

Poster Session I (poster presenter is underlined)

Three poster sessions will be held during the meeting to provide an informal exchange of information and allow trainees to network with established scientists.

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

Ingrida Zelionkaitė¹, Rimantė Gaižauskaitė¹, Helen Uusberg², Andero Uusberg², Birgit Derntl³, Ramunė Grikšienė¹

¹Department of Neurobiology and Biophysics, Vilnius University, Lithuania

²Institute of Psychology, University of Tartu, Estonia

³Department 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 Rogers¹, Tiffany Lam¹, Albatool Al Khazal¹, Diego Magana Gonzalez³, Sabrina Mederos⁴, Karen Ryan³, and Karen Bales^{1,2,3}

¹Psychology Department, University of California, Davis; Davis, CA, USA 95616

²California National Primate Research Center, University of California, Davis; Davis, CA, USA 95616

³Neurobiology, Physiology, and Behavior, University of California, Davis; Davis, CA, USA 95616

⁴Animal Behavior Graduate Group, University of California, Davis; Davis, CA, USA 95616

P1.7 Androgen regulation of corticotropin releasing factor receptor 2

Jennifer Lafrican¹, Katherine Parra¹, Sophia Levit¹, Jayden Ladison¹, Krystyna Rybka¹, Nicholas Justice², Damian Zuloaga¹

¹University at Albany, Department of Psychology, Albany, NY 12222, USA

²Center 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 Fusan^{1,2,3}, Andreia Ramos¹, Sara D. Cardoso¹, David M. Gonçalves¹

¹Institute of Science and Environment, University of Saint Joseph, Macau

²Instituto Universitario, Lisboa, Portugal

³Instituto 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 Kareklas², Rita Nunes², Rafael Infantes², Pedro Rego², Marta Liber², Rita Gageiro², Ozge Pekin², Carla Henriques², Manuel Sapage², Jingtao Lilue², Rui F. Oliveira^{2,3,4}

¹*Instituto Universitário, William James Center for Research, Lisbon, Portugal*

²*Gulbenkian Institute of Science, Integrative Behavioral Biology Laboratory, Oeiras, Portugal*

³*Instituto Universitário, School of Biosciences, Lisbon, Portugal*

⁴*Champalimad 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 Ferlinc², Katharina Hirschenhauser³, Barbara Taborsky⁴, Leonida Fusani^{1,2} & Sabine Tebbich²

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 Degroot¹, Benjamin A. Samuels², Troy A. Roepke¹

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 Dudas¹, Emmanuel Pecnard¹, Anil Annamneedi¹, Anne-Charlotte Trouillet², Pablo Chamero², Lucie Pellissier¹

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

1.16 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 Espineda¹, Annaliese Beery⁶

¹*Department of Psychiatry and Behavioral Sciences*

²*Center for Integrative Neuroscience*

³*Weill Institute for Neurosciences*

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*

7 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 Gora¹, Ana Dudas¹, Océane Vaugrente¹, Gaëlle Lefort², Emmanuel Pecnard¹, Lucile Drobecq¹, Lucas Court¹, Anil Annamneedi^{1,3}, Pascale Crepieux¹, Lucie Pellissier¹

¹Team BIOS, Unité PRC, Centre INRAE Val de Loire, Nouzilly, France, ²Platform ISLANDe, Unité PRC, Centre INRAE Val de Loire, Nouzilly, France, ³current address: Department of Biotechnology, Faculty of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur, Chennai, India

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}

¹Department of Integrative Biology and Physiology ²Laboratory of Neuroendocrinology of the Brain Research Institute ³Molecular, 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 Ayoub¹, Marina Galleazzo Martins^{1,2}, Zachary Silver¹, Lindsay Hyland¹, Barbara Woodside¹, Ana Carolina Inhasz Kiss², Alfonso Abizaid¹

¹Department of Neuroscience, Carleton University, Ottawa, Ontario, Canada

²Department 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}.

¹Laboratory of Neuroendocrinology, Neuroscience Institute Cavalieri Ottolenghi (NICO), Regione Gonzole 10, Orbassano, Torino, Italy.

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

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

Kirthana Kunikullaya U^{1, 2}, Christine Kervarrec¹, Francois Brion³, Elisabeth Pellegrini¹, Thierry D Charlier¹

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 Martina², Ostuni Marialaura Teresa², Nasini Sofia⁴, Marraudino Marilena^{1,2}, Panzica Giancarlo^{1,2} †, Gotti Stefano^{1,2}

¹ Department of Neuroscience “Rita Levi-Montalcini”, University of Turin, Via Cherasco 15, 10126 - Turin, Italy.

² Neuroscience Institute Cavalieri Ottolenghi (NICO), Regione Gonzole 10, 10043 - Orbassano, Turin, Italy.

³ Department of Chemical and Pharmaceutical Sciences and Biotechnology, University of Camerino, Cavour 19/f 62032 square Camerino (MC), Italy.

⁴ Department of Pharmaceutical and Pharmacological Sciences, University of Padua, Largo Meneghetti 2, 35131 Padua (PD) – Italy

† 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. Marquardt³, Jonathan W. VanRyzin², Max D. Burzinski², and Margaret M. McCarthy^{2,3}

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

² Department of Pharmacology, University of Maryland School of Medicine, Baltimore, MD, USA

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

¹Program in Neuroscience, ²Department of Pharmacology, ³Institute for Genome Sciences, and ⁴Department 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-Simons², Wade Bushman³, Walid Farhat³, Anthony Auger²

¹Wisconsin National Primate Research Center, USA

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

³Department 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 Jaric¹, Océane La Loggia¹, Jovana Malikovic², Janja Novak¹, Bernhard Voelkl¹, Irmgard Amrein², Hanno Würbel¹

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

²Institute 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 Alaniz¹, Ariana Hinojosa^{1,3}, Fernando Dominguez^{1,3}, Katelynn Renteria², Truc Lee^{1,3}, Brooklynne Barnes^{1,3}, Ismael Perez¹, Cristian Botello¹, John L. VandeBerg⁴, and Mario Gil^{1,5}

¹Department of Psychological Science

²Department of Behavioral and Social Science; Texas Southmost College

³Department of Health and Biomedical Sciences

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

⁵School 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 Aspesi⁵, Camilla Vitali², Marilena Marraudino^{1,2}, Alice Farinetti², Stefano Gotti^{1,2}

**these authors equally contributed to the work.*

¹ Department of Neuroscience "Rita Levi-Montalcini", University of Turin, Via Cherasco 15, 10126 - Turin, Italy.

² Neuroscience Institute Cavalieri Ottolenghi (NICO), Regione Gonzole 10, 10043 - Orbassano, Turin, Italy.

³ Department of Pharmaceutical and Pharmacological Sciences, University of Padua, Largo Meneghetti 2, 35131 Padua (PD) – Italy

⁴ Department of Chemical and Pharmaceutical Sciences and Biotechnology, University of Camerino, Cavour 19/f 62032 square Camerino (MC), Italy.

⁵ Department of Psychology and Neuroscience Program, University of Guelph, Guelph, ON, Canada

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 Hébert¹, Eira Ihalainen¹, Sophie C. Edwards^{1,2}, Simone L. Meddle³, Susan D. Healy¹

¹ Centre for Biological Diversity, School of Biology, University of St Andrews, St Andrews, Fife, KY16 9TH, UK.

² School of Psychology & Neuroscience, University of St Andrews, Westburn Lane, St Andrews, Fife, KY16 9JP, UK.

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

Southwestern University 1001 E. University ave, Georgetown, TX USA 78626

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

Sonia A. Cavigelli^{1,2}, Elyse K. McMahon^{1,2,3}

¹ Department of Biobehavioral Health, Pennsylvania State University, University Park PA 16802

² Center for Brain, Behavior, and Cognition, Pennsylvania State University, University Park PA 16802

³ Department of Microbiology, Immunology and Tropical Medicine George Washington University, Washington, DC 20037

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