



**50TH ANNUAL MEETING
CONFERENCE PROGRAM**

**WESTIN CITY CENTER
WASHINGTON, DC USA**

NOVEMBER 8-10, 2017

INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY

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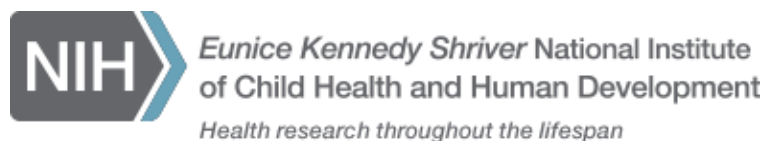
ISDP CENTRAL OFFICE

Marianne Van Wagner
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INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY
50TH ANNUAL MEETING
WASHINGTON, DC • NOVEMBER 8-10, 2017

SPONSORS

Thank you to our sponsors, who have generously supported the ISDP. Funding for these awards was generously provided by the National Institutes of Health Office of Behavioral and Social Sciences Research, *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, National Institute on Alcohol Abuse and Alcoholism, Wiley, Nurture Science Program Columbia University Medical Center, The Sackler Institute for Developmental Psychobiology.



The Sackler Institute for Developmental Psychobiology
Columbia University College of Physicians & Surgeons



NURTURE SCIENCE PROGRAM
COLUMBIA UNIVERSITY MEDICAL CENTER

Wednesday – 11/8	Thursday – 11/9	Friday – 11/10
<p style="text-align: center;">Registration National Ballroom Foyer 10:00 a.m. – 4:30 p.m.</p>	7:00-9:00 Board Meeting	7:30-8:00 Continental Breakfast
	8:30-9:00 Continental Breakfast	8:00-9:00 NSF/NIH Grant Funding Opportunities
	9:00-10:15 Oral Session 1: Sleep and Motor Development	9:00-10:00 Symposium: Growing Minds and Microbes R. Knickmeyer B. Callaghan J. Flannery M. Firestein
	10:15-10:45 2016 Dissertation Award A. Tiriac 2017 Dissertation Award R.E. Perry	10:00-10:15 10:15-11:00 Award Presentations Business Meeting
	10:45-11:00 Mid-Morning Break	11:00-11:15 Mid-Morning Break
	11:00-12:30 Sackler Symposium: Early Life Stress, Parenting, and Epigenetic Modifications T.L. Roth F.A. Champagne S.S. Drury J.R. Hoye	11:15-12:15 Wiley Distinguished Speaker: Socioeconomic Inequality and Children's Cognitive and Brain Development K.G. Noble
2:00-4:30 IPBBN Preconference	12:30-2:00 Lunch Workshop: The Future of Science Communication J.H. Kim I.C. Zbukvic A.K. Short L. Chong	12:15-2:00 Wiley Editorial Board Meeting
	2:00-3:30 Oral Session 2: Early Life Experience	1:00-2:00 Workshop: Successful Grant Writing
5:00 Welcome and Opening Remarks	Sandra Weiner Award K. Poole Kucharski Young Investigator Award E. Conrad	2:00-3:00 Symposium: Nevertheless, She Persisted: Successful Female Post-Docs Explore the Consequences of Early-Life Adversity in Males and Females S. Brummelte R. Barr J. Honeycutt T. Bodnar J. Vinall M. van den Heuvel
5:05-5:45 50 Years of ISDP Richard Brown Ryan Wheeler	3:30-4:00 Afternoon Break	3:00-4:30 Oral Session 3: Social Development
5:45-7:30 Presidential Symposium: Neurodevelopmental Processes in the Emergence of Psychiatric Disorders: Current Views on Anxiety, Irritability, and Depression D. Pine E. Leibenluft A. Stringaris	4:00-4:15 Afternoon Break	4:30-4:45 Afternoon Break
5:45-7:30 Presidential Symposium: Neurodevelopmental Processes in the Emergence of Psychiatric Disorders: Current Views on Anxiety, Irritability, and Depression D. Pine E. Leibenluft A. Stringaris	4:15-5:15 Symposium: Measurement and Implications of Psychophysiological and Perceived Stress in Early Development R.E. Perry E. Finegood A. Ribner E. Merz	4:45-5:45 Symposium: Revisiting Neonatal Imitation: New Theoretical and Empirical Input From Studies on Human and Non-Human Infants E.A. Simpson K. Bard E. Nagy M. Heimann L. Murray
7:30-9:00 Welcome Reception Cash Bar	5:30-7:30 Poster Session 1 Cash Bar	5:45-7:45 Poster Session 2 Cash Bar
9:00-11:00 Student Social		

NOTE: All oral presentations will be in the National Ballroom.

Poster Sessions will be in the Monticello Ballroom and National Ballroom (overflow).

Wednesday, November 8

- 10:00-7:00 ISDP REGISTRATION**
- 2:00-4:30 ISDP Perinatal Pre-Conference Workshop – National Ballroom**
- EMERGING RESULTS IN HUMAN PERINATAL DEVELOPMENT**
- 2:00-2:40 PHYSIOLOGICAL MARKERS OF PERINATAL BRAIN DEVELOPMENT
Bill Fifer, Columbia University
- 2:40-3:25 FROM FETUS TO CHILD: PRENATAL ORIGINS OF CHILD TEMPERAMENT AND BEHAVIOR
Janet DiPietro, Johns Hopkins University
- 3:25-4:00 CONNECTING TOGETHER THE DEVELOPING BRAIN WITH ADVANCED MR TECHNIQUES
Tomoki Arichi, Kings College, London
- 4:00-4:30 FETAL NEURODEVELOPMENTAL ASSESSMENT USING MAGNETOENCEPHALOGRAPHY IN FETUSES EXPOSED TO BUPRENORPHINE
Hari Eswaran, University of Arkansas
- 4:30-5:00 AFTERNOON BREAK**
- 5:00 WELCOME AND OPENING REMARKS: Nathan Fox, President**
- 5:05-5:45 50 YEARS OF ISDP – National Ballroom**
- 5:05-5:25 50 YEARS LATER: THE FOUNDERS OF THE ISDP
R.V. Wheeler & R.E. Brown
- 5:25-5:45 THE INFLUENCE OF DONALD O. HEBB ON THE FOUNDERS OF THE ISDP
R.E. Brown & R.V. Wheeler

- 5:45-7:30 PRESIDENTIAL SYMPOSIUM: NEURODEVELOPMENTAL PROCESSES IN THE EMERGENCE OF PSYCHIATRIC DISORDERS: CURRENT VIEWS ON ANXIETY, IRRITABILITY, AND DEPRESSION**
Chair: Nathan Fox
- 5:45-6:20 LEVERAGING NEUROSCIENCE TO IMPROVE TREATMENT OF ADOLESCENTS: ANXIETY AS AN EXAMPLE
D.S. Pine
- 6:20-6:55 THE NEUROSCIENCE AND TREATMENT OF IRRITABILITY IN YOUTH
E. Leibenluft
- 6:55-7:30 ARE REWARD PROCESSES CAUSALLY INVOLVED IN THE PATHOGENESIS OF DEPRESSION?
A. Stringaris
- 7:30-9:00 WELCOME RECEPTION (CASH BAR) – National Ballroom Foyer**
- 9:00-11:00 STUDENT SOCIAL – Woodlawn Room**

Thursday, November 9

- 7:00-9:00 BOARD MEETING (invitation only) – East Ballroom**
- 8:30-5:00 ISDP REGISTRATION**
- 8:30-9:00 CONTINENTAL BREAKFAST – National Ballroom Foyer**
- 9:00-10:15 ORAL SESSION 1: SLEEP AND MOTOR DEVELOPMENT**
Chair: Emily Marcinowski
- 9:00-9:15 QUANTITY AND PATTERNING OF REM-SLEEP TWITCHES ACROSS THE FIRST POSTNATAL YEAR
G. Sokoloff, M.E. Tobias, & M.S. Blumberg
- 9:15-9:30 NEURAL PATTERNS UNDERLYING THE DEVELOPMENT OF PLANNING IN TOOL USE
O. Ossmy, B. Kaplan, M. Xu, & K.E. Adolph
- 9:30-9:45 THE NEUROPHYSIOLOGICAL BASIS FOR SLEEP: A DECADE LONG PROSPECTIVE STUDY OF CHILDREN FROM BIRTH
R. Geva & I. Skliar
- 9:45-10:00 DIFFERENCES IN STATE-DEPENDENT RESPONSES TO SENSORY FEEDBACK BETWEEN SOMATOSENSORY AND MOTOR CORTEX IN DEVELOPING RATS
J.C. Dooley* & M.S. Blumberg
- 10:00-10:15 BIRTH SEASONS IMPACT WHEN INFANT START CRAWLING AND WALKING
M. He*, A. Blaine, D.I. Anderson, & J.J. Campos

10:15-10:30	2016 DISSERTATION AWARD Alexandre Tiriac, University of Iowa Advisor: Mark Blumberg STATE-DEPENDENT PROCESSING OF REAFFERENCE ARISING FROM SELF-GENERATED MOVEMENTS IN INFANT RATS	1:30-1:50	SCIENCE COMMUNICATION IN THE 21 ST CENTURY B. Wible
10:30-10:45	2017 DISSERTATION AWARD Rosemarie Perry, New York University Advisor: Regina Sullivan FROM SURVIVING TO THRIVING: DEVELOPMENTAL IMPLICATIONS OF CAREGIVER-CHILD INTERACTIONS	1:50-2:00	DISCUSSION
10:45-11:00	MID-MORNING BREAK	2:00-3:30	ORAL SESSION 2: EARLY LIFE EXPERIENCE Chair: Charlis Raineki
11:00-12:30	SACKLER SYMPOSIUM: EARLY LIFE STRESS, PARENTING, AND EPIGENETIC MODIFICATIONS Chair: Julie Hoye	2:00-2:15	THE IMPACT OF EARLY LIFE ADVERSITY AND GROWTH STUNTING ON PUBERTAL DEVELOPMENT AND BODY B.M. Reid, B.S. Miller, L.D. Dorn, C. Desjardins, B. Donzella, & M. Gunnar
11:00-11:20	EPIGENETIC AND BEHAVIORAL CONSEQUENCES OF ADVERSITY IN THE CONTEXT OF CAREGIVING T.L. Roth	2:15-2:30	LONG-TERM NEUROBEHAVIORAL CHANGES IN MICE FOLLOWING NEONATAL REPEATED EXPOSURE TO SUCROSE M. Ranger, S. Tremblay, C.M. Chau, L. Holsti, D. Goldowitz, & R.E. Grunau
11:20-11:40	EPIGENETIC EFFECTS OF PRENATAL MATERNAL EXPOSURE AND MODERATION THROUGH POSTNATAL MOTHER-INFANT INTERACTIONS F.A. Champagne	2:30-2:45	EXPERIMENTAL MANIPULATION OF PREFRONTAL CORTEX DIFFERENTIALLY AFFECTS AMYGDALA REACTIVITY FOLLOWING PARENTAL DEPRIVATION D.G. Gee, B. Goff, L. Gabard-Durnam, C. Caldera, D.S. Fareri, D.S. Lumian, J. Flannery, & N. Tottenham
11:40-12:00	UTILIZATION OF SALIVARY EPIGENOMICS TO DEFINE MECHANISTIC PATHWAYS LEADING TO LASTING ALTERATIONS IN HPA FUNCTION FOLLOWING EARLY SEVERE SOCIAL DEPRIVATION S.S. Drury	2:45-3:00	MECHANISMS FOR A DEVELOPMENTAL CRITICAL PERIOD OF HIPPOCAMPAL LEARNING A. Travaglia* , R. Bisaz, & C.M. Alberini
12:00-12:20	EFFECTS OF EARLY LIFE STRESS AND PARENTING ON METHYLATION PATTERNS: A RANDOMIZED CLINICAL TRIAL OF ATTACHMENT AND BIOBEHAVIORAL CATCH-UP J.R. Hoye	3:00-3:15	EARLY CAREGIVING INTERVENTION PROTECTS CHILDREN FROM THE DELETERIOUS IMPACT OF POVERTY AND MALTREATMENT EXPOSURE ON THE DEVELOPING BRAIN J. Bick & M. Dozier
12:20-12:30	DISCUSSION	3:15-3:30	TESTING THE PUBERTAL RECALIBRATION HYPOTHESIS: DOES PUBERTY ALTER CORTISOL REACTIVITY TO SOCIAL STRESS AS A FUNCTION OF CURRENT LIFE STRESS AND HISTORY OF ADVERSITY? J.R. Doom, B. Donzella, K.J. Koss, L. D. Dorn, & M.R. Gunnar
12:30-2:00	LUNCH BREAK	3:30-3:45	SANDRA G. WIENER AWARD Kristie L. Poole, McMaster University Advisor: Louis Schmidt Presenter: Mark Stanton TRAJECTORIES OF SOCIAL ANXIETY IN CHILDREN: INFLUENCE OF CHILD CORTISOL REACTIVITY AND PARENTAL SOCIAL ANXIETY
12:30-2:00	LUNCH WORKSHOP: THE FUTURE OF SCIENCE COMMUNICATION – National Ballroom Chair: Isabel Zbukvic	3:45-4:00	DAVID KUCHARSKI YOUNG INVESTIGATOR AWARD Elisabeth Conradt, University of Utah Presenter: Mark Stanton EPIGENETIC PROCESSES IMPLICATED IN PRENATAL ORIGINS OF HEALTH
12:30-12:50	WHEN GIVING BECOMES RECEIVING: BENEFITS OF SCIENCE COMMUNICATION J.H. Kim	4:00-4:15	AFTERNOON BREAK
12:50-1:10	SOCIAL MEDIA FOR RESEARCH IMPACT I.C. Zbukvic*		
1:10-1:30	MAKING SENSE OF ANTISENSE: TRANSLATING COMPLEX IDEAS INTO SIMPLE TERMS A.K. Short*		

*bold denotes travel awardee

- 4:15-5:15 SYMPOSIUM: MEASUREMENT AND IMPLICATIONS OF PSYCHOPHYSIOLOGICAL AND PERCEIVED STRESS IN EARLY DEVELOPMENT**
Chair: Andrew Ribner
- 4:15-4:30 EARLY-LIFE STRESS INITIATES LATER-LIFE SOCIAL BEHAVIORAL DIFFICULTIES: EXPLORING THE NEUROBIOLOGICAL PATHWAY TO PATHOLOGY
R.E. Perry, S.H. Braren, G. Pollonini, M. Jia, C.M. Alberini, C.C. Raver, C. Blair, & R.M. Sullivan
- 4:30-4:45 SALIVARY ALPHA-AMYLASE AND SALIVARY CORTISOL PREDICT WORKING MEMORY PERFORMANCE IN TODDLERS RESIDING IN LOW-INCOME URBAN COMMUNITIES
E. Finegood, C. Blair, & C.C. Raver
- 4:45-5:00 PRENATAL CORTISOL PREDICTS MATERNAL SELF-EFFICACY FOR FIRST-TIME PARENTS IN THREE COUNTRIES
A. Ribner* & C. Blair
- 5:00-5:15 HAIR CORTISOL, PERCEIVED STRESS, AND BRAIN DEVELOPMENT
E.C. Merz, N.H. Brito, A. Leon-Santos, W.P. Tarsha, J. Meyer, & K.G. Noble

5:30-7:30 POSTER SESSION 1 (CASH BAR) – Monticello Ballroom and National Ballroom

1. INFANT MEMORY FOR A STRESSFUL SOCIAL EVENT AT 4-MONTHS: PHYSIOLOGICAL AND BEHAVIORAL CORRELATES
I. Mueller*, N. Snidman, J. DiCorcia, A. Sravish, E. Duffy, & E. Tronick
2. THREAT LEARNING VIA EMOTIONAL EAVESDROPPING IN THE TODDLER PERIOD
B.L. Callaghan, T. Choy, K. O'Sullivan, E. Routhier, N. Koutruba, V. Goode, T. Klein, & N. Tottenham
3. SEX DIFFERENCES IN RELAPSE FOLLOWING FEAR EXTINCTION IN JUVENILE RATS
C.H.J. Park*, D.E. Ganella, & J.H. Kim
4. ROLE OF DOPAMINE 1 AND DOPAMINE 2 RECEPTORS ACROSS ADOLESCENCE IN ADDICTION-RELATED BEHAVIOURS
E.R. Cullity*, H. Madsen, & J.H. Kim
5. THE ROLE OF EXPERIENCE IN GENDER DIFFERENCES IN SPATIAL APTITUDE
V. Vieites*, J. Limia, E. Green, N. Hoang, B. C. Reeb-Sutherland, & S.M. Pruden
6. NMDA RECEPTORS AND THE ONTOGENY OF POSTSHOCK AND RETENTION FREEZING FOLLOWING CONTEXTUAL FEAR CONDITIONING
L.A. Miller, N.A. Heroux, & M.E. Stanton
7. EVIDENCE OF NMDA-INDEPENDENT ACQUISITION OF CONTEXT MEMORY IN DEVELOPING RATS
P.A. Robinson-Drummer, V. Long, & M.E. Stanton

8. CONTEXT AND CONTEXTUAL FEAR MEMORY FORMATION DIFFERENTIALLY INDUCE EXPRESSION OF C-FOS, ARC, EGR-1, C-JUN, AND NPAS4 IN THE MEDIAL PREFRONTAL CORTEX OF ADOLESCENT RATS
N.A. Heroux, B.F. Osborne, M. Kawan, L.A. Miller, K.N. Buban, J.B. Rosen, & M.E. Stanton
9. DISTRACTOR SUPPRESSION AND MEMORY PERFORMANCE IN SCHOOL AGE CHILDREN
J. King, & J. Markant
10. THE DEVELOPMENT OF A NOVEL IMITATION GENERALIZATION TASK TO MEASURE COGNITIVE FLEXIBILITY IN THREE-YEAR-OLDS
T. Sawaf, J. Rocha Hidalgo, O. Blanchfield, M. Lui, N. Strautman, & R. Barr
11. THE DEVELOPING FRONTAL-PARIETAL NETWORK: SPATIAL IMITATION PERFORMANCE PREDICTS ACTIVATION IN YOUNG CHILDREN
S.N. Rusnak, A. Medvedev, F. Subiaul, & R. Barr
12. ELUCIDATING THE MECHANISMS OF FEAR EXTINCTION IN DEVELOPING ANIMALS: A SPECIAL CASE OF NMDAR-INDEPENDENT EXTINCTION IN ADOLESCENT RATS
M.A. Bisby*, K.D. Baker, & R. Richardson
13. DIFFERENCES BETWEEN JUVENILE AND ADULT FEAR MEMORY CAPABILITIES: THE ROLE OF IP3/MAP KINASE ACTIVATION AND TRAFFICKING OF GLUA2 INTO MATURE SPINES
S.D. Sanay*, R.M. Zanca, H.N. Shair, & P.A. Serrano
14. BEHAVIORAL EFFECTS OF COMBINED ALCOHOL AND CANNABINOID EXPOSURE DURING A MODEL OF LATE GESTATION IN RATS
K.R. Breit*, C. G. Rodriguez, & J. D. Thomas
15. IMPROVED FINE MOTOR SKILLS AND SCHOOL READINESS IN PRE-KINDERGARTENERS AFTER SUMMER TREATMENT PROGRAM
S.L. Gonzalez, M.E. Fajardo, K.C. Hart, & E.L. Nelson
16. PATTERNS OF REACHING IN INFANT RHESUS MONKEYS (MACACA MULATTA)
M.A. Taylor*, A.T. Seidler, E.A. Simpson, P.F. Ferrari, V. Sclafani, S.J. Suomi, G.D. Konidaris, & E.L. Nelson
17. THE RELATION BETWEEN UNIMANUAL MANIPULATIONS AND RDBMS DURING INFANCY
D. Pattanakul, W. Zakosek, J.M. Campbell, & G.F. Michel
18. CONSISTENCY OF HAND PREFERENCE DEVELOPMENT ACROSS CHILDHOOD
J.A. Latta, & G.F. Michel
19. DEVELOPMENTAL TRAJECTORIES FOR FULLY ROLE-DIFFERENTIATED BIMANUAL MANIPULATION IN INFANTS
N. Pavon*, M.A. Taylor, M.E. Fajardo, S. Coxe, G.F. Michel & E.L. Nelson

20. THE RELATION BETWEEN INFANT SUPINE HEAD ORIENTATION PREFERENCE AND ASYMMETRIES OF SELF-TOUCHING ACTIONS
K. Gehm, J.M. Campbell, D. Pattanakul, & G.F. Michel
21. THE IMPACT OF INCREASING SITTING ABILITY AND AGE IN DEVELOPING EARLY PROBLEM SOLVING SKILLS
G. Syed, T. Tripathi, E.C. Marcinowski, L.-Y. Hsu, N. Koziol & S. C. Dusing
22. CHANGES IN SITTING CONTROL AFFECT TOY EXPLORATION DURING INFANCY
E.C. Marcinowski, T. Tripathi, J. Stankus, H.-J. Chang, R. Harbourne, & S.C. Dusing
23. EPIGENETIC MECHANISMS OF SPINAL PLASTICITY IN EARLY DEVELOPMENT
T.S. Doherty, S.D. Kauer, A.L. Bozeman, T.L. Roth, & M.R. Brumley
24. MATERNALLY REGULATED PRENATAL LIGHT EXPOSURE EFFECTS SOCIAL MOTIVATION OF BOBWHITE QUAIL CHICKS
S.C. Belnap, & R. Lickliter
25. BOBWHITE QUAIL NEONATES CAN USE OLFACTORY CUES TO DIRECT SPATIAL EXPLORATION
C.D. Obrer*, S.C. Belnap, & R. Lickliter
26. EFFECTS OF ELEVATED PRENATAL TESTOSTERONE ON POSTNATAL AUDITORY LEARNING IN BOBWHITE QUAIL CHICKS
S.A. Bellinger, J. Cecili, D. Pulido, N.A. Jones, & R. Lickliter
27. SYNCHRONIZED MOTION INFLUENCES BOBWHITE QUAIL CHICKS' PREFERENCE FOR A ROBOTIC MATERNAL HEN
P. Velasquez*, S.C. Belnap, & R. Lickliter
28. MYOCLONIC TWITCHES DURING ACTIVE SLEEP DRIVE COORDINATED ACTIVITY IN THE NEWBORN RAT CORTICO-HIPPOCAMPAL NETWORK
C. Del Rio-Bermudez*, J. Kim., G. Sokoloff., M.S. Blumberg
29. SELF-MONITORING OF MYOCLONIC TWITCHES BY THE INFERIOR OLIVE AND LATERAL RETICULAR NUCLEUS: EVIDENCE OF COROLLARY DISCHARGE
D. Mukherjee*, G. Sokoloff, & M.S. Blumberg
30. STATE-DEPENDENT OSCILLATORY ACTIVITY IN THE PONTINE GREY OF NEONATAL RATS
L.J. Gomez*, C. Del Rio-Bermudez, G. Sokoloff, & M. S. Blumberg
31. PROSPECTIVE ASSOCIATIONS BETWEEN SLEEP, POST-TRAUMATIC STRESS, AND PSYCHOSOCIAL HEALTH OUTCOMES IN CHILDREN WITH TRAUMATIC BRAIN INJURY
B.L. Reidy*, R.M. LeBrocq, & J.A. Kenardy
32. INFANT SLEEP ONSET TIME AND COSLEEPING: ASSOCIATIONS WITH INFANT AND PARENT CHRONIC PHYSIOLOGICAL STRESS
C.T. Tuladhar*, J.S. Meyer, & A.R. Tarullo
33. THE EFFECT OF FETAL SLEEP STATE AND SEX ON AUTONOMIC FUNCTION
J. Zavala, A. Perez, L. Ecklund-Flores, M. M. Myers, & W.P. Fifer
34. MATURATIONAL EFFECTS ON SLEEP/WAKE PATTERNS IN INFANTS RECEIVING AN INFANT FORMULA WITH A PREBIOTIC BLEND
J. Colombo, S.E. Carlson, C. Algarn, S. Reyes, P. Peirano, & C. Berseth
35. SUBCLINICAL NEWBORN METABOLITE LEVELS PREDICT NEURODEVELOPMENTAL SYMPTOMATOLOGY
B. McKenna, T. Koomar, & J. Michaelson
36. THE IMPACT OF PHTHALATE EXPOSURE DURING THE PERINATAL PERIOD ON THE NUMBER OF SYNAPSES IN THE MEDIAL PREFRONTAL CORTEX
E.P. Sellinger*, D.G. Kougias, & J.M. Juraska
37. EVOLUTION OF ODOR MIXTURE PERCEPTION FROM BIRTH TO WEANING IN THE RABBIT
G. Coureaud, T. Thomas-Danguin, & S. Romagny
38. SNIFFING RESPONSE TO THE MAMMARY PHEROMONE IN RABBIT PUPS AT DIFFERENT DEVELOPMENTAL AGES
A-M. Mouly, & G. Coureaud
39. EMBRYONIC ETHANOL EXPOSURE IMPAIRS PAVLOVIAN CONDITIONING IN THE ZEBRAFISH IN A TIME-DEPENDENT MANNER
P.S. Hunt, W. Chen, R. Patel, & M. Serody
40. PRENATAL ALCOHOL EXPOSURE: EFFECTS OF OXYTOCIN ADMINISTRATION ON NEUROGENIC, ENDOCRINE, AND BEHAVIORAL OUTCOMES
S.L. Baglot*, C. Fung, P. Ubi, E. Morgan, S.E. Lieblich, W. Yu, J. Weinberg, & L.A.M. Galea
41. GUINEA PIG PUP ACCEPTANCE OF A NOVEL FOOD AFTER PRENATAL EXPOSURE TO MATERNAL HYPERTHERMIA
T.J. Bishop, B. Bailey, Y. Argumedo, K. Henshaw, T. Austin, & G.A. Kleven
42. ONTOGENY OF INDIVIDUAL DIFFERENCES IN BEHAVIOR IN THE DOMESTIC RABBIT: THE ROLE OF PRENATAL AND EARLY POSTNATAL LIFE
J.A. Zepeda, A. Bautista, V. Reyes-Meza, M. Martinez Gomez, & R. Hudson
43. MILD MATERNAL HYPERTHERMIA DURING MID-GESTATION CAUSES BOTH FETAL AND JUVENILE BEHAVIORAL DEFICITS IN GUINEA PIGS
Y. Argumedo, K. Henshaw, B. Bailey, T. J. Bishop, T. Austin, & G.A. Kleven
44. BEHAVIORAL AND WEIGHT EFFECTS OF PERINATAL EXPOSURE TO PHTHALATES AND A HIGH-FAT DIET IN MALE AND FEMALE RATS
D.G. Kougias*, L.R. Cortes, S.G. Rhoads, & J.M. Juraska
45. A ROLE FOR VISUAL EXPERIENCE IN ACTIVITY-DEPENDENT DEVELOPMENT PRIOR TO EYE-OPENING
A. Tiriach, B. , & M.B. Feller
46. THE AMYGDALA AS A BIOLOGICAL LINK BETWEEN ADVERSITY AND ANXIETY
J.A. Silvers, B. Goff, L.J. Gabard-Durnam, D.G. Gee, D.S. Fareri, C. Caldera, & N. Tottenham

47. BEHAVIORAL INHIBITION AND ANXIETY IN RELATION TO DELTA-BETA COUPLING: POTENTIAL EFFECTS OF AN ABM INTERVENTION
B. Anaya*, N. Thai, L. A. MacNeill, P. Galinsky, S. Morales, & K. Pérez-Edgar
48. BRAIN-BEHAVIOR ASSOCIATIONS DURING COGNITIVE FLEXIBILITY PERFORMANCE
V. Rajan, & M.A. Bell
49. INDIVIDUAL DIFFERENCES IN SELF-REPORTED ATTENTIONAL CONTROL MODERATES THE RELATION BETWEEN ERROR MONITORING AND ANXIETY IN CHILDREN AND ADOLESCENTS
M.L. Ramos, M. Bechor, J.W. Pettit, W.K. Silverman, & B.C. Reeb-Sutherland
50. NEURAL CORRELATES OF ATTENTION TRAINING IN YOUTH WITH ANXIETY DISORDERS
M. Bechor, M. Ramos, W.K. Silverman, M.J. Crowley, J.W. Pettit, & B.C. Reeb-Sutherland
51. TRAINING EFFECTS OF ATTENTION BIAS MODIFICATION ON ERROR-RELATED NEGATIVITY IN YOUTH WITH ANXIETY
C. Clifford*, M. Ramos, M. Bechor, W.K. Silverman, J.W. Pettit, & B.C. Reeb-Sutherland
52. THE ERROR-RELATED NEGATIVITY MEDIATES LONGITUDINAL RELATIONS BETWEEN BEHAVIORAL INHIBITION AND OBSERVED SOCIAL ANXIETY
G.A. Buzzell, A. Forman-Alberti, S.V. Troller-Renfree, T.V. Barker, L.C. Bowman, D.S. Pine, H.A. Henderson, & N.A. Fox
53. INTERSENSORY REDUNDANCY AND INFANT SELECTIVE ATTENTION TO NATIVE AND NON-NATIVE AUDIOVISUAL SPEECH
K.C. Roth*, A.L. Stumpe, C. Berosh, L. Dukes, E. Grimes, M. Stover, K. Connor, E. Manning, & G.D. Reynolds
54. RELATION OF EMOTION REGULATION TO NEURAL INDICES OF INHIBITORY CONTROL IN EARLY CHILDHOOD
A. St. John*, B. Ozahtaci, & A. Tarullo
55. EFFECT OF PARENTAL SMOKING BEHAVIOR ON PRE-ADOLESCENTS ATTENTIONAL BIAS TO SMOKING-RELATED CUES
C.A. Forestell, C.L. Dickter, & S.C. Volz
56. NEURAL ACTIVITY IN RESPONSE TO ANXIETY IN LACTATING DAMS AND VIRGIN MICE IN BRAIN AREAS ASSOCIATED WITH ANXIETY CONTROL
J. Lopez* & K. D'Anna-Hernandez
57. PREADOLESCENT OXYTOCIN ADMINISTRATION TO AMELIORATE EFFECTS OF MATERNAL CORTICOSTERONE AND SSRI EXPOSURE ON MALE AND FEMALE OFFSPRING
W. Qiu, K. Go, L. Casanueva, S.E. Lieblich, P. Duarte-Guterman, A. R. Gobinath, R. Mahmoud, & L.A.M. Galea
58. NEURAL AND BEHAVIORAL CORRELATES OF CHILDREN'S ATTENTION BIAS TO REWARD AND SOCIAL ADJUSTMENT: EXAMINING THE ROLE OF PARENTING
L. MacNeill*, A. Vallorani, S. Morales, B. Taber-Thomas, & K. Pérez-Edgar
59. EFFECT OF EARLY-LIFE ADVERSITY ON IMMUNE SYSTEM FUNCTION IN ANIMALS PRENATALLY EXPOSED TO ALCOHOL: IMPLICATIONS FOR MENTAL HEALTH
C. Raineki, T. S. Bodnar, P. J. Holman, S. L. Baglot, N. Lan, & J. Weinberg
60. BEHAVIORAL EFFECTS OF PRENATAL EXPOSURE TO SERTRALINE, AN SSRI ANTIDEPRESSANT, AND ITS DISCONTINUATION IN THE OFFSPRING IN AN ANIMAL MODEL OF DEPRESSION
J.M. Kott, S.M. Mooney-Leber, K. Bardia, J.M. Young, & S. Brummelte
61. THE RELATION BETWEEN EXECUTIVE FUNCTIONING AND LETHALITY OF SUICIDE ATTEMPTS AMONG ADOLESCENTS
R. Kandlur, L.A. Alba, & C.B. Cha
62. SHYNESS, CORTISOL, AND QUALITY OF LIFE AMONG ADULTS WITH SCHIZOPHRENIA
Z. Khalesi*, M.K. Jetha, K.L. Poole, J.O. Goldberg, R.J. Van Lieshout, & L.A. Schmidt
63. ATTENTION SHIFTING IN YOUNG CHILDREN WITH FRAGILE X SYNDROME
M. Chernenok, J. Burris, R. Sims, E. Owen, & S.M. Rivera
64. DELAY EYEBLINK CONDITIONING IN PRESCHOOL CHILDREN WITH AUTISM SPECTRUM DISORDER
J. Pinkney*, V. Vieites, L. Mcdowell, A. Gutierrez, & B.C. Reeb-Sutherland
65. THREAT-BASED STRESS, BLUNTED CORTISOL RESPONSE, AND EXTERNALIZING BEHAVIOR IN ADOLESCENTS
A.L. Brown*, P.B. Cunningham, S.L. Foster, & P.A. Brennan
66. BLUNTED DIURNAL CORTISOL AND AGGRESSIVE BEHAVIOR IN INFANCY
A. Frost*, M. Rodriguez, S. Imrisek, A. Dash, & K. Bernard
67. CALLOUSNESS AND PHYSIOLOGICAL INDICATORS OF EMOTION REGULATION MEDIATE THE RELATIONSHIP BETWEEN EARLY LIFE STRESS AND AGGRESSION
D.A. Winiarski, M.L. Engel, & P.A. Brennan
68. SOMATIC COMPLAINTS IN YOUNG CHILDREN: RELATIONSHIPS WITH CORTISOL, INTERNALIZING PROBLEMS, AND MATERNAL ANXIETY DISORDERS
M.L. Engel, D. A. Winiarski, B. L. Reidy, & P.A. Brennan
69. EARLY CARE EXPERIENCES AND ADULT PSYCHOPATHOLOGY: AN INVESTIGATION OF ADULT ATTACHMENT AND HISTORY OF EARLY CARE EXPERIENCES AS PREDICTORS OF ADULT PSYCHOPATHOLOGICAL CONDITIONS ACROSS CULTURES
M.S. Tarsha*, S. Park, P. Sterkenburg, M. Kudo, & T. Salmon
70. EARLY BRAIN CONNECTIVITY IN INFANTS AT FAMILIAL RISK FOR DEPRESSION
C.L. Hendrix*, R. Yuan, B. Biswal, M. Cohen, E.L. Smearman, B.L. Reidy, P.A. Brennan, J. Knight-Scott, & K.C. Johnson

71. CAN CHILDREN WITH SELECTIVE MUTISM EFFICIENTLY IDENTIFY EMOTIONS?: AN EYETRACKING STUDY UTILIZING NIMSTIMS
E.I. Bravo*, C. Del Busto, L. Feinberg, N. Hong, J. Furr, & S.M. Pruden
72. ASSOCIATION BETWEEN 5-HTTLPR AND BEHAVIORAL APPROACH SENSITIVITY (BAS)
A.Saito & H.Tada
73. EFFECTS OF EARLY LIFE STRESS ON EARLY BEHAVIORAL AND NEURONAL DEVELOPMENT
G. Manzano-Nieves, A. Johnsen, M. Bravo, & K.G. Bath
74. EARLIER AND ATYPICAL STRUCTURAL CONNECTIVITY FOLLOWING EARLY CAREGIVER DEPRIVATION
C.M. Harmon*, L. Gabard-Durnam, D.G. Gee, B. Goff, D.S. Fareri, C. Caldera, J. Flannery, E.H. Telzer, K.L. Humphreys, & N. Tottenham
75. EARLY SOCIAL DEPRIVATION AND THE DIURNAL CORTISOL REGULATION OF CHILDREN ADOPTED INTERNATIONALLY
K.L. Raby, K. Bernard, C.E. DePasquale, J.R. Hoye, & M. Dozier
76. CPS-REFERRED MOTHERS' PSYCHOPHYSIOLOGICAL RESPONSES TO OWN VERSUS OTHER CHILD PREDICT SENSITIVITY TO CHILD DISTRESS
S. Kuzava*, K. Bernard, R. Simons, & M. Dozier
77. DIMENSIONS OF ADVERSITY IN RESTING STATE FUNCTIONAL CONNECTIVITY OF THE AMYGDALA AND HIPPOCAMPUS
T.W. Cheng*, K.L. Mills, J.C. Flournoy, J.E. Flannery, S. Peake, A. Mobasser, P. Fisher, & J.H. Pfeifer
78. CHILDHOOD STRESS EXPOSURES AND INTERLEUKIN-6: A LONGITUDINAL ANALYSIS
A.I. Vallejo Sefair, T.G. OConnor, A.S. Burke, J.A Moynihan, J. Carnahan, & M.T. Casert
79. ADVERSE CHILDHOOD EXPERIENCES AND PHYSIOLOGICAL RESPONDING TO STRESS IN YOUNG ADULTS
G. Suarez, M.M. Myers, N.A. Fox, & A. Hane
80. EMOTIONAL CONNECTION IN MOTHERS AND PRETERM INFANTS AND INFANT BIOBEHAVIORAL RESPONDING TO THE STILL-FACE PARADIGM
M. Mitsuyama, S. Wieman, J.N. LaCoursiere, M.M. Myers, R.J. Ludwig, A.A. Hane, & M.G. Welch
81. MATERNAL ELECTROCORTICAL RESPONSES TO OWN VERSUS OTHER CHILD PICTURES AND CHILD INTERNALIZING SYMPTOMS
L.A. Szenczy, A. Levinson, G. Hajcak, & K. Bernard
82. EXPOSURE TO TRAUMATIC EVENTS IN CHILDHOOD SHAPES STRESS PHYSIOLOGY DURING PREGNANCY: IMPLICATIONS FOR THE INTERGENERATIONAL TRANSMISSION OF RISK
D.A. Swales*, S. Stout, L.M. Glynn, C.A. Sandman, D.A. Wing, & E.P. Davis

83. PHYSIOLOGICAL WAKE-UP CALL IN POST-INSTITUTIONALIZED ADOLESCENTS' DIFFERENCES IN THE CAR FOR EARLY- VERSUS LATE-ADOPTED CHILDREN
K.B. Leneman*, M.R. Gunnar, C. Desjardins, & B. Donzella

Friday, November 10

- 7:30-8:00** **CONTINENTAL BREAKFAST**
- 8:00-9:00** **NSF/NIH GRANT FUNDING OPPORTUNITIES**
- 8:00-8:30 FUNDING OPPORTUNITIES FOR RESEARCH IN THE DEVELOPMENTAL SCIENCES
C. Bryant & D.S. Moore
- 8:30-9:00 WHAT YOU NEED TO KNOW ABOUT NIH FUNDING FOR RESEARCH WITH HUMANS: TRAINING AND RESEARCH GRANTS
K. Mann Koepke & L. Freund
- 9:00-10:00** **SYMPOSIUM: GROWING MINDS AND MICROBES**
Chair: Bridget Callaghan
- 9:00-9:15 PERINATAL ANTIBIOTIC EXPOSURE: IMPLICATIONS FOR NEUROBEHAVIORAL DEVELOPMENT IN PRETERM INFANTS
M. Firestein*
- 9:15-9:30 ASSOCIATIONS BETWEEN THE GUT MICROBIOME, COGNITIVE PERFORMANCE, AND NEUROIMAGING PHENOTYPES IN TYPICALLY DEVELOPING HUMAN INFANTS
R. Knickermeier
- 9:30-9:45 CAREGIVER SEPARATION AND CHILDHOOD DEPRESSION: PREDICTORS OF CHILD GUT BACTERIA
J. Flannery*
- 9:45-10:00 BRAIN CORRELATES OF DOMINANT BACTERIA ACROSS DEVELOPMENT: A PROOF OF CONCEPT STUDY IN TYPICALLY DEVELOPING AND ADVERSITY EXPOSED CHILDREN
B.L. Callaghan*
- 10:00-10:15** **AWARDS PRESENTATIONS**
- 10:00-10:05 **FABBS EARLY CAREER IMPACT AWARD**
Bethany Reeb-Sutherland, Florida International University
Presenter: Nathan Fox
- 10:05-10:10 **CAROLYN ROVEE-COLLIER MENTOR AWARD**
George Michel, University of North Carolina Greensboro
Presenters: Julie Campbell, Eliza Nelson, & Emily Marcinowski
- 10:10-10:15 **WILEY BEST STUDENT PAPER AWARD**
Presenters: Michele Brumley & Michael Hennessey
- 10:15-11:00** **BUSINESS MEETING (all are invited)**
- 11:00-11:15** **MID-MORNING BREAK**

11:15-12:15	JOHN WILEY DISTINGUISHED SPEAKER Kimberly Noble, Columbia University Chair: Nathan Fox SOCIOECONOMIC INEQUALITY AND CHILDREN'S COGNITIVE AND BRAIN DEVELOPMENT	3:45-4:00	SOCIAL ANXIETY AND NEURAL RESPONSES TO SOCIAL FEEDBACK AND EXCLUSION IN ADOLESCENCE M.J. Crowley, C.J. Willner, S. J. R. van Noordt, B.C. Banz, J. Wu, & Z.R. Brown
12:15-2:00	LUNCH BREAK	4:00-4:15	THE JOINT PATTERNS OF MOTHERS' AND INFANTS' RSA DURING THE STILL-FACE PARADIGM IN RELATION J. Qu & E.M.Leerkes
12:15-2:00	WILEY EDITORIAL BOARD MEETING (invitation only) – East Ballroom	4:15-4:30	THE INTERACTION OF RESPONSE INHIBITION AND VICTIMIZATION IN THE EMERGENCE OF AGGRESSIVE BEHAVIORS DURING ADOLESCENCE H. Edalati*, M.H. Afzali, J. Bourque, & P. Conrod
1:00-2:00	JUNIOR INVESTIGATOR LUNCH WORKSHOP: GRANT WRITING 101: THE BASICS OF WRITING A SUCCESSFUL APPLICATION – National Ballroom K. Mann Koepke & L. Freund	4:30-4:45	AFTERNOON BREAK
2:00-3:00	SYMPOSIUM: NEVERTHELESS, SHE PERSISTED: SUCCESSFUL FEMALE POST-DOCS EXPLORE THE CONSEQUENCES OF EARLY-LIFE ADVERSITY IN MALES AND FEMALES Chairs & Discussants: Susanne Brummelte & Rachel Barr	4:45-5:45	SYMPOSIUM: REVISITING NEONATAL IMITATION: NEW THEORETICAL AND EMPIRICAL INPUT FROM STUDIES ON HUMAN AND NON-HUMAN INFANTS Chairs: Mikael Heimann & Lynne Murray
2:00-2:15	MATERNAL SEPARATION AND PRECOCIAL MATURATION: SEX-SPECIFIC CHANGES IN LIMBIC-DERIVED AXONAL INNERVATION OF THE PREFRONTAL CORTEX J.A. Honeycutt*	4:45-5:00	TESTING THE AROUSAL HYPOTHESIS OF NEONATAL IMITATION IN INFANT RHESUS MACAQUES (MACACA MULATTA) E.A. Simpson, E.J. Pedersen, & A. Paukner
2:15-2:30	TWO-HIT MODEL OF PRENATAL ALCOHOL EXPOSURE AND EARLY-LIFE ADVERSITY: IMPACT ON IMMUNE FUNCTION T. Bodnar*	5:00-5:15	THE COMMUNICATIVE FUNCTION OF NEONATAL IMITATION IN CHIMPANZEES (PAN TROGLODYTES) K. Bard
2:30-2:45	PTSD SYMPTOMS AND CHRONIC PAIN IN YOUTH: SHARED NEUROBIOLOGY AS A MUTUALLY MAINTAINING MECHANISM J. Vinall*	5:15-5:30	NEONATAL IMITATION REVISITED: A GENERAL RESPONSE, ADAPTIVE ENGAGEMENT E. Nagy
2:45-3:00	HIGH STRESS IN PREGNANT MOTHERS IS ASSOCIATED WITH REDUCED GLOBAL BRAIN EFFICIENCY IN THE FETUS M.I. van den Heuvel	5:30-5:45	IMITATION OF FACIAL GESTURES AT BIRTH – NOW WE SEE IT, NOW WE DON'T M. Heimann & T. Tjus
3:00-4:30	ORAL SESSION 3: SOCIAL DEVELOPMENT Chair: Kevin Bath	5:45-7:45	POSTER SESSION 2 (CASH BAR) – Monticello Ballroom and National Ballroom
3:00-3:15	FRIENDS GIVE BENEFITS: AUTUMN SOCIAL FAMILIARITY PREFERECNES PREDICT REPRODUCTIVE OUTPUT G.M. Kohn	1.	FUNDING OPPORTUNITIES FOR RESEARCH IN THE DEVELOPMENTAL SCIENCES D.S. Moore & C. Bryant
3:15-3:30	YOUNG CHILDREN'S AFFECTIVE AND PSYCHOPHYSIOLOGICAL RESPONSES TO ACCEPTANCE AND REJECTION K. Pérez-Edgar, S. Morales, L. MacNeill, & A. Vallorani	2.	<i>EUNICE KENNEDY SHRIVER</i> NATIONAL INSTITUTE FOR CHILD HEALTH AND HUMAN DEVELOPMENT - CHILD DEVELOPMENT AND BEHAVIOR BRANCH - RESEARCH PRIORITIES AND CONTACTS K. Mann Koepke & L. Freund
3:30-3:45	EARLY BIPARENTAL CARE IMPACTS EPIGENETIC REGULATION OF THE OXYTOCIN RECEPTOR GENE IN A SOCIALLY MONOGAMOUS RODENT A.M. Perkeybile* , K.L. Wroblewski, W.M. Kenkel, T.S. Lillard, C.S. Carter, K.L. Bales, & J.J. Connelly	3.	FATHERHOOD ALTERS GENE EXPRESSION WITHIN THE MPOA A.M.H. Seelke, J.M. Bond, D Stolzenberg, M Rhemtulla, & K.L. Bales
		4.	PHARMACOLOGICAL INHIBITION OF STRESS-INDUCED EPIGENETIC TRACES T.S. Doherty, J.R. Chajes, & T.L. Roth

*bold denotes travel awardee

5. SEX DIFFERENCES IN PUP CAREGIVING IN A RODENT MODEL OF SCARCITY-ADVERSITY WITH MALTREATMENT
S.M. Keller*, A. Nowak, & T.L. Roth
6. THE EFFECTS OF POSTNATAL CLOMIPRAMINE ON THE DEVELOPMENT OF OBSESSIVE COMPULSIVE DISORDER: A TWO-GENERATIONAL EPIGENETIC MODEL IN LABORATORY RATS
N.H. Shah, A. Crossman, H. Cabuhay, & C.M. Ragan
7. DEVELOPMENTAL CONSEQUENCES OF COMMON BIRTH INTERVENTIONS IN PRAIRIE VOLES
W.M. Kenkel, A.M. Perkeybile, J.R. Yee, C.S. Carter, & J.J. Connelly
8. GENETIC VARIANTS FOR OXYTOCIN AND OXYTOCIN RECEPTOR GENES INCREASE RISK OF DEPRESSIVE SYMPTOMS IN PREGNANT WOMEN
D.E. Olazbal, A.S. Fleming, B. Bertoni, G. Grandi, D. Musetti, G. Rey, N. Sandberg, L. Fernandez, G. Laporte, F. Medici & E. Nicolaisen
9. EFFECTS OF CORTICOSTERONE ADMINISTRATION ON CONTEXTUAL FEAR CONDITIONING USING PERI-ORBITAL SHOCK
A.E. Schmidt, M.N. Milhem, N.A. Koraym, M.B. Hennessy, & D.I. Clafin
10. SOCIAL BUFFERING REDUCES PLASMA CORTICOSTERONE LEVELS AND AMYGDALA ACTIVITY FOLLOWING STRESS EXPOSURE IN JUVENILE RATS
A.M. Costello*, A.A. Koraym, A.P. Shoemaker, D. M. Gallimore, M.B. Hennessy, & D.I. Clafin
11. EFFECTS OF CHRONIC ORAL CORTICOSTERONE EXPOSURE ON FOOD AND WATER INTAKE IN ADOLESCENT AND ADULT MALE AND FEMALE MICE
M.R. Baker, R. Sultana, & R.D. Romeo
12. EFFECTS OF CHRONIC CORTICOSTERONE EXPOSURE ON NEUROENDOCRINE FUNCTION OF ADOLESCENT AND ADULT MALE MICE
R. Sultana, Z. Shahanoor, M.R. Baker, & R. D. Romeo
13. GENES, ENVIRONMENT, AND EARLY LIFE STRESS: LIFE SPAN EFFECTS
H.N. Shair, A.J. Feifel, & C. Schmauss
14. ORCHIDS AND DANDELIONS: BDNF AS A MODERATOR OF ACCELERATED NEUROBEHAVIORAL DEVELOPMENT FOLLOWING EARLY LIFE STRESS
K.G. Bath, K. Hajderovic, A. Johnsen, M. Bravo, & G. Manzano-Nieves
15. BINGE EATING IN ADOLESCENT AND ADULT RATS: RISK FACTORS, CO-MORBIDITY AND BIOLOGICAL MECHANISMS
L. Bekker, R. Barnea, L. Moshe, G. Yadid, T. Kisiouk, N. Meiri, & A. Weller
16. EFFECTS OF SUBDIAPHRAGMATIC VAGOTOMY ON MATERNALLY POTENTIATED VOCALIZATIONS IN RAT PUPS
J. Kaidbey, M. Anwar, L. Rosko, M. Ranger, M. Myers, R. Ludwig, & M.G. Welch
17. IMPACT OF NEST QUALITY ON DAM-LITTER INTERACTIONS IN LONG-EVANS RATS AND DEVELOPMENT OF CENTRAL OXYTOCIN SYSTEMS
H.E. Lapp, A.A. Bartlett, A.R. Bartlett, & C.L. Moore
18. MATERNAL CONTRIBUTIONS TO MOTHER-CHILD PHYSIOLOGICAL ATTUNEMENT IN LOW-INCOME LATINO/A DYADS
S.H. Braren* & C. Blair
19. MEASURING STRESS REACTIVITY IN THE FIELD: DEVELOPING A HOME-BASED TSST AMONG A HIGH POVERTY SAMPLE OF ADOLESCENTS
M.L. DeJoseph, E.D. Finegood, C.B. Blair, C.C. Raver, & The Family Life Project Key Investigators
20. CORTISOL MODERATES THE ASSOCIATION BETWEEN CUMULATIVE EXPOSURE TO POVERTY AND ADJUSTMENT PROBLEMS IN PRESCHOOL
M.L. DeJoseph, E.D. Finegood, C.C. Raver, C.B. Blair, & The Family Life Project Key Investigators
21. FAMILY STRESS, HAIR CORTISOL, AND CHILDREN'S AMYGDALA AND HIPPOCAMPAL VOLUMES
E.C. Merz, E.A. Maskus, X. He, J. Meyer, S. Melvin, & K.G. Noble
22. SOCIOECONOMIC AND ENVIRONMENTAL CORRELATES OF INFANT HAIR CORTISOL
U. Kaytanli, C. Tuladhar, J. Meyer, & A.R. Tarullo
23. THE ASSOCIATION BETWEEN PARENT AND CHILDREN'S CHRONIC PHYSIOLOGICAL STRESS: THE MODERATING ROLE OF EMOTION REGULATION
K.Kao, J.S. Meyer, & A.R. Tarullo
24. LONG-TERM BIOBEHAVIORAL OUTCOMES FOLLOWING REDUCED MATERNAL CARE AND NEONATAL PAIN
S.M. Mooney-Leber, J. Young, & S. Brummelte
25. THE ROLE OF MATERNAL NURTURANCE AND SYNCHRONY IN THE ASSOCIATION BETWEEN CHILDHOOD ADVERSITY AND CHILD DIURNAL CORTISOL
L. Perrone*, G. Nissim, M. Dozier, & K. Bernard
26. PARENTING PLAY: DOES RESTRICTIVE CHILDREARING AFFECT INFANT PLAY WITH OBJECTS?
J.L. Schneider, Y.A. Kuchirko, L.B. Karasik, C.S. Tamis-LeMonda, & K.E. Adolph
27. ADOLESCENT'S FAMILY ASSISTANCE AND DIURNAL CORTISOL
E. Armstrong-Carter, K.A. Muscatell, L. Lin, S. Ivory & E.H. Telzer
28. MATERNAL ABUSE FROM CHILDHOOD INTERACTS WITH POST TRAUMATIC STRESS DISORDER TO PREDICT CORTISOL ATTUNEMENT
C.L. Hendrix*, M. Cohen, Z.N. Stowe, D.J. Newport, & P.A. Brennan
29. DIFFERENTIAL SUSCEPTIBILITY TO WEIGHT GAIN IN INFANCY
L.J. Luecken, J.A. Somers, & D.P. MacKinnon

30. FAMILY NURTURE INTERVENTION FOR PRETERM INFANTS IN THE NICU INCREASES VAGAL TONE AT 5 YEARS OF AGE
A. Surman, M.M. Myers, J.L. Barone, M.R. Firestein, & M.G. Welch
31. CAN HIGH QUALITY MATERNAL CARE AMELIORATE THE EFFECT OF PRENATAL MATERNAL DISTRESS?
L.A. Grande, C.A. Sandman, L.M. Glynn, & E.P. Davis
32. FRAGMENTED MATERNAL SENSORY SIGNALS PREDICT LOW EFFORTFUL CONTROL IN CHILDHOOD
L.A. Grande, A.A. Morgan, B.G. Vegetabile, H.S. Stern, L.M. Glynn, C.A. Sandman, & E.P. Davis
33. PRENATAL EXPOSURE TO MATERNAL ACCULTURATIVE STRESS, SOCIAL SUPPORT, AND ACUTE INFANT HPA ACTIVITY IN INFANTS OF MEXICAN DESCENT
J. Lobos*, K. D'Anna-Hernandez
34. PRENATAL SOCIAL SUPPORT, ACCULTURATIVE STRESS, HAIR CORTISOL, AND MATERNAL MENTAL HEALTH SYMPTOMS IN MEXICAN-AMERICAN WOMEN
D. Sanchez*, K. D'anna-Hernandez
35. LATERAL LEMNISCUS DEVELOPMENT AND ITS RELATION TO RECEPTIVE VOCABULARY
D. Garic*, H. Zetina, and A.S. Dick
36. INFANT CRY ACOUSTIC FEATURES: AN EARLY WINDOW INTO PHYSIOLOGICAL CONSTRAINTS ON EMERGING LANGUAGE DEVELOPMENT?
J. Kolacz*, G.F. Lewis, J.- L. Garipy, & S.W. Porges
37. NEURAL CORRELATES OF LINKING COMMUNICATIVE SIGNALS AND COGNITION IN 6-MONTH-OLDS
D.R. Perszyk, S.R. Waxman, & J.L. Voss
38. FNIRS IN TODDLERS: NEURAL DIFFERENTIATION OF COMMUNICATIVE CUES AND RELATION TO FUTURE LANGUAGE ABILITIES
E. Smith, A. Thurm, A. Gandjbakche, & E. Redcay
39. VAGAL REGULATION IN INFANCY AND THE DEVELOPMENT OF LANGUAGE: IMPLICATIONS FOR EXECUTIVE FUNCTION AND EMOTION REGULATION IN CHILDHOOD
M. Whedon, N.B. Perry, S.D. Calkins, & M.A. Bell
40. EFFECT OF AUTISM SEVERITY ON NEURAL SUBSTRATES OF LANGUAGE APTITUDE
C. Chen*, J. Van Horn, & GENDAAR Consortium
41. PROGRESSION OF SUSTAINED ATTENTION DEFICITS IN THE HIV-1 TRANSGENIC RAT
K.A. McLaurin*, R.M. Booze, & C.F. Mactutus
42. THE DIFFERENTIAL OUTCOMES EFFECT IN ADULTS AND YOUNG CHILDREN USING AN EYE-TRACKING PARADIGM
A. Moser, A. Olsen, C. Sendek, G. Taylor, & P. Gerhardstein
43. EMERGING SENSORIMOTOR NEURAL RHYTHMS IN 6- TO 9-WEEK-OLD INFANTS
K. Cuevas & L.J. Bryant
44. DEVELOPMENT OF SPONTANEOUS EYE BLINKING FROM INFANCY TO EARLY CHILDHOOD
L.F. Bacher, R. Walsh, A.L. Gonzalez & M.A. Bell
45. EMOTIONALLY GAZE-CUED OBJECT PROCESSING IN TYPICALLY AND ATYPICALLY DEVELOPING CHILDREN
J.L. Burris*, R.A. Barry-Anwar, T.R. Bussey, & S.M. Rivera
46. DOES LOCATION MATTER? AN INVESTIGATION OF ATTENTIONAL BIAS TO AFFECTIVE FACIAL EXPRESSIONS IN INFANCY
R.N. Sims, J.L. Burris, & S.M. Rivera
47. THE ROLE OF DIVERSITY IN CHILDREN'S RECOGNITION OF NEWLY LEARNED BLACK, LATINO, AND WHITE CHILD FACES
C.A. Best, P.A. Cordova, A.R. Crouse, & T.G. Williams
48. FAILURE TO REPLICATE THE PREDICTION OF ATTENTION PROBLEMS AT 8 YEARS FROM MOVEMENT-GAZE COUPLING AT 3 MONTHS
S.S. Robertson
49. NEONATAL EEG PREDICTS SOCIO-EMOTIONAL AND BEHAVIORAL OUTCOMES IN TODDLERS
C. Rodriguez, N. H. Brito, A. J. Elliot, E. Holahan, J.S. Yang, M. Shairr, & W.P. Fifer
50. THE ROLE OF EARLY MATURING PATHWAYS IN SOCIO-COGNITIVE COMPETENCE: THE CASE OF NEONATAL BRAINSTEM DYSFUNCTION
R. Geva
51. REWARD PROCESSING UNDER UNCERTAINTY: EEG INDICES FROM YOUNG CHILDREN AND PARENTS DURING COOPERATIVE SOCIAL INTERACTION
J.A. Adrian*, K. Jenson, A. Li, S. Makeig, & G.O. Deak
52. MOTHER-CHILD FRONTAL EEG SYNCHRONY DURING INTERACTION TASKS
M.A. Bell, R.A. Ashley, Y. Zhou, A. Scarpa, J.C. Dunsmore, & C.L. Smith
53. CURVILINEAR ASSOCIATIONS BETWEEN SOCIAL FEAR AT AGE 3 AND HAIR CORTISOL AT AGE 5
M. Flom*, A.R. Tarullo, J.S. Meyer, & K.J. Saudino
54. DYSREGULATED FEAR TEMPERAMENT PROFILE IS LINKED TO ELEVATED CORTISOL REACTIVITY: THE IMPACT OF MATERNAL PERSONALITY AND SOCIAL WITHDRAWAL
X. Fu, A. Vallorani, E.J. Kiel, E.L. Davis, & K.A. Buss
55. REGULATING RESPONSES TO SOCIAL AND APPETITIVE REWARDS ACROSS DEVELOPMENT
D. Goldman, C. Helion, & K. Ochsner
56. EARLY-LIFE ADVERSITY AND PRENATAL ALCOHOL EXPOSURE ALTER ADOLESCENT SOCIAL BEHAVIOR DEVELOPMENT AND OXYTOCIN RECEPTOR BINDING
P.J. Holman*, L. Ellis, C. Rainecki & J. Weinberg

57. MODULATION OF SOCIAL AND EMOTIONAL PHENOTYPES BY AMBIENT TEMPERATURE IN OXYTOCIN 'KNOCKOUT' MICE
C. Harshaw, J. Leffel, & J.R. Alberts
58. INTERSENSORY PROCESSING IN 12 MONTH OLDS IS RELATED TO SHARED GAZE TO TOYS
M.E. McNew*, L.E. Bahrack, J.T. Todd, K. Testa, & C. Gomez-Lostalo
59. THE RELATIONSHIP BETWEEN WEIGHT-BEARING LOCOMOTION AND TENDON CHARACTERISTICS IN RATS I: POSTNATAL DEVELOPMENT
H.E. Swann, N. Burgett, J.J. Becker, S.K. Funk, A.R. Raveling, N.R. Schiele, & M.R. Brumley
60. THE RELATIONSHIP BETWEEN WEIGHT-BEARING LOCOMOTION AND TENDON CHARACTERISTICS IN RATS II: EFFECT OF NEONATAL SPINAL CORD TRANSECTION
L.R. Kollmeyer, N. Burgett, J.J. Becker, S.K. Funk, A.R. Raveling, N.R. Schiele, & M.R. Brumley
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A.L. Bozeman, S. D. Kauer, & M. R. Brumley
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O. Ossmy*, J. Hoch, S. Hasan, W.G. Cole & K.E. Adolph
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J. Hoch*, O. Ossmy, & K.E. Adolph
64. VARIETY MATTERS: WHAT CAN WE LEARN ABOUT INFANT WALKING FROM SOCCER-PLAYING ROBOTS
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D. Han, **H. Borenstein***, S. Hasan, Z. M. Ahmed, L. P. De Velez, S. Robinovitch, & K. E. Adolph
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J. Rachwani* & K.E. Adolph
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O. Herzberg*, J. Rachwani, B. E. Kaplan, S. M. O'Grady, D. M. Comalli, & K. E. Adolph
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R. Debnath, V.C. Salo, G.A. Buzzell, K.H. Yoo, & N.A. Fox
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L.J. Bryant, D.T. Liyanage, & K. Cuevas
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A. Siddiqui, & R.D. Romeo
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S.E. Gans, & V. Kahen Johnson
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D.J. Rodriguez, N.H. Brito, N. Burtchen, J.S. Yang, M.M Myers, & W.P. Fifer
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A. Vallorani, X. Fu, K. Gilseman, & K.A. Buss
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S. Zeytinoglu*, S.D. Calkins, & E.M. Leerkes
81. CENTRALLY ADMINISTERED OXYTOCIN REDUCES PLASMA CORTISOL ELEVATIONS IN ISOLATED GUINEA PIG PUPS
K.A.Huhta*, F.Tai, W.T.Watanasriyakul, D.M.Gallimore, P.A.Schimi, & M.B.Hennessy
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H. S. Kamin, S. S. Bhatt, C. J. Mulligan, & D.A. Kertes

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