

PROGRAM

51ST ANNUAL MEETING OF THE

ISDP

International Society for
Developmental Psychobiology

October 31 - November 2, 2018

Catamaran Resort Hotel

San Diego, USA

www.isdp.org

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2018 ISDP Award Winners:

Awards Committee: Martha Ann Bell (Chair); Dima Amso & Amanda Tarullo

- ❖ **Sandra G. Wiener Student Investigator Award, Michelle VanTieghem**, Department of Psychology, Columbia University
- ❖ **David Kucharski Young Investigator Award, Jennifer Silvers**, Assistant Professor of Psychology, University of California
- ❖ **Senior Investigator Award, Robert Lickliter**, Professor of Psychology, Florida International University
- ❖ **Dissertation Award, Caitlin Cowan**, APC Microbiome Institute, University College Cork, Ireland
- ❖ **Rovee-Collier Mentor Award, Ruth Grunau**, Department of Pediatrics, The University of British Columbia
- ❖ **Rovee-Collier Mentor Award, William P. Fifer**, The Sackler Institute for Developmental Psychobiology, Columbia University College of Physicians & Surgeons
- ❖ **Distinguished Service Award, William P. Fifer**, The Sackler Institute for Developmental Psychobiology, Columbia University College of Physicians & Surgeons

Student/Postdoc Travel Award Winners:

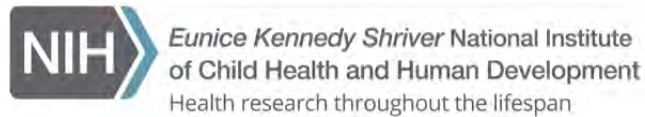
Funding for the Student/Postdoc Travel Awards was generously provided by the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, the Sackler Institute for Developmental Psychobiology, John Wiley and Sons Publishing, the Nurture Science Project at Columbia University and the Members of the ISDP.

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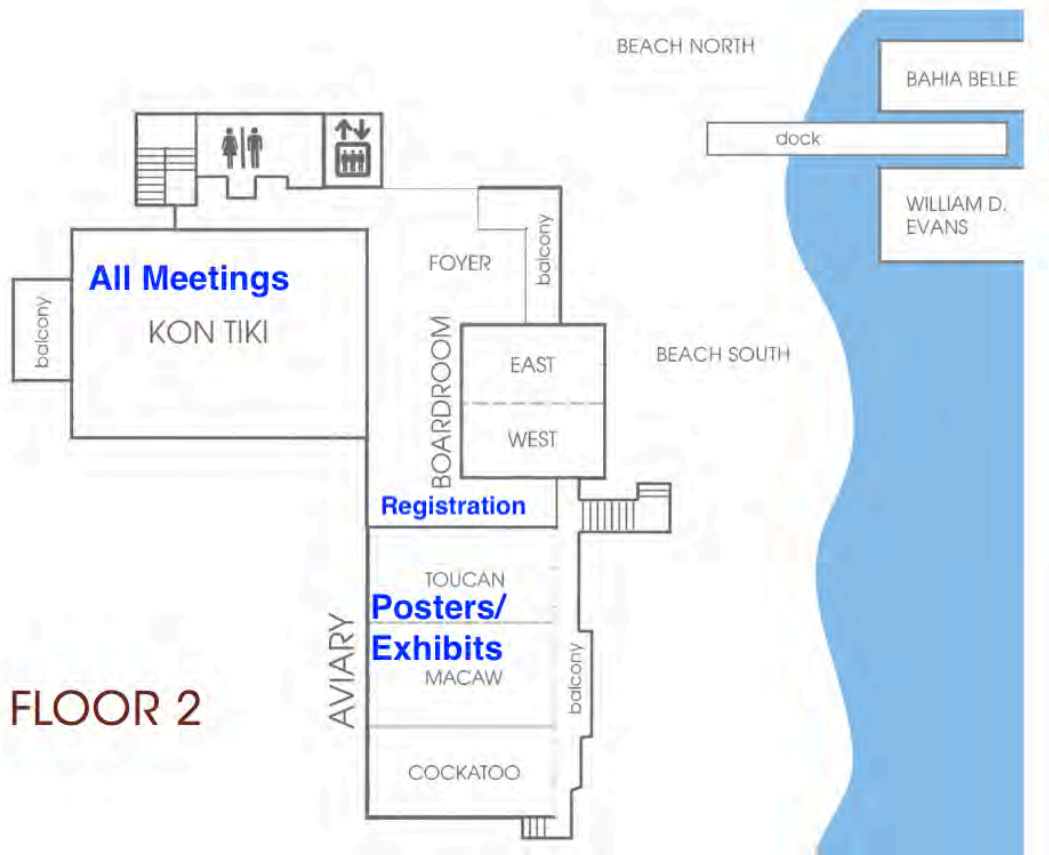
Thank you to all of our sponsors, who have generously supported ISDP Student & Postdoc Member Travel Awards as well as selected Symposium Speaker's travel. Funding for these awards was generously provided by the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, John Wiley and Sons Publishing, the Sackler Institute for Developmental Psychobiology, the Nurture Science Project at Columbia University and the Members of the International Society for Developmental Psychology (ISDP) as well as our Exhibitors, Philips Neuro and Salimetrics. Please be sure to visit our Exhibitors to find out more about how their products and technology can help you in your research. Thanks to all our Sponsors and Exhibitors:



The Sackler Institute for Developmental Psychobiology
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Meeting Space Floor Plan



51st Annual Meeting of the International Society for Developmental Psychobiology
 OCTOBER 31 – NOVEMBER 2, 2018, Catamaran Resort Hotel & Spa, San Diego, USA, Kon Tiki Ballroom & Aviary Ballroom

PROGRAM AT A GLANCE

Wednesday, October 31st	Thursday, November 1st	Friday, November 2nd
	7:00 – 8:30 AM - ISDP Board Meeting	7:00 – 8:00 AM - Continental Breakfast
10:00 AM – 7:00 PM – Registration	7:30 – 8:30 AM - Continental Breakfast	8:00 – 8:30 AM - ISDP Members Business Meeting and Student/Postdoc Travel Awards Distributed
10:00 AM – 1:00 PM - Exhibitor Setup	8:30 - 10:00 AM - S2 THE TWO SIDES OF EARLY LIFE ADVERSITY: VULNERABILITY VS OPPORTUNITY	8:30 – 10:00 AM - O3 ORAL SESSION 3: BRIEF TALKS ON EARLY ENVIRONMENT
All Scientific Sessions are in the Kon Tiki Ballroom. The Poster Sessions are in the Aviary Ballroom.	10:00 – 10:30 AM - Coffee Break - Visit the Exhibitors	10:00 – 10:30 AM Coffee Break - Visit the Exhibitors
	10:30 AM - 12:00 PM - S3 ACQUIRING KNOWLEDGE: A MULTIMETHOD AND MULTISPECIES SYMPOSIUM ON LEARNING	10:30 AM – 12:00 PM - S4 YOUNG INVESTIGATOR SYMPOSIUM: EARLY LIFE STRESS EFFECTS ON EMOTIONAL LEARNING: JMECHANISMS AND INTERVENTIONS FROM HUMAN AND ANIMAL MODELS
1:15 – 4:30 PM - ISDP PERINATAL PRE-CONFERENCE SYMPOSIUM	12:00 - 1:30 PM - Meet the Professors Lunch Extra Registration Required – Space is Limited	12:00 – 1:00 PM Lunch on Own & Wiley Editorial Board Meeting/Lunch
ALL ARE WELCOME TO ATTEND	12:00 – 1:30 PM Lunch on Own	1:00 – 2:00 PM Wiley Distinguished Speaker - Damien Fair, PA-C, PhD, Oregon Health and Science University, Portland, USA
Topic: Perinatal research: The next generation	1:30 - 2:30 PM - O1 ORAL SESSION 1: PRENATAL INFLUENCES	2:10 – 3:15 PM - AWARDS TALKS & PRESENTATION OF AWARDS
4:50-5:00 PM Welcome to the 51 st Annual Meeting of the ISDP, President Nathan Fox	2:30 - 3:00 PM - Coffee Break – Visit the Exhibitors	3:15 – 3:30 PM - Coffee Break - Visit the Exhibitors
5:00 - 6:30 PM - S1 Sackler Symposium: FROM ANIMALS TO HUMANS: UNDERSTANDING THE EFFECTS OF MATERNAL IMMUNE ACTIVATION ON THE DEVELOPING OFFSPRING BRAIN AND ASSOCIATED BEHAVIORS ACROSS THE LIFESPAN	3:00 PM - 4:00 PM - PRESIDENTIAL ADDRESS- ISDP PRESIDENT: GLORY DAYS, Nathan Fox, University of Maryland	3:30 – 5:00 PM - S5 SLEEP WITHIN A DEVELOPMENTAL CONTEXT: PREDICTORS AND CONSEQUENCES OF SLEEP DURING INFANCY, EARLY CHILDHOOD, ADOLESCENCE, AND THE TRANSITION TO PARENTHOOD
6:30 – 7:00 PM – Welcome Reception	4:15 - 5:15 PM - O2 ORAL SESSION 2: EARLY INTERACTION	5:00 – 7:00 PM – Dinner Break on Own
7:00 - 9:00 PM - P1 POSTER SESSION 1, Cash Bar Reception	5:30 – 7:30 PM – P2 POSTER SESSION 2, Cash Bar Reception	7:00 - 9:00 PM - Society for Neuroscience Poster Reception - Hilton San Diego Bayfront Hotel Ildigo 202 Room

Wednesday, October 31, 2018

🏆 Denotes Student/Postdoc Travel Award Winner next to author's names in the program

10:00 – 7:00 PM Kon Tiki/Aviary Ballroom Foyer – Registration

All meetings in the Kon Tiki Ballroom – Poster Session is the Aviary Ballroom

1:15 - 4:30 PM ISDP PERINATAL PRE-CONFERENCE SYMPOSIUM – *Sponsored by the International Perinatal Brain and Behavior Network (IPBBN)*

Senior perinatal scientists and their mentees will present their work as mentor-mentee pairs, focusing on the **future of perinatal research and the next generation of international perinatal scientists**. New findings and methods will be presented from the laboratories of: **Suzanne King, Susanne Brummelte, Elisabeth Conradt, William Fifer, and Marion van den Heuvel**.

ALL ARE WELCOME TO ATTEND!

4:50 - 5:00 PM Welcome to ISDP – Nathan Fox, PhD, ISDP President

5:00 - 6:30 PM S1 Sackler Symposium: FROM ANIMALS TO HUMANS: UNDERSTANDING THE EFFECTS OF MATERNAL IMMUNE ACTIVATION ON THE DEVELOPING OFFSPRING BRAIN AND ASSOCIATED BEHAVIORS ACROSS THE LIFESPAN - Symposium Co-Chairs: **Dustin Scheinost**, Yale University, New Haven, USA and **Marisa N. Spann**, Columbia University Department of Psychiatry, New York, USA

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The Sackler Institute for Developmental Psychobiology
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5:00 - 5:20 PM S1-1 DEVELOPMENTAL ORIGINS OF ADULT PREFRONTAL CORTICAL PARVALBUMIN INTERNEURON FUNCTIONAL DYSCONNECTIVITY, **Sarah Canetta**, Columbia University Medical Center; Eric Teboul, Research Foundation for Mental Hygiene; Alan Brown, Columbia University Medical Center; Christoph Kellendonk, Columbia University

5:20 - 5:40 PM S1-2 PRENATAL AIR POLLUTION AND MATERNAL STRESS ALTER BRAIN DEVELOPMENT IN THE ANTERIOR CINGULATE CORTEX, **Carina Block**, Duke University; Ozgur Eroglu, Duke University; Steve Mague, Duke University; Caroline Smith, Massachusetts General Hospital for Children; Kafui Dzirasa, Duke University; Cagla Eroglu, Duke University; Staci Bilbo, MassGeneral Hospital for Children/Harvard Medical School

- 5:40 - 6:00 PM S1-3 MATERNAL INTERLEUKIN-6 CONCENTRATION DURING PREGNANCY IS ASSOCIATED WITH VARIATION IN FRONTOLIMBIC WHITE MATTER AND COGNITIVE DEVELOPMENT IN EARLY LIFE, **Jerod Rasmussen**, UC Irvine; Alice Graham, Oregon Health and Science University; Sonja Entringer, University of California, Irvine; John Gilmore, University of North Carolina; Martin Styner, University of North Carolina; Damien Fair, Oregon Health and Science University; Pathik Wadhwa, University of California Irvine; Claudia Buss, University of California Irvine
- 6:00 - 6:20 PM S1-4 A TALE OF TWO IMMUNE MARKERS: MATERNAL IMMUNE ACTIVATION DURING THE 3RD TRIMESTER IS ASSOCIATED WITH NEONATAL FUNCTIONAL CONNECTIVITY AND FETAL TO TODDLER BEHAVIOR, **Dustin Scheinost**, Yale School of Medicine
- 6:20 - 6:30 PM Discussion, Q&A
- 6:30 - 7:00 PM** Welcome Reception – Visit the Exhibits

7:00 - 9:00 PM	P1 Poster Session 1, Cash Bar Reception
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EFFECTS OF CONGENITAL BLINDNESS ON OLFACTORY FUNCTIONS AND BRAIN PLASTICITY (P1-01)

Syrina Al Ain, UQTR; Jasmin Thibault, UQTR; Gilles Bronchti, UQTR; Elaina Luna, UQTR

THE ASSOCIATIONS BETWEEN AGE, PUBERTY, AND THE ERROR-RELATED NEGATIVITY IN ADOLESCENCE ACROSS TWO INDEPENDENT SAMPLES (P1-02)

Tyson Barker, University of Oregon; Sonya Troller-Renfree, University of Maryland; Lindsey Bowman, UC Davis; George Buzzell, University of Maryland; Daniel Pine, NIMH; Nathan Fox, University of Maryland

SECOND-BY-SECOND CHILD FRONTAL EEG ASYMMETRY AND CHILD BEHAVIOR PREDICT MATERNAL BEHAVIOR DURING AN INTERACTION TASK (P1-03)

Martha Ann Bell, Virginia Tech; Richard Ashley, Virginia Tech; Yu Zhou, Jinan University – University of Birmingham Joint Institute; Eunkyung Shin, Virginia Tech; Erika Hernandez, Virginia Tech; Madeline Slough, Virginia Tech; Kara Vlahcevic, Virginia Tech; Angela Scarpa, Virginia Tech; Julie Dunsmore, Virginia Tech; Cynthia Smith, Virginia Tech

INCUBATION TEMPERATURE INFLUENCES FALL FREQUENCY IN BOBWHITE QUAIL NEONATES (P1-04)

Starlie Belnap, Florida International University; Robert Lickliter, Florida International University

COMPLEX HEART, COMPLEX MIND: THE FRACTAL NATURE OF HRV IN EARLY CHILDHOOD COGNITIVE CONTROL (P1-05)

Daniel Berry, Institute of Child Development, University of Minnesota; Isabella Stallworthy, University of Minnesota

ELECTROPHYSIOLOGICAL CHARACTERISTICS OF OXYTOCIN RECEPTOR EXPRESSING NEURONS IN ENDOPIRIFORM NUCLEUS ACROSS DEVELOPMENT OF MICE (P1-06)

Lindsey Biggs, Florida State University; Elizabeth Hammock, Florida State University

THE TREE AMONG THE FOREST: THE DEVELOPMENTAL TRAJECTORY OF THE GLOBAL PRECEDENCE EFFECT WITH AND WITHOUT THE USE OF INSTRUCTIONS (P1-07)

🦋 **Emily Blakley**, Binghamton University; Nicholas Duggan, Binghamton University; Sarah Olsen, Binghamton University; Alecia Moser, Binghamton University; Peter Gerhardstein, Binghamton University

SOCIAL NETWORK DYNAMICS ACROSS TWO AFFILIATIVE, BUT RISKY, INTERACTIONS IN COLOMBIAN SPIDER MONKEYS (ATELES FUSCICEPS RUFIVENTRIS) (P1-08)

🦋 **Emily Boeving**, Florida International University; Eliza Nelson, Florida International University

HINDLIMB STEPPING IN RESPONSE TO TREADMILL SPEED IN NEONATAL SPINAL-TRANSECTED RATS (P1-09)

🦋 **Aimee Bozeman**, Idaho State University; Michele Brumley, Idaho State University

ATTENTION IN INFANCY: A FOUNDATION FOR THE DEVELOPMENT OF SELF-REGULATION IN CHILDREN FROM LOW-SES BACKGROUNDS (P1-10)

🦋 **Annie Brandes-Aitken**, New York University; Clancy Blair, NYU

PRESCHOOL FRONTO-FRONTAL EEG COHERENCE PREDICTS SOCIAL RESPONSIVENESS AT 9 YEARS (P1-11)

🦋 **Alleyne Broomell**, Virginia Tech; Martha Ann Bell, Virginia Tech

THE EFFECTS OF PERFORMANCE-BASED INCENTIVES ON EXECUTIVE FUNCTIONS DURING EARLY CHILDHOOD (P1-12)

🦋 **Lauren Bryant**, University of Connecticut; Michaela Barratt, University of Connecticut; Nicholas Pinnock, University of Connecticut; Dilsara Liyanage, University of Connecticut; Kimberly Cuevas, University of Connecticut

RAT MATERNAL BEHAVIOR TOWARDS HEALTHY PUPS COMPARED TO PUPS WITH NEURAL INJURY (P1-13)

🦋 **Nicholas Burgett**, Idaho State University; Hillary Swann, Idaho State University; Derek Viall, Idaho State University; Aimee Bozeman, Idaho State University; Michele Brumley, Idaho State University

ROLE-DIFFERENTIATED BIMANUAL MANIPULATION DIFFERENCES IN EFFICIENCY AMONGST DIFFERENT HANDEDNESS GROUPS. (P1-14)

🦋 **Sarai Cortina**, Illinois State University; Rachel Flores, Illinois State University; Leanne Mordan, Illinois State University; Kevin Gehm, Illinois State University; Julie Campbell, Illinois State University

THE INFLUENCE OF SHORT-TERM, PERINATAL BPA EXPOSURE ON AFFILIATIVE HUDDLING BEHAVIOR IN RAT PUPS AT 15 DAYS OF AGE (P1-15)

🦋 **Carly Drzewiecki**, University of Illinois; Elli Sellinger, University of Illinois Urbana-Champaign; Jari Willing, University of Illinois; Steven Rhoads, University of Illinois; Sueyoun Hwang, University of Illinois; Janice Juraska, University of Illinois

DETECTION OF ILLUSORY CONTOURS: EYE-TRACKING DATA PROVIDES INSIGHT INTO YOUNG CHILDREN'S VISUAL DEVELOPMENT (P1-16)

🦋 **Nicholas Duggan**, Binghamton University; Emily Blakley, Binghamton University; Sarah Olsen, Binghamton University; Alecia Moser, Binghamton University; Erika Yamazaki, Binghamton University; Gloria Song, Binghamton University; Peter Gerhardstein, Binghamton University

HETEROGENEITY IN THE AUDITORY ERP RESPONSES OF YOUNG, TYPICALLY-DEVELOPING CHILDREN (P1-17)

🦋 **Patrick Dwyer**, UC Davis Department of Psychology; Rosanna De Meo-Monteil, UC Davis; Clifford Saron, UC Davis; Susan Rivera, Univ California, Davis

RELATIONS AMONG INTERSENSORY PROCESSING, SOCIAL COMPETENCE, AND VOCABULARY SIZE IN INFANCY (P1-18)

🦋**Elizabeth Edgar**, Florida International University; James Todd, Florida International University; Myriah McNew, Florida International University; Lorraine Bahrick, Florida International University

EFFECTS OF BOOK DESIGN ON CHILDREN'S ATTENTION ALLOCATION AND LEARNING: AN EYETRACKING STUDY (P1-19)

🦋**Cassandra Eng**, Carnegie Mellon University; Karrie Godwin, Kent State University; Kristen Boyle, Carnegie Mellon University; Anna Fisher, Carnegie Mellon University

PRETERM BIRTH AND EARLY JOINT ATTENTION (P1-20)

🦋**Angela Fenoglio**, University of Minnesota; Michael Georgieff, University of Minnesota; Jed Elison, University of Minnesota, Twin Cities

DEVELOPING MOTOR ABILITIES ALTER INFANTS' EVERYDAY EXPERIENCES (P1-22)

John Franchak, UC Riverside

INFANT FRONTAL EEG, MATERNAL SENSITIVITY, AND TODDLER INHIBITORY CONTROL PREDICT PRESCHOOL BEHAVIORAL REGULATION (P1-23)

🦋**Tatiana Garcia-Meza**, Virginia Tech; Ran Liu, Virginia Tech; Martha Ann Bell, Virginia Tech

NEURITE DENSITY PATTERNS IN THE CORPUS CALLOSUM: COMPARISON OF DIFFUSION-WEIGHTED IMAGING DENSITY METRICS (P1-24)

🦋**Dea Garic**, Florida International University; Anthony Dick, Florida International University

GROSS AND FINE MOTOR SKILLS DIFFERENTIALLY PREDICT EXPRESSIVE AND RECEPTIVE LANGUAGE OUTCOMES (P1-25)

🦋**Sandy Gonzalez**, Florida International University; Bethany Reeb-Sutherland, Florida International University; Eliza Nelson, Florida International University

PRENATAL INCUBATION TEMPERATURE AFFECTS FEARFUL BEHAVIORS IN 1-DAY OLD BOBWHITE QUAIL CHICKS. (P1-26)

🦋**Marien Govea**, Florida International University; Douglas Gramajo, Developmental Psychobiology Lab; Starlie Belnap, Florida International University; Robert Lickliter, Florida International University

OXYTOCIN RECEPTOR EXPRESSION IN THE PERIPHERY OF NEONATAL RATS AND PRAIRIE VOLES (P1-27)

Maria Greenwood, Florida State University, Psychology Department, Neuroscience Program; Elizabeth Hammock, Florida State University

SIMILARITY AND DIFFERENTIATION ACROSS THE DEVELOPING CONNECTOME AND LINKS TO EFFECTIVE EMOTION REGULATION (P1-28) 🦋**Joao Guassi Moreira**, University of California, Los Angeles; Katie McLaughlin, University of Washington, Seattle; Jennifer Silvers, UCLA

REFLECTIVE FUNCTIONING PREDICTS LOWER CARDIOVASCULAR REACTIVITY AND RECOVERY IN SCHOOL-AGED CHILDREN (P1-29)

Kajung Hong, University of California, Irvine; Karin Ensink, Université Laval; Alexandra Sereno, Université Laval; Robert Drury, WA/University of Wisconsin Institutes for Discovery; Peter Fonagy, University College London; Jessica Borelli, University of California, Irvine

PARENTAL DEPRESSIVE SYMPTOMS AND REFLECTIVE FUNCTIONING PREDICTING QUALITY OF RELATIONAL SAVORING: ASSOCIATIONS WITH CHILDREN'S BASELINE PHYSIOLOGICAL AROUSAL (P1-30)

Kajung Hong, University of California, Irvine; Yuqing Guo, University of California, Irvine; David Bond, Empath Clinical; Jessica Borelli, University of California, Irvine

INVOLVEMENT OF MEDIAL PREFRONTAL NMDA RECEPTORS IN THE ACQUISITION OF THE CONTEXT REPRESENTATION AND CONTEXT-SHOCK ASSOCIATION IN THE CPFE. (P1-31)

Colin Horgan; Lauren Miller; Nicholas Heroux; Mark Stanton, University of Delaware

THE EFFECTS OF SLEEP PATTERNS, BEHAVIOR, CHARACTERISTICS AND SLEEP ENVIRONMENT ON THE ACADEMIC PERFORMANCE AND HEALTH OF SELECTED GRADES 7 TO 10 STUDENTS (P1-32)

🦋**Katrina Marie Jolejole**, University of the Philippines Los Baños; Ria Sanchez, University of the Philippines Los Baños; Rufo Gil Albor, University of the Philippines Los Baños; Nephtaly Joel Botor, University of the Philippines Los Baños

REWARD LEARNING BIASES SELECTIVE ATTENTION AMONG 9-12-MONTH-OLD INFANTS (P1-33)

Brianna Keenan; Julie Markant, Tulane University

CHILDREN'S LEARNING FROM DISTRACTION VARIES BY SELECTIVE ATTENTION ABILITY (P1-34)

Jill King, Tulane University; Julie Markant, Tulane University

VOCAL PROSODY IN CAREGIVER-INFANT PHYSIOLOGICAL AND EMOTIONAL INTERACTION DYNAMICS: APPLICATION OF A NEW MEASURE (P1-35)

🦋**Jacek Kolacz**, Indiana University; Elizabeth daSilva, Indiana University; Gregory Lewis, Indiana University; Bennett Bertenthal, Indiana University; Stephen Porges, Indiana University

EXTINCTION LEARNING IN HUMAN INFANTS (P1-36)

Carolin Konrad, Ruhr-Universität Bochum; Dirk Adolph, Ruhr-Universität Bochum; Amelie Niemeyer, Ruhr-Universität Bochum; Verena Senk, Ruhr-Universität Bochum; Sarah Weigelt, Ruhr-Universität Bochum; Jane Herbert, University of Wollongong; Cornelia Mohr, Ruhr-Universität Bochum; Julie Poirier, Ruhr-Universität Bochum; Silvia Schneider, Ruhr-Universität Bochum

EVIDENCE FOR DISTINCT P300 AND LPP ERP COMPONENTS IN MOTHERS PROCESSING INFANT EMOTIONAL EXPRESSIONS (P1-37)

🦋**Sierra Kuzava**; Brady Nelson; Kristin Bernard, Stony Brook University

SLEEP DURATION IN PRESCHOOLERS RELATES TO BASELINE EEG BETA POWER AND EMOTIONAL DYSREGULATION. (P1-39)

🦋**Diana Lopera-Perez**, Boston University, Universidad del Norte; Ashley St. John, Boston University; Amanda Tarullo, Boston University

SPATIAL STRUCTURE OF MOBILE INFANTS' VISUAL EXPERIENCES IN NATURAL INTERACTION WITH CAREGIVERS AND OBJECTS (P1-40)

🦋**Chuan Luo**; John Franchak, University of California Riverside

ARMS FREE SITTERS PERFORM MORE BIMANUAL OBJECT COMBINATIONS, THAN PROP SITTERS (P1-41)

Emily Marcinowski, Virginia Commonwealth University; Duangporn Pattanakul, Illinois State University; Julie Campbell, Illinois State University; Stacey Dusing, Virginia Commonwealth University

HUMAN AND MONKEY INFANT ATTENTION TO DYNAMIC SOCIAL AND ABSTRACT STIMULI (P1-42)

Sarah Maylott, University of Miami; Annika Paukner, NIH/NICHHD; Yeojin Ahn, University of Miami; Elizabeth Simpson, University of Miami

THE POWER OF INTERSTIMULUS INTERVAL: USE OF PREPULSE INHIBITION FOR THE ASSESSMENT OF TEMPORAL PROCESSING IN RODENTS (P1-43)

🦋**Kristen McLaurin**; Hailong Li; Rosemarie M. Booze; Charles Mactutus, University of South Carolina

DEVELOPMENT OF INTERSENSORY PERCEPTION OF SOCIAL EVENTS: LONGITUDINAL TRAJECTORIES ACROSS 6-24 MONTHS OF AGE (P1-44)

🦋**Myriah McNew**; James Todd; Elizabeth Edgar; Lorraine Bahrck, Florida International University

LINKS BETWEEN PARENT AND CHILD RESPONDING TO EMOTIONAL CUES (P1-45)

🦋**Adriana Mendez Leal**; Joao Guassi Moreira; Emilia Ninova; Jennifer Silvers, University of California, Los Angeles

INFANT HANDEDNESS: DEVELOPMENTAL CASCADE OR SERIAL HOMOLOGY? (P1-46)

Anna Warner; **George Michel**; Madeline Rees; Jonathan Latta, University of North Carolina at Greensboro

WHETHER MOVEMENTS RECORDED WITH THE ACTIGRAPHS ARE PREDICTED BY SUPINE HEAD ORIENTATION PREFERENCE? (P1-47)

🦋**Leanne Mordan**; Duangporn Pattanakul; Julie Campbell, Illinois State University

EPIGENETIC MARKERS OF ERLY EXPERIENCES AND DYADIC ENGAGEMENT DURING INFANCY. (P1-48)

Isabelle Mueller, University of Massachusetts Boston; Elisabeth Conradt, University of Utah; Sophia Cohen, Rhode Island Association for Infant Mental Health; Lauren Balest, University of Massachusetts Boston; Carmen Marsit, Emory University; Barry Lester, Women & Infants Hospital; Ed Tronick, University of Massachusetts Boston

THE RELATIVE DEVELOPMENT AND TRAJECTORY OF EXECUTIVE FUNCTIONS ACROSS THE LIFESPAN (P1-49)

Jennifer Nosker; Kathy Burson; Helen Grzeskiewicz; Daniel Ignacio; Henry Soper, Fielding Graduate University

THE EFFECTS OF PARENTAL INSTRUCTION QUALITY AND PHYSIOLOGICAL RECOVERY ON CHILDREN'S ACADEMIC ACHIEVEMENT (P1-51)

Karishma Patel; Kristen Rudd; Tuppett Yates, University of California, Riverside

THE RELATION BETWEEN INFANT SUPINE HEAD ORIENTATION PREFERENCE, ARM/HAND MOVEMENTS, AND HAND PREFERENCE FOR OBJECT ACQUISITION (P1-52)

🦋**Duangporn Pattanakul**; Julie Campbell, Illinois State University

THE RELATION BETWEEN MATERNAL AND CHILD NEUROBIOLOGICAL MARKERS OF EMOTION PROCESSES: EXAMINING THE ROLE OF PARENTING BEHAVIORS (P1-53)

Randi Phelps; Anne Kalomiris; Robin Thomas; Elizabeth Kiel, Miami University

EFFECTS OF NATIVITY ON THE RELATIONSHIP BETWEEN SLEEP QUALITY AND PARENT-REPORTED CHILD BEHAVIOR (P1-54)

🦋**Tiffany Phu**; Sarah Watamura, University of Denver

ASSOCIATIONS BETWEEN CHILDHOOD SLEEP AND NEURAL CORRELATES OF EMOTION RESPONSIVITY AND REGULATION (P1-55)

🦋 **Brooke Reidy**; Stephan Hamann; Cassandra Hendrix; Kristina Dahlgren; Patricia Brennan, Emory University

Domain-specificity in the intergenerational transmission of executive functions (P1-56)

🦋 **Andrew Ribner**, New York University; Clancy Blair, NYU

USING THE REFERENT SELECTION TASK TO TEST MUTUAL EXCLUSIVITY IN MONOLINGUAL AND BILINGUAL 2-YEAR-OLDS (P1-57)

🦋 **Joscelin Rocha Hidalgo**; Olivia Blanchfield; Sylvia Rusnak; Mary Feller; Grace Lozano; Rachel Barr, Georgetown University

ASSOCIATIONS BETWEEN NEONATAL ELECTROCORTICAL POWER DURING SLEEP AND NEURODEVELOPMENTAL OUTCOME IN TODDLERS (P1-58)

🦋 **Daianna Rodriguez**, New York State Psychiatric Institute; Cynthia Rodriguez, Columbia University Medical Center; Priscilla Springer, Stellenbosch University; Mandy Potter, Stellenbosch University; Hein Odendaal, Stellenbosch University; Natalie Brito, New York University; Joseph Isler, Columbia University; Lauren Shuffrey, Columbia University Medical Center; Michael M. Myers, New York State Psychiatric Institute; William Fifer, Columbia University

SOCIAL EXCLUSION EFFECTS OF REJECTION SENSITIVITY ON RISK TAKING DECISIONS (P1-59)

Garrett Ross, University of Oregon

USING FNIRS TO INVESTIGATE IMITATION LEARNING FOLLOWING LIVE AND VIDEOCHAT INTERACTIONS DURING EARLY CHILDHOOD (P1-61)

🦋 **Sylvia Rusnak**, Georgetown University; Andrei Medvedev, Georgetown University; Frank Fishburn, University of Pittsburgh; Francys Subiaul, George Washington University; Rachel Barr, Georgetown University

DEVELOPMENTAL NEUROGENESIS AND APOPTOSIS ARE ALTERED BY PERINATAL PHTHALATE EXPOSURE IN THE RAT MEDIAL PREFRONTAL CORTEX (P1-62)

🦋 **Elli Sellinger**, University of Illinois Urbana-Champaign; Carly Drzewiecki, University of Illinois; Jari Willing, University of Illinois; Janice Juraska, University of Illinois

MATERNAL PRE-PREGNANCY BMI IS ASSOCIATED WITH FETAL BRAIN DEVELOPMENT AND TODDLER SOCIAL ABILITIES (P1-65)

Marisa Spann, Columbia University Medical Center; Catherine Monk, Columbia University; Dustin Scheinost, Yale School of Medicine; Bradley Peterson, University of Southern California/Children's Hospital of Los Angeles

AN EYE-TRACKING SERIAL REACTION TIME TASK AS A MEASURE OF PROCEDURAL LEARNING IN 9-MONTH-OLD INFANTS (P1-66)

Annette Sundqvist, Linköpings universitet; Felix-Sebastian Koch, Linköpings universitet; Ulrika Birberg-Thornberg, Linköpings universitet; Jarrad Lum, Deakin University; Michael Ullman, Georgetown University; Rachel Barr, Georgetown University; Mary Rudner, Linköping University; Mikael Heimann, Linköping University

THE RELATIONSHIP BETWEEN INFANT EQUIPMENT USE AND MOTOR MILESTONES DURING THE FIRST 18 MONTHS (P1-67)

🦋 **Hillary Swann**; Nicki Aubuchon-Endsley; Bryan Gee; Michele Brumley, Idaho State University

ORAL OXYTOCIN ALTERS BRAIN ACTIVATION AND BEHAVIORS OF DEVELOPING MICE IN A DOSE, AGE, AND SEX DEPENDENT MANNER. (P1-68)

🦋 **Manal Tabbaa**; Elizabeth Hammock, Florida State University

EARLY GRASPING SKILL PREDICTS LATER GROWTH IN BIMANUAL SKILL IN INFANTS (P1-69)

Megan Taylor; Eliza Nelson, Florida International University

COSLEEPING AND BIO-BEHAVIORAL SELF-REGULATION IN INFANTS (P1-70)

🦋 **Charu Tuladhar**; Amanda Tarullo, Boston University

TRIGEMINAL GANGLIA CORRELATES OF HYPOTHALAMIC OXYTOCIN PRODUCTION IN NEONATAL MICE. (P1-71)

Radhika Vaidyanathan; Elizabeth Hammock, Florida State University

SOCIAL RELATIONSHIPS CONTRIBUTE TO PHENOTYPIC VARIATION WITHIN CAGES OF LABORATORY MICE (P1-72)

🦋 **Justin Varholick**, University of Bern; Alice Pontiggia, University of Bern; Eimear Murphy, University of Bern; Vanessa Daniele, University of Zurich; Rupert Palme, University of Veterinary Medicine; Bernhard Voelkl, University of Bern; Hanno Würbel, University of Bern; Jeremy Bailoo, The University of Bern, Switzerland

EYEBLINK CONDITIONING AS A BIOMARKER FOR CHILDREN'S SUCCESS ON SPATIAL REORIENTATION TESTS (P1-73)

🦋 **Vanessa Vieites**; Bethany Reeb-Sutherland; Shannon Pruden, Florida International University

EVIDENCE FOR AUTONOMIC CO-REGULATION THROUGH VOCALIZATION OF MOTHERS AND PRETERM INFANTS DURING A 4-MONTH FOLLOW-UP (P1-74)

Martha Welch, Columbia University Medical Center; Katie Kwon, Columbia University Medical Center; Judith Austin, Columbia University; Robert Ludwig, Columbia University Medical Center; Michael M. Myers, New York State Psychiatric Institute; Amie Hane, Williams College

PATERNAL HIGH FAT DIET AFFECTS EXPRESSION OF HYPOTHALAMIC POMC IN THE OFFSPRING: A POTENTIAL EPIGENETIC MECHANISM FOR OBESITY (P1-75)

Aron Weller, Bar-Ilan University; Tzliil Menashe, Bar Ilan University; Tatiana Kisiouk, The Volcani Center; Tzliil Tabachnik, Bar Ilan University; Asaf Marco, Bar-Ilan University; Noam Meiri, The Volcani Center

AGE-OF-ONSET AND SEX INFLUENCE ESCALATION OF METHAMPHETAMINE SELF-ADMINISTRATION, SUBSEQUENT RECOGNITION MEMORY, AND NEUROADAPTATIONS IN SPRAGUE-DAWLEY RATS (P1-76)

🦋 **Sara Westbrook**; Megan Dwyer; Laura Cortes; Joshua Gulley, University of Illinois Urbana-Champaign

DEVELOPMENTAL CHANGES IN FRONTO-CENTRAL EEG ACROSS INFANCY ARE RELATED TO LANGUAGE AND EXECUTIVE FUNCTIONS IN CHILDREN (P1-77)

🦋 **Margaret Whedon**, University of North Carolina at Greensboro; Margaret Swingler, UNC Greensboro; Susan Calkins, University of North Carolina at Greensboro; Martha Ann Bell, Virginia Tech

ONE-SHOT LEARNING OF ABSTRACT OBJECT CONCEPTS IN VISUALLY NAIVE ANIMALS (P1-78)

Samantha Wood; Justin Wood, University of Southern California

USING AUTOMATED CONTROLLED REARING TO EXPLORE THE ORIGINS OF OBJECT RECOGNITION (P1-79)

Justin Wood, University of Southern California

DISSOCIATING LONG AND SHORT-TERM MEMORY IN 3-MONTH-OLD INFANTS USING THE MISMATCH RESPONSE TO VOICE STIMULI (P1-80)

🦋 **Katharina Zinke**; Leonie Thöne; Elaina Bolinger; Jan Born, University of Tübingen

CREATING A COMPUTER-ASSISTED METHODOLOGY FOR DEVELOPMENTAL ANALYSES ON MULTITASKING COSTS IN SPEED AND ACCURACY (P1-81)

Joseph Lou, Oxford Academy

Thursday, November 1, 2018

7:00 – 8:30 AM Rousseau Suite – ISDP Board Meeting

7:30 – 8:30 AM Kon Tiki/Aviary Ballroom Foyer – Continental Breakfast

8:30 – 10:00 AM S2 THE TWO SIDES OF EARLY LIFE ADVERSITY: VULNERABILITY VS OPPORTUNITY - Symposium Chair: **Jee Hyun Kim**, The Florey Institute of Neuroscience and Mental Health, Parkville, Australia; Co-Chair: **Christina J. Perry**, Florey Institute of Neuroscience and Mental Health, Melbourne, Australia

8:30 - 8:45 AM S2-1 UNDERSTANDING THE CAREGIVERS UNIQUE ACCESS TO PROGRAMMING THE INFANT BRAIN: CAREGIVER PRESENCE MODIFIES NEURAL NETWORKS PROCESSING OF TRAUMA, **Regina Sullivan**, Nathan Kline Institute & NYU School Medicine; Maya Opendak, New York University Langone Medical Center; Donald Wilson, Nathan Kline Institute & NYU School Medicine

8:45 - 9:00 AM S2-2 HOT BABY: HOW EARLY LIFE INFLAMMATION PROGRAMS THE BRAIN, **Quentin Pittman**, University of Calgary

9:00 - 9:15 AM S2-3 ADAPTATION OF THREAT-RELATED NEUROBIOLOGY FOLLOWING EARLY PARENTAL DEPRIVATION, **Nim Tottenham**, Columbia University

9:15 - 9:30 AM S2-4 EFFECT OF JUVENILE STRESS ON ASSOCIATIVE PLASTICITY AND MEMORY, Sreedharan Sajikumar, 🦋 **Radha Raghuraman**, National University of Singapore

9:30 - 9:45 AM S2-5 RUNNING AWAY FROM LONELINESS: CAN EXERCISE IMPROVE ANXIETY STEMMING FROM SOCIAL ISOLATION?, 🦋 **Christina Perry**, Florey Institute of Neuroscience and Mental Health; Katherine Drummond, Florey Institute of Neuroscience and Mental Health; Michelle Waring, University of Melbourne; Jee Hyun Kim, Florey Institute of Neuroscience and Mental Health

9:45 - 10:00 AM Discussion, Q&A

10:00 - 10:30 AM Coffee Break - Visit the Exhibitors - Kon Tiki/Aviary Foyer

10:30 – 12:00 PM S3 ACQUIRING KNOWLEDGE: A MULTIMETHOD AND MULTISPECIES SYMPOSIUM ON LEARNING - Symposium Chair: **Jennifer Silvers**, University of California, Los Angeles, Los Angeles, USA

- 10:30 - 10:45 AM S3-1 LEARNING TO ATTEND: 2D AND NATURALISTIC ENVIRONMENTS REQUIRE DIFFERENT LEARNING SYSTEMS, **Dima Amso**; Thomas Serre, Brown University
- 10:45 - 11:00 AM S3-2 ASSOCIATIONS AMONG SOCIOECONOMIC STATUS, HOME LANGUAGE ENVIRONMENT, AND RESTING EEG DURING INFANCY, **Natalie Brito**, New York University; William Fifer, Columbia University; Joseph Isler, Columbia University; Kimberly Noble, Teachers College, Columbia University
- 11:00 - 11:15 AM S3-3 MEMORY MATURATION: UNDERSTANDING THE ROLE OF THE HIPPOCAMPUS IN LONG-TERM MEMORY FORMATION ACROSS DEVELOPMENT, **Bridget Callaghan**, Columbia University; Jennifer Silvers, UCLA; Alexa Tompary, University of Pennsylvania; Michelle VanTieghem, Columbia University; Tricia Choy, Columbia University; Kaitlin O'Sullivan, Columbia University; Lila Davachi, Columbia University; Nim Tottenham, Columbia University
- 11:15 - 11:30 AM S3-4 OBSERVATIONAL LEARNING AS A MECHANISM FOR TRANSGENERATIONAL TRANSMISSION OF FEAR, **Jennifer Silvers**, UCLA; Nim Tottenham, Columbia University
- 11:30 - 11:45 AM S3-5 AGE DIFFERENCES IN THE IMPACT OF SAFETY SIGNALS ON FEAR EXPRESSION AND REGULATION, **Heidi Meyer**; Francis Lee, Weill Cornell Medical College
- 11:45 - 12:00 PM Discussion, Q&A
- 12:00 - 1:30 PM Lunch on Own - Catamaran Resort or Local Area Restaurants
- 12:00 - 1:30 PM Meet the Professors Lunch - Rousseau Suite (Space is limited, pre-registration/extra fee required)

1:30 - 2:30 PM O1 Oral Session 1: Prenatal Influences

- 1:30 - 1:40 PM O1-1 THE INFLUENCE OF MATERNAL STRESS DURING PREGNANCY ON TODDLERS' SLEEP PROBLEMS: THE ROLE OF CORTICO-CEREBELLAR CONNECTIVITY IN UTERO, **Marion van den Heuvel**, Tilburg University; Jamine Hect, Wayne State University; Benjamin Smarr, University of California Berkeley; Lance Kriegsfeld, University of California Berkeley; Jeanne Barcelona, Wayne State University; Kowsar Hijazi, Wayne State University; Moriah Thomason, New York University

- 1:40 - 1:50 PM O1-2 DEVELOPMENTAL EXPOSURE TO FLUOXETINE (PROZAC) INCREASES ANXIETY- AND DEPRESSIVE-LIKE BEHAVIOURS AT ADOLESCENCE AND ALTERS GLUTAMATERGIC MARKERS IN THE PREFRONTAL CORTEX AND HIPPOCAMPUS, 🦋**Sam Millard**, University of Wollongong; Jeremy Lum, University of Wollongong; Francesca Fernandez, Australian Catholic University; Katrina Weston-Green, University of Wollongong; Kelly Newell, University of Wollongong
- 1:50 - 2:00 PM O1-3 PRENATAL MATERNAL STRESS PREDICTS TODDLER CORTISOL PROFILES AND CHILDHOOD ANXIETY SYMPTOMS: THE QF2011 FLOOD STUDY, 🦋**Mia Mclean**, University of Queensland; Gabrielle Simcock, University of Queensland; Guillaume Elgbeili, Institut universitaire en santé mentale Douglas; Vanessa Cobham, University of Queensland; Sue Kildea, University of Queensland; Suzanne King, McGill University
- 2:00 - 2:10 PM O1-4 REGIONAL, AGE, AND SEX-SPECIFIC EFFECTS OF EARLY LIFE STRESS ON CENTRAL OXYTOCIN IN LONG-EVANS RATS, 🦋**Hannah Lapp**, University of Massachusetts, Boston; Celia Moore, University of Massachusetts-Boston
- 2:10 - 2:20 PM O1-5 FETAL AUTONOMIC FUNCTION AND INFANT COGNITIVE OUTCOME; EFFECTS OF PRENATAL EXPOSURE TO ALCOHOL AND SMOKING, 🦋**Lauren Shuffrey**, Columbia University Medical Center; J. David Nugent, New York State Psychiatric Institute; Margaret Shair, New York State Psychiatric Institute Columbia University; Timothy Ochoa, Columbia University Medical Center; Emila Vignola, Johns Hopkins School of Public Health; Julia Zavala, Mercy College; Hein Odendaal, Stellenbosch University; Michael M. Myers, New York State Psychiatric Institute; William Fifer, Columbia University
- 2:20 - 2:30 PM Discussion, Q&A
- 2:30 - 3:00 PM Coffee Break - Visit the Exhibitors - Kon Tiki/Aviary Foyer

3:00 - 4:00 PM	ISDP PRESIDENT'S ADDRESS: Nathan A. Fox , Distinguished University Professor, University of Maryland, Child Development Lab: College Park, USA
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4:15 - 5:15 PM	O2 Oral session 2: Early interaction
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4:15 - 4:25 PM O2-1 WITHDRAWAL EMOTION DISPLAY PREDICTS HEIGHTENED PHYSIOLOGICAL REACTIVITY FOR CHILDREN WITH DISMISSING ATTACHMENT, **Alison Goldstein**, University of California, Irvine; Salvatore Panzariello, University of Trento; Patricia Smiley, Pomona College; Gianluca Esposito, University of Trento; Jessica Borelli, University of California, Irvine

4:25 - 4:35 PM O2-2 IN VIVO RESPONSES TO INFANT VOCALIZATIONS IN THE PARAVENTRICULAR HYPOTHALAMUS, 🦋**Silvana Valtcheva**, New York School of Medicine; Robert Froemke, NYU School of Medicine

4:35 - 4:45 PM O2-3 PHYSIOLOGICAL SYNCHRONY BETWEEN INFANTS AND MOTHERS IN THE STILL FACE PARADIGM, **Drew Abney**, Indiana University; Elizabeth daSilva, Indiana University; Bennett Bertenthal, Indiana University

- 4:45 - 4:55 PM O2-4 INTERRUPTION OF INTERACTIONS BY TEXTING IMPAIRS LEARNING IN 19-MONTH-OLD-INFANTS, **Carolyn Konrad**, Ruhr-Universität Bochum; Melanie Berger, Ruhr-Universität Bochum; Gina Hassel, Ruhr-Universität Bochum; Rachel Barr, Georgetown University
- 4:55 - 5:05 PM O2-5 PARENTAL WARMTH AND RESPONSIVITY BUFFERS MALADAPTIVE DIURNAL CORTISOL PATTERNING IN INFANTS AND TODDLERS FROM LOW INCOME, HIGH RISK FAMILIES, **Lisa Schlueter**, Children's Hospital Los Angeles, Saban Research Institute; Sarah Watamura, University of Denver
- 5:05 - 5:15 PM Discussion, Q&A

5:30 - 7:30 PM	P2 Poster Session 2, Cash Bar Reception
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PARENTING AFTER STRESS: THE EFFECT OF GESTATIONAL ADVERSITY ON THE TRANSITION TO, AND PERSISTENCE OF, MOTHERHOOD. (P2-01)

Sarah Altmann; Rick Richardson, University of New South Wales

ANXIETY FACILITATES AFFECTIVE THEORY OF MIND IN TYPICALLY DEVELOPING ADULTS BUT NOT ADULTS WITH AUTISM SPECTRUM DISORDER (P2-02)

Melody Altschuler; Kathryn McNaughton; Talena Day; Tatiana Winkelman; Dylan Stahl; Simone Hasselmo; Taylor Halligan; Brianna Lewis; Julie Wolf; Ela Jarzabek; Kimberly Ellison; Adam Naples; James McPartland, Yale Child Study Center

EARLY ADVERSITY AND CURRENT LIFE STRESS AS PREDICTORS OF CORTISOL DYSREGULATION (P2-03)

Lisa Badanes; Breanna Flores; Tayler Hanson, Metropolitan State University of Denver

POORER FLUID INTELLIGENCE AT 8 YRS IS ASSOCIATED WITH HIGHER NEONATAL PAIN-RELATED STRESS IN GIRLS BORN VERY PRETERM (P2-04)

Mark Bichin, British Columbia Childrens Hospital Research Institute; Cecil Chau, BC Children's Hospital Research Institute; Vann Chau, Sickkids Hospital; Anne Synnes, British Columbia Childrens Hospital Research Institute; Steven Miller, Hospital of Sick Kids; Ruth Grunau, University of British Columbia

LONGITUDINAL CHANGE IN AMYGDALA REACTIVITY TO EMOTIONAL FACES FROM EARLY CHILDHOOD THROUGH YOUNG ADULTHOOD (P2-05)

Paul Bloom, Columbia University; Michelle VanTieghem, Columbia University; Laurel Gabard-Durnam, Boston Children's Hospital; Dylan Gee, Yale University; Jessica Flannery, University of Oregon; Christina Caldera, UCLA; Bonnie Goff, UCLA; Eva Telzer, UNC Chapel Hill; Kathryn Humphreys, Vanderbilt University; Mor Shapiro, Kaiser Permanente Woodland Hills; Nim Tottenham, Columbia University

CHILDHOOD CYTOKINE PROFILES ARE ALTERED BY PRENATAL ALCOHOL EXPOSURE: RISK VS. RESILIENCE SIGNATURES (P2-06)

Tamara Bodnar, University of British Columbia; Charlis Rainekei, University of British Columbia; Wladimir Wertelecki, University of California San Diego; Lyuba Yevtushok, International Omni-Net for Children Charitable Fund; Larisa Plotka, Rivne Oblast Medical Diagnostic Center and OMNI-Net Center; Natalya Zymak-Kakutnya, International Omni-Net for Children Charitable Fund; Alan Wells, University of California San Diego; Gordon Honerkamp-Smith, University of California San Diego; Claire Coles, Emory; Julie Kable, Emory; Christina Chambers, UCSD School of Medicine; Joanne Weinberg, University of British Columbia

CORTISOL AND HEART-RATE REACTIVITY AND REGULATION PREDICT EXECUTIVE FUNCTIONS IN LOW-INCOME CHILDREN (P2-07)

Stephen Braren, New York University; Annie Brandes-Aitken, New York University; Meriah DeJoseph, University of Minnesota; Clancy Blair, NYU

CHILDHOOD ADVERSITY, CORTISOL AWAKENING RESPONSE, AND MULTISYSTEMIC THERAPY OUTCOMES (P2-08)

April Brown, Emory University

OVER STRESSED AND OVERWEIGHT? NEIGHBORHOOD STRESS MODERATES THE RELATIONSHIP BETWEEN BIOLOGICAL STRESS RESPONSE AND BMI IN URBAN YOUTH (P2-09)

Bridget Brush, DePaul University; Claire Trainor, DePaul University; Jocelyn Carter, DePaul University; Kathryn Grant, DePaul University; Emma Adam, Northwestern University

DEVELOPMENTAL ASTHMA LEADS TO LONG-TERM CHANGES IN LUNG FUNCTION, ANXIETY-RELATED BEHAVIOR, AND GENE EXPRESSION RELATED TO EMOTION REGULATION (P2-10)

Sonia Cavigelli, Pennsylvania State University; Jasmine Caulfield, The Pennsylvania State University; Michael Caruso, Pennsylvania State University; Rebecca Crouse, Penn State University; Nicole Chirichella, Tulane University; Laura Klein, Pennsylvania State Univ; Timothy Craig, Pennsylvania State Univ - Medical Center; Robert Bonneau, Pennsylvania State Univ - Medical Center; Avery August, Cornell University

LET'S LOOK AT BRAIN-GUT INTERACTION FROM A FORENSIC SCIENTIST'S PERSPECTIVE (P2-11)

Filiz Çevik, Istanbul University, Institute of Forensic Sciences

NEURAL CORRELATES OF EMOTIONAL PICTURE PROCESSING IN SCHOOL-AGED CHILDREN (P2-12)

Mariya Chernenok, University of California-Davis; Jillian Mclenithan, University of California-Davis; Courtney Jimenez, University of California-Davis; Jessica Burris, Rutgers University; Lindsey Bowman, UC Davis; Susan Rivera, Univ California, Davis

PARENTING MATTERS! ENGAGEMENT, MATERNAL STRESS, AND EMOTIONAL REACTIVITY IN PRESCHOOL-AGED CHILDREN (P2-13)

Madeleine Cohen, Cassandra Hendrix; Patricia Brennan, Emory University

NEURAL MECHANISMS OF STRESSOR CONTROLLABILITY ACROSS HUMAN DEVELOPMENT: PRELIMINARY FINDINGS (P2-14)

Emily Cohodes, Yale University; Paola Odriozola, Yale University; Jeffrey Mandell, Yale University; Mackenzie Smith, Yale University; Camila Caballero, Yale University; Hannah Spencer, Yale University; Catherine Hartley, New York University; Dylan Gee, Yale University

CORTISOL MODERATES THE ASSOCIATION BETWEEN CHRONIC POVERTY AND SOCIOEMOTIONAL PROBLEMS IN EARLY CHILDHOOD (P2-15)

Meriah DeJoseph, University of Minnesota; Rosemarie Perry, New York University; Stephen Braren, New York University; Clancy Blair, NYU

EARLY LIFE ADVERSITY, TEMPERAMENT AND CARDIOVASCULAR BLOOD PRESSURE REACTIVITY AND RECOVERY (P2-16)

Shruthi Venkatesh, Berger Institute for Work, Family & Children; Nadya Dich, University of Copenhagen; Thomas Fuller-Rowell, Auburn University; Gary Evans, Cornell University; Stacey Doan, Claremont Mckenna College

CORTISOL REACTIVITY IN PRESCHOOLERS: THE ROLE OF SETTING AND CHILD-RELATED FACTORS (P2-18)

🦋 **Amy Dominguez**, University of Denver; Marina Mendoza, Denver Preschool Program; Lisa Badanes, Metropolitan State University of Denver; Julia Dmitrieva, University of Denver; Sarah Watamura, University of Denver

IMPACT OF CHRONIC EARLY LIFE ADVERSITY ON FEAR EXTINCTION IN JUVENILE AND ADOLESCENT RATS (P2-19)

🦋 **Katherine Drummond**, The Florey Institute of Neuroscience and Mental Health; Geoffrey Faulkner, University of Queensland; Marnie Blewitt, Walter and Eliza Hall Institute; Jee Hyun Kim, The Florey Institute of Neuroscience and Mental Health

EARLY LIFE STRESS, PROINFLAMMATORY BIAS, AND SOMATIC COMPLAINTS IN ADOLESCENCE (P2-20)

🦋 **Melissa Engel**, University of Minnesota; Bonny Donzella, University of Minnesota Twin Cities; Chris Coe, University of Wisconsin; Megan Gunnar, University of Minnesota

PARENTAL ANXIETY MEDIATES THE ASSOCIATION BETWEEN NORMATIVE STRESS EXPOSURE AND PRESCHOOL BEHAVIOR (P2-21)

🦋 **Andrea Fields**, Columbia University; Chelsea Harmon, Columbia University; Zoe Lee, Columbia University; Jennifer Louie, Kaiser Permanente; Nim Tottenham, Columbia University

PREECLAMPSIA AND POLYCYSTIC OVARY SYNDROME ARE ASSOCIATED WITH INCREASED AUTISM RISK: THE ROLE OF MATERNAL TESTOSTERONE IN MALE SUCEPTIBILITY (P2-22)

🦋 **Morgan Firestein**, Columbia University; Ronald Wapner, Columbia University Medical Center; Russell Romeo, Barnard College of Columbia University; Frances Champagne, University of Texas at Austin

THE EFFECTS OF EARLY LIFE STRESS ON STRIATAL DOPAMINE AND DEPRESSIVE-LIKE BEHAVIOR (P2-23)

Meghan Gallo; Haley Goodwill; Kevin Bath, Brown University

INTERPERSONAL STRESS AND SUBSEQUENT SLEEP DISTURBANCE MEDIATE THE RELATIONSHIP BETWEEN SEXUAL MINORITY STATUS AND SUICIDALITY IN YOUTH (P2-24)

Savannah Gibbs; Joseph Chandler, Birmingham-Southern College

EARLY LIFE STRESS LEADS TO SEX-SPECIFIC ALTERATIONS IN THE FORMATION OF PERINEURONAL NETS AROUND PARVALBUMIN-EXPRESSING INTERNEURONS IN THE DEVELOPING RAT PREFRONTAL CORTEX (P2-25)

🦋 **Kelsea Gildawie**; Jennifer Honeycutt; Heather Brenhouse, Northeastern University

PROMOTING SHY TODDLERS' PHYSIOLOGICAL REGULATION DURING LOW- AND MODERATELY-THREATENING SOCIAL CONTEXTS (P2-26)

Jessica Grady, University of the Pacific

DEPRESSIVE SYMPTOMS, MELATONIN RECEPTOR 1B GENE RS10830963 POLYMORPHISM AND GLYCEMIC TRAITS (P2-28)

Kadri Haljas, University of Helsinki; Jari Lahti, University of Helsinki; Tiinamaija Tuomi, Finnish Institute for Molecular Medicine, University of Helsinki; Bo Isomaa, Folkhälsan Research Center; Johan Eriksson, University of Helsinki; Leif Groop, Finnish Institute for Molecular Medicine, University of Helsinki; Katri Raikonen, University of Helsinki

MATERNAL TRAUMA HISTORY, PRENATAL GLUCOCORTICOIDS, MATERNAL-INFANT ATTACHMENT, AND INFANT TEMPERAMENT (P2-29)

📍 **Jennifer Hambleton**; Hillary Swann; Nicki Aubuchon-Endsley, Idaho State University

HOT AND BOTHERED? AN ANALYSIS OF THERMAL AND DYADIC CONTRIBUTIONS TO ANXIETY IN THE OPEN FIELD (P2-30)

Christopher Harshaw, University of New Orleans; Drew Abney, Indiana University, Bloomington

SENSITIZATION OF DEPRESSIVE-LIKE BEHAVIOR FOLLOWING REPEATED ATTACHMENT-FIGURE SEPARATION IS ASSOCIATED WITH ALTERED EXPRESSION OF HYPOTHALAMIC NEUROIMMUNE SIGNALING MOLECULES (P2-31)

Michael Hennessy, Wright State University; Patricia Schiml, Wright State University; Joshua Sensenbaugh, Wright State University; Darci Gallimore, Wright State University; Alexis Garybush, Wright State University; Jamie Mondello, Binghamton University; Terrence Deak, Binghamton University

PREFRONTAL AND CHOLINERGIC MECHANISMS OF IMPAIRED COGNITION AFTER DEVELOPMENTAL ALCOHOL EXPOSURE IN RATS (P2-32)

📍 **Nicholas Heroux**, University of Delaware; Patrese Robinson-Drummer, New York University Medical Center; Jeffrey Rosen, University of Delaware; Mark Stanton, University of Delaware

ALTERED CORTICOLIMBIC CONNECTIVITY ACROSS DEVELOPMENT IN A RAT MODEL OF EARLY ADVERSITY: EVIDENCE FROM FMRI AND NEUROANATOMICAL TRACING SUGGEST SEX-DEPENDENT EFFECTS OF EARLY EXPERIENCE (P2-33)

📍 **Jennifer Honeycutt**; Camila Demaestri; Xuezhu Cai; Rahul Mehta; Praveen Kulkarni; Craig Ferris; Heather Brenhouse, Northeastern University

HISTORY OF MOOD DISORDER DETERMINES ASSOCIATIONS BETWEEN PERINATAL REPRODUCTIVE HORMONES AND RISK FOR POSTPARTUM DEPRESSION (P2-34)

📍 **Mariann Howland**, University of California, Irvine; Laura Glynn, Chapman University

MATERNAL SEPARATION ALTERS DISTRIBUTION OF ISOLATION USV TYPES (P2-35)

Jasmine Kaidbey, Columbia University; Manon Ranger, Columbia University; Michael M. Myers, New York State Psychiatric Institute; Muhammad Anwar, Columbia University; Alexandra Schulz, Columbia University; Robert Ludwig, Columbia University; Martha Welch, Columbia University

MATERNAL EARLY PREGNANCY BODY MASS INDEX AND DIURNAL CORTISOL IN YOUNG ADULT OFFSPRING (P2-36)

Satu Kumpulainen, University of Helsinki; Kati Heinonen, University of Helsinki; Nina Kaseva, National Institute for Health and Welfare; Sture Andersson, Children's Hospital, Helsinki University Hospital and University of Helsinki; Aulikki Lano, Children's Hospital, Helsinki University Hospital and University of Helsinki; Rebecca Reynolds, University of Edinburgh; Dieter Wolke, University of Warwick; Eero Kajantie, National Institute for Health and Welfare; Johan Eriksson, University of Helsinki; Katri Raikkonen, University of Helsinki

FEAR SPECIFIC ATTENTIONAL BIASES IN PRESCHOOL AGED CHILDREN (P2-37)

📍 **Carolyn Lasch**; Laura Thomas; Jed Elison, University of Minnesota, Twin Cities

RECOVERY MATTERS: INVESTIGATING THE FULL PHYSIOLOGICAL RESPONSE PROFILE IN RELATION TO MARKERS OF PSYCHOPATHOLOGY (P2-38)

📍 **Keira Leneman**; Alyssa Palmer; Rebecca Distefano; Amanda Grenell; Daniel Berry, University of Minnesota

EPIGENETIC CHANGES IN HPA AXIS ASSOCIATED WITH INSTITUTIONAL REARING AND BEHAVIOR PROBLEMS IN YOUNG CHILDREN (P2-39)

🦋 **Rebecca Lipschutz**, University of Houston; Johanna Bick; Oxana Naumova, University of Houston, TIMES; Marina Zhukova, University St. Petersburg; Irina Ovchinnikova, University St. Petersburg; Elena Grigorenko, University of Houston

FRONTAL EEG ASYMMETRY MODERATES THE ASSOCIATIONS BETWEEN NEGATIVE TEMPERAMENT AND BEHAVIORAL PROBLEMS DURING MIDDLE CHILDHOOD (P2-40)

🦋 **Ran Liu**; Martha Ann Bell, Virginia Tech

THE RELATIONSHIP BETWEEN INFANT'S EEG ASYMMETRY AND POSITIVE AFFECT SYNCHRONY AMONG MOTHERS WITH A HISTORY OF DEPRESSION AND THEIR INFANTS (P2-41)

Meeka Maier, Emory University; Sherryl Goodman, Emory University; Martha Ann Bell, Virginia Tech; Jessica Vissicchio, Emory University

EARLY LIFE STRESS IS ASSOCIATED WITH PRECOCIOUS AMYGDALA DEVELOPMENT AND DELAYED PREFRONTAL DEVELOPMENT (P2-42)

Gabriela Manzano Nieves; Angelica Johnsen; Marilyn Bravo; Kevin Bath, Brown University

EFFECTS OF SOCIAL-EMOTIONAL DEPRIVATION AND EARLY INTERVENTION ON INFANT DNA METHYLATION (P2-43)

🦋 **Christiana Martin**, University of Delaware; Tiffany Doherty, University of Delaware; Tania Roth, University of Delaware; Rifkat Muhamedrahimov, St. Petersburg State University; Daria Chernego, St. Petersburg State University; Julie Hoye, University of Delaware; Mary Dozier, University of Delaware

RELATIONSHIP BETWEEN STEREOTYPIC MOVEMENT DISORDER AND OBSESSIVE COMPULSIVE DISORDER (P2-44)

Karli Martin; Isaac Tourgeman, Albizu University

POLYGENIC RISK MODERATES INFLUENCE OF MATERNAL PRENATAL STRESS ON OFFSPRING INTERNALIZING SYMPTOMS AT AGE 20 (P2-45)

🦋 **Brooke McKenna**, Emory University; Constance Hammen, UCLA; Patricia Brennan, Emory University

INATTENTION AND HYPERACTIVITY SYMPTOMS IN ADOLESCENT MOTHERS. DO THEY INCREASE RISK OF TEENAGE PREGNANCY? (P2-46)

Francisco Meillon, Universidad Panamericana; Vania Aldrete-Cortez, Universidad Panamericana; Silvia Tafoya, Universidad Nacional Autónoma de México; Adrián Poblano, Instituto Nacional de Rehabilitación; Rodrigo Ayala, Hospital CimiGen

DIFFERENTIAL INVOLVEMENT OF AMYGDALAR NMDA RECEPTORS ACROSS VARIANTS OF CONTEXTUAL FEAR CONDITIONING IN ADOLESCENT RATS (P2-47)

🦋 **Lauren Miller**; Nicholas Heroux; Mark Stanton, University of Delaware

MATERNAL CARE CONTROLS THE DEVELOPMENT OF FEAR LEARNING IN ADOLESCENT NONHUMAN PRIMATES: RELATIONSHIP WITH PREFRONTAL 5HT1A RECEPTOR BINDING & GUT MICROBIOME (P2-48)

🦋 **Elyse Morin**; Melanie Pincus; Alison Wakeford; Brittany Howell; Dora Guzman; Erin Siebert; Andrew Kazama; Jonathon Nye; Mar Sanchez, Emory University

PATERNAL ALCOHOL EXPOSURE REDUCES REINSTATEMENT OF ALCOHOL SEEKING IN RAT OFFSPRING (P2-49)

Steven Nieto; Therese Kosten, University of Houston

POST-PARTUM ANXIETY: EXPLORING THE DIFFERENCES BETWEEN PRIMIPAROUS AND MULTIPAROUS WOMEN ACROSS SOME PSYCHOSOCIAL FACTORS (P2-50)

🌐 **Ajoke Olatunji**, Federal University Oye Ekiti

SEX DIFFERENCES IN DORSAL AND VENTRAL HIPPOCAMPUS INVOLVEMENT DURING EXTINCTION IN JUVENILE RATS. (P2-51)

🌐 **Chun Hui Park**, University of Melbourne/Florey Institute of Neuroscience and Mental Health; Despina Ganella, Florey Institute of Neuroscience and Mental Health; Jee Hyun Kim, Florey Institute of Neuroscience and Mental Health

ADOLESCENT SEX DIFFERENCES IN FEAR EXTINCTION (P2-52)

🌐 **Christina Perry**, Florey Institute of Neuroscience and Mental Health; Terence Pang, Florey Institute of Neuroscience and Mental Health; Ly Nguyen, University of Melbourne; Despina Ganella, Florey Institute of Neuroscience and Mental Health; Sarah Whittle, University of Melbourne; Du Xin, Monash University; Jee Hyun Kim, Florey Institute of Neuroscience and Mental Health

A CROSS-SPECIES EXAMINATION OF THE BIO-BEHAVIORAL IMPACT OF POVERTY ON EXECUTIVE FUNCTION (P2-53)

🌐 **Rosemarie Perry**, New York University; Stephen Braren, New York University; Gabriella Pollonini, NYU; Meriah DeJoseph, University of Minnesota; Cristina Alberini, New York University; Regina Sullivan, Nathan Kline Institute & NYU School Medicine; Clancy Blair, NYU

COREGULATION OF RESPIRATORY SINUS ARRHYTHMIA DURING MOTHER-CHILD INTERACTION. (P2-54)

🌐 **Nicole Perry**, University of Minnesota; Christopher Desjardins, Office of Research and Assessment Services; Susan Calkins, University of North Carolina at Greensboro; Martha Ann Bell, Virginia Tech

EMOTION REGULATION AND CORTISOL REACTIVITY DURING A SOCIAL EVALUATIVE STRESSOR: A STUDY OF INTERNATIONALLY-ADOPTED YOUTH (P2-55)

🌐 **Nicole Perry**, University of Minnesota; Anna Parenteau, University of Minnesota Twin Cities; Bonny Donzella, University of Minnesota Twin Cities; Megan Gunnar, University of Minnesota

PRENATAL CORTISOL EXPOSURES PREDICT FETAL AND INFANT RESPONSE TO CHALLENGE (P2-56)

Gage Peterson, Chapman University; Laurel Hicks, University of Denver; Mariann Howland, University of California, Irvine; Amy Anderson, University of Denver; Elysia Davis, University of Denver; Curt Sandman, University of California, Irvine; Laura Glynn, Chapman University

PHARMACOLOGICAL PREVENTION OF ABERRANT DNA METHYLATION INDUCED BY PERINATAL MALTREATMENT (P2-57)

🌐 **Natalia Phillips**; Tiffany Doherty; Tania Roth, University of Delaware

TOO SHY TO SPEAK? DISTINGUISHING SELECTIVE MUTISM AND SOCIAL ANXIETY DISORDER IN CHILDREN (P2-58)

🌐 **Kristie Poole**; Charles Cunningham; Angela McHolm; Louis Schmidt, McMaster University

MATERNAL POSTPARTUM SSRI INFLUENCES OFFSPRING MICROBIOME AND NEUROINFLAMMATION IN A SEX-SPECIFIC MANNER (P2-59)

🌐 **Wansu Qiu**, University of British Columbia; Kim Go, University of British Columbia; Champika Fernando, University of Saskatchewan; Arianne Albert, BC Women's Research Institute; Janet Hill, University of Saskatchewan; Liisa Galea, University of British Columbia

ACUTE EARLY LIFE STRESS YIELDS INCUBATION OF FEAR, RESISTANCE TO EXTINCTION, AND DECREASED SOCIAL INTERACTION (P2-60)

Jennifer Quinn, Miami University

THE EFFECTS OF JUVENILE STRESS ON BEHAVIORAL TAGGING AND ASSOCIATIVE PLASTICITY (P2-61)

Radha Raghuraman; Anoop Manakkadan; Sreedharan Sajikumar, National University of Singapore

PRENATAL ALCOHOL EXPOSURE AND EARLY-LIFE ADVERSITY: UNIQUE AND INTERACTIVE EFFECTS ON EMOTIONAL REGULATION AND IMMUNE FUNCTION (P2-62)

Charlis Raineki; Tamara Bodnar; Parker Holman; Joanne Weinberg, University of British Columbia

EARLY MATERNAL DEPRIVATION DECREASES PREFRONTAL EEG POWER IN RAT PUPS (P2-63)

Manon Ranger, Columbia University; Michael M. Myers, New York State Psychiatric Institute; Muhammad Anwar, Columbia University; Jasmine Kaidbey, Columbia University; Philip Grieve, Columbia University; Alexandra Schulz, Columbia University; Judith Austin, Columbia University; Robert Ludwig, Columbia University Medical Center; Martha Welch, Columbia University Medical Center

EARLY LIFE ADVERSITY WITH HEIGHT STUNTING IS ASSOCIATED WITH CARDIOMETABOLIC RISK IN ADOLESCENTS INDEPENDENT OF BMI (P2-64)

Brie Reid, University of Minnesota; Michelle Harbin, University of Minnesota, Twin Cities; Jessica Arend, University of Minnesota, Twin Cities; Aaron Kelly, University of Minnesota, Twin Cities; Donald Dengel, University of Minnesota, Twin Cities; Megan Gunnar, University of Minnesota

MATERNAL REGULATION OF THREAT, DOPAMINE, AND VTA-AMYGDALA CONNECTIVITY IN DEVELOPING RAT PUPS (P2-65)

Patrese Robinson-Drummer, New York University Medical Center; Maya Opendak, New York University Langone Medical Center; Regina Sullivan, Nathan Kline Institute & NYU School Medicine

ASSOCIATIONS OF PRENATAL MATERNAL EXPOSURE TO SSRIS AND FUNCTIONAL CONNECTIVITY ORGANIZATION UNDERLYING EMOTION PERCEPTION IN 8 MONTH OLD INFANTS – PRELIMINARY RESULTS (P2-66)

Naama Rotem-Kohavi; Naznin Virji-Babul; Tim Oberlander, University of British Columbia

GRAPH ANALYSIS OF RESTING STATE FMRI FOLLOWING MATERNAL SSRI EXPOSURE IN THE NEONATAL BRAIN (P2-67)

Naama Rotem-Kohavi, University of British Columbia; Lynne Williams, BC Children's Hospital; Naznin Virji-Babul, University of British Columbia; Angela Muller, University of British Columbia; Bruce Bjornson, University of British Columbia; Ursula Brain, BC Children's Hospital; Steven Miller, Hospital of Sick Kids; Ruth Grunau, University of British Columbia; Tim Oberlander, University of British Columbia

MATERNAL PRENATAL OXYTOCIN AND ANXIOUS ATTACHMENT STYLE ARE POSITIVELY ASSOCIATED WITH SYMPTOMS OF DEPRESSION AND ANXIETY (P2-68)

Darby Saxbe, University of Southern California; Mona Khaled, University of Southern California; Katelyn Horton, University of Southern California; Armando Mendez, University of Miami

PARENTAL WARMTH AND RESPONSIVITY IS ASSOCIATED WITH DIFFERENTIAL METHYLATION PATTERNS FOR INFANTS AND TODDLERS FROM LOW INCOME, HIGH RISK FAMILIES (P2-69)

Lisa Schlueter, Children's Hospital Los Angeles, Saban Research Institute; Sarah Watamura, University of Denver

GETTING TO KNOW YOU: SELF-REPORTED SOCIAL ANXIETY AT AGE 12 PREDICTS RESPIRATORY SINUS ARRHYTHMIA DURING AN UNFAMILIAR SOCIAL INTERACTION AT AGE 15 (P2-70)

🦋 **Kaylee Seddio**, University of Maryland - College Park; Gabriela Suarez, University of Maryland - College Park; Sabine Huber, University of Maryland; Nathan Fox, University of Maryland

CONTEXTUAL FEAR MEMORY FORMATION PROMOTES PSD-95 PHOSPHORYLATION AND MODULATES AMPAR SUBUNITS DIFFERENTIALLY BETWEEN ADULT AND JUVENILE RATS (P2-71)

Harry Shair, New York State Psychiatric Institute; Roseanna Zanca, CUNY Hunter College; Shirley Sanay, New York State Psychiatric Institute; Edgar Rodriguez, Hunter College; Peter Serrano, Hunter College

FOSTER PARENT SENSITIVITY AND YOUNG CHILDREN'S DIURNAL CORTISOL RHYTHMS (P2-72)

Aline Szenczy, Stony Brook University; Kristin Bernard, Stony Brook University; Lee Raby, University of Utah; Mallory Garnett, University of Delaware; Mary Dozier, University of Delaware

CORTISOL AND SOCIOECONOMIC STATUS IN EARLY CHILDHOOD: A MULTIDIMENSIONAL ASSESSMENT (P2-73)

Amanda Tarullo, Boston University; Charu Tuladhar, Boston University; Katie Kao, Boston University; Jerrold Meyer, University of Massachusetts

DIFFERENTIAL EFFECTS OF EARLY LIFE STRESS ON COGNITIVE CONTROL AND ANXIETY SYMPTOMS (P2-74)

Yael Waizman; Joao Guassi-Moreira; Emilia Ninova; Jennifer Silvers, University of California, Los Angeles

EFFECTS OF PRECONCEPTIONAL AND GESTATIONAL OPIOID (BUPRENORPHINE) EXPOSURE IN RATS ON NEURODEVELOPMENT IN MALE AND FEMALE OFFSPRING (P2-75)

🦋 **Chela Wallin**; Chelsea Roberge; Lauren Richardson; Scott Bowen; Susanne Brummelte, Wayne State University

DIFFERENTIAL RESPONSE IN MALE AND FEMALE INFANT RATS TO MATERNAL PRESENCE DURING FEAR CONDITIONING (P2-76)

🦋 **Amanda White**; Jacek Debiec, University of Michigan

ANTENATAL EXPOSURE TO SYNTHETIC GLUCOCORTICOID HAS ADVERSE EFFECTS ON OFFSPRING MENTAL HEALTH (P2-77)

Elina Wolford, University of Helsinki; Marius Lahti-Pulkkinen, University of Helsinki; Polina Girchenko, University of Helsinki; Jari Lipsanen, University of Helsinki; Soile Tuovinen, University of Helsinki; Jari Lahti, University of Helsinki; Kati Heinonen, University of Helsinki; Kadri Haljas, University of Helsinki; Esa Hämäläinen, University of Helsinki; Eero Kajantie, National Institute for Health and Welfare; Anu-Katriina Pesonen, University of Helsinki; Pia Villa, Helsinki University Hospital; Hannele Laivuori, University of Tampere; Rebecca Reynolds, University of Edinburgh; Katri Raikkonen, University of Helsinki

OXYCODONE AND THE FEMALE RAT: DEVELOPMENT OF AN ORAL SELF-ADMINISTRATION PROTOCOL AND EFFECTS ON INFANT BEHAVIOR AND COMMUNICATION (P2-78)

🦋 **Giulia Zanni**; Matthew DeSalle; Ashlee Dougher; Jahnvi Chandar; Hannah Deutsch; Gordon A. Barr; Amelia Eisch, Children's Hospital of Philadelphia

THE CONTEXT-DEPENDENT NATURE OF AUTONOMIC NERVOUS SYSTEM FUNCTIONING: RESPONSES TO EMOTIONAL AND COGNITIVE CHALLENGES DURING EARLY CHILDHOOD (P2-79) 🦋**Selin Zeytinoglu**; Susan Calkins; Esther Leerkes, University of North Carolina-Greensboro

DEVELOPMENTAL CHANGES IN SKIN CONDUCTANCE AMONG CHILDREN WITH ELEVATED EXTERNALIZING SYMPTOMS (P2-80)

🦋**Xutong Zhang**; Lisa Gatzke-Kopp, Pennsylvania State University

LINKING SHYNESS, PHYSIOLOGICAL REGULATION, AND OBSERVED BEHAVIOR IN PRESCHOOLERS (P2-81)

Raha Hassan; Louis Schmidt, McMaster University

INTERSENSORY REDUNDANCY, SELECTIVE ATTENTION, AND NEURAL CORRELATES OF PERCEPTUAL PROCESSING IN INFANCY (P2-82)

🦋**Kelly Roth**, University of Tennessee Knoxville; Lorraine Bahrack, Florida International University; Robert Lickliter, Florida International University; James Todd, Florida International University; Greg Reynolds, University of Tennessee

THE EFFECTS OF SPATIAL CUEING ON NEURAL CORRELATES OF INFANT ATTENTION AND PERCEPTUAL PROCESSING (P2-83)

🦋**William Chollman**, University of Tennessee Knoxville; Emily Grimes, University of Tennessee; Kelly Roth, University of Tennessee Knoxville; Caitlin Berosh, University of Tennessee; Mary Bennett, University of Tennessee; Mikhayla Stover, University of Tennessee; Greg Reynolds, University of Tennessee

THE ROLE OF BOUNDARIES IN SPATIAL COGNITION: A COMPARATIVE APPROACH (P2-84)

Sang Ah Lee, Korea Advanced Institute of Science and Technology

Friday, November 2, 2018

7:00 – 8:00 AM **Kon Tiki/Aviary Ballroom Foyer** – Continental Breakfast

8:00 – 8:30 AM ISDP Members Business Meeting and Student/Postdoc Travel Awards Distributed

8:30 – 10:00 AM O3 Oral session 3: Brief talks on early environment
Moderator: Nathan Fox, University of Maryland

8:30 - 8:40 AM O3-1 PSYCHOSOCIAL STRESS IN INFANCY PREDICTS GREATER CARDIOMETABOLIC RISK IN ADOLESCENCE: A PROSPECTIVE LONGITUDINAL STUDY OF CHILEAN INFANTS, 🦋**Jenalee Doom**, University of Michigan; Brie Reid, University of Minnesota; Estela Blanco, Universidad de Chile; Raquel Burrows, Universidad de Chile; Betsy Lozoff, University of Michigan; Sheila Gahagan, University of California, San Diego

8:40 - 8:50 AM O3-2 DEVELOPMENTAL PSYCHOPATHOLOGY AFTER MALTREATMENT AND DISORDERED ATTACHMENT WITHIN THE STRANGE SITUATION TEST: INSIGHTS FROM AN ANIMAL MODEL, 🦋**Maya Opendak**, New York University Langone Medical Center; Emma Theisen, New York University; Kaitlin Hollis, Columbia University; Mary Dozier, University of Delaware; Donald Wilson, University of Oklahoma; Regina Sullivan, Nathan Kline Institute & NYU School Medicine

- 8:50 - 9:00 AM O3-3 DEVELOPMENTAL CONSEQUENCES OF MALTREATMENT: MULTI-LEVEL PATHWAYS BETWEEN EXTERNALIZING BEHAVIOR, CORTISOL, AND PEER AGGRESSION, 🦋**Carrie DePasquale**, Institute of Child Development; Elizabeth Handley, Mt. Hope Family Center; Dante Cicchetti, University of Minnesota
- 9:00 - 9:10 AM O3-4 INTERPLAY BETWEEN SLEEP, BEHAVIORAL MATURATIONAL STATUS AND GUT BACTERIA IN INFANT DEVELOPMENT, 🦋**Sarah Schoch**, University Hospital Zurich; Josué Castro-Mejia, University of Copenhagen; Bingfeng Leng, BGI Shenzheng; Witold Kot, Aarhus University; Lukasz Krych, University of Copenhagen; Dennis Nielsen, University of Copenhagen; Salome Kurth, University Hospital Zurich
- 9:10 - 9:20 AM O3-5 VISUAL PLASTICITY: THE ROLE OF EARLY ENVIRONMENT IN FRUIT FLY VISUAL DEVELOPMENT, 🦋**John Currea**, Florida International University; Jamie Theobald, Florida International University; Robert Lickliter, Florida International University
- 9:20 - 9:30 AM O3-6 CHRONIC CHEMOGENETIC ACTIVATION OF FOREBRAIN EXCITATORY NEURONS IN POSTNATAL LIFE EVOKES LONG-LASTING BEHAVIORAL CHANGES, 🦋**Sthitapranjya Pati**, Tata Institute of Fundamental Research; Sonali Salvi, Tata Institute of Fundamental Research; Praachi Tiwari, Tata Institute of Fundamental Research; Toshali Banerjee, Tata Institute of Fundamental Research; Sourish Mukhopadhyay, Scripps Research Institute; Vidita Vaidya, Tata Institute of Fundamental Research
- 9:30 - 9:40 AM O3-7 THE EFFECTS OF SOCIODEMOGRAPHIC RISK, ADVERSITY, AND HOMELESSNESS ON RESPIRATORY SINUS ARRHYTHMIA, 🦋**Alyssa Palmer**; Rebecca Distefano; Keira Leneman; Amanda Grenell; Ann Masten; Daniel Berry, University of Minnesota
- 9:50 – 9:50 AM O3-8 INCONSISTENT PATTERN OF ATTENTION TOWARDS NEGATIVE EMOTION IN CHILDREN FROM LOW SES BACKGROUNDS, 🦋**Jessica Burris**, Rutgers University; Denise Oleas, Rutgers University; Koraly Perez-Edgar, The Pennsylvania State University; Kristin Buss, Penn State; Vanessa LoBue, Rutgers University
- 9:50 – 10:00 AM Discussion, Q&A
- 10:00 - 10:30 AM Coffee Break - Visit the Exhibitors - Kon Tiki/Aviary Foyer
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| 10:30 – 12:00 PM | S4 YOUNG INVESTIGATOR SYMPOSIUM: EARLY LIFE STRESS EFFECTS ON EMOTIONAL LEARNING: MECHANISMS AND INTERVENTIONS FROM HUMAN AND ANIMAL MODELS, Symposium Chair: Maya Opendak , New York University Langone Medical Center, New York City, USA |
|-------------------------|--|
- 10:30 - 10:55 AM S4-1 MECHANISMS OF STRESSOR CONTROLLABILITY FOLLOWING EARLY-LIFE TRAUMA IN HUMANS, **Dylan Gee**, Yale University
- 10:55 - 11:20 AM S4-2 EARLY LIFE STRESS IS ASSOCIATED WITH PRECOCIOUS AMYGDALA DEVELOPMENT AND AN UNEXPECTED DIP IN THREAT-ASSOCIATED FREEZING, **Kevin Bath**; Gabriela Manzano Nieves, Brown University

11:20 - 11:45 AM	S4-3 INFANT TRAUMA WITH A CAREGIVER: ACUTE NEUROBEHAVIORAL MECHANISMS AND A ROLE FOR AMYGDALA DOPAMINE, Maya Opendak , New York University Langone Medical Center; Ashleigh Showler, New York University; Charlis Raineki, University of British Columbia; Tania Roth, University of Delaware; Regina Sullivan, Nathan Kline Institute & NYU School Medicine
11:45 - 12:00 PM	Discussion, Q&A
12:00 - 1:00 PM	Lunch on Own - Catamaran Resort or Local Area Restaurants
12:00 - 1:00 PM	Wiley Editorial Board Meeting/Lunch - Rousseau Suite
1:00 - 2:00 PM	Wiley Distinguished Speaker Damien Fair, PA-C, PhD - Wiley Distinguished Speaker
2:10 - 3:15 PM	Awards Talks & Presentation of Awards Session Chair: Mark Stanton, University of Delaware
2:10 - 2:25 PM	AS-1 Sandra G. Wiener Student Investigator Award : DEVELOPMENTAL TRAJECTORIES OF STRESS PHYSIOLOGY AND SUBCORTICAL NEUROBIOLOGY FOLLOWING EARLY CAREGIVING ADVERSITY, Michelle VanTieghem , Columbia University; Marta Korom, University of Delaware; Jessica Flannery, University of Oregon; Liliana Varman, Teachers College; Tricia Choy, Columbia University; Christina Caldera, UCLA; Laurel Gabard-Durnam, Boston Children's Hospital; Bonnie Goff, UCLA; Dylan Gee, Yale University; Kathryn Humphreys, Vanderbilt University; Eva Telzer, UNC Chapel Hill; Mor Shapiro, Kaiser Permanente Woodland Hills; Jennifer Louie, Kaiser Permanente; Dominic Fareri, Adelphi University; Niall Bolger, Columbia University; Nim Tottenham, Columbia University
2:25 - 2:40 PM	AS-2 Dissertation Award : MICROORGANISMS TO THE RESCUE: THE USE OF A PROBIOTIC TREATMENT TO REDUCE DEVELOPMENTAL VULNERABILITY IN RATS, Caitlin Cowan , University College Cork; Rick Richardson, University of New South Wales
2:40 - 2:55 PM	AS-3 David Kucharski Young Investigator Award : SOCIAL INFLUENCES ON NEURODEVELOPMENT OF LEARNING AND SELF-REGULATION, Jennifer Silvers , UCLA
2:55 - 3:10 PM	AS-4 Senior Investigator Award : EXPLORING THE PRENATAL ORIGINS OF PERCEPTUAL AND SOCIAL DEVELOPMENT, Robert Lickliter , Florida International University
3:10 - 3:15 PM	Hennessy-Smotherman-Wiley Best Student Paper Award
3:15 - 3:30 PM	Coffee Break - Visit the Exhibitors - Kon Tiki/Aviary Foyer

3:30 - 5:00 PM	S5 SLEEP WITHIN A DEVELOPMENTAL CONTEXT: PREDICTORS AND CONSEQUENCES OF SLEEP DURING INFANCY, EARLY CHILDHOOD, ADOLESCENCE, AND THE TRANSITION TO PARENTHOOD, Symposium Chair: Diane Goldenberg, University of Southern California, Los Angeles, USA
3:30 - 3:50 PM	S5-1 VARIABILITY OF SLEEP IN PRESCHOOLERS: IMPACTS OF SLEEP BEHAVIORS ON BRAIN PROCESSING AND BEHAVIORAL TASK PERFORMANCE, Dennis Molfese , University of Nebraska–Lincoln
3:50 - 4:10 PM	S5-2 IS MODIFYING THE IMPACT OF EVENINGNESS CHRONOTYPE IN ADOLESCENCE A PATHWAY TO IMPROVED HEALTH? Lu Dong ; Nicole Gumpert; Armando Martinez; Allison Harvey, University of California Berkeley
4:10 - 4:30 PM	S5-3 POSTPARTUM DEPRESSIVE SYMPTOMS MEDIATE THE RELATION BETWEEN TESTOSTERONE AND SLEEP PROBLEMS IN NEW FATHERS, Diane Goldenberg ; Darby Saxbe, University of Southern California
4:30 - 4:50 PM	S5-4 INFANT SLEEP, MOTHERS' BEDTIME BEHAVIOR, AND 12-MONTH INFANT ATTACHMENT: THE MODERATING ROLE OF INFANT SLEEP DURATION, Douglas Teti ; Brian Crosby, Pennsylvania State University
4:50 - 5:00 PM	Discussion, Q&A
5:00 - 7:00 PM	Dinner Break, On Own - Catamaran Resort or Local Area Restaurants
7:00 - 9:00 PM	Society for Neuroscience Poster Reception with Cash Bar- (This event is open to SFN and ISDP attendees) Hilton San Diego Bayfront Hotel - Idigo 202 Room

OXYCODONE AND THE FEMALE RAT: DEVELOPMENT OF AN ORAL SELF-ADMINISTRATION PROTOCOL AND EFFECTS ON INFANT BEHAVIOR AND COMMUNICATION (P2-78)
Giulia Zanni, Children's Hospital of Philadelphia

CHILDREN'S LEARNING FROM DISTRACTION VARIES BY SELECTIVE ATTENTION ABILITY (P1-34)
Jill King, Tulane University

THE EFFECTS OF PERFORMANCE-BASED INCENTIVES ON EXECUTIVE FUNCTIONS DURING EARLY CHILDHOOD (P1-12)
Lauren Bryant, University of Connecticut

PRENATAL CORTISOL EXPOSURES PREDICT FETAL AND INFANT RESPONSE TO CHALLENGE (P2-56)
Gage Peterson, Chapman University

REWARD LEARNING BIASES SELECTIVE ATTENTION AMONG 9-12-MONTH-OLD INFANTS (P1-33)
Brianna Keenan, Tulane University

CONTEXTUAL FEAR MEMORY FORMATION PROMOTES PSD-95 PHOSPHORYLATION AND MODULATES AMPAR SUBUNITS DIFFERENTIALLY BETWEEN ADULT AND JUVENILE RATS (P2-71)

Harry Shair, New York State Psychiatric Institute

ALTERED CORTICOLIMBIC CONNECTIVITY ACROSS DEVELOPMENT IN A RAT MODEL OF EARLY ADVERSITY: EVIDENCE FROM FMRI AND NEUROANATOMICAL TRACING SUGGEST SEX-DEPENDENT EFFECTS OF EARLY EXPERIENCE (P2-33)

Jennifer Honeycutt, Northeastern University

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📍 **Morgan Firestein**, Columbia University

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ISDP Awards Abstracts

AS-1

Sandra G. Wiener Student Investigator Award: DEVELOPMENTAL TRAJECTORIES OF STRESS PHYSIOLOGY AND SUBCORTICAL NEUROBIOLOGY FOLLOWING EARLY CAREGIVING ADVERSITY, **Michelle VanTieghem**, Columbia University, United States E-mail: michelle.vantieghem@gmail.com

Michelle VanTieghem, Columbia University; Marta Korom, University of Delaware; Jessica Flannery, University of Oregon; Tricia Choy, Columbia University; Christina Caldera, UCLA; Laurel Gabard-Durnam, Boston Children's Hospital; Bonnie Goff, UCLA; Dylan Gee, Yale University; Kathryn Humphreys, Vanderbilt University; Eva Telzer, UNC Chapel Hill ; Mor Shapiro, Kaiser Permanente Woodland Hills; Dominic Fareri, Adelphi University; Jennifer Louie, Kaiser Permanente; Niall Bolger, Columbia University; Nim Tottenham, Columbia University; Liliana Varman, Teachers College

Prior research has identified altered stress physiology and neurobiology following early adversity either in childhood or adolescence cross-sectional samples, often with conflicting results (e.g. hypo vs. hyper-cortisol; larger vs. smaller amygdala). In the current study, we use an accelerated longitudinal design to characterize trajectories of diurnal cortisol and subcortical brain development from early childhood to late adolescence following early institutional care. 227 subjects (140 comparisons, 87 Previously Institutionalized (PI); ages 4-19) participated in 1-3 waves of diurnal cortisol collection and a sub-sample (N = 165; 94 comparisons, 72 PIs) completed 1-3 MRI scans at two-year intervals. Using piecewise mixed-effects modeling, we identified non-linear age-effects in diurnal cortisol within the PI group; such that in childhood, the PI group showed blunted waking cortisol, which changed to heightened waking cortisol during adolescence. Similarly, adversity-related amygdala phenotypes varied by age in the PI group, such that larger amygdala volumes were observed during childhood, which then switched to smaller amygdala volumes by adolescence. In contrast, group differences in hippocampal volumes were age-invariant, with smaller hippocampi in the PI group. Together, these data suggest that the neurodevelopmental sequela following early caregiving adversity is age-specific, with dynamic changes across childhood and adolescence.

AS-2

Dissertation Award: MICROORGANISMS TO THE RESCUE: THE USE OF A PROBIOTIC TREATMENT TO REDUCE DEVELOPMENTAL VULNERABILITY IN RATS, Caitlin Cowan, University College Cork, Cork, Ireland Email: caitlin.cowan@ucc.ie

Caitlin Cowan, University College Cork, Cork, Ireland; Rick Richardson, University of New South Wales, Australia

Recent findings have led to a resurgence of scientific interest in the interactions between the gut and the brain, and their fundamental contribution to both physical and mental health (Cowan et al., 2018; Cryan & Dinan, 2012). This growing body of research highlights the key contribution of the gut microbiota to modulation of physiological and psychological responses to stress, via the so-called 'microbiota-gut-brain axis' (Foster et al., 2017). However, few studies within this emerging field have examined the impact of microbiota manipulations on psychological functioning during development. In my PhD dissertation, I examined the efficacy of a probiotic treatment to attenuate stress-induced alterations from typical developmental trajectories that might predispose individuals to later psychopathology. I replicated previous findings that maternal separation stress alters developmental trajectories of physical, behavioural, and neural maturation in rats, particularly with respect to developmental patterns of fear expression and inhibition (Callaghan, Cowan, & Richardson, 2016). Importantly, I showed that these stress-induced shifts in the developmental timelines can all be attenuated by a non-invasive probiotic treatment administered in the maternal drinking water. My findings add to the growing evidence that enteric microorganisms have a critical role in determining physical and mental health outcomes via the microbiome-gut-brain axis. Furthermore, these studies highlight the clinical promise of probiotic treatments; the potent stress-attenuating actions of the probiotic formulation suggests that such treatments have the potential to improve both preventative strategies and interventions for stress-related mental health problems.

S-3

David Kucharski Young Investigator Award: SOCIAL INFLUENCES ON NEURODEVELOPMENT OF LEARNING AND SELF-REGULATION, Jennifer Silvers, UCLA, Los Angeles, CA, United States E-mail: silvers@ucla.edu

Exposure to adverse social experiences early in life can dramatically alter the tempo and nature of neurodevelopment. In this talk, I will provide an overview of research from my lab investigating how early adverse social experiences tune the developing brain. This overview will include presenting data suggesting that early adversity primes the brain to learn about threats, but not to regulate emotional responses to them. I will further discuss emerging work examining social (e.g., positive relationships) and biological factors (e.g., inflammation) that may modify links between early social adversity and subsequent development.

AS-4

Senior Investigator Award: EXPLORING THE PRENATAL ORIGINS OF PERCEPTUAL AND SOCIAL DEVELOPMENT, Robert Lickliter, Florida International University, Miami, United States

Little is known regarding the role of prenatal experience in the emergence and facilitation of perceptual or social development. Our lack of knowledge in this area is due in part to the restricted experimental manipulations possible with mammalian fetuses. In this talk I review my lab's research program using avian embryos and hatchlings to explore how developmental influences during the prenatal period guide and constrain postnatal perceptual and social development. I discuss the importance of linking the prenatal environment to postnatal outcomes in terms of how biologists and psychologists conceptualize "innate" or "instinctive" biases, preferences, and skills in infancy and beyond.

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