Verhaeghe & S. Claes
- 11:30 EARLY-LIFE STRESS RESULTS IN PRECOCIOUS EMERGENCE OF RENEWAL AND REINSTATEMENT EFFECTS, AND EARLY INVOLVEMENT OF GABA IN FEAR EXTINCTION IN THE DEVELOPING RAT
B.L. Callaghan & R. Richardson (Travel Award)
- 11:45 EARLY POSTNATAL SYMPTOMS OF MATERNAL DEPRESSION ARE NEGATIVELY CORRELATED WITH ONE-YEAR NEUROBEHAVIORAL OUTCOME OF PRETERM INFANTS
A. Izraelit, R.I. Stark, W.P. Fifer & M.M. Myers (Travel Award)
- 12:00 CORTISOL LEVELS IN RELATION TO MATERNAL INTERACTION AND CHILD INTERNALIZING BEHAVIOR IN PRETERM AND FULL TERM CHILDREN AT 18 MONTHS CORRECTED AGE
S. Brummelte, R.E. Grunau, A. Zaidman-Zait, J. Weinberg, D. Nordstokke & I.L. Cepeda (Travel Award)
- 12:15 ATTENUATED CORTISOL AS A RISK FACTOR FOR INTERNALIZING SYMPTOMS IN PRESCHOOLERS
L.S. Badanes & S.E. Watamura
- 12:30 – 2:00 **MID-DAY BREAK**
- 12:30 – 2:00 **BOARD MEETING WITH PAST PRESIDENTS:**
East/West Boardroom
- 2:00 – 3:30 **SYMPOSIUM: MATERNAL SUPPORT OF INFANT BEHAVIOR**
Chairs: Lana Karasik & Vanessa LoBue
- 2:00 ACOUSTIC SCAFFOLDING: THE ROLE OF CAREGIVER RESPONSIVENESS IN LEARNING TO TALK
Michael H. Goldstein, Cornell University
- 2:20 MATERNAL SUPPORT OF INFANTS' MOTOR SKILLS IN SIX COUNTRIES
Lana B. Karasik & Marc H. Bornstein, NICHD
- 2:40 INFANTS' USE OF MOTHERS' MESSAGES IN RISKY MOTOR SITUATIONS
Karen E. Adolph & Catherine S. Tamis-LeMonda, New York University
- 3:00 MOTHER'S GUIDANCE OF INFANT'S BEHAVIORAL EXPLORATION OF TOYS AND ANIMALS
Vanessa LoBue, New York University

- 3:30 – 4:00 **Related Presentations**
- 3:30 MATERNAL SENSITIVITY INFLUENCES TODDLER ATTENTION AND PRELINGUISTIC COMMUNICATIVE BEHAVIOR
J. Gros-Louis & J. Miller
- 3:45 CHILDREN'S NEURAL RESPONSE TO MOTHER'S FACE: EFFECTS OF EARLY CAREGIVING EXPERIENCES
M. Shapiro, E. Telzer, M. Mayo & N. Tottenham
- 4:00 – 4:30 **AFTERNOON BREAK**
- 4:30 – 5:15 **AWARDS SYMPOSIUM**
Chair: Rachel Barr
- 4:30 **DISSERTATION AWARD**
- MOTHERS ENHANCE INFANTS' 2D-3D TRANSFER OF LEARNING: THE ROLE OF EMOTIONAL RESPONSIVENESS AND MATERNAL STRUCTURING
Elizabeth A. Zack, Georgetown University
Advisor: Rachel Barr
- 4:50 – 5:15 **SANDRA G. WIENER AWARDS**
- 4:50 INFLUENCES OF THE SUPRACHIASMATIC NUCLEUS ON ULTRADIAN AND CIRCADIAN RHYTHMS OF SLEEP AND WAKEFULNESS IN INFANT RATS
Andrew Gall, University of Iowa
- 5:05 INTERLIMB YOKE TRAINING ALTER FORELIMB COORDINATION DURING LEMON-EVOKED FACIAL WIPING IN NEONATAL RATS
Valerie Mendez-Gallardo, University of Iowa

- 5:15 – 7:15 **POSTER SESSION 1 (Cash Bar):** Aviary Ballroom
- 1 INDIVIDUAL DIFFERENCES IN CORTISOL RESPONSE PREDICT DIFFERENCES IN ADJUSTMENT TO COLLEGE
S.E. Gans & V.K. Johnson
- 2 EARLY RISK AND HPA AXIS ACTIVATION
I.Y. Pikovsky & S.E. Watamura
- 3 MENTAL STRESS AND HEART RATE VARIABILITY DURING THE FIRST PREGNANCY TRIMESTER
M.A.K.A. Braeken, R.A. Otte, D. Widjaja, S. Vandeput, J. Taelman, S. Vanhuffel & B.R.H. Van Den Bergh
- 4 INFANT REACTIVITY AND REGULATION DURING A FEAR AROUSING TASK PREDICT LATER EXECUTIVE FUNCTION
A. Ursache & C. Blair
- 5 REPEATED, SHORT-TERM SUBCUTANEOUS INJECTION OF CORTICOSTERONE PRODUCES LASTING EFFECTS ON TRACE EYEBLINK CONDITIONING
D.I. Clafin, C.L. Wentworth-Eidsaune & M.B. Hennessy
- 6 EFFECTS OF NOVELTY EXPOSURE ON PLASTICITY OF ACOUSTIC STARTLE RESPONSE--MODULATION BY MATERNAL STRESS PHYSIOLOGY
H. Jiang, Z. Yang, A.A. Chen, Y. Zhang, R.D. Romeo, B.S. McEwen & A.C. Tang (**Travel Award**)
- 7 ANTENATAL MATERNAL ANXIETY IS ASSOCIATED WITH ALTERED COGNITIVE CONTROL IN FIVE-YEAR-OLD CHILDREN
E.M. Loomans, O. van der Stelt, M. van Eijsden, R.J.B.J. Gemke, T. Vrijkotte & B.R.H.M. van den Bergh

- 8 ATTACHMENT STYLE AS A PREDICTOR OF PHYSIOLOGICAL STRESS DURING PREGNANCY
W. Marquis, M.T. Kinsella, L. Kurzius, A.P. Vazzano, E. Werner & C. Monk.
- 9 MODULATION OF ETHANOL INDUCED LOCOMOTOR STIMULATION BY BACLOFEN IN ADOLESCENT AND ADULT MICE
E.M. Moore, L.C. Meln, B.L. Schneider, K.N. Wray & S.L. Boehm II **(Travel Award)**
- 10 DIFFERENT REGIMENS OF CHRONIC ETHANOL EXPOSURE IN ADOLESCENT AND ADULT RATS: EFFECTS ON TOLERANCE TO ETHANOL-INDUCED MOTOR IMPAIRMENT
M.A. Broadwater, E.I. Varlinskaya & L.P. Spear **(Travel Award)**
- 11 DEFICITS IN TRACE FEAR CONDITIONING INDUCED BY NEONATAL ALCOHOL EXPOSURE PERSIST INTO ADULTHOOD
W.B. Schreiber, A. Pudasaini & P.S. Hunt **(Travel Award)**
- 12 SUPPLEMENTAL CHOLINE DOES NOT MITIGATE DEFICITS IN OLFACTORY HABITUATION IN AN ANIMAL MODEL OF FETAL ALCOHOL EXPOSURE
P.S. Hunt, S. Kim & S.E. Jacobson
- 13 PRENATAL EXPOSURE TO ETHANOL BLUNTS AROUSAL DURING EXPOSURE TO INTERMITTENT HYPOXIA
R.A. Darnall, R.W. Schneider & C.M. Tobia
- 14 CONTEXTUAL LEARNING DEFICITS IN ADULT RATS EXPOSED TO A BINGE DOSE OF ALCOHOL DURING THE NEONATAL PERIOD ARE REHABILITATED BY EXERCISE FOLLOWED BY REARING IN A COMPLEX ENVIRONMENT
N.J. Murawski, F.L. Schiffino, S.A. Jablonski, G.F. Hamilton, S.A. St. Cyr, W.T. Greenough, A.Y. Klintsova & M.E. Stanton **(Travel Award)**
- 15 THE SYNERGISM BETWEEN ETHANOL AND STRESS IS MEDIATED BY CRF1 RECEPTORS IN PREWEANLING RATS
C. Arias, A.C. Solari, J.C. Molina & N.E. Spear
- 16 ONTOGENY OF AMPHETAMINE- AND LICL-INDUCED CONDITIONED TASTE AVOIDANCE IN THE INFANT RAT
D.A. Revillo, J.C. Molina, N.E. Spear & C. Arias
- 17 EFFECTS OF PND 7-9 ALCOHOL EXPOSURE ON TRACE VS. DELAY EYEBLINK CONDITIONING
S.A. Jablonski, N.J. Murawski, F.L. Schiffino & M.E. Stanton **(Travel Award)**
- 18 PROFILING THE NEUROIMMUNE RESPONSE TO CHRONIC INFLAMMATORY STRESS FOLLOWING PRENATAL ALCOHOL EXPOSURE
T. Bodnar, W. Yu, G.G. Meadows, M.S. Kobor & J. Weinberg **(Travel Award)**
- 19 PROINFLAMMATORY ACTIVITY APPEARS NECESSARY, BUT NOT SUFFICIENT, TO SENSITIZE THE PASSIVE, DEPRESSIVE-LIKE RESPONSE OF GUINEA PIGS PUPS DURING MATERNAL SEPARATION
M.B. Hennessy, J. Caraway, K. Paik, P. A. Schiml-Webb & T. Deak
- 20 CROSS-SENSITIZATION BETWEEN STRESS AND D-AMPHETAMINE IN FEMALE AND MALE RATS PRENATALLY EXPOSED TO ALCOHOL
K.A. Uban, F. Poursoltani, W. Comeau, W. Yu, L.A.M. Galea & J. Weinberg
- 21 CREB ACTIVATION IN THE AMYGDALA OF JUVENILE RATS FOLLOWING PREDATOR ODOR FEAR CONDITIONING
C.F. Oliver, C.P. Wiedenmayer & H.N. Shair **(Travel Award)**
- 22 THE INVOLVEMENT OF THE MPFC IN THE EXPRESSION OF LEARNED FEAR ACROSS DEVELOPMENT
S. Li, J.H. Kim & R. Richardson **(Travel Award)**
- 23 ENDURING EFFECTS OF EARLY LIFE TRAUMA ON FEAR REACTIVITY IN THE ADOLESCENT RAT
A. Pickenhagen, C. Raineke, C.K. Cain, J.E. Ledoux & R.M. Sullivan **(Travel Award)**

- 24 STRESS DURING SOCIAL INTERACTIONS WITH MOTHER: WINDOW OF VULNERABILITY FOR DYSFUNCTIONAL NEUROBEHAVIORAL DEVELOPMENT
C. Raineke, S. Moriceau & R.M. Sullivan **(Travel Award)**
- 25 DEVELOPMENTAL CHANGES IN FUNCTIONAL CONNECTIVITIES OF THE AMYGDALA DURING CONDITIONED AND UNCONDITIONED FEAR
R. Bisaz, R.M. Sullivan & D. Wilson **(Travel Award)**
- 26 INFANT SOCIAL BEHAVIOR DYSFUNCTION PREDICTS ADOLESCENT DEPRESSIVE- AND ANXIETY-LIKE BEHAVIORS
M. Rincon Cortes, C. Raineke, S. Moriceau & R.M. Sullivan **(Travel Award)**
- 27 WITHIN-LITTER VARIANCE IN MATERNAL AND NEONATE BEHAVIOR PREDICTS ADULT SIBLING VARIANCE IN ANXIETY-RELATED BEHAVIOR AND SERT MRNA EXPRESSION IN RATS
C.M. Ragan, E. Loken & S.A. Cavigelli **(Travel Award)**
- 28 THE CONNECTION BETWEEN THE MEDIAL PREFRONTAL CORTEX, AMYGDALA AND PERIAQUEDUCTAL GRAY IN INNATE FEAR PROCESSING DURING ONTOGENY
T. Chan, K. Kyere, C.F. Oliver, J. Madrid, C. Schubmehl, A. Chemiakine, H. Shair & C.P. Wiedenmayer **(Travel Award)**
- 29 EFFECTS OF PREDICTABLE VS. UN-PREDICTABLE AVERSIVE LEARNING EARLY IN DEVELOPMENT ON ADULT FEAR CONDITIONING
D.-O. Seo & M.H. Monfils
- 30 TEMPERAMENT-ASSOCIATED DIFFERENCES IN RAT IMMUNE RESPONSES - NEOPHOBIC AND NEOPHILIC RATS
K.C. Michael, S.A. Cavigelli & R.H. Bonneau
- 31 SEX DIFFERENCES IN BASAL AND NOVELTY-EVOKED CORTICOSTERONE AND BEHAVIOR IN RATS
J.D. Feimster, J.J. Morgan, C.D. Tulbert, G.G. Winn, G.A. Kleven & A.E. Ronca
- 32 MAGNETIC RESONANCE SPECTROSCOPY (MRS): A NON-INVASIVE BIOMARKER FOR DEVELOPMENTAL NEUROPATHOLOGY
J.J. Morgan, G.A. Kleven, J.D. Feimster, G.D. Winn, C.D. Tulbert, J. Olson & A.E. Ronca **(Travel Award)**
- 33 THE EFFECT OF NUTRITION EDUCATION ON CHILDREN'S HEALTHY FOOD CHOICES.
C.A. Forestell, J.M. Schindler & D. Corbett
- 34 ASSESSING THE AFFECTIVE COMPONENT OF PAIN IN THE INFANT
P.J. Singh, D. Hunter & G.A. Barr
- 35 EFFICACY OF FAMILY NURTURE INTERVENTION IN THE NICU: A MID-TERM REPORT OF NEUROBEHAVIORAL EFFECTS ON MOTHERS AND PRE-TERM INFANTS
M.G. Welch, P.G. Grieve, R.I. Stark, S.A. Brunelli, P.A. Farrell, D.E. Guerriero, E.S. Fiedor, Y.A. Koukaz, A.D. Rios, A. Izraelit, C.Y. Chang, S. Kofman, M.E. Arnn, R. Sahni, M.A. Hofer & M.M. Myers
- 36 MATERNAL EMOTIONAL AVAILABILITY IN RELATION TO INTERNALIZING BEHAVIOR AT 18 MONTHS IN CHILDREN BORN VERY PRETERM
J. Vinall, R.E. Grunau & S.P. Miller
- 37 CUMULATIVE NEONATAL PAIN PREDICTS BEHAVIORS DURING COGNITIVE CHALLENGE IN CHILDREN BORN VERY PRETERM AT AGE 4.5 YEARS
R.E. Grunau, J. Petrie Thomas, A. Synnes & M.F. Whitfield
- 38 CONTINUITY IN NEONATAL REGULATION: NEWBORN HEART RATE-MOVEMENT COUPLING PREDICTS INFANT TEMPERAMENT AT 4 MONTHS
E.A. Werner, M.T. Kinsella, L. Evans & C. Monk
- 39 GREATER SATISFACTION WITH SOCIAL SUPPORT IS ASSOCIATED WITH DECREASED BLOOD PRESSURE IN ADOLESCENT PREGNANCY
L. Kurzius, M.T. Kinsella, W. Marquis, A.P. Vazzano, E.A. Werner & C. Monk

**FRIDAY, NOVEMBER 12
KON TIKI BALLROOM**

40	<p>INFANT AFFECT MODERATES THE RELATIONSHIP BETWEEN MATERNAL SENSITIVITY AND RSA CHANGE DURING CHALLENGE AT 6 MONTHS C.B. Propper, W.R. Mills-Koonce & G.A. Moore</p>	8:00 – 8:30	CONTINENTAL BREAKFAST AND COFFEE/TEA
41	<p>DEVELOPMENTAL COMPARATIVE EXPLORATION OF THE NEURAL MECHANISMS UNDERLYING PHASE PREFERENCE IN DIURNAL NILE GRASS RATS AND NOCTURNAL NORWAY RATS W.D. Todd, A.J. Gall & M.S. Blumberg (Travel Award)</p>	8:30 – 10:30	<p>ORAL SESSION 2: ATTENTION, LEARNING AND MEMORY Chair: Julien Gross</p>
42	<p>VARIANCES IN DIURNAL PATTERNS OF FATIGUE AND MOOD AMONG POSTPARTUM MOTHERS A.L. McBean & H.E. Montgomery-Downs (Travel Award)</p>	8:30	<p>LEARNING DURING NEWBORN SLEEP: BEHAVIORAL AND EEG RESPONSES A. R. Tarullo, J. R. Isler, C. Gennarini, E. Vignola, J. D. Nugent, P.D. Balsam & W.P. Fifer</p>
43	<p>INTERACTIONS AMONG SLEEP STATE, BODY POSITION AND CIRCULATORY CONTROL IN LOW BIRTH WEIGHT INFANTS T.C. Daniels, W.P. Fifer, M.M. Myers & R. Sahni (Travel Award)</p>	8:45	<p>INDIVIDUAL DIFFERENCES IN EARLY ASSOCIATIVE LEARNING PREDICTS BEHAVIORAL AND NEURAL CORRELATES OF HUMAN INFANT SOCIAL ENGAGEMENT DURING THE FIRST YEAR OF LIFE B.C. Reeb-Sutherland, J.G. Suway, E.A.D. Hammock, P. Levitt & N.A. Fox (Travel Award)</p>
44	<p>IN NEWBORN RABBITS POSITION IN THE LITTER HUDDLE IS ASSOCIATED WITH DIFFERENTIAL METABOLISM OF BROWN ADIPOSE TISSUE H. Perez-Roldan, R. Hudson, F. Castelan, M. Martinez-Gomez & A. Bautista</p>	9:00	<p>THE DEVELOPMENT OF LEARNING FROM MULTIPLE SOURCES: SALIENCE, PREDICTION, AND COGNITIVE FLEXIBILITY D. Amso, J. Davidow & B. Kramer</p>
45	<p>A THERMOGRAPHIC AND BEHAVIORAL STUDY OF HUDDLING IN C57BL/6 MOUSE PUPS C. Harshaw & J.R. Alberts (Travel Award)</p>	9:15	<p>AUDITORY EVENT-RELATED POTENTIAL MEASURES OF TIME PROCESSING IN TWO-MONTH-OLD INFANTS R.A. Otte, M.A.K.A. Braeken, O. van der Stelt & B.R.H.M. Van den Bergh</p>
46	<p>COMPETITION AMONG NEWBORN RABBITS FOR THERMALLY ADVANTAGEOUS POSITIONS IN THE LITTER HUDDLE IS ASSOCIATED WITH LONG TERM DIFFERENCES IN BEHAVIOR AND PHYSIOLOGY V. Reyes-Meza, L. Nicols, M. Martinez-Gomez, R. Hudson & A. Bautista (Travel Award)</p>	9:30	<p>ONTOGENY OF AVERSIVE LEARNING: CRITICAL IMPACT OF SYNCHRONIZED PREFRONTAL AND LIMBIC NETWORK ACTIVITY K. Braun, Gruss, J. Bock, V. Korz & A. Riedel</p>
		9:45	<p>USING SPONTANEOUS EYE BLINKING TO ANSWER PSYCHOBIOLOGICAL QUESTIONS IN INFANCY L.F. Bacher</p>

10:00	SPONTANEOUS TRANSITIONS BETWEEN CRAWLING AND SITTING POSTURES DURING INFANT LOCOMOTION K.C. Soska, A.R. Lurie, S.R. Robinson & K.E. Adolph	2:05	RESTORING NEURONAL PLASTICITY IN MODELS OF FETAL ALCOHOL SPECTRUM DISORDERS A.E. Medina, C.L. Lantz, A.P. Paul, T.E. Krahe, C.C. Filgueiras & W. Wang
10:15	CHILDREN'S SEARCH BEHAVIOUR IN RELATION TO TARGET CONSPICUITY AND SPATIAL DISTRIBUTION M.F. Rosetti, L. Pacheco-Cobos, H. Larralde & R. Hudson	2:25	CHOLINE AS A TREATMENT FOR FETAL ALCOHOL SPECTRUM DISORDERS J.D. Thomas, N. Idrus, B. Monk, J. Happer & R. Isayama
10:30 – 11:00	MORNING BREAK	2:45	EFFECTS OF EXERCISE ON ADULT HIPPOCAMPAL NEUROGENESIS IN TWO MODELS OF FASD B. Christie, J. Gil-Mohapel, P. Brocardo, F. Boehme, A. Patten, J. Helfer, H. Sickmann & A. Titterness
11:00 – 12:15	JOHN WILEY BEST STUDENT PAPER To be announced by: Michael Hennessy	3:05	Discussant: Christina Chambers
	JOHN WILEY DISTINGUISHED SPEAKER Chair: Harlene Hayne Wiley Representative: Joe Ingram	3:15 – 4:00	Related Presentations
	THE BIOLOGICAL LEGACY OF PSYCHOSOCIAL ADVERSITY: LESIONS FROM THE LIFECOURSE Richie Poulton, Dunedin Multidisciplinary Health and Development Research Unit, University of Otago, Dunedin, New Zealand	3:15	THE EFFECT OF NEONATAL ETHANOL ON CONDITIONED TASTE AVERSION LEARNING IN PREWEANLINGS S.S. Miller , L. Darnieder, D. Lynn & N.E. Spear (Travel Award)
12:15 – 1:45	MID-DAY BREAK	3:30	EFFECTS OF ADOLESCENT EXPOSURE TO SWEET TASTES ON ENERGY BALANCE IN RATS S.E. Swithers, A.F. Laboy, S. Ogden & T.L. Davidson
12:15 – 1:45	MEET THE PROFESSORS LUNCH: William D. Evans (adjacent to meeting room on dock)	4:00 – 4:30	AFTERNOON BREAK
1:45 – 3:15	SYMPOSIUM: TREATMENTS FOR FETAL ALCOHOL SPECTRUM DISORDERS: NOVEL PHARMACOLOGICAL, NUTRITIONAL, AND ENVIRONMENTAL INTERVENTIONS FROM BASIC SCIENCE Chairs: Susan Barron & Jennifer Thomas	4:30 – 5:30	PRESIDENTIAL ADDRESS Chair: Michael Myers
1:45	BLOCKADE OR REDUCTION OF POLYAMINES IMPROVES OUTCOME FOLLOWING NEONATAL ETHANOL EXPOSURE IN RATS S. Barron, K.A. Wellmann, B. Lewis, L. Carter & M. Carter		FROM BASIC SCIENCE TO PUBLIC GOOD: THE IMPORTANCE OF DEVELOPMENTAL RESEARCH Harlene Hayne, University of Otago, Dunedin, New Zealand

5:30 – 7:30 **POSTER SESSION 2 (Cash Bar):** Aviary Ballroom

- 1 EFFECTS OF HOUSING CONDITIONS ON SIGN-TRACKING BEHAVIOR IN ADOLESCENT AND ADULT FEMALE SPRAGUE-DAWLEY RATS
R.I. Anderson & L.P. Spear (Travel Award)
- 2 CHANGES IN AMYGDALAR CIRCUIT STRUCTURE AND FUNCTION ACROSS ADOLESCENCE IN THE RAT
H. Moore, V. L. Cressman, M. Kudelka, A. Torres, S. Steinfeld & A. Shemyakin
- 3 AGE RELATED DIFFERENCES IN SOCIAL ANTICIPATION AND SOCIAL AFFECT IN RATS AS INDEXED BY 50 KHZ USVS
A.R. Willey & L.P. Spear (Travel Award)
- 4 TO LEAD OR NOT TO LEAD? A DEVELOPMENTAL COMPARISON OF THE BEHAVIOURAL EFFECTS OF OSTRACISM
H. Pharo, J. Gross & H. Hayne (Travel Award)
- 5 BART VS CHICKEN? LAB-BASED MEASURES OF RISK-TAKING BY ADOLESCENTS
J. Gross, M. Graham, H. Pharo & H. Hayne
- 6 THE UNIT OF MEASUREMENT-FREQUENCIES VERSUS DURATIONS OF MATERNAL BEHAVIOR AS A CONSEQUENCE OF MATERNAL SEPARATION IN C57BL/6.
J.D. Bailoo & R.L. Jordan (Travel Award)
- 7 CUTTING THE VAGUS NERVE BELOW THE DIAPHRAGM PREVENTS MATERNAL POTENTIATION OF INFANT RAT VOCALIZATION
H.N. Shair, J. Smith & M.G. Welch
- 8 ATTENTION SURGES AT THE ENDS OF LOOKS IN 3-MONTH-OLDS
S.S. Robertson & S.-W. Liou
- 9 THE RELATION OF DEMOGRAPHIC VARIABLES TO ASSOCIATIVE LEARNING IN INFANCY
D. Hipp, S. Miller, P. Gerhardstein & K. Dickerson (Travel Award)

- 10 CAN REMINDERS BE USED TO REACTIVATE FORGOTTEN MEMORIES FROM BOOKS DURING TODDLERHOOD?
N. Brito, P. McIntyre, D. Dougherty, R. Barr & G. Simcock (Travel Award)
- 11 THE VIDEO DEFICIT EFFECT: LEARNING THE MEANS AND THE ENDS FROM LIVE AND VIDEO DEMONSTRATIONS
K. Dickerson, P. Gerhardstein, E. Zack & R. Barr
- 12 BEHAVIORAL AND ELECTROPHYSIOLOGICAL INDICES OF LEARNING IN 14-MONTH-OLD INFANTS: DEFERRED IMITATION CORRELATES WITH THE NC COMPONENT
M. Heimann, E. Nordqvist, M. Johansson & M. Lindgren
- 13 THE ROLE OF VERBAL REMINDERS IN CHILDREN'S MEMORY RETRIEVAL
K. Imuta, J. Gross & H. Hayne (Travel Award)
- 14 HANDS-ON PRACTICE FACILITATES 18-MONTH-OLD INFANTS' LEARNING FROM TELEVISION
S. Seehagen, J. Gross, N. Davis, H. Hayne & J.S. Herbert (Travel Award)
- 15 LIMITATIONS ON IMITATION: SOCIALLY GUIDED VOCAL LEARNING IN THE ZEBRA FINCH
M.H. Goldstein, O. Menyhart & T.J. Devoogd
- 16 RELATIONS BETWEEN MATERNAL RESPONSIVENESS AND INFANT CONTINGENCY LEARNING IN SOCIAL AND NONSOCIAL TASKS
F.R. Kirkpatrick, J.A. Schwade & M.H. Goldstein
- 17 SOCIALLY GUIDED ATTENTION INFLUENCES LEARNING
J.L. Miller (Travel Award)
- 18 MATERNAL RESPONSIVENESS TO INFANTS' BABBLING PREDICTS CANALIZATION OF VOCAL LEARNING IN PRELINGUISTIC INFANTS
R.R. Albert, J.A. Schwade & M.H. Goldstein (Travel Award)
- 19 THE GEOMETRY OF SOCIAL PERCEPTION IN THE HEIDER-SIMMEL TASK: A PRELIMINARY REPORT
E.P. Charles, M. Singer & L. Rudolph

- 20 AMOUNT OF ENRICHED REARING AFFECTS BOBWHITE QUAIL CHICKS' SPACIAL EXPLORATION OF A NOVEL ENVIRONMENT
M. Bechor, J. Herrington & R. Lickliter **(Travel Award)**
- 21 ESTABLISHING A NOVEL MODEL OF INFANTILE AMNESIA USING EYEBLINK CLASSICAL CONDITIONING IN THE DEVELOPING RABBIT
K.L. Brown & D.S. Woodruff-Pak **(Travel Award)**
- 22 DELAY VS. TRACE DISCRIMINATION IN EYEBLINK CONDITIONING: ONTOGENY AND EFFECT OF NEONATAL ETHANOL EXPOSURE
R.E. Perry, F.L. Schiffino & M.E. Stanton **(Travel Award)**
- 23 DEVELOPMENTAL EMERGENCE OF DELAY EYEBLINK CONDITIONING WITH A VIBRATION OR TONE CONDITIONED STIMULUS
M.E. Goldsberry, M.E. Elkin & J.H. Freeman **(Travel Award)**
- 24 DEVELOPMENTAL EMERGENCE OF TRACE EYEBLINK CONDITIONING WITH A VIBRATION OR TONE CONDITIONED STIMULUS
T.C. Harmon, K.H. Ng, M.E. Goldsberry & J.H. Freeman **(Travel Award)**
- 25 THE EYES DON'T ALWAYS HAVE IT: AS INFANTS GROW THEY SHIFT THEIR ATTENTION TO THE MOUTH OF A TALKING FACE
D.J. Lewkowicz & A. Hansen
- 26 A LONGITUDINAL COMPARISON BETWEEN THE FETAL RESPONSE TO LIVE AND RECORDED MATERNAL SPEECH
C. Krueger
- 27 PRELIMINARY ANALYSIS OF THE RESPONSE TO REPEATED MATERNAL SPEECH: A DEVELOPMENTAL COMPARISON OF THE FETUS AND PRETERM INFANT
J. Jancek, F. Pe Benito, J. Cimino, B.A. Crosland, E. Horesh & C. Fielding
- 28 PRENATAL EXPOSURE TO HYPERARTICULATED SPEECH MAY INFLUENCE NEONATAL VOWEL PERCEPTION: A CONTROL STUDY
J. Serles, C. Moon, H. Lagercrantz & P.K. Kuhl
- 29 FETAL CONSONANT AND VOWEL DISCRIMINATION FOLLOWING PRENATAL SELECTIVE SEROTONIN REUPTAKE INHIBITOR ANTIDEPRESSANT (SSRI) EXPOSURE IN THE THIRD TRIMESTER
W.M. Weikum, J.F. Werker, T.K. Hensch & T.F. Oberlander
- 30 SELECTIVE ATTENTION DURING PRENATAL DEVELOPMENT: REDUNDANCY ACROSS AUDITORY AND VIBRO-TACTILE STIMULATION FACILITATES LEARNING IN QUAIL EMBRYOS
J. Vaillant, C. Harshaw, M. Jaime, L.E. Bahrck & R. Lickliter
- 31 EXPLORATORY STUDY OF THE RELATIONSHIP BETWEEN MATERNAL BODY MASS INDEX AND FETAL SPONTANEOUS MOVEMENTS
W. Jiang & B.S. Kisilevsky
- 32 LEFT HAND SPECIALIZATION FOR REACHING IN 5-MONTH-OLD RHESUS MONKEYS: EVIDENCE FROM 2-D MOTION ANALYSIS
E.L. Nelson, M.C. Braun, N.E. Berthier, M.F. Novak, S.J. Suomi & M.A. Novak **(Travel Award)**
- 33 ASSESSING THE DEVELOPMENTAL TRAJECTORY OF INFANT LATERALIZED HAND-USE WITHOUT USING AGE
I. Babik, J.M. Campbell & G.F. Michel **(Travel Award)**
- 34 The RELATION OF INFANT HANDEDNESS TO PARENTAL HANDEDNESS
J.M. Campbell, I. Babik, O. Taras & G.F. Michel **(Travel Award)**
- 35 HERD BEHAVIOR OF THE INDIVIDUAL IAF HAIRLESS GUINEA PIG (CAVIA PORCELLUS)
P. Joshi, J.S. Brewer, A.D. Downs & G.A. Kleven
- 36 L-DOPA REVERSES DOPAMINE-DEPENDENT BEHAVIORAL DEFICITS IN THE PITX3 MOUSE FETUS
H.M. Booth, C.M. McGlone, A.E. Ronca & G.A. Kleven

- 37 PRENATAL BEHAVIORAL DEVELOPMENT OF THE PITX3 MOUSE FETUS REVEALS DOPAMINE-DEPENDENT DEFICITS
G.A. Kleven, C.M. McGlone, H.M. Booth, C.J. Powers & A.E. Ronca
- 38 THE DEVELOPMENTAL PATTERN OF GLAUCOMA IN THE DBA/2J MOUSE
A.A. Wong & R.E. Brown
- 39 STEP BY STEP: DEVELOPMENTAL CHANGES IN SPONTANEOUS WALKING
M. Komati, S. Iravani, M.S. McGwier, J.M. Lingeman, W.G. Cole & K.E. Adolph
- 40 TIGHT SQUEEZE: INFANTS' MOTOR DECISIONS REFLECT CONSEQUENCES FOR ERRORS
J.M. Franchak & K.E. Adolph (**Travel Award**)
- 41 GO NAKED: EFFECTS OF DIAPERS ON INFANT WALKING
W.G. Cole, J.M. Lingeman, M. Komati & K.E. Adolph (**Travel Award**)
- 42 THE KIDDY CAROUSEL: VISUAL EXPLORATION DURING ACTIVE AND PASSIVE LOCOMOTION
K.S. Kretch & K.E. Adolph (**Travel Award**)
- 43 EFFECTS OF PERINATAL EXPERIENCE ON MOTOR COORDINATION IN NEWBORN RATS
M.E. Roberto, B.J. Livesay & M.R. Brumley (**Travel Award**)
- 44 DEVELOPMENTAL CHANGES IN HINDLIMB COORDINATION DURING THE LEG EXTENSION RESPONSE EVOKED BY ANOGENITAL STIMULATION
M.A. Vineyard, M.M. Strain, M.E. Roberto & M.R. Brumley (**Travel Award**)
- 45 POSTURE MODULATES QUIPAZINE-INDUCED AIR-STEPPING BEHAVIOR IN THE NEWBORN RAT
S.D. Harris, M.E. Roberto & M.R. Brumley (**Travel Award**)
- 46 THE DEVELOPMENT AND SENSORY REGULATION OF STEPPING BEHAVIOR IN THE NEWBORN RAT
M.M. Strain & M.R. Brumley

- 47 CHANGES IN MOTOR PATTERNS AFTER A NEURODEVELOPMENT INTERVENTION IN CHILDREN WITH NEUROLOGICAL RISK FACTOR
H.J. Pelayo, V. Reyes, L. Quintanar & Y. Solovieva
- 48 VISUALLY GUIDED REACHING: PARALLELS BETWEEN HUMAN A+B3ND NON-HUMAN PRIMATES
J.M. Lingeman, A. Pham, K.C. Soska, K.E. Adolph, K. Rosander, C. Von Hofsten & L. Kiorpes (**Travel Award**)
- 49 EMERGENCE OF PERSONALITY IN KITTENS: A QUALITATIVE APPROACH TO DETECTING INDIVIDUAL BEHAVIORAL DIFFERENCES AMONG LITTERMATES DURING THE FIRST POSTNATAL MONTH
R. Hudson, M. Guarneros, A. Rodriguez & G. Raihani

8:00 – 10:00 **STUDENT SOCIAL:** Moray's Lounge
Food and Cash Bar

**SATURDAY, NOVEMBER 13
KON TIKI BALLROOM**

- 8:00 – 8:30 **CONTINENTAL BREAKFAST AND COFFEE/TEA**
- 8:30 – 10:30 **SACKLER SYMPOSIUM: IN MEMORY OF CHRISTOPH P. WIEDENMAYER– STRESS, FEAR AND TRAUMA: A COMPARATIVE LIFESPAN APPROACH**
- 8.30 Chair: Gordon Barr. Introductory Remarks
- 8.40 NEONATAL PAIN IS LINKED TO LONG-TERM ALTERATIONS IN STRESS REGULATION IN INFANTS BORN EXTREMELY PRETERM
Ruth Eckstein Grunau, University of British Columbia
- 9:05 EARLY LIFE MALTREATMENT LINKS TO SOCIAL BEHAVIOR AND AMYGDALA DYSFUNCTION
Regina Sullivan, Nathan Kline Institute & NYU School of Medicine

- 9:30 WHAT IS HIPPOCAMPAL MATURITY IN THE
CONTEXT OF FEAR LEARNING?
Patricia A. Kabitzke, City University of New York
- 9:55 SEX, STRESS AND BRAIN MECHANISMS OF
COGNITION AND EMOTION
Bruce McEwen, Rockefeller University
- 10:30 – 11:00 **MORNING BREAK**
- 11:00 – 12:00 **ORAL SESSION 3: SLEEP AND REGULATION**
Chair: Jane Herbert
- 11:00 MATERNAL POSTPARTUM SLEEP AND
PSYCHOMOTOR PERFORMANCE
S.P. Insana, K.B. Williams & H.E. Montgomery-
Downs (**Travel Award**)
- 11:15 POSTPARTUM FEEDING METHODS AND
MATERNAL SLEEP DISTURBANCE
E.E. Santy, H.M. Clawges & H.E. Montgomery-
Downs (**Travel Award**)
- 11:30 EXPERIENTIAL AND NEUROENDOCRINE
DETERMINANTS OF FILIAL, ODOR-GUIDED
HUDDLING IN YOUNG RATS
S. Kojima & J.R. Alberts (**Travel Award**)
- 11:45 BEYOND DREAMS: DO SLEEP-RELATED
MOVEMENTS CONTRIBUTE TO BRAIN
DEVELOPMENT?
M. Blumberg
- 12:00 – 12:15 **BEST POSTER AWARD**
Presenter: Michael Myers
- 12:15 – 1:00 **BUSINESS MEETING - ALL INVITED**
End of ISDP Conference

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REGISTRATION DESK HOURS:

Wednesday	4:30-7:30 PM
Thursday	7:30-8:30 AM; 12:30-2:00; 5:40-7:30 PM
Friday	7:30-8:30 AM; 12:00-1:45

LOAD TALKS ON CONFERENCE COMPUTERS:

Wednesday	4:30-7:30 PM
Thursday/Friday	8:00-8:30 AM; During Lunch; During Poster Sessions
Saturday	8:00-8:30 AM

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Wednesday – 11/10		Thursday – 11/11		Friday – 11/12		Saturday – 11/13	
		7:00-8:25	Wiley Editorial Breakfast				
		8:00-8:30	Continental Breakfast Student/Post-doc Breakfast Chat Session	8:00-8:30	Continental Breakfast	8:00-8:30	Continental Breakfast
		8:30-10:00	Symposium <i>Early Experiences and Later Mental Health</i> Nathan A. Fox Christine M. Heim Amy L. Salisbury Sonia A. Cavigelli	8:30-10:30	Oral Session 2 <i>Attention, Learning and Memory</i>	8:30-10:30	Sackler Symposium <i>Stress, Fear and Trauma: A Comparative Lifespan Approach</i> Gordon Barr Ruth Eckstein Grunau Regina Sullivan Patricia Kabitzke Bruce McEwen
		10:00-10:30	Morning Break				
		10:30-12:30	Oral Session 1 <i>Early Life Stress and Regulation of Cortisol</i>	10:30-11:00	Morning Break	10:30-11:00	Morning Break
				11:00-12:15	John Wiley Award for Best Student Paper	11:00-12:00	Oral Session 3 <i>Sleep and Regulation</i>
					John Wiley Distinguished Speaker Richie Poulton		
				12:15-1:45	Mid-Day Break	12:00-1:00	Poster Award Business Meeting-All Invited
		12:30-2:00	Mid-Day Break Board Meeting with Past Presidents		Meet the Professors Lunch		End of ISDP Conference 2010
		2:00-4:00	Symposium <i>Maternal Support of Infant Behavior</i> Michael Goldstein Lana Karasik Karen Adolph Vanessa LoBue and related talks	1:45-4:00	Symposium <i>Treatments for Fetal Alcohol Spectrum Disorders</i> Susan Barron Alexandre Medina Jennifer Thomas Brian Christie Christina Chambers and related talks		
		4:00-4:30	Afternoon Break	4:00-4:30	Afternoon Break		
4:30-7:30	REGISTRATION Kon Tiki Foyer	4:30-5:15	Awards Symposium Dissertation Award Sandra G. Wiener Awards	4:30-5:30	Presidential Address <i>From Basic Science to Public Good: The Importance of Developmental Research</i> Harlene Hayne		
7:30-8:40	Opening Remarks Harlene Hayne Past Presidents Fifer and Rudy	5:15-7:15	Poster Session 1 (Cash Bar) Aviary Ballroom	5:30-7:30	Poster Session 2 (Cash Bar) Aviary Ballroom		
8:40-10:00	Welcome Reception			8:00-10:00	Student Social (Cash bar)		