RegPep25 Scientific Program

American University, Washington D.C. June 23-27, 2025 25th International Symposium on Regulatory Peptides



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International Regulatory Peptide Society Incorporated

Bethesda, MD, 20814 secretariat@irps-regpep.org

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Program Organizing Committee (POC) IRPS Executive Committee RegPep25

Meeting organizers:

Colin Saldanha

Director, Center of Neuroscience and Behavior (CNB) American University, Washington D. C., USA

Limei Zhang, IRPS President Lee Eiden, IRPS Treasurer Vito Hernández, IRPS Secretary Terry Davidson, Past-Director of CNB and RegPep25 Honorary Co-Chair

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Journal of Neuroendocrinology







Monday, June 23, 2025

Pre-RegPep25 special event Five Generations of Research Celebrating 50 years of RegPep

Constitution Hall, AU Discussion leader: Greti Aguilera and Ruud Buijs

	 08:00 – 08:45 IRPS DM) 	Dick Swaab (Ne	therlands Institute for Neuroscience, KNAW, Amsterdam, The Netherlands,	
		"Neuro	opeptide pioneers"	
	• 08:45 - 09:30	John Furness (L	Iniversity of Melbourne, Australia, IRPS DM)	
		"Gut p	eptides from the beginning and looking to the future"	
	• 09:30 - 10:30	RegPep pioneer	r s roundtable : panelists TBC.	
	• 10:00 - 12:00	RegPep young investigator symposium (YIS)		
		Co-Ch	airs: Alan Kania (Germany) & Rebeca Mendez (USA/Mexico)	
		YIS1: Lei Xia	o (Fudan University, China)	
		"Divers	sity and complexity of the hypothalamic oxytocinergic system in neurons,	
		circuit	s and functions"	
		YIS2: Alan K	ania (University of Heidelberg, Germany)	
			cin signaling in the nucleus incertus: implications for trans-ventricular brain nodulation"	
			a Mendez (U. Penn, Philadelphia, USA & Mexico)	
			dian regulation of vagal glucose sensing and insulin secretion by the CART"	
			liva (Pontific Catholic University of Chile, Chile)	
			growth factor (NGF) as a modulator of reproductive and neuroendocrine	
		peptid		
			ndra Trenk (Jagiellonian University, Krakow, Poland)	
			gent neuromodulatory roles of relaxin-3 and oxytocin in the ventral dentate gyrus"	
		YIS5: Mario	Zetter (UNAM/LaSalle University, Mexico)	
			Zetter (UNAM/LaSalle University, Mexico) neurogenesis and migration in magnocellular AVP system"	
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			neurogenesis and migration in magnocellular AVP system"	
	14:00 - 14:15	"Adult	neurogenesis and migration in magnocellular AVP system" RegPep25 Inaugural Ceremony	
•		"Adult Welcome from th	neurogenesis and migration in magnocellular AVP system" RegPep25 Inaugural Ceremony Constitution Hall, American University e AU-CNB and introduction of RegPep25 by the Co-Chairs	
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•		"Adult Welcome from th PL1: Inaugural Ple	neurogenesis and migration in magnocellular AVP system" RegPep25 Inaugural Ceremony Constitution Hall, American University e AU-CNB and introduction of RegPep25 by the Co-Chairs nary Lecture 1: Michael Greenberg (Harvard University, USA)	
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•	17:00 - 21:00	Welcome Reception & Poster Presentation
		Mary Graydon Center, AU

7:00 - 8:00 Breakfast (buffet), Terra	ace Dining Room			
Room A (Scientific session SS)	Room B (Scientific session SS)			
SS1: Relaxin Family Peptides: From Brain Circuits to Therapeutic Frontiers	SS2: Neuropeptidergic Control of Reproduction and Beyond: Insights from Kisspeptin and Oxytocin Circuits			
Chair: Juan Marugan (NCATS, NIH, USA) 08:00 - 08:05 Introduction 08:05 - 08:30 Akhter Hossain (Melbourne, Australia) "RXFP4 and INSL5, physiological roles and therapeutic implications" 08:30 - 08:55 Irina Agoulnik (Florida, USA) "INSL3 and its receptor RXFP2" 08:55 - 09:20 Francisco Olucha-Bordonau (Castellón, Spain) "Connectivity of relaxin-3 projections related to cognitive and emotional processes" 09:20 - 09:45 Ross Bathgate (Australia) "Therapeutic targeting of the relaxin receptor, RXFP1" 09:45 - 09:50 General discussion/conclusion	Chair: Mike Lehman (USA) 08:00 - 08:05 Introduction 08:05 - 08:30 Martin Kelly (Oregon, USA) "The Role of Hypothalamic Arcuate Kisspeptin Neurons as the Gatekeepers of Fertility" 08:30 - 08:55 Michael Lehman (Ohio, USA) "KNDy neurons of the hypothalamus: an update of their roles in health and disease" al 08:55 - 09:20 Vito Hernandez (UNAM, Mexico) "Kisspeptin Signaling Beyond Reproduction: Chemoanatomical Characterization and Functional Insights" 09:20 - 09:45 Ryoichi Teruyama (Louisiana State Univ, Baton Rouge, USA) "Sexually dimorphic oxytocin system in the CNS" 09:45 - 09:50 General discussion/conclusion			
Short break				
SS3: Neuropeptides and Social Motivation: Circuits Shaping Behavior, and Choice	Sex SS4: Neuropeptides and Emotional Brain States: From Circuit Salience to Synaptic Precision			
Chair: David Keller (Germany)	Chair: Francesco Ferraguti (Austria/Italy) 10:00 - 10:05 Introduction			
 10:00 - 10:05 Introduction 10:05 - 10:30 Aras Petrulis (GSU, USA) "Vasopressin in the lateral septum drives sex-specific social interest" 10:30 - 10:55 Mario Gil (Texas, USA) "Social and Sexual Behaviors Regulated by AVP and OT in Rodent Forebrand Midbrain" 10:55 - 11:20 David Keller (University of Cologne, Germany) "Complementary roles of neurotensin and somatostatin cells in the late septum in regulating sex-dependent social interactions and feeding behavior" 11:20 - 11:45 Ki Goosens (Icahn School of Medicine at Mount Sinai, US. "Regulation of complex decision-making by ghrelin" 11:45 - 11:50 General discussion/conclusion 	10:05 - 10:30 Norbert Hajos (IN, USA) "VIP-containing midbrain input to central amygdala controls contextual fear memory formation" ain 10:30 - 10:55 Claudia Schmuckermair (U. Innsbruck, Austria) "Control of salience detection by VIPergic insular interneurons: implications for anxiety in Autism Spectrum Disorders" aral 10:55 - 11:20 Limei Zhang (UNAM, Mexico) Neuropeptide in fast synaptic transmission: molecular and ultrastructural features of subcortical peptidergic synapse 11:00 11:06 Among Diagiak (logiallopian University Krakow Boland)			
• 12:00 - 13:00 Lunch (buffet), Terrace Dining Room				
12:00 12:45 Distriction (New York University USA) interduced by Deve Oretter				

•	13:00 - 13:45	PL4: Dayu Lin (New York University, USA) introduced by Dave Grattan "The neural mechanisms underlying the rise and fall of maternal aggression"
		Short break
•	14:00 - 16:00	KS1: Keynote symposium 1. Chair: Limei Zhang (IRPS President)
		Wilson Campton (Deputy director of NIDA, NIH, USA) "Harnessing GLP-1 agonists to understand and treat addictions"
		William Wisden (Imperial College, London, UK) "The impact of molecular neurobiology on modern neuroendocrinology"
		Luis de Lecea (Stanford School of Medicine, USA) "Neuropeptides and control of behavioral states"
		Short break
•	16:10 - 17:30	Workshop on translational aspects of peptide GPCRs. Chair: Bob Millar
		Bob Millar (University of Pretoria, South Africa) "Rescue of mutant peptide GPCRs in the HPG axis with small molecules: a more viable therapy than gene editing"
		Terry Moody (NIH, USA) "Leveraging receptor visualization to cancer treatment: bombesin and theragnostics"
		Mary Lee (VA, Washington DC, USA) "GLP-1R agonists and sodium glucose transport inhibitors in treatment of dementia"

• 7:00 - 8:00

Breakfast (buffet), Terrace Dining Room

Room A (Scientific session SS)	Room B (Scientific session SS)				
SS5: Peptides Involved in Energy Regulation	SS6: Neuropeptidergic Integration of Emotion, Fear, and Social Behavior				
Chair: Jean-Louis Charli (Mexico)	Chair: Joanna Dabrowska (USA)				
08:00 - 08:05 Introduction	08:00 - 08:05 Introduction				
08:05 - 08:30 Jean-Louis Charli (UNAM, Mexico) "The TRH degrading ectopeptidase and energy homeostasis"	08:05 - 08:30 Hala Harony-Nicolas (Mount Sinai, New York City, USA)				
08:30 - 08:55 Patricia Joseph-Bravo (UNAM, Mexico) "Sex-dependent regulation of TRH and thyroid axis by food, cold, exercise and stress-related energy demands"	"Brain circuits of social behavior with a focus on social recognition memory and the role of oxytocin on neuronal activity and behavior" 08:30 - 08:55 Eric G. Krause (Georgia State University, USA)				
08:55 - 09:20 Margarita Curras-Collazo (UC Riverside, USA) "CCK-AR-expressing Vagal Sensory Afferents of the Gut-Brain Axis Contribute to Pro-inflammatory IL-6 Response to LPS"	"The integration of interoceptive signals and behavioral responses via oxytocin receptors" 08:55 - 09:20 Zhihua Gao (Zhejiang University, China)				
09:20 - 09:45 Lucila K. Elias (Uni. Sao Paolo, Ribeiro Preto, Brazil)	"The role of oxytocin in emotional control"				
"Neuroendocrine regulation of energy homeostasis" 09:45 - 09:50 General discussion/conclusion	09:20 - 09:45 Joanna Dabrowska (Rosalind Franklin Univ., USA) "Vasopressin and oxytocin integrate interoceptive signals and fear memory in extended amygdala "				
	09:45 - 09:50 General discussion/conclusion				
Short	break				
SS7: Neuropeptides and Hormonal Networks in Cardiovascular and Renal Function	SS8: Neuropeptides and the Architecture of Sleep: Circuits, Clocks, and Cognitive Health				
Chair: Teresa Morales (UNAM, Mexico)	Chair: Bill Wisden (Imperial College, London, UK)				
10:00 - 10:05 Introduction	10:00 - 10:05 Introduction				
10:05 - 10:30 Eric Lazartigues (Louisiana, USA) "miRNA targeting for the renin-angiotensin system"	10:05 - 10:30 Ruud Buijs (UNAM, Mexico) "Vasopressin as neurotransmitter of the biological clock signals the rest period in physiology and activity"				
10:30 - 10:55 Paul Marvar (Washington DC, USA) "The Brain Angiotensin System: Connecting Cognition, Stress, and Cardiovascular Disease"	10:30 - 10:55 Kyoko Tossell (Imperial College, London, UK) "Role of prefrontal cortex somatostatin neurons directing top-down				
10:55 - 11:20 Andrea Godino (Argentina) "Early life programming of osmoregulatory responses-emphasis on the vasopressin-angiotensin system"	control of sleep preparatory behavior and sleep" 10:55 - 11:20 Jason Rihel (UCL, UK) "Zebrafish as a model system to study role of galanin in regulating sleep				
11:20 - 11:45 Teresa Morales (Mexico) "Prolactin Dysregulation in a Mice Model of Kidney Disease"	homeostasis".				
11:45 - 11:50 General discussion/conclusion	11:20 - 11:45 Sara Calafate (Portugal) "Early alterations in the MCH system link aberrant neuronal activity and sleep disturbances in a mouse model of AD"				
	11:45 - 11:50 General discussion/conclusion				
• 12:00 - 13:00 Lunch (buffet), Terrace Dini	ngRoom				
 13:00 – 13:45 PL5: Scott Kanoski (USC, USA Viktor Mutt Lecturer) Introduced by Terry Davidson Presenter: Terry Davison (USA) "Peptide control of energy balance" 					
	tbreak				
• 14:00 – 16:00 KS1 : Keynote symposium 1 Chair: Col	in Saldanha (Director, CNB, AU)				
Rae Silver (Columbia University, USA)					
"Circadian rhythms and the portal pathways of circumventricular organs" Susan Wray (NIH, USA) "LHRH Secretion: Why so many modulators?"					
David Grattan (Otago University, New "What Prolactin teaches us about the e	Zealand)				
Short	tbreak				
	iew & Scientific Publication:				
An Open Discussion (Co-Chaired: Tom Cunningham & Lee Eiden)					

Free evening (Speakers gathering and young investigators gathering)

7:00 - 8:00Breakfast (buffet), Terrace Dining Room				
Room A (Scientific session SS)	Room A (Scientific session SS)			
SS9: Control of peptides regulating appetitive drives and energy homeostasis	SS10: PACAP signaling across systems: from stress circuits to metabolic control			
Chair: Andras H. Leko (Hungary)	Co-Chair: Jessica Barsson & Lee Eiden (USA)			
08:00 - 08:05 Introduction	08:00 - 08:05 Introduction			
08:05 - 08:30 Denise Belsham (UT, Canada) "Neuropeptide regulation by hypothalamic microRNAs" 08:30 - 08:55 María García-Robles (University of Concepción, Chile) "Neurobiology of Glia-Neuron Interactions in the Hypothalamus: Diets, Feeding Behavior, and Neurogenesis" 08:55 - 09:20 Andras Leko (Semmelweis Univ., Hungary) "Sexually dimorphic effects of GHSR in diet-induced obesity"	 08:05 - 08:30 Arun Anantharaman (University of Toledo, USA) "Mechanisms for PACAP-induced depolarization leading to chromaffin cell secretion" 08:30 - 08:55 Sarah Gray (Univ. Northern British Columbia, Canada) "PACAP in peripheral ganglia and role in the regulation of metabolism" 08:55 - 09:20 Jessica Barson (Drexel University, USA) 			
09:20 - 09:45 John Furness (Florey Institute, Australia) "Roles of the ghrelin receptor: investigation of its mechanism in reversing agonist action at the D2 dopamine receptor" 09:45 - 09:50 General discussion/conclusion	 "PACAP in the paraventricular nucleus of the thalamus: Relationship with ethanol drinking and dependence". 09:20 - 09:45 Sunny Jiang (NIMH, USA) "Novel prefrontal cortico-hypothalamic PACAPergic projection modulates CRH neurons in PVN" 09:45 - 09:50 General discussion/conclusion 			
Short	break			
SS11: PTH2 and Catestatin: Novel peptidergic modulators of brain and behavior	SS12: Neuropeptides in mood disorders: mechanisms linking emotion, sex, and brain state			
Chairs: Arpad Dobolyi (Hungary)	Chair: Tom Cunningham (USA)			
10:00 - 10:05 Introduction	10:00 - 10:05 Introduction			
10:05 - 10:30 Gina Puska (Univ. Veterinary Medicine, Hungary) "PTH2 (TIP39) plays a role in the control of maternal behavior"	10:05 - 10:30 Tom Cunningham (Texas A&M, USA) "Sex Differences in Vasopressin in an animal model of hyponatremia"			
10:30 – 10:55 Lukas Anneser (Friedrich Miescher Inst. for Biomed. Research., Switzerland) "There are other fish in the sea: Social density encoding by the neuropeptide PTH2"	10:30 - 10:55 Jing Lu (University of Zhejing, China) "Hypocretin & receptor regulate neuroplasticity and cognitive function in depressed model"			
10:55 - 11:20 Arpad Dobolyi (Eotvos Lorand Univ., Hungary) "Single nucleus sequencing of the human arcuate nucleus: insights into the role of PTH2 in prolactin secretion" 11:20 - 11:45 Sushil Mahata (UCSD, USA)	10:55 - 11:20 Hiroe Hu (NIH, USA) "Arginine vasopressin and mood disorders" 11:20 - 11:45 Aimin Bao (Zhejian University, China) "The role of oxytocin in bipolar disorder: from animal model to postmortem human brain"			
"Chromogranin A deficiency and catestatin supplementation improve tauopathy and cognitive functions in PS19 Mice" 11::45 - 12:00 General discussion/conclusion	11:45 - 12:00 General discussion/conclusion			
• 12:00 - 13:00 Lunch (buffet), Terrace Dining Room				

13:00 - 13:45**PL6: Vincent Prevot** (INSERM, France) Introduced by **Ruud Buijs**
"A role for GnRH in the control of cognition... and more?"

Visit to the Smithsonian National Air and Space Museum's Steven F. Udvar-Hazy Center, Chantilly, Virginia

Conference dinner (19:00-23:00)

Founders Room School of International Service AU

08:00-8:45 SL1 Neuroscience Special Lecture sponsored by JNE/BSN

Xiao-Ke Chen (Stanford University, USA) Introduced by Francesco Ferraguti (Innsbruck, Austria) "Descending peptidergic control of chronic mechanical pain"

IRPS General Assembly (09:00-10:00)

• 10:00-10:45 SL-2 Neuroscience Special Lecture sponsored by IBRO

Hugo Tejeda (NIMH-IRP, NIH, USA)

Presenter: Susan Wray (NIH, USA)

"Prefrontal cortical neuropeptidergic control of threat processing and circuit function"

Closing Lecture (10:45-11:30)

Dick Swaab (Netherlands Institute for Neuroscience, KNAW, Amsterdam, The Netherlands)

Presenter: Ruud Buijs (UNAM, Mexico)

"Dead brains tell lively stories"

Farewell lunch and group photo

