14th WORLD CONGRESS ON NEUROHYPOPHYSIAL **HORMONES**



ATLAN T A

			_	40
. ı n	urs	ผลพ		16

1:00 - 4:00 p.m. Registration

Opening session (Theater) 3:45 - 4:00 p.m.

4:00 - 5:00 p.m. Plenary lecture (Theater):

Rae Silver Columbia University, USA

Portal pathways in the brain: Their potential for transporting neurovascular

peptidergic signals

Chair: Mike Ludwig University of Edinburgh, Scotland

5:00 - 7:00 p.m.

Welcome Reception (Rotunda and Crystal Dinning Room)

Friday, May 17

8:30 - 9:15 a.m. Plenary session: Mortyn Jones Lecture (Theater) Charles Bourque, McGill University, Canada

Osmotic Control of Vasopressin: What we have learned since Verney and

Andersson?

Chair: Colin Brown University of Otago, New Zealand

9:15 - 9:30 a.m. Coffee Break (Rotunda and Crystal Dining Room)

9:30 - 11:10 a.m. Symposium 1 (Theater):

> Central Mechanisms in AVP and OXT information processing in health and disease

Chair: Jeff Tasker Tulane University, USA

Alexandre Charlet Centre National de la Recherche Scientifique, France 9:30 - 9:55 a.m. Astrocytes in Mice Central Amygdala Mediates Oxytocin-dependent Behavioral

Adaptation

Tom Cunningham UNT Health Science Center, USA 9:55 - 10:20 a.m.

Sex-based Differences in Control of Neurohypophysial Hormones in a Model of

Hyponatremia Adaptation

10:20 - 10:45 a.m. Zhihua Gao Zhejiang University, China

The Coordinative Role of Oxytocin Endocrine Neurons in Peripheral and Central

Regulation

10:45 - 11:10 a.m. Mike Ludwig University of Edinburgh, Scotland

Salt-loading Reduces Central Osmoresponsiveness in Magnocellular Supraoptic

Neurons In-vivo

11:10 – 11:30 a.m.	Coffee Break (Rotunda and Crystal Dining Room)
11:30 a.m 1:10 p.m.	Symposium 2 (Theater): New Models and Approaches in AVP and OXT Research Chair: Yoichi Ueta University of Occupational and Environmental Health, Japan
11:30 - 11:55 a.m.	Alec Davidson Morehouse School of Medicine, USA Longitudinal Imaging of AVP Neuronal Behavior In-Vivo
11:55 a.m 12:20 p.m.	Lang Geng Beijing University, China Development and Optimization of Genetically Encoded Sensors for Oxytocin and Arginine Vasopressin
12:20 - 12:45 p.m.	Quirin Krabichler Heidelberg University, Germany A Novel Transgenic Rat to Tackle the Behavioral Roles of Magnocellular Vasopressin Neurons
12:45 - 1:10 p.m.	Arthur Lefevre University of California San Diego, USA Marmoset Monkeys as a Model of OT Action in Primates
1:10 – 2:00 p.m.	Lunch (Rotunda and Crystal Dinning Room)
2:00 – 3:00 p.m.	Data Blitz (Theater)
3:00 - 4:40 p.m.	Symposium 3 (Theater): The Bob Schrier Memorial Symposium Coordinated Central and Periferal Actions of AVP and OXT Chair: Joe Verbalis Georgetown University, USA
3:00 - 3:25 p.m.	Cihan Atila University of Basel, Switzerland Are Patients with AVP-Deficit also Oxytocin deficit?
3:25 a.m 3:50 p.m.	Annette de Kloet Georgia State University, USA Exploring Signaling Amongst Neurohypophyseal Hormones: A Complex Discourse that'll Elevate Your Blood Pressure
3:50 - 4:15 p.m.	David Mendelowitz George Washington University, USA Oxytocin Receptor Co-Localization in Brainstem Parasympathetic Cardiac Vagal Neurons
4:15 - 4:40 p.m.	Takumi Oti Okayama University, Japan Oxytocinergic Control Circuits in the Spinal Cord for Male Sexual Behavior
4:40 – 5:15 p.m.	Coffee Break (Rotunda and Crystal Dinning Room)

5:15 - 6:55 p.m.	Symposium 4 (Theater): Comparative Neuroendocrinology of AVP and OXT Systems Chair: Margarita Curras-Collazo University of California, Riveside, USA Rui Oliveira ISPA Instituto Universitario, Portugal
5:15 - 5:40 p.m.	Christian Gruber Medical University of Vienna, Austria Biological Function and Pharmacological Potential of Oxytocin Signaling in Ants
5:40 - 6:05 p.m.	Rui Oliveira ISPA Instituto Universitario, Portugal Evolutionarily Conserved Mechanism of Oxytocin in the Regulation of Social Behavior in Zebrafish
6:05 - 6:30 p.m.	Allison Perkeybile University of Virginia, USA Making Mothers: Pregnancy, Birth, and Epigenetic Regulation of the Maternal Oxytocin Receptor Gene
6:30 - 6:55 p.m.	Hirotaka Sakamoto Okayama University, Japan Vasopressin/Oxytocin Peptide-signaling in Marine Planarians Functions as an Antidiuretic before Vascular System Acquisition and Synapse Evolution
Saturday, May 18	
8:30 - 9:15 a.m.	Plenary lecture (Theater): Tatsushi Onaka Jichi Medical University, Japan Metabolic and Stress-coping Actions of Oxytocin Chair: Sue Carter Indiana University, USA
9:15 – 9:30 a.m.	Coffee Break (Rotunda and Crystal Dinning Room)
9:30 - 11:10 a.m.	Symposium 5 (Theater): Young Investigators in AVP and OXT Research Chair: Ryoichi Teruyama Louisiana State University, USA
9:30 - 9:50 a.m.	Shelling Buffington Baylor College of Medicine, USA Microbial Modulation of the Oxytocin-mesocorticolimbic Dopaminergic Pathway in Mouse for Autism
9:50 - 10:10 a.m.	Alex Castillo-Ruiz Georgia State University, USA Long-term Effects of Cesarean Birth on Vasopressin and Oxytocin Neurons
10:10 - 10:30 a.m.	Tim Gruber Van Andel Institute, USA High-calorie Diets Uncouple Hypothalamic Oxytocin Neurons from a Gut-to-Brain Satiation Pathway Via K-opiod Signaling
10:30 - 10:50 a.m.	Matt Kirchner Georgia State University, USA Changes in Neuropeptide Large Dense Core Vesicle Trafficking Dynamics Contribute towards Adaptive Responses to a Systemic Homeostatic Challenge
10:50 - 11:10 a.m.	Elena Kozlova University of California Riverside, USA Thyrod Dependent Disruption of Oxytocin and Gut Microbiome in an Environmental Autism Mouse Model

11:10 – 11:30 a.m.	Coffee Break (Rotunda and Crystal Dinning Room)
11:30 a.m 1:10 p.m.	Symposium 6 (Theater): The Dr. Larry J. Young Memorial Symposium AVP and OXT in Neuropsychiatric Disorders Chair: Dev Manoli University of California San Francisco (UCSF) & Karen Parker Stanford University, USA
11:30 - 11:55 a.m.	Katrina Choe McMaster University, Canada Investigating the Link Between ASD-risk Genes, Oxytocin, and Social Behavior
11:55 a.m 12:20 p.m.	Karen Parker Stanford University, USA Vasopressin: A Trans-primate Biomarker of Social Impairment and Promising Treatment for Autism
12:20 - 12:45 p.m.	Yannis Paloyelis King's College London, UK Unravelling the Pharmacodynamics of Oxytocin Using Functional Neuroimaging
12:45 - 1:10 p.m.	Julia Winter University of Pennsylvania, USA Acute Versus Chronic Matters: Differential Behavioral and Molecular Effects of Oxytocin
1:10 – 3:00 p.m.	Lunch (Rotunda and Crystal Dinning Room)
1:10 – 3:00 p.m.	Poster Session 1 (Magnolia/Sugarberry/Cottonwood)
3:00 - 4:40 p.m.	Symposium 7 (Theater): Developmental Roles of OXT and AVP Chair: Elizabeth Hammock Florida State University, USA
3:00 - 3:25 p.m.	Bice Chini Milan Center for Neuroscience, Italy Neonatal Oxytocin Administration in Mouse Models of Neurodevelopmental Disorders: Long Lasting Rescue Effects
3:25 a.m 3:50 p.m.	Heather Caldwell Kent State University, USA Consequences of Altered Oxytocin and Vasopressin Signaling During Embryonic Development
3:50 - 4:15 p.m.	Bruce S. Cushing UT El Paso, USA Neonatal Organizational Effects of Oxytocin and Subsequent Behavioral Expression in Prairie Voles (<i>Microtus ochrogaster</i>)
3:14 - 4:40 p.m.	William Kenkel University of Delaware, USA The Role of Oxytocin in the Metabolic Consequences of Delivery by Cesarean
4:40 - 5:00 p.m.	Journal of Endocrinology: Brief Report and Breaking News (Theater): Presenter: Michael N. Lehman, Editor in Chief, Fundamental and Mechanistic Neuroendocrinology

8:30 - 9:15 a.m.	Plenary session (Theater): Rob Froemke New York University, USA Love, Death, and Oxytocin Chair: Gil Levkowitz The Weizmann Institute, Israel
9:15 – 9:30 a.m.	Coffee Break (Rotunda and Crystal Dinning Room)
9:30 - 11:10 a.m.	Symposium 8 (Theater): Emerging Roles of AVP and OXT on the Neurovascular Unit and Brain Microvessels Chairs: Maurice Manning University of Toledo, USA & Bice Chini Milan Center for Neuroscience
9:30 - 9:55 a.m.	Marta Busnelli Consiglio Nazionale delle Reserche, Italy The Oxytocin System Plays a Key Role in Brain Microvascular Development
9:55 - 10:20 a.m.	Gil Levkowitz The Weizmann Institute, Israel Oxytocin May Facilitate its Own Peripheral Uptake by Regulating Blood Flow Dynamics
10:20 - 10:45 a.m.	Ranjan Roy Georgia State University, USA Vasopressin-mediated Neurovascular Coupling in Health and Disease States
10:45 - 11:10 a.m.	Special Talk (Theater): Larry Yong's Scientific Contributions (Theater) Arjen Boender Emory University, USA Natural Variation on Oxytocin Receptor Signaling Causes Widespread Changes in Neural Gene Expression: A link to the Natural Killer Gen Complex
11:10 – 11:30 a.m.	Coffee Break (Rotunda and Crystal Dinning Room)
11:30 a.m 1:10 p.m.	Symposium 9(Theater): Neurohypophysial Hormones and Sensory Processing Chair: Quentin Pittman University of Calgary, Canada
11:30 - 11:55 a.m.	Elizabeth Hammock Florida State University, USA Oxytocin in Sensory-Dependent Social Development
11:55 a.m 12:20 p.m.	Eric Krause Georgia State University, USA Studying Mechanosensitive Vagal Afferents that Express Oxytocin Receptors: Gut Feelings are Also Matters of the Heart
12:20 - 12:45 p.m.	Michael Perkinson Otago University, New Zealand Unveiling the Dynamics of Oxytocin Activity and Somatodendritic Release in Freely Behaving Rodents
12:45 – 1:30 p.m.	Lunch (Rotunda and Crystal Dinning Room)
1:10 – 3:00 p.m.	Poster Session 2 (Magnolia/Sugarberry/Cottonwood)

3:00 - 4:40 p.m.	Symposium 10 (Theater): Emerging Areas in the Neurohypophysial Hormones Field Chair: Masha Prager-Khoutorsky McGill University, Canada
3:00 - 3:25 p.m.	James Blevins University of Washington and VA Puget Sound Health care System, USA Efficacy of Oxytocin as a Monotherapy and Combination Therapy to Treat Obesity
3:25 a.m 3:50 p.m.	Michael Greenwood University of Bristol, UK Using Quantitative Phosphoproteomics to Explore Hypothalamo-neurohypophysial System Cellular Signalling
3:50 - 4:15 p.m.	Andre Mecawi Federal University of Sao Paulo, Brasil Single-cell Transcriptomics of Hypothalamic Magnocellular Neurons: Unraveling Cellular Diversity, Activity-Associated Genes, and Interspecies Integration
3:50 - 4:15 p.m.	Tian Xue University of Science and Technology of China, China Light Promoted Brain Development: ipRGC, Oxytocin and Synaptogenesis
4:40 – 5:15 p.m.	Coffee Break (Rotunda and Crystal Dinning Room)
5:15 - 6:55 p.m.	Symposium 11 (Theater): Neurohypophysial Hormones Control Social and Defensive Behaviors in a Sex-, Age-, and Receptor-specific Manner Chairs: Hala Harony-Nicholas Icahn School of Medicine, & Joanna Dabrowska Rosalind Franklin University of Medicine and Science, USA
5:15 - 5:35 p.m.	Alice Sanson University of Regensburg, Germany Neuropeptides Trigger Maternal Care and Aggression in Lactating Rats: Influence of the Stress System
5:35 - 5:55 p.m.	Joanna Dabrowska Rosalind Franklin University of Medicine and Science, USA The Integration of Interoceptive Signals and Defensive Behaviors Via Neurohypophysial Hormones in the Bed Nucleus of the Stria Terminalis (BNST)
5:55 - 6:16 p.m.	Aras Petrulis Georgia State University, USA Sex-specific Regulation of Social Motivation by Extrahypothalamic Vasopressin
6:15 - 6:35 p.m.	Brian Trainor University of California, Davis, USA Transcriptional Effects of Social Stress on Oxytocin Neurons in Female California Mice
6:35 - 6:55 p.m.	Samantha Bowden Michigan State University, USA Regulation of Juvenile Social Behaviors by Oxytocin and Vasopressin System in the Brain
7:00 – 9:00 p.m.	Award ceremony and Closing Banquet (Magnolia)
9:00 – 11:00 p.m.	Post-meeting party