

Poster presentations

(the name of the poster presenter is underlined)

Poster session 3 - Thursday, June 29th – from 4.20 pm to 6.20pm

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 Pharmacology, 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 Characterization of androgen receptor (AR), endocannabinoid (EDC) receptors, and complement proteins in the developing amygdala

Muhammed Z. Mirza, Miguel Perez-Pouchoulen, Jonathan W. VanRyzin, and Margaret M. McCarthy
Department of Pharmacology, University of Maryland School of Medicine, Baltimore, MD, 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
Zoology Department, University of British Columbia, Vancouver, Canada

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

Laboratory of Organismal Biology, Stanford University, USA

P3.13 Unraveling the evolution of female aggression in poison frogs: a neuroendocrine approach

Camilo Rodríguez

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. Parra¹, R.M. De Guzman¹, J.J. Lafrican¹, K.A. Rybka¹, J.M. Ladison¹, A.V. Della Posta¹, A.E. Neuwirth¹, L. Ugartemendia Ugalde², N.J. Justice², D.G. Zuloaga¹

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 Doan¹, Kavya Swaminathan², Erin Henshaw³, Alexa Aringer⁴, Teresa Wood⁵, Marie Lockhart⁵

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. Sailer¹, Faith A. Parris¹, Radia Basher¹, Lauren A. O'Connell², Alexander G. Ophir¹

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 Lake¹, Emily C. Wright¹, Zhana D. Prince¹, Valentina Cea Salazar², Melody Wu³, Jessica Tollkuhn³, Brian C. Trainor¹²

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 Meling¹, Noelle James¹, Rachel Eggleston¹, Lindsay Clark², Paul Bonthuis^{1,3}

¹Department of Comparative Biosciences, University of Illinois, Urbana, IL, USA

²HPCBio, Roy J. Carver Biotechnology Center, University of Illinois, Urbana, IL, USA

³GNDP 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 17 α -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. Rybka¹, Paige L. Graney¹, Allyssa Fahrenkopf², Damian G. Zuloaga¹, Christine K. Wagner¹

¹Department of Psychology & Center for Neuroscience Research, University at Albany, NY.

²Neuroscience 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^(Professor)

University of Western Ontario, Canada

P3.28 Rapid neuroestrogen modulation of specific neuronal cell types in the songbird auditory forebrain

Hyejoo Kang, Luke Ramage-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 Ramage-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^(Professor)

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-Crews¹, Tyler M. Milewski², Hans A. Hofmann^{1,3}, and James P. Curley^{2,3}

¹Department of Integrative Biology, ²Department of Psychology, ³Institute 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. Dworz^{1,2}, Mitchell J. Thompson³, Pawel K. Misztal³, James P. Curley¹

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 Jaime¹ and Suzanne M. Moenter^{1,2,3,4,5}

¹The Neuroscience Graduate Program, ²Departments of Molecular & Integrative Physiology, ³Internal Medicine, ⁴Obstetrics & Gynecology, ⁵the 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 Wagenmaker¹, Bo Dong⁶, 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

Sawyer L. Cornett¹, Molly E. Cummings¹, Hans A. Hofmann^{1,2}

¹Department of Integrative Biology, The University of Texas at Austin, Austin (TX), USA

²Institute 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

Hannah Courmoyer¹, Nicholas Kania¹, Mitesh Malaviya¹, Abigail Monroy Duenas¹, Istvan Merenthaler², Laszlo Prokai³, Agnès Lacreuse¹

¹ Psychological and Brain Sciences, University of Massachusetts, Amherst, MA, USA

² Pharmacology, University of Maryland School Med, Baltimore, MD, USA

³ Pharmacology & Neuroscience, University of North Texas, Fort Worth, TX, USA

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

Marcela Fernández-Vargas^{1,2}, Matheus Macedo-Lima^{1,3} and Luke Ramage-Healey¹

¹Neuroscience and Behavior, Center for Neuroendocrine Studies, University of Massachusetts Amherst, Amherst MA, USA

²Department of Psychology, Neuroscience Program, Colorado College CO, USA

³Department of Biology, University of Maryland MD, USA.

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

Tanvi A. Puri^{1,2,3}, Ulrike Meyer⁴, Arianne Y. Albert⁴, Liisa A. M. Galea^{2,3,5}

¹ Graduate Program in Neuroscience, University of British Columbia, Vancouver, BC

² Djavad Mowafaghian Center for Brain Health, University of British Columbia, Vancouver, BC

³ Department of Psychology, University of British Columbia, Vancouver, BC

⁴ Women's Health Research Institute

⁵ Centre for Addiction and Mental Health, Toronto, ON

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

Zoey Forrester-Fronstin¹, Amanda Mondschein¹, Jordan Johnson¹, Jasmine Greggs¹, Emily Jiminez², Matthew Paul¹

¹ Department of Psychology, University at Buffalo SUNY, Buffalo, NY

² Department of Biological Sciences, University at Buffalo SUNY, Buffalo, NY