SBN 2023 – Short Program

Day 1 – Monday June 26th 2023

9:30am – 12:00pm *Palais des congrès*		Organized visit of the city (Free but pre-registration required)
Palais des congrès	**Registration Open**	**Professional Development Workshop** (Open to all but pre-registration required)
1:30 – 2:30 pm		**Welcome** from co-organizers Dr. Jill Becker, Dr. Niko Rigney, and Dr. Tessa Solomon-Lane **Keynote addresses** Dr Natalie Tronson (University of Michigan, USA) Dr Luke Remage-Healey (University of Massachussets, Amherst, USA)
2:30 – 3:30 pm		**Session A:** Incorporating sex as a biological variable (SABV) in your research **Session B:** Environmental Responsibility in Science
3:30 – 3:45 pm		Coffee & Tea Break
3:45 – 4:40 pm		**Session A:** Publishing: How? What? When? & Where? **Session B:** Job Negotiations: From Postdoc to Full
4:40 – 5:40 pm		**Session A:** Transitions from the Pandemic: Perspectives on New Ideas in Research and Teaching **Session B:** Judging by the Cover (Letter): Speed Feedback for Professional Materials
5:40 – 6:00 pm		Closing remarks by co-organizers, feedback survey, and socializing
6:00 – 7:00 pm *Palais des congrès*		**Conference for the Lay public** **Sakina Mhaouty-Kodja** *CNRS/INSERM/Sorbonne Université* Perturbateur endocriniens : Quels sont ils et quells risques pour l'environnement et la santé?
6:30 – 9:00 pm *Hôtel de Ville*		**Welcoming Reception**

Ajouter plus d’infos ou laisser vide pour avoir un Feuillet pour la journée

Day 2 – Tuesday June 27th 2023

7:30 – 8:30 am	**Registration Open**	**General breakfast** *Hall*
		Networking breakfast – Meet the editors (Open to all but pre-registration required) *SBN Room A*
8:30 – 8:45am *Salle Thélème*		**Opening Remarks/Welcome** Frances Champagne & Matthieu Keller
8:45 – 10:25 am *Salle Thélème*		**Symposium 1 – Social neuropeptides: a comparative perspective from insects to mammals** Chairs: Dr Virginie Canoine (Univ. Vienna) & Dr Rui Oliveira (Gulbenkian Institute of Science & ISPA) Dr Christian Gruber (Medical University of Vienna, Austria) – Oxytocin/vasopressin-like neuropeptide signalling and behaviour in invertebrates Dr Kyriakos Kareklas (Gulbenkian Institute of Science, Lisbon, Portugal) – Evolutionary conserved role of oxytocin in the regulation of social fear transmission in zebrafish Dr Virginie Canoine (University of Vienna, Austria) – Role of Mesotocin in social behaviour in birds Dr Alexa Veenema (Michigan State University, USA) – Neural circuitry of social play: Involvement of oxytocin and vasopressin
10:25 – 10:55 am *Hall*		Coffee break
10:40 – 12:05 pm *Salle Thélème*		**Keynote 1 – Dr Julie Bakker** (University of Liège, Belgium) – Sexual differentiation of the human brain
12:05 – 1:40 pm		Catered Lunch break *Hall*
		PD Lunch/workshop – Dr Daphna Joels (Tel Aviv University, Israel) **–** Beyond sexual differentiation of the brain: New ways of studying the relations between sex and the brain *SBN Room A*
1:40 – 3:20 pm *Salle Thélème*		**Symposium 2 – New investigators** Chair: Dr Sarah Meerts (Carleton College, Minnesota) WC Young Recent Graduate award – Dr Nikki Lee (University of California, Berkeley, USA) – The role of reward and dopamine signaling in prairie vole (Microtus ochrogaster) peer relationships Lyn Clemens Travel Award – Dr Hannah Lapp (University of Texas, Austin) – Dam and pup cues for caregiver-offspring interactions are altered by limited bedding in Long-Evans rats New investigator award – Dr Samantha Lauby

		(University of Texas, Austin) – Maternal Care Received Interacts with Prenatal Bisphenol Exposure Effects on Neurodevelopmental and Later-Life Behavior Outcomes in Rats New investigator award – Dr Forrest Rogers (Pinceton Universty) – Fathers of all stripes: The neural basis of paternal care in African striped mice
3:20 – 3:40 pm *Hall*		Coffee break
3:40 – 4:30 pm *Salle Thélème*		**DEI keynote – Dr Subhadra Das** (University College London) **–** Eugenics and the Academy: a case study from University College London
4:30 – 6:30 pm *Hallway*		**Poster session** 1
6:30 – 8:00 pm		**DEI Social** *à la guinguette (Outdoor along the riverbank)* Open to all but pre-registration required

Poster Session I

P1.1 Early steps of emotional stimuli processing are altered by the use of levonorgestrel-releasing intrauterine device and testosterone: an ERP study

Ingrida Zelionkaitė [1], Rimantė Gaižauskaitė [1], Helen Uusberg[2], Andero Uusberg[2], Birgit Derntl[3], Ramunė Grikšienė[1]

[1]Department of Neurobiology and Biophysics, Vilnius University, Lithuania
[2]Institute of Psychology, University of Tartu, Estonia
[3]Department of Psychiatry and Psychotherapy, University of Tübingen, Germany

P1.2 Visual attention towards salient stimuli differs between oral contraceptives users and nonusers: An eye-tracking study

Ramunė Grikšienė, Ingrida Zelionkaitė, Miglė Usonytė, Jolvita Briazkalaitė, Erik Ilkevič, Rimantė Gaižauskaitė.
Department of Neurobiology and Biophysics, Institute of Biosciences, Life Sciences Center, Vilnius University, Lithuania.

P1.3 Do Not Upset Me: The Impact of Negative Emotional Context on Visuospatial Performance Depends on Sex and Women's Hormonal Status

Rimantė Gaižauskaitė, Ingrida Zelionkaitė, R. Grikšienė
Department of Neurobiology and Biophysics, Institute of Biosciences, Life Sciences Center, Vilnius University, Sauletekio ave. 7, LT-10257 Vilnius, Lithuania

P1.4 3D mental rotation performance and eye movements: links with testosterone and progesterone

Erik Ilkevič, Jolvita Briazkalaitė, Rimantė Gaižauskaitė, Ingrida Zelionkaitė, Ramunė Grikšienė
Department of Neurobiology and Biophysics, Vilnius University, Vilnius, Lithuania

P1.5 Adolescent Hormonal Contraceptive Administration Impacts Markers of Prefrontal Cortex Maturation in Female Rats.

Benedetta Leuner, Rachel Gilfarb, Meredith Stewart, Sanjana Ranade, Abhishek Rajesh, Courtney Dye, Kathryn M. Lenz
Ohio State University, USA

P1.6 Social experience and normal aging in prairie voles (Microtus ochrogaster)

Adele Seelke[1,2], Jessica Bond[1,2], Sophia Rogers[1], Tiffany Lam[1], Albatool Al Khazal[1], Diego Magana Gonzalez[3],Sabrina Mederos[4], Karen Ryan[3], and Karen Bales[1,2,3]

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[2]California National Primate Research Center, University of California, Davis; Davis, CA, USA 95616
[3]Neurobiology, Physiology, and Behavior, University of California, Davis; Davis, CA, USA 95616
[4] Animal Behavior Graduate Group, University of California, Davis; Davis, CA, USA 95616

P1.7 Androgen regulation of corticotropin releasing factor receptor 2

Jennifer Lafrican[1], Katherine Parra[1], Sophia Levit[1], Jayden Ladison[1], Krystyna Rybka[1], Nicholas Justice[2], Damian Zuloaga[1]

[1]University at Albany, Department of Psychology, Albany, NY 12222, USA
[2]Center for Metabolic and Degenerative Diseases, Brown Foundation Institute of Molecular Medicine, McGovern Medical School, University of Texas Health Sciences Center, Houston, TX 77030, USA

P1.8 Isotocin and vasotocin modulation of aggression and stress response in Betta splendens

Bianca Fusani[1,2,3], Andreia Ramos[1], Sara D. Cardoso[1], David M. Gonçalves[1]

[1]Institute of Science and Environment, University of Saint Joseph, Macau
[2]Instituto Universitario, Lisboa, Portugal
[3]Instituto Gulbenkian de Ciencia, Oeiras, Portugal

P1.9 Calling activity modulations in a south American treefrog: from physical factors to hypothalamic nonapeptides

Paula Pouso, Mariana Rodriguez-Santiago, Esteban Russi, Erik Zornik, Kim Hoke
Department of Biology, Colorado State University, Fort Collins, USA

P1.10 Rapid evolution of social cognition and divergent patterns of forebrain activation in a zebrafish artificially selected line for sociality

Susana A. M. Varela[1,2], Magda C. Teles[2,3], Kyriacos Kareklas[2], Rita Nunes[2], Rafael Infantes[2], Pedro Rego[2], Marta Liber[2], Rita Gageiro[2], Ozge Pekin[2], Carla Henriques[2], Manuel Sapage[2], Jingtao Lilue[2], Rui F. Oliveira[2,3,4]

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[2]Gulbenkian Institute of Science, Integrative Behavioral Biology Laboratory, Oeiras, Portugal
[3]Instituto Universitário, School of Biosciences, Lisbon, Portugal
[4]Champalimaud Research, Neuroscience Program, Lisbon, Portugal

P1.11 The role of the stress axis in mediating behavioural flexibility in a social cichlid, Neolamprologus pulcher

Stefan Fischer[1,2], Zala Ferlinc[2], Katharina Hirschenhauser[3], Barbara Taborsky[4], Leonida Fusani[1,2] & Sabine Tebbich[2]

[1]Konrad Lorenz Institute of Ethology, University of Veterinary Medicine Vienna, Savoyenstrasse 1, 1160 Vienna, Austria
[2]Department of Behavioral and Cognitive Biology, University of Vienna, Djerassiplatz 1, 1030 Vienna, Austria
[3]University for Education Upper Austria (PH OÖ), Kaplanhofstraße 40, 4020 Linz, Austria
[4]Division of Behavioural Ecology, University of Bern, Wohlenstrasse 50a, CH-3032 Hinterkappelen, Switzerland

P1.12 Social stress's effects on behavior and RNA expression of the bed nucleus of the stria terminalis.

Thomas Degroat[1], Benjamin A. Samuels[2], Troy A. Roepke[1]

[1] Department of Animal Sciences, School of Environmental & Biological Sciences, Rutgers University
[2] Department of Psychology, School of Arts and Sciences, Rutgers University

P1.13 Estrogen Receptors and Oxytocin Receptor Interplay Underlying Social Recognition within the Medial Amygdala of Female Mice

Dante Cantini, Miji Cha, Elena Choleris
Department of Psychology, University of Guelph, Ontario, Canada

P1.14 Arc deletion causes impairments in behaviors linked to neuropsychiatric disorders and oxytocin regulation in mice

Ana Dudas[1], Emmanuel Pecnard[1], Anil Annamneedi[1], Anne-Charlotte Trouillet[2], Pablo Chamero[2], Lucie Pellissier[1]

[1] Team BIOS, Unit PRC, Centre INRAE Val de Loire, Nouzilly, France

[2] Team INERC, Unit PRC, Centre INRAE Val de Loire, Nouzilly, France

P1.15 Offspring loss-mediated impact on emotionality, oxytocin and CRF systems in rat dams

Luisa Demarchi, Alice Sanson, Oliver J. Bosch

Department of Behavioural and Molecular Neurobiology, Regensburg Center of Neuroscience, University of Regensburg, Regensburg, Germany

P1.16 Regulation of social attachment and promiscuity by oxytocin receptor in prairie voles.

Devanand Manoli, Kristen M. Berendzen[1,2,3,4†], Ruchira Sharma[1,2,3,4†], Nerissa Hoglen[1,2,3,4,5], Shuyu Wang[1,2,3,4], Rose Larios[1,2,3,4,5], Nastacia L. Goodwin[1,2,3,4], Michael Sherman[1,2,3,4], Isidero Espineda[1], Annaliese Beery[6]

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[4]Kavli Institute for Fundamental Neuroscience
[5]Neurosciences Graduate Program, University of California, San Francisco; San Francisco, CA 95158, USA
[6]Department of Integrative Biology, University of California, Berkeley; Berkeley, CA 94720, USA

P1.17 The Application of Machine Learning in Studying the Neural Mechanisms of Behavior

Hannah Cortez Zakharenkov, Emily C. Wright, Brian C. Trainor

Department of Psychology, University of California, Davis, CA, USA

P1.18 Oxytocinergic signaling in the posterior hypothalamus

Rumi Oyama and Ioana Carcea

Department of Pharmacology, Physiology, and Neuroscience - New Jersey Medical School Brain Health Institute - Rutgers, The State University of New Jersey

P1.19 Behavioral Consequences of Prenatal Exposure to THC in Prairie Voles (Microtus ochrogaster)

Sophia Rogers, Karen Bales, Adele Seelke, Jessica Bond, Melissa D. Bauman, Casey Phi, Felisa J. Carbajal.

Department of Integrative Biology and Physiology, UCLA, USA

P1.20 The Effects of Early Life Social Environments on Oxytocin Receptor Density

Susanna Zheng, Alexander G Ophir

Cornell University, USA

P1.21 Different types of social interactions trigger specific oxytocin-vasopressin expression in wild-type mouse and models of social interaction deficits

Caroline Gora[1], Ana Dudas[1], Océane Vaugrente[1], Gaëlle Lefort[2], Emmanuel Pecnard[1], Lucile Drobecq[1], Lucas Court[1], Anil Annamneedi[1,3], Pascale Crepieux[1], Lucie Pellissier[1]

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P1.22 Metabolic profiling of dominant and subordinate male mice living in social hierarchies

Tyler M. Milewski and James P. Curley

Department of Psychology, The University of Texas at Austin

P1.23 The Dark Side of Light: Transgenerational Impacts of Light Pollution on Fecundity and Metabolic Health

Kanosha Bell, Inaya Smith, Camara Macon and Carmel Martin-Fairey

Harris-Stowe State University, Department of Life Sciences, St. Louis, MO 63103

P1.24 Sex-specific effects of adipose tissue signaling on the neural circuit that controls appetite

Rachel L. Scott [1,2,3], Megan G. Massa [1,2,4], Ally L. Cara [1,2], J. Ed van Veen [1,2], Stephanie M. Correa [1,2]

[1]Department of Integrative Biology and Physiology [2]Laboratory of Neuroendocrinology of the Brain Research Institute [3]Molecular, Cellular, and Integrative Physiology Interdepartmental Doctoral Program 4Neuroscience Interdepartmental Doctoral Program, University of California, Los Angeles, CA

P1.25 Hypothalamic estrogen-sensitive neurons as potential orchestrators of thermoregulatory adaptations during pregnancy

Laura R Cortes, Mia R Hansen, Sakina Rashid, Ed van Veen, Stephanie Correa

University of California Los Angeles (UCLA), Los Angeles, CA, United States

P1.26 Nutritional tuning of infant behaviour

Marie-Therese Fischer, Julie M Butler, Lauren A. O'Connell

Department of Biology, Stanford University, Stanford, CA, USA

P1.27 Maternal glucose intolerance during pregnancy affects offspring POMC expression and results in adult metabolic alterations in a sex dependent manner

Kiara Ayoub[1], Marina Galleazzo Martins[1,2], Zachary Silver[1], Lindsay Hyland[1], Barbara Woodside[1], Ana Carolina Inhasz Kiss[2], Alfonso Abizaid[1]

[1]Department of Neuroscience, Carleton University, Ottawa, Ontario, Canada
[2]Department of Physiology, Institute of Bioscience of the University of São Paulo, São Paulo, Brazil

P1.28 Gestational low dietary protein in combination with genistein affects maternal behaviors and alters the stress axis in offspring

Bellantoni M.[1], Ostuni M.T.[1], Signorino E.[1,2], Marraudino M[1,2].

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[2]Department of Neuroscience 'Rita Levi Montalcini', University of Torino, Via Cherasco 15, Torino, Italy.

P1.29 Developmental Exposure to 17α-Ethinyl Estradiol on Neuroplasticity in Zebrafish

Kirthana Kunikullaya U[1, 2], Christine Kervarrec [1], Francois Brion [3], Elisabeth Pellegrini [1],Thierry D Charlier [1]

[1] University of Rennes 1, Inserm, EHESP, Irset (Institut de Recherche en Santé, Environnement et Travail), UMR_S1085, Rennes, France

[2] Maastricht MultiModal Molecular Imaging Institute – M4i, Maastricht University, Universiteitssingel 50, 6229 ER Maastricht, The Netherlands

[3] Institut National de l'Environnement Industriel et des Risques (INERIS), Parc Technologique ALATA - BP 2, 60550, Verneuil-en-Halatte, France.

P1.30 Developmental exposure to environmental plasticizers alters sexual behavior in both male and female mice

Nolwenn Adam, Rita Hanine, Karouna Bascarane, Marie-Amélie Lachayze, Lydie Naulé, Sakina Mhaouty-Kodja

Sorbonne Université, CNRS UMR 8246, INSERM U1130, Neuroscience Paris Seine – Institut de Biologie Paris Seine, 75005 Paris, France

P1.31 Perinatal exposure to bisphenols: effects on brain and behavior in mice

Bonaldo Brigitta[1,2], Casile Antonino[1,2,3], Bettarelli Martina[2], Ostuni Marialaura Teresa[2], Nasini Sofia[4], Marraudino Marilena[1,2], Panzica Giancarlo[1,2] †, Gotti Stefano[1,2]

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† July 21, 2022

P1.32 The Effects of Prenatal THC Exposure on Amygdala Development in Male and Female Rats.

Karina N. Sobota[1,2], Ashley E. Marquardt[3] , Jonathan W. VanRyzin[2] , Max D. Burzinski[2] , and Margaret M. McCarthy[2,3]

[1] Graduate Program in Physiological Sciences and Department of Physiology, State University of Londrina, Londrina, PR, Brazil.

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[3] Program in Neuroscience, University of Maryland School of Medicine, Baltimore, MD, USA.

P1.33 Sex differences in the play transcriptome suggest a distinct function for social play in males compared to females

Ashley E. Marquardt, Jonathan W. VanRyzin, Mahashweta Basu, Rebeca W. Fuquen, Seth A. Ament, and Margaret M. McCarthy

[1]Program in Neuroscience, [2]Department of Pharmacology, [3]Institute for Genome Sciences, and [4]Department of Psychiatry, University of Maryland School of Medicine, Baltimore, MD, USA.

P1.34 Effects of GnRH agonist treatment on juvenile social development

Gabriela de Faria Oliveira[1,2], Leykza Marie Carreras-Simons[2], Wade Bushman[3], Walid Farhat[3], Anthony Auger[2]

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[2]Department of Psychology, University of Wisconsin – Madison, USA

[3]Department of Urology, University of Wisconsin – Madison, USA

P1.35 Housing of male and female mice: practical implication of sex as a biological variable (SABV) in neuroscience research

Ivana Jaric[1], Océane La Loggia[1], Jovana Malikovic[2], Janja Novak[1], Bernhard Voelkl[1], Irmgard Amrein[2], Hanno Würbel[1]

[1]Animal Welfare Division, Vetsuisse Faculty, University of Bern, Bern, Switzerland.

[2]Institute of Anatomy, Division of Functional Neuroanatomy, University of Zürich, Zürich, Switzerland

P1.36 Investigation of the stress response in the gray short-tailed opossum (Monodelphis domestica)

Esperanza Isabel Alaniz[1], Ariana Hinojosa[1,3], Fernando Dominguez[1,3], Katelynn Renteria[2], Truc Lee[1,3], Brooklynne Barnes[1,3], Ismael Perez[1], Cristian Botello[1], John L. VandeBerg[4], and Mario Gil[1,5]

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[2]Department of Behavioral and Social Science; Texas Southmost College

[3]Department of Health and Biomedical Sciences

[4]School of Medicine Department of Human Genetics and South Texas Diabetes and Obesity Institute

[5]School of Medicine Department of Neuroscience and Institute of Neuroscience; University of Texas Rio Grande Valley

P1.37 Early-Life Stress And Gonadal Hormones: Impact On The Reward Systems Of ABA Rats

Chiara Ballan[1,2], Sofia Nasini[3*], Brigitta Bonaldo[1,2*], Antonino Casile[1,2,4], Dario Aspesi[5], Camilla Vitali[2], Marilena Marraudino[1,2], Alice Farinetti[2], Stefano Gotti[1,2]

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P1.38 Variations in plasma sex steroids concomitantly to nest building and early breeding phases in an opportunistic breeder, the zebra finch (Taeniopygia guttata)

Marie Hébert[1], Eira Ihalainen[1], Sophie C. Edwards[1,2], Simone L. Meddle[3], Susan D. Healy[1]

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[3] The Roslin Institute, The Royal (Dick) School of Veterinary Studies, The University of Edinburgh, Easter Bush, EH25 9RG, UK

P1.39 Early behavior intervention in divergent quail lines selected for sociability

Lucas Court**,** Julie Lemarchand, Fabien Cornilleau, Emmanuel Pecnard, Matthieu Keller, Ludovic Calandreau, Lucie Pellissier

CNRS, IFCE, INRAE, Université de Tours, PRC, F-37380, Nouzilly, France

P1.40 Photoperiod/androgen mediation of a sexually reinforced instrumental behavior in male Japanese quail

Blackwell, C., Charlson, H., Dashti-Gibson, G., & Holloway, K.S.

Vassar College, Poughkeepsie, NY, U.S.A.

P1.41 Enhanced corticosterone production during predator threat facilitates increased hypervigilance and mechanical sensitivity among pain-experienced male mice.

Jennet L. Baumbach, Amanda M. Lionetti & Loren J. Martin

University of Toronto Mississauga, Canada

P1.42 Changes in ventilation across the estrous cycle.

Fay A. Guarraci, Jennifer Stokes, Megan Kelly, Mila Fisher

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P1.43 Is behavioral flexibility related to physiological (glucocorticoid response) flexibility?

Sonia A. Cavigelli[1,2], Elyse K. McMahon[1,2,3]

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P1.44 Gonadectomy inverts the sex difference in the development of habit in rats

Toufexis, D., Carasi-Schwartz, F., Mohammed, Z., Dougherty, R., VonDoepp, S., and Hilton-Vanosdall, E.

Psychological Science Department, The University of Vermont, Burlington, VT ; USA

Day 3 – Wednesday June 28th 2023

7:30 – 8:30 am	**Registration Open**	**General breakfast** *Hall*
		Networking breakfast – Meet the Scientist 'Dr Colin Saldanha' (Open to all but pre-registration required) *SBN Room A*
8:30 – 10:10 am *Salle Thélème*		**Symposium 3 – Thyroid hormone signaling in social and stress-related behaviors** Chair: Dr Deena Walker (OHSU, USA) Dr. Sarah Kocher (Princeton University, USA) – Role of a thyroid hormone ortholog in promoting the evolutionary development of social behavior in bees Dr. Catherine Peña (Princeton University, USA) – Impact of developmental disruption of the maternal environment on brain reward circuit and hypersensitivity to stress via suppressed thyroid hormone levels in male and female mice. Dr. Deena Walker (Oregon Health and Science University, USA) - Sex differences in the thyroid hormone binding protein crystallin mu (*Crym*) within the sexually-dimorphic medial amygdala mediate the impact of adolescent social stress on reward-related behavior. Dr. Kerry Ressler (Harvard Medical School, USA) – Role of thyroid hormone signaling in the amygdala on memory-related plasticity
10:10 – 10:40 am *Hall*		Coffee break
10:40 – 12:20 pm *Salle Thélème*		**Symposium 4** – **Contributed talks** Chair: Dr Charlotte Cornil Maxime Meunier (INRAE, Université de Tours; France) – Induction of early puberty onset and neuroendocrine changes in female goats induced by exposure to sexually active bucks Dr Jasmine L. Loveland (University of Vienna) – Alternative mating tactics in the ruff (*Calidris pugnax*): Neural correlates of behavior and RNA-seq analyses from brains and organs Dr Mélanie C. Faure (University of Liège, Belgium) – Membrane estrogen receptor alpha is involved in the negative feedback through KNDy neurons Dr Lucie Pellissier (INRAE, Université de Tours)– Specific deletion of oxytocin receptor in different subpopulation of neurons leads to altered phenotypes in mice Dr Ying Li (Chinese Institute for Brain Research, China) ‑ Hyperexcited limbic neurons represent sexual satiety and reduce mating motivation

		Dr Kristen L. Zuloaga (Albany Medical College, USA) – Brain specific estrogen reverses cognitive effects of menopause
12:20 – 2:10 pm		Catered Lunch Break *Hall*
		Meet the professor Lunch (Pre-Registration required) *SBN Room A*
2:10 – 3:50 pm *Salle Thélème*		**Symposium 5 – Under construction: neural and hormonal determinants of adolescent brain development** Chair: Dr Kristen Delevich, Washington State University Dr Cecilia Flores (McGill University, Montreal, Canada) – The scheduling of adolescence by Netrin-1. Dr Kristen Delevich (Washington State University, USA) – Testicular hormones at puberty shape mesolimbic dopamine system maturation Dr Barbara Braams (Vrije Universiteit Amsterdam, The Netherlands) – The influence of pubertal development on risk-taking and mental health. Dr Emily Wright (University of California Davis, USA) – Pubertal androgens drive sex differences in behavioral and neural responses to social stress.
3:50 – 4:10 pm *Hall*		Coffee break
4:10 – 5:00 pm *Salle Thélème*		**Keynote 2 – Dr Adriene Beltz** (University of Michigan, Ann Harbor, USA) – Hormonal contraceptives and behavior: The potent state of the nascent science
5:00 – 7:00 pm *Hallway*		**Poster session 2**
7:00 – 8:30pm *Salle Thélème*		**Science and Society Roundtable – A conversation about hormonal contraceptives, behavior, and the brain.** Moderator: Dr Adriene Beltz Zoé Bürger (University of Tübingen, Germany) Dr Jesse Lacasse (Brock University, Canada) Dr Natalie Tronson (University of Michigan, USA)

Poster Session II

P2.1 Membrane androgen binding in goldfish brains
Richmond Thompson, Venezia Roshko, Chloe Helsens, Srija Potluri
Oxford College of Emory University Neuroscience and Behavioral Biology, Oxford, GA, USA

P2.2 Fighting behaviour in Siamese fighting fish (Betta splendens): influence of gonadectomy on aggression and hormone levels
Sara D. Cardoso, Andreia Ramos, David Gonçalves
Institute of Science and Environment, University of Saint Joseph, Rua de Londres 106, Macau SAR

P2.3 Neurotranscriptomic, endocrine, and behavioral mechanisms of social status across life history stages
Tessa K. Solomon-Lane[1], Jessica M. Maurice[2], Isabela P. Harmon[2], Findley R. Finseth[1]
[1]Claremont Colleges, Claremont, CA USA
[2]Scripps College, Claremont, CA USA

P2.4 Effect of pre-fight manipulation of androgens in aggressive behavior in the Siamese fighting fish Betta splendens
David Gonçalves, Andreia Ramos, Sara Cardoso
Institute of Science and Environment, University of Saint Joseph, Rua de Londres 106, Macau SAR, China

P2.5 Injection of oxytocin increases the concentration of serotonin and it derives the submissive behaviors of horses
Youngwook Jung[1] and Minjung Yoon[1,2,3]
[1]Department of Animal Science and Biotechnology, Kyungpook National University, Sangju, Korea;
[2]Department of Horse, Companion and Wild Animal Science, Kyungpook National University, Sangju, Korea;
[3]Research Center for Horse Industry, Kyungpook National University, Sangju, Korea

P2.6 Dog bite levels do not correlate with the plasma concentration of serotonin
Junyoung Kim[1], Yeonju Choi[1], Hye-Won Lee[2], and Minjung Yoon[1,3,4]
[1]Department of Animal Science and Biotechnology, Kyungpook National University, Sangju, Republic of Korea
[2]Korean Animal Welfare Research Institute, Namyangju, Republic of Korea
[3]Department of Horse, Companion, and Wild Animal Science, Kyungpook National University, Sangju, Republic of Korea
[4]Research Center for Horse Industry, Kyungpook National University, Sangju, Republic of Korea

P2.7 The Role of Serotonin in the Estradiol-dependent Selectivity of Auditory Regions in Songbirds
Calista J. Henry, Garth W. Casbourn, Scott M. Ramsay, & Scott A. MacDougall-Shackleton
The University of Western Ontario, Canada

P2.8 Hyperprolactinemia in adult female mice alters olfactory behaviors and electrical activity in the accessory olfactory bulb
Benito Ordaz[1], Fernando Peña-Ortega[1], Teresa Morales[2], Rebeca Corona[2]
[1]Departamento de Neurofisiología y Neurobiología del Desarrollo
[2]Departamento de Neurobiología Celular y Molecular, Instituto de Neurobiología, UNAM Campus Juriquilla, Querétaro, México.

P2.9 Of Nonapeptides and Boojums: What Rodent Models Are Trying To Tell Us About the Evolution of Sociality.
Christopher Harshaw and Chris Palasch
University of New Orléans, USA

P2.10 The genetic basis of steroid levels in biparental deer mice
Jennifer Merritt[1,2], Natalie Niepoth[2], Esther Carlitz[3], Wei Gao[3], Clemens Kirschbaum[3], Andrés Bendesky[1,2]
[1]Zuckerman Mind Brain Behavior Institute,
[2]Dept. Ecology, Evolution, & Environmental Biology, Columbia University
[3]Dept. Psychology, Technical University of Dresden

P2.11 Characterizing parental auditory responses to chick begging calls in biparental zebra finches (Taeniopygia guttata)
Kristina O. Smiley and Luke Remage-Healey
Department of Psychological and Brain Sciences, University of Massachusetts Amherst, Amherst, MA USA 01003

P2.12 Uncovering contributions of the medial Preoptic Area to maternal sensitivity
Mariana Pereira, Kaitlin Copelas, Keishley Pizarro-Colon, Azaria Anderson, Anushka Gadekar, and Emily Robinson
Department of Psychological and Brain Sciences, University of Massachusetts Amherst, Amherst, MA 01003, USA.

P2.13 The effects of early life stress and pediatric TBI on the developing rat hippocampal transcriptome and exploratory behaviour
Michaela R. Breach[1], Ethan Goodman[1], Jonathan Packer[1], Alejandra Zaleta-Lastra[2], Habib E. Akouri[2], Zoe M. Tapp[1], Cole Vonder Haar[3-5], Olga Kokiko-Cochran[3-5], Jonathan Godbout[3-5], Kathryn M. Lenz[2-5]
[1]Neuroscience Graduate Program, [2]Department of Psychology, [3]Department of Neuroscience, [4]The Institute for Behavioral Medicine Research, [5]The Chronic Brain Injury Program; The Ohio State University, Columbus, Ohio, 43209, USA

P2.14 Early life adversity increases cortical astrocyte volume and impacts the transcriptome of the orbitofrontal cortex in adult male and female rats
Erin P. Harris[1], Claire Deckers[2], Emily A. Witt[3], Eden Harder[3], Katherine J. Reissner[3], Debra A. Bangasser[1]
[1]Center for Behavioral Neuroscience and the Neuroscience Institute, Georgia State University, Atlanta, GA, USA
[2]Graduate Neuroscience Program, Temple University, Philadelphia, PA, USA
[3]University of North Carolina Chapel Hill, Chapel Hill, NC, USA

P2.15 Early life adversity produces sex-specific transcriptional changes in the basolateral amygdala but does not produce resilience to cocaine addiction-like behaviors in rats
Amelia Cuarenta[1], Reza Karbalaei[2], Alexandra Hehn[2], Sydney Roth[2], Atiba Ingram[2], Claire Deckers[2], Mathieu Wimmer[2], Debra Bangasser[1]
[1] Georgia State University, USA
[2] Temple University, Philadeplhia, USA

P2.16 Egr1 drives estrous cycle-dependent gene regulation and behavioral plasticity

Devin Rocks[1], Eric Purisic[1], Eduardo Gallo[1], John M. Greally[2], Masako Suzuki[2], Marija Kundakovic[1]
[1] Fordham University Department of Biological Sciences, USA
[2] Albert Einstein College of Medicine Center for Epigenomics, USA

P2.17 Fetal HPG and HPA axes components' expression levels are related to intrauterine position and sex

Ariel Yael[1], Ruthie Fishman[1], Devorah Matas[1], Yoni Vortman[2], Lee Koren[1]
[1] Faculty of Life Sciences, Bar Ilan University, Israel
[2] Hula Research Center, Department of Animal Sciences, Tel-Hai College, Israel

P2.18 Postpartum resource scarcity alters the nature of maternal aggressive behavior in rats

Sydney Ku, Molly Dupuis, Reza Karbalaei, James Flowers, Mathieu Wimmer, Debra Bangasser
Temple University in Philadelphia, Pennsylvania in the Department of Psychology and Neuroscience

P2.19 Estradiol withdrawal following a hormone simulated pregnancy induces deficits in affective behaviors and increases ΔFosB in D1 and D2 neurons in the nucleus accumbens core in mice

William B Foster[1], Katherine F Beach[1], Paige F Carson[1], Kagan C Harris[1], Brandon L Alonso[1], Leo T Costa[1], Roy C Simamora[1], Jaclyn E Corbin[1], Keegan F Hoag[1], Sophia I Mercado[1], Anya G Bernhard[1], Cary H Leung[2], Eric J Nestler[3], Laura E Been[4]
[1]Haverford College, Department of Psychology, Haverford, PA, USA.
[2]Widener University, Department of Biology, Chester, PA, USA.
[3]Icahn School of Medicine at Mount Sinai, Friedman Brain Institute, New York, NY, USA.
[4]Haverford College, Department of Psychology, Haverford, PA, USA. Electronic address: lbeen@haverford.edu.

P2.20 Disruption of vasopressin 1a signaling on embryonic day 16.5 has subtle effects in social interactions in adult male mice

Katlynd Reese, Heather K. Caldwell
Brain Health Research Institute and Kent State University, Kent, Ohio, USA

P2.21 Molecular evolution of neuromodulatory signalling pathways involved in social behaviour across Lake Tanganyika's cichlids adaptive radiation

Pol Sorigue[1], Jingtao Lilue[1], Walter Salzburger[2], Rui F. Oliveira[1,3]
[1]Instituto Gulbenkian de Ciência, Oeiras, Portugal
[2]Basel University, Basel, Switzerland
[3]Instituto Universitário, Lisbon, Portugal

P2.22 Synchronization of preoptic transcriptomes during courtship reveals the molecular basis of behavioral coordination in a highly social cichlid

Isaac Miller-Crews & Hans A. Hofmann.
Department of Integrative Biology, Institute for Neuroscience, The University of Texas at Austin, Austin, TX, USA

P2.23 Investigating the mechanisms of decision-making with cellular and spatial resolution in a pair bonding fish

Ross S. DeAngelis[1,2], Jiawei Han[1,3], Isaac Miller-Crews[1], Hans A. Hofmann[1,2,3]
[1] Department of Integrative Biology, The University of Texas at Austin, USA
[2] Institute for Neuroscience, The University of Texas at Austin, USA
[3] Interdisciplinary Life Science Graduate Programs, The University of Texas at Austin, USA

P2.24 KCC2 Deficiency in Zebrafish Leads to Impaired Socio-cognitive Functioning: Insights into the Role of E/I Imbalance in Neurodevelopmental Disorders and Potential Therapeutic Targets

Mohammad Naderi, Thi My Nhi Nguyen, Christopher Pompili, and Raymond Kwong
Department of Biology, York University, Toronto, ON M3J 1P3, Canada

P2.25 Navigation strategy preference among naked mole-rat social phenotypes

Xinye Peng[1], Olya Bulatova[1], Grace Otto[1], Elizabeth Freitas[1] & Melissa M. Holmes[1, 2, 3]
[1]Psychology, University of Toronto Mississauga, Mississauga, ON, Canada
[2]Ecology and Evolutionary Biology, University of Toronto, Toronto, ON, Canada
[3]Cell and Systems Biology, University of Toronto, Toronto, ON, Canada

P2.26 Leveraging individual power to improve racial equity in academia

Patrick K. Monari[1], Emma R. Hammond[1], Candice L. Malone[1], Amelia Cuarenta[2], Lisa C. Hiura[3], Kelly J. Wallace[4], Linzie Taylor[5], Devaleena S. Pradhan[6]
[1]Department of Psychology, University of Wisconsin-Madison, Madison, WI, USA
[2]Center for Behavioral Neuroscience, Georgia State University, Atlanta, GA, USA
[3]Department of Cellular, Molecular, & Developmental Biology, University of Colorado Boulder, Boulder, CO, USA
[4]Department of Psychology, Emory University, Atlanta, GA, USA
[5]Neuroscience Graduate Program, School of Medicine, Emory University, Atlanta, GA, USA
[6]Department of Biological Sciences, Idaho State University, Pocatello, ID, USA

P2.27 Revisiting Neuroendocrinology: New portal pathways in the brain

Rae Silver, Yifan Yao, Ranjan Roy, Javier E Stern
Columbia University, USA

P2.28 VA opsin and the molecular architecture of the avian seasonal clock

Tyler Stevenson[1], Simone Meddle[2], Jonathan Perez[3], Gaurav Majumdar[4], and Russell Foster[5]
[1]University of Glasgow, UK
[2]University of Edinburgh, UK
[3]University of South Alabama, USA
[4]University of Allahabad, India
[5]University of Oxford, UK

P2.29 The Dark Side of Light: Geospatial Analysis and Anatomical Investigation of the Effects of Light Pollution on the Maternal Paraventricular Nucleus During Pregnancy

Inaya Smith, Camara Macon, Trena Harris and Carmel Martin-Fairey

Harris-Stowe State University, Life Sciences Department, St. Louis, MO, 63103

P2.30 Steroid profiling in a juvenile songbird: response to an aggressive interaction

Emma K. Lam[1], Sofia L. Gray[2], Kiran K. Soma[1,3,4]
[1] Djavad Mowafaghian Center for Brain Health, University of British Columbia, Vancouver, Canada
[2] Department of Psychology, University of Washington, Seattle, USA
[3] Department of Psychology, University of British Columbia, Vancouver, Canada
[4] Department of Zoology, University of British Columbia, Vancouver, Canada

P2.31 Mapping and comparing androgen receptor expression in the brain of a suboscine and an oscine bird

Juliana da Costa Araujo[1], Manfred Gahr[1], Victor R. Cueto[2]
[1]Department of Behavioural Neurobiology, Max Planck Institute for Biological Intelligence
[2]Consejo Nacional de Investigaciones Científicas y Técnicas

P2.32 Effects of the social and olfactory environment on gonadal characteristics and epididymal sperm count in male prairie voles (Microtus ochrogaster).

Jesse Hurd, Shayla. Nguyen, Casey Sergott, Craig Miller, Dale Kelley, and Elizabeth McCullagh
McCullagh Lab Integrative Biology, Oklahoma State University – Stillwater, OK, USA.

P2.33 Nucleus accumbens dopamine release reflects the selective nature of pair bonds

Anne F. Pierce[1], David S.W. Protter[2], Gabriel D. Chapel[2], Ryan T. Cameron[2], and Zoe R. Donaldson[1,2*]
[1]Department of Psychology & Neuroscience, University of Colorado Boulder
[2]Department of Molecular, Cellular, and Developmental Biology, University of Colorado Boulder

P2.34 Early life social complexity shapes adult social processing in the communal spiny mouse Acomys cahirinus

Kelly J Wallace, Solanch Dupeyron, Mark Li, & Aubrey M Kelly
Department of Psychology, Emory University

P2.35 Epigenetic and Behavioral characteristics of Pair Bonding in the Lined Seahorse (Hippocampus erectus)

Sabrina L. Mederos[1], Adele M. H. Seelke[2], Karen L. Bales [2]
[1]University of California, Davis; Animal Behavior Graduate Group, USA
[2]University of California, Davis; Department of Psychology, USA

P2.36 Hyperandrogenism in female mice elicit changes in male sociosexual behaviour via attractivity and receptivity

Taylor B. Irvine, Ashley Monks
Department of Psychology, University of Toronto, Canada

P2.37 Brain circuits activated by wheel running and paced mating evaluated by manganese enhance magnetic resonance imaging

Mendoza Cisneros Laura Julissa., Pérez Salazar Tania., Aguilar Moreno Josué Alejandro., Raúl G. Paredes
Escuela Nacional de Estudios Superiores, Juriquilla e Instituto de Neurobiología UNAM, campus Juriquilla, Querétaro, México

P2.38 Effect of kisspeptin and paced mating on resting state connectivity in female rats

Bedos M.[1], López-Gutiérrez F.[2], Paredes R.G.[1,2], Alcauter S.[2]
[1]Escuela Nacional de Estudios Superiores, Unidad Juriquilla, Querétaro, Mexico
[2]Instituto de Neurobiología, Universidad Nacional Autónoma de México, Querétaro, Mexico

P2.39 Sexual responses to clitoral stimulation are dependent on estradiol and progesterone in C57Bl/6 mice

Thanh Phung and D. Ashley Monks
Department of Psychology, University of Toronto, Canada

P2.40 Brainwide inputs to estrogen-receptor alpha expressing neurons in the BNSTp

Diane A. Kelly and Joseph F. Bergan
Department of Psychological and Brain Sciences, University of Massachusetts, Amherst

P2.41 Surprising lack of long-term effect of aromatase inhibition on mouse sexual and aggressive behaviour

Philippine Lemoine, Charlotte Cornil
GIGA Neurosciences – Neuroendocrinology Lab - University of Liège, Belgium

P2.42 Consequences of brain aromatase knock-out on cell proliferation, differentiation and behavior in zebrafish

Cassandra Malleret*[1], Mélanie Blanc*[2], Laëtitia Guillot[1], Pascal Coumailleau[1], Xavier Cousin[1], Thierry D. Charlier[1], Elisabeth Pellegrini[1]
**Co-authors*
[1] University of Rennes, Inserm, Irset (Institut de Recherche en Santé, Environnement et Travail), UMR_S 1085, Rennes, France
[2] MARBEC, University of Montpellier, CNRS, Ifremer, IRD, INRAE, Palavas-les-Flots, France

P2.43 Sex steroids differently modulate social recognition through androgen and estrogen receptors in the male mouse brain

Dario Aspesi[1], Sarah Matta[2], Taylor Manning[2], Anjana Varatharajah[2], Eden Rechtoris-McNab[2], Elena Choleris[1]
[1]Department of Psychology and Neuroscience Program, University of Guelph, Guelph, ON, Canada
[2]Department of Biomedical Sciences, University of Guelph, Guelph, ON, Canada

P2.44 Effects of ventral subiculum to the anterior BNST projection activation on anxiety-like behaviors and HPA axis activity in male and female mice

Euphemia S. Marsh[1,2,3], Cara Teixeira[1,2], Salisha Baranwal[2], Christen N. Snyder[1,2,3], Chih-Lin Chang[2], Shany Yang[1,2,3], Colin Johnston[2], Isaac Agranoff[2], Joanna L. Spencer-Segal[1,2,3,4]

[1]*University of Michigan, Neuroscience Graduate Program,*
[2]*Michigan Neuroscience Institute*
[3]*Neuroscience Graduate Program*
[4]*Michigan Medicine Department of Internal Medicine: Division of Metabolism, Endocrinology and Diabetes*

Day 4 – Thursday June 29th 2023

7:30 – 8:30 am		**General breakfast** *Hall*
		Networking breakfast – Early career breakfast *SBN room A*
8:30 – 9:00 am *Salle Thélème*	**Registration Open**	Business meeting
9:00 – 10:40 am *Salle Thélème*		**Symposium 6 – Androgens: for more than simply aggression** Chair: Dr. Matthew Cooper, Professor, Department of Psychology, University of Tennessee Knoxville Dr. Catherine Marler (University of Wisconsin Madison, USA) - Effects of T pulses on territorial behavior and parental care in California mice in the field. Dr. Aubrey Kelly (Emory University, Atlanta, USA) – Context dependent rapid effects of testosterone on prosocial and agonistic behaviors in male Mongolian Gerbils. Dr. Matthew Cooper (University of Tennessee, Knoxville USA) Androgen receptors, social anxiety and dominance relationships in Syrian hamsters. Dr. Damian Zuloaga (University of Albany, NY, USA) Role of androgens in the regulation of the neuroendocrine stress response and associated behaviors.
10:40 – 11:10 am *Hall*		Coffee break
11:10 – 12:00pm *Salle Thélème*		**Keynote 3 – Dr Marija Kundakovic** (Fordham University, New York, USA) – Epigenomic programming of brain plasticity and disease risk by ovarian hormones
12:00 – 1:30 pm		Catered Lunch break *Hall*
		HB Editorial Board Lunch (for board members only) *SBN room A*
1:30 – 3:10 pm *Salle Thélème*		**Symposium 7 – Multifaceted influences on real and perceived threat responsivity** Chair: Dr Rebecca Shansky, Northeastern University Dr Rebecca Shansky (Northeastern University, USA) – Individual variability in pain processing pathways and behavioral profiles of both conditioned and unconditioned threat responding. Dr Erica Glasper (Ohio State University, USA) – Neuroendocrine and neuroimmune mechanisms

		involved neonatal paternal deprivation induced-social vigilance behavior in both male and female California mice. Dr Avishek Adhikari (University of California Los Angeles, USA) – Hypothalamic-midbrain circuits induce versatile routes to escape from different forms of innate threats. **Dr Bianca Jones Marlin**
3:10 – 3:30 pm *Hall*		Coffee break
3:30 – 4:20 pm *Salle Thélème*		**Lehrman Award Keynote – Dr Gregory F. Ball**
4:20 – 6:20 pm *Hallway*		**Poster session 3** (2h)
7:00 (Bus) – 0:00pm		**Banquet** (Chateau de Villandry)

Poster Session III

P3.1 Sickness induced mechanisms activating central amygdala oxytocin receptor cells.
Hunter Lanovoi, Rumi Oyama, Jennifer Salazar, and Ioana Carcea
Rutgers Brain Health Institute, Rutgers New Jersey Medical School Department of Pharamcology, Physiology, and Neuroscience, USA

P3.2 The influence of oxytocin on social preference following LPS-induced inflammation
Emma R Hammond, Patrick K Monari, Lila J Kilponen, Catherine Marler
University of Wisconsin – Madison Psychology Department

P3.3 Exploring whether microglia mediated phagocytosis of SDN neurons is a function of estradiol induced mast cell degranulation
Christie V. Dionisos and Margaret M. McCarthy
University of Maryland School of Medicine, Baltimore, Maryland, USA

P3.4 Perineuronal net expression following traumatic brain injury in adult male and female zebra finches
Adam Talwalkar and Kelli A. Duncan
Vassar College, Poughkeepsie, NY, USA

P3.5 Interaction between supraoptic nuclei estrogens and medial amygdala oxytocin receptors on social recognition
Pietro Paletta, Alyssa Palmateer, Elena Choleris
Department of Psychology and Neuroscience, University of Guelph, Guelph, ON, Canada

P3.6 The interplay between the dorsal hippocampal D2-type dopaminergic system and sex hormones in the regulation of social learning in male mice
Noah Bass, Samantha McGuinness, and Elena Choleris
University of Guelph, Ontario, Canada

P3.7 Alternative mRNA splicing as a mechanism impacting interpretation of social signals in chemosensory epithelia of the Southern giant pouched rat
Ehren Bentz, Alexander G. Ophir.
Department of Psychology, Cornell University, Ithaca, NY 14853, USA

P3.8 Female response to male chemosignals exposure is modulated by prolactin
Rebeca Corona, Verónica Viñuela-Berni, Viridiana Cerbantez-Bueno, Daniel Muñoz-Mayorga, Teresa Morales
Laboratorio de Neuroanatomía Funcional y Neuroendocrinología, Instituto de Neurobiología UNAM, Campus Juriquilla, Querétaro, México

P3.9 Chronic intranasal oxytocin impairs behavioral synchrony between California mice (Peromyscus californicus)
Patrick Monari, Candice Malone, Emma Hammond, Lillian Li, Zhimin Hu, Sumanth Karnati, Zhiwei Xue, Yoosung Jang, Catherine Marler
Department of Psychology, University of Wisconsin-Madison, Madison, WI, USA

P3.10 Widespread impacts of social relationships on neuroendocrine signaling pathways throughout the social behavior network and avian secondary auditory cortex
Nora H. Prior[1,2], Chelsea M. Haakenson[2], Gregory F Ball[2], Benjamin A Sandkam[3]
[1]Department of Psychology, Cornell University Ithaca NY USA
[1]Department Psychology, University of Maryland College Park, MD USA
[3]Department of Neurobiology and Behavior, Cornell University Ithaca NY USA

P3.11 Ecology and Life History Explain Variation in Socially Critical Brain Regions across Vertebrates
Jiawei Han, Rebecca L. Young, Hans A. Hofmann
Department of Integrative Biology, Institute for Neuroscience, The University of Texas at Austin, Austin, TX, USA

P3.12 Neural correlates of social evolution
Jessica P. Nowicki[1], Lindsay L. Sailer[2], Sarah Ludington[1], David Ramirez[1], Marie-Therese Fischer[1], Kathy Tran[1], Jordan Mckinney[1], Alexander G. Ophir[2], Michael G. Gardner[3,4], Darren J. Coker[5], Lauren A. O'Connell[1]
[1] Department of Biology, Stanford University, 371 Jane Stanford Way, Stanford, CA 94305, USA
[2] Department of Psychology, Cornell University, 211 Uris Hall, Ithaca, NY 14853, USA.
[3] College of Science and Engineering, Flinders University, Adelaide, South Australia, Australia.
[4] Evolutionary Biology Unit, South Australian Museum, Adelaide, Australia.
[5] Red Sea Research Center, Division of Biological and Environmental Science and Engineering, King Abdullah University of Science and Technology, Thuwal 23955-6900, Saudi Arabia

P3.13 Unraveling the evolution of female aggression in poison frogs: a neuroendocrine approach
Camilo Rodríguez and Lauren O'Connell
Laboratory of Organismal Biology. Stanford University. Stanford, California, USA

P3.14 Inclusivity in the laboratory: rat anxiety, social, and sexual behavior are stable in the presence of a dog
Elena Morales-Grahl, Anna Horton, Dr. Sarah Meerts
Carleton College, Northfield, MN, USA

P3.15 Implications of increased expression of CRF receptors in oxytocin neurons across the postpartum period in mice
Katherine E. Katherine E. Parra[1], Rose M. De Guzman[1], Jennifer J. Lafrican[1], Krystyna A. Rybka[1], Jayden M. Ladison[1], Ariana V. Della Posta[1], Amaya E. Neuwirth[1], Lierni Ugartemendia Ugalde[2], Nicholas J. Justice[2], Damian G. Zuloaga[1]
[1]University at Albany, Albany, NY
[2]University of Texas health Science Center, Houston, TX

P3.16 Investigating psychological distress in mothers and their partners: Relations to hair hormones during early postpartum
Stacey N Doan[1], Kavya Swaminathan[2], Erin Henshaw[3], Alexa Aringer[4], Teresa Wood[5], Marie Lockhart[5]
[1]Claremont McKenna College and City of Hope National Medical Center; [2]Claremont Graduate University; [3]Denison

University; [4]Claremont McKenna College; [5]Ohio Health Research Institute

P3.17 Does Corticosterone Modulate Social Interaction During the Observation of Pain?
Crystal Mui, Navdeep Lidhar, Loren Martin
Department of Psychology, University of Toronto, Canada

P3.18 Social style plays a role on the neuroendocrine stress response in Juvenile Common Marmosets, Callithrix jacchus
Gabriela de Faria Oliveira, Ricki Colman, Toni Ziegler
Wisconsin National Primate Research Center, USA

P3.19 The Dark Side of Light: Geospatial and Anatomical Investigation of the Effects of Light Pollution on Maternal Anxiety
Camara Macon, Inaya Smith and Carmel Martin-Fairey
Harris-Stowe State University, Department of Life Sciences, St. Louis, MO 63103

P3.20 Impacts of paternal deprivation and social stress on patterns of neural activation in the social brain
Lindsay L. Sailer[1], Faith A. Parris[1], Radia Basher[1], Lauren A. O'Connell[2], Alexander G. Ophir[1]
[1]Department of Psychology, Cornell University, Ithaca, NY 14853, USA
[2]Department of Biology, Stanford University, 371 Jane Stanford Way, Stanford, CA 94305, USA

P3.21 Sexual Differentiation of Stress-Induced Social Avoidance and Vigilance During Puberty
Alyssa Lake[1], Emily C. Wright[1], Zhana D. Prince[1], Valentina Cea Salazar[2], Melody Wu[3], Jessica Tollkuhn[3], Brian C. Trainor[12]
[1]Department of Psychology, University of Davis, CA, USA
[2] Neuroscience Graduate Group, University of California Davis, CA, USA; Center for Neuroscience, University of California, CA, USA
[3]Cold Spring Harbor Laboratory, 1 Bungtown Road, Cold Spring Harbor, NY 11724, USA

P3.22 Pubertal stress disrupts female sexual behavior by affecting ventromedial hypothalamic neurons expressing nitric oxide synthase
Yassine Bentefour & Julie Bakker
GIGA Neurosciences – Neuroendocrinology Lab – University of Liège, 4000 Belgium

P3.23 Genomic Imprinting and the Effects of Puberty on Maternally and Paternally Inherited Allele Expression in the Anterior Periventricular Nucleus of the Hypothalamus
Daryl Meling[1], Noelle James[1], Rachel Eggleston[1], Lindsay Clark[2], Paul Bonthuis[1,3]
[1]Department of Comparative Biosciences, University of Illinois, Urbana, IL, USA
[2]HPCBio, Roy J. Carver Biotechnology Center, University of Illinois, Urbana, IL, USA
[3]GNDP Theme Affiliate, Carl R. Woese Institute for Genomic Biology, University of Illinois, Urbana, IL, USA

P3.24 Neural circuit basis underlying prepubertal alloparental care
Bradley B. Jamieson, Maxwell X. Chen, Grace M. K. Chattey, Johannes Kohl
State-dependent Neural Processing Laboratory, The Francis Crick Institute, 1 Midland Road, London, UK

P3.25 Neonatal Exposure to the Synthetic Progestin 17α-Hydroxyprogesterone Caproate Alters Mesolimbic Development and Function
Paige L. Graney, Jessie Miller, Evelyn Sarno, and Christine K. Wagner
Department of Psychology & Center for Neuroscience Research, University at Albany, NY

P3.26 Neonatal exposure to a clinically relevant progestin alters behavior associated with the stress response in adult male rats
Krystyna A. Rybka[1], Paige L. Graney[1], Allyssa Fahrenkopf[2], Damian G. Zuloaga[1], Christine K. Wagner[1]
[1]Department of Psychology & Center for Neuroscience Research, University at Albany, NY.
[2]Neuroscience Department, Novartis Institute for Biomedical Research (NIBR)

P3.27 Effects of early testosterone administration on myelin and neurogenesis of vocal motor neural circuits and song development in male zebra finches.
Adriana Diez, Kevin Young & Scott A. MacDougall-Shackleton
University of Western Ontario, Canada

P3.28 Rapid neuroestrogen modulation of specific neuronal cell types in the songbird auditory forebrain
Hyejoo Kang, Luke Remage-Healey
University of Massachusetts Amherst, Amherst, MA, USA

P3.29 Sex-dependent auditory responses to vocalizations in the ventromedial nucleus of the hypothalamus
Jeremy A. Spool, Paulina Chen, Luke Remage-Healey
University of Massachusetts Amherst

P3.30 An aggressive interaction rapidly increases brain androgens in an adult male songbird during the non-breeding season
Cecilia Jalabert, Sofia L. Gray, Kiran K. Soma
University of British Columbia, Vancouver, BC, Canada

P3.31 Single-Cell Transcriptomics of the Mouse Medial Preoptic Area Reveals Sex-Dependent Molecular Signatures of Social Dominance
Isaac Miller-Crews[1], Tyler M. Milewski[2], Hans A. Hofmann[1,3], and James P. Curley[2,3]
[1]Department of Integrative Biology, [2]Department of Psychology, [3]Institute for Neuroscience, The University of Texas at Austin, Austin, TX 78712

P3.32 Real-time assessment of volatile organic compound emissions from freely behaving mice in dominance hierarchies
Madeleine F. Dwortz[1,2], Mitchell J. Thompson[3], Pawel K. Misztal[3], James P. Curley[1]
[1] Department of Psychology, University of Texas at Austin, Austin, TX, USA; [2] Institute for Neuroscience, University of Texas at Austin, Austin, TX, USA; [3] Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin, Austin, TX, USA

P3.33 Development and prenatal androgenization (PNA) alter the properties of voltage-gated potassium currents in gonadotropin-releasing hormone (GnRH) neurons.

Jennifer Jaime[1]and Suzanne M. Moenter[1,2,3,4,5]

[1]The Neuroscience Graduate Program, [2]Departments of Molecular & Integrative Physiology, [3]Internal Medicine, [4]Obstetrics & Gynecology, [5]the Reproductive Sciences Program, University of Michigan, Ann Arbor, MI 48109, USA

P3.34 Acute stress that disrupts the LH surge does not alter excitatory input to GnRH neurons and cannot be recapitulated by corticosterone

Amanda G. Gibson[1,2], Elizabeth R Wagenmaker[1], Bo Dong[6], and Suzanne M Moenter[1, 2, 3, 4, 5.]

[1] Departments of Molecular & Integrative Physiology; [2]. Neuroscience Graduate Program; [3]. Internal Medicine; [4]. Obstetrics & Gynecology; [5]. Reproductive Sciences Program; [6]. Pharmaceutical Sciences. University of Michigan, Ann Arbor, MI, 48109, USA

P3.35 Sex and food: Reproduction and energy homeostasis in a fish with alternative reproductive tactics

Savvy L. Cornett[1], Molly E. Cummings[1], Hans A. Hofmann[1,2]

[1]Department of Integrative Biology,[2]Institute for Neuroscience, The University of Texas at Austin, Austin (TX), USA

P3.36 Letrozole treatment alters hippocampal gene expression in common marmosets (Callithrix jacchus)

Mélise Edwards, Sam Lam, Ravi Ranjan, Mariana Pereira, Courtney Babbitt, Agnès Lacreuse

University of Massachusetts Amherst, USA

P3.37 Can a brain-selective estrogen therapy alleviate symptoms of estrogen deficiency? Preliminary data in marmosets

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P3.38 Neuroestrogen synthesis supports neural and behavioral discrimination of auditory scenes in female zebra finches

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P3.39 Cognition in aging humans is affected by reproductive experience, genotype, and age of menopause

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P3.40 Sex differences in anxiety-like and hedonic-seeking behaviors in juvenile Siberian hamsters

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