



22<sup>nd</sup> International Symposium on Regulatory Peptides

# RegPep2018

Acapulco Diamante, Mexico

September 22–25, 2018



*Join us at RegPep2018, in Acapulco Diamante, México-*

*Celebrating together advances in basic research on regulatory peptide physiology leading to accelerated translation to peptide-based therapeutics,*

*Meeting among five generations of peptide scientists and scholars,*

*Carrying on the legacy of regulatory peptide pioneers!*

**Saturday Sept. 22, 2018***Concurrent symposia (block I: S1-S4)*

14:00 - 16:00	<b>S1. Extrahypothalamic functions of magnocellular neurons: optogenetics, development and behavior</b> <u>Pirámide 2</u> Chair: Valery Grinevich (Heidelberg, Germany)	<b>S2. What's new with POMC, TRH, PRL and GH neuroendocrine actions</b> <u>Pirámide 3</u> Co-chairs: Patricia Joseph-Bravo (Cuernavaca, México) and Dave Grattan (Dunedin, New Zealand):	<b>S3. Neuropharmacology of vasopressin and oxytocin: physiology and behavior</b> <u>Pirámide 4</u> Chair: Maurice Manning (Ohio, USA)	<b>S4. Neuroendocrine peptide GPCRs: from function to therapeutic targets</b> <u>Pirámide 5</u> Co-chairs: Hélène Castel (Rouen, France) and Richard Leduc (Sherbrooke, Canada)
<u>14:00 - 14:30</u>	<b>Valery Grinevich</b> (University of Heidelberg, Germany): <i>Oxytocinergic circuits of the amygdala: finding points of intervention for pain and pleasure</i>	<b>Malcolm J. Low</b> (University of Michigan, Ann Arbor, USA): <i>Neuropeptides involved in integrated hypothalamic control of energy homeostasis</i>	<b>Maurice Manning</b> (University of Toledo, USA): <i>Receptor selective oxytocin and vasopressin agonists and antagonists as research tools and therapeutics: a current perspective</i>	<b>Julie Gavard</b> (CRCINA, CNRS ERL6001; Nantes, France): <i>Role of apelin peptides in the maintenance of stem-like traits of glioma cells</i>
<u>14:30 - 15:00</u>	<b>David Murphy</b> (University of Bristol, UK): <i>Linkages between osmoregulation and ingestive behaviors are encoded in vasopressinergic-dynorphinergic projections from hypothalamus to amygdala</i>	<b>Patricia Joseph-Bravo</b> (IBT, UNAM, Mexico): <i>Hypophysiotropic TRH neurons integrate stress and metabolic signals</i>	<b>Gilles Guillon</b> (CNR, Montpellier, France): <i>Selective fluorescent ligands for imaging vasopressin and oxytocin receptors in native tissues</i>	<b>Michel Bouvier</b> (Université de Montréal, Montréal, Québec, Canada): <i>In vivo effect of compounds modulating melanocortin type 4 receptors: towards a therapy for severe familial obesity</i>
<u>15:00 - 15:30</u>	<b>Alexa Veenema</b> (Michigan State University, East Lansing, USA): <i>Developmental and sex-specific involvement of vasopressin in the regulation of social behavior</i>	<b>Dave Grattan</b> (University of Otago, Dunedin, New Zealand): <i>Prolactin actions in the maternal brain during pregnancy</i>	<b>Andrés Quintanar-Stephano</b> (UAA, Mexico): <i>Effects of the neuropeptide arginine vasopressin (AVP) deficiency, conivaptan and desmopressin on clinical symptoms, gene expression and blood cytokine levels in rats with experimental autoimmune encephalomyelitis</i>	<b>Laurent Prézeau</b> (INSERM U661 – University of Montpellier, Montpellier, France): <i>GSHR controls YAP phosphorylation via both constitutive and agonist-induced pathway</i>
<u>15:30 - 16:00</u>	<b>Limei Zhang</b> (Facultad de Medicina, Universidad Nacional Autónoma de México, Mexico): <i>Vasopressin projections to habenula and modulation by sex steroids: control of response to aversive stimuli in mammals</i>	<b>Carlos Arámburo de la Hoz</b> (INB, UNAM, Mexico): <i>Autocrine/paracrine roles of extrapituitary growth hormone in neuroprotection</i>	<b>Nicolas Gilles</b> (IBMM, CNRS, Montpellier, France): <i>Animal toxins for human health, case of the mambaquartetin for the treatment of polycystic kidney disease</i>	<b>Hélène Castel</b> (Inserm U1239, DC2N, Normandie University, Mont-Saint-Aignan, France): <i>Biased signaling of the urotensin II receptor: still a blind spot between direct couplings and brain physiopathology</i>

16:15 - 17:00	<i>Opening ceremony:</i> Organizing Committee & Chair of Scientific Committee, local authorities <i>Lay lecture. TBA</i>	Atlantes Amphitheater
17:00 - 18:00	<i>Opening lecture</i> <b>Andrew V. Schally</b> (Nobel Prize Laureate, Department of Veterans Affairs and University of Miami, USA) <i>Hypothalamic hormones; from neuroendocrinology to therapy of cancer and other diseases and conditions</i>	Atlantes Amphitheater
18:30 - 21:00	<i>Welcome reception</i> Ocean foyer	Atlantes Amphitheater-Ocean foyer

**Sunday Sept. 23, 2018 AM**

8:00 - 9:00	<b>Plenary lecture II</b>  <b>Laura Bohn</b> (Scripps Institute, Florida, USA) 2018 Victor Mutt Awardee and Lecturer <i>Refining opioid receptor signaling to improve the therapeutic index</i> <i>Concurrent symposia (block II: S5-S8)</i>			Atlantes amphitheater
9:00 - 10:30	<b>S5. Metabolic disorders: central and peripheral mechanisms and therapeutics</b> <u>Pirámide 2</u> Chair: Marcia Hiriart (Mexico City, Mexico)	<b>S6. Presentation of self-peptides in the thymus: An essential event of life</b> <u>Pirámide 3</u> Chair: Vincent Geenen (Liege, Belgium)	<b>S7. Neuropeptides in headache, inflammation and neuroinflammatory pain: Basic science to clinical trials</b> <u>Pirámides 4</u> Chair: James A. Waschek (Los Angeles, USA)	<b>S8. Interaction of hypothalamic peptidergic circuits in the organization of physiology and behavior</b> <u>Pirámide 5</u> Chair: Ruud M. Buijs (Mexico City, Mexico)
<u>9:00 - 9:30</u>	<b>Harvey Grill</b> (University of Pennsylvania Perelman School of Medicine, USA): <i>Treating the hyperphagia driving obesity using centrally acting GLP-R agonists</i>	<b>Vincent Geenen</b> (University of Liege, Belgium): <i>Historical introduction to the thymus and concept of immune self-tolerance</i>	<b>James A. Waschek</b> (University of California at Los Angeles, USA): <i>VIP, PACAP and neuroinflammatory disease</i>	<b>Ruud Buijs</b> (IIB, UNAM, Mexico): <i>Interaction between suprachiasmatic and arcuate nuclei is essential for temperature and corticosterone rhythm, roles for vasopressin and alpha-MSH</i>
<u>9:30 - 10:00</u>	<b>Inge Depoortere</b> (University of Leuven, Belgium): <i>Chemosensory signalling mechanisms of enteroendocrine cells in the gut</i>	<b>Georg Holländer</b> (University of Basel, Switzerland and University of Oxford, UK): <i>The thymus: epigenetic control of the molecular mirror of self</i>	<b>Zsuzsanna Helyes</b> (University of Pécs, Hungary): <i>Neuropeptide-mediated sensitization mechanisms in models of trigeminovascular activation: focus on PACAP and hemokinin-1</i>	<b>Charles Bourque</b> (McGill University Health Centre, Montreal, Canada): <i>Suprachiasmatic nucleus vasopressin neurons and the circadian control of fluid homeostasis</i>
<u>10:00 - 10:30</u>	<b>Marcia Hiriart</b> (IFC, UNAM, Mexico): <i>Insulin resistance: physiology and as part of the metabolic syndrome</i>	<b>Hiroyuki Takaba</b> (University of Tokyo, Japan): <i>Distinct features of Fezf2-induced promiscuous gene expression in the thymus</i>	<b>Ichiro Takasaki</b> (University of Toyama, Japan): <i>Discovery of small-molecule antagonists of PAC1 receptor for the treatment of neuropathic pain</i>	<b>Valerie Simonneaux</b> (INCI-CNRS, Strasbourg, France): <i>Circuits of kisspeptin and RFRP3 in the seasonal control of reproduction and metabolism</i>

<u>10:00 - 10:15</u>	<b>Coffee Break</b>			
	<i>Concurrent symposia (block III: S9-S12)</i>			
<u>10:45 - 12:15</u>	<b>S9. Gut peptide: physiology and metabolic syndrome</b> <u>Pirámide 2</u> Chair: Duan Chen (Trondheim, Norway)	<b>S10. Peptides and their receptors as oncotargets</b> <u>Pirámide 3</u> Chair: Terry Moody (Bethesda, USA)	<b>S11. Symposium with contributed talks</b> <u>Pirámide 4</u> Speakers to be selected from outstanding abstract submissions	<b>S12. Regulatory peptide signaling and circuit logic in controlling concerted behaviors</b> <u>Pirámide 5</u> Chair: Lee E. Eiden (Bethesda, USA)
<u>10:45 - 11:15</u>	<b>Chun-Mei Zhao</b> (Dept. of Clinical and Molecular Medicine, Norwegian University of Science and Technology, Norway): <i>Gastric neuroendocrine cells: fine structure and peptide hormones</i>	<b>Gwen Murphy</b> (National Cancer Institute, NIH, USA): <i>Neuropeptides and gastric cancer</i>	TBA	<b>Ben White</b> (NIHH, NIH, Bethesda, USA): <i>The peptide modulome. How neuropeptide circuits modulate neuronal circuits to orchestrate behavior--insights from animal models</i>
<u>11:15 - 11:45</u>	<b>Reshma Ramracheya</b> (Oxford Centre for Diabetes, Endocrinology & Metabolism, University of Oxford, UK): <i>New mechanisms of PYY and GLP-1 in diabetics</i>	<b>Terry Moody</b> (National Cancer Institute, NIH, USA): <i>Bombesin receptors regulate transactivation of receptor tyrosine kinases in lung cancer</i>	TBA	<b>Esther Sabban</b> (New York Medical College, USA): <i>NPY administration and treatment of behavioral symptoms in a rodent single prolonged stress model for PTSD</i>
<u>11:45 - 12:15</u>	<b>Duan Chen</b> (Dept. of Clinical and Molecular Medicine, Norwegian University of Science and Technology, Norway): <i>Brain-gut axis: Botulinum toxin A treatment for obesity</i>	<b>Matthew Thakur</b> (Thomas Jefferson University, USA): <i>Imaging of prostate cancer using VIP/PACAP analogs</i>	<u>TBA</u>	<b>Xiao-Dong Wang</b> (Zhejiang University, China): <i>Neuropeptides and calbindin in stress-related disorders</i>
<u>12:15 - 15:00</u>	<b>Lunch and drinks</b>			<i>Ocean rooms 1-2</i>
	<b>Poster presentation and DataBlitz I</b>			
<u>12:45 - 14:45</u>	<b>WORKSHOP</b>			<i>Ocean rooms 3-4</i>
	<b>Peptide-based drug discovery for CNS disorders: Avenues and barriers</b> Co-Chairs: <b>William Z. Potter</b> (Bethesda, USA) AND <b>David Vaudry</b> (Rouen, France)			
	<b>Bill Potter</b> (National Institute of Mental Health, NIH, USA): <i>CNS peptide and their receptors as drug targets: creating pre-competitive consortia for target engagement and proof-of-concept for CNS disease targets</i>			
	<b>Mary R. Lee</b> (National Institute on Alcohol Abuse and Alcoholism, NIH, USA): <i>Peptide penetration of blood-brain-barrier after administration at olfactory and peripheral sites</i>			
	<b>Michael J. Brownstein</b> (Exponential Biotherapies, McLean, Virginia, USA): <i>V1a peptoids for explosive intermittent anger disorder</i>			
	<b>David Lovejoy &amp; Dalia Barsyte-Lovejoy</b> (UT, Canada & Protagenic Therapeutics Inc. New York USA): <i>Multiple in vivo peptide delivery approaches with the corticotropin-releasing hormone (CRH) and secretin family-like peptide, teneurin C-terminal associated peptide (TCAP), for energy metabolism and affective disorder treatments</i>			
	<b>David Vaudry</b> (INSERM, Laboratory of Neuronal and Neuroendocrine Differentiation and Communication, Normandy University, Rouen, France): <i>PACAP intranasal delivery represents an efficient approach for the treatment of stroke and Huntington disease</i>			

15:00 - 15:50	<b>Plenary lecture III</b> <span style="float: right;">Atlantes amphitheater</span> <b>Jean-Louis Charli</b> (Instituto de Biotecnología, Universidad Nacional Autónoma de México (UNAM), Mexico) <i>Peptide-degrading enzymes and the control of peptide action in vivo</i> <i>Concurrent symposia (block IV: S13-S16)</i>			
16:00 - 18:00	<b>S13: Neuropeptide function in fear circuits</b> <b>Pirámide 2</b> Chair: Francesco Ferraguti (Innsbruck, Austria)	<b>S14. Neuropeptides and social behaviour</b> <b>Pirámide 3</b> Chair: Tallie Z. Baram (Irvine, USA)	<b>S15. Neuropeptides in inflammatory processes</b> <b>Pirámide 4</b> Chair: Erika Pintér (Pecs, Hungary)	<b>S16. New insights in the hypothalamic regulation of energy metabolism by neuropeptides</b> <b>Pirámide 5</b> Co-chairs: Nicolas Chartrel (Rouen, France) and Carole Rovère (Valbonne, France)
<u>16:00 - 16:30</u>	<b>Ramon Tasan</b> (Medical University of Innsbruck, Austria): <i>Role of neuropeptides in the interaction of fear and hunger</i>	<b>Tallie Z. Baram</b> (University of California at Irvine, USA): <i>CRH and development of the pleasure/reward circuitry</i>	<b>Susan D. Brain</b> (King's College London, UK): <i>CGRP and protective effect in the cardiovascular system; relevance to migraine therapy</i>	<b>Sophie Steculorum</b> (Max Planck Institute for Metabolism Research, München, Germany): <i>Novel regulators of the central control of feeding and systemic insulin sensitivity</i>
<u>16:30 - 17:00</u>	<b>Kay Jüngling</b> (University of Münster, Germany): <i>The impact of the human-relevant NPSR1 polymorphism I107N on anxiety- and fear-related circuits and behavior</i>	<b>Inga D. Neumann</b> (Univ. Regensburg, Germany): <i>Oxytocin and neuropeptide S in social behavior</i>	<b>Soraia Costa</b> (University of Sao Paulo, Brazil): <i>Environmental influence of fumes on TRPA1-induced inflammation</i>	<b>Serguei Fetissov</b> (U1239, Université de Rouen, Normandie, France): <i>Regulation of feeding behavior by a neuropeptide-like protein produced by gut bacteria</i>
<u>17:00 - 17:30</u>	<b>Francisco Sotres-Bayon</b> (IFC, UNAM, Mexico): <i>Neurogenesis regulates fear recovery by recruiting a prefrontal-amygdala-habenula network</i>	<b>Genaro A. Coria-Avila</b> (Centro de Investigaciones Cerebrales, Universidad Veracruzana, México): <i>Oxytocin in conditioned same-sex partner preferences and brain dimorphism</i>	<b>Barbara Kofler</b> (Department of Pediatrics/University Hospital Salzburg, Paracelsus Medical University, Salzburg, Austria): <i>Galanin is a versatile modulator of immune cell activation</i>	<b>Nicolas Chartrel</b> (INSERM U1239, Laboratory of Neuronal and Neuroendocrine Differentiation and Communication): <i>26RFa: a neuropeptide involved in the hypothalamic regulation of energy homeostasis</i>
<u>17:30 - 18:00</u>	<b>Francesco Ferraguti</b> (Medical University of Innsbruck, Austria): <i>Specialized amygdala inhibitory networks for emotional learning</i>	<b>W. Scott Young III</b> (National Institute of Mental Health, NIH, USA): <i>Vasopressin and social behaviors</i>	<b>Erika Pintér</b> (Department of Pharmacology and Pharmacotherapy, University of Pecs, Pecs, Hungary): <i>TRPA1-mediated effect of sulfide compounds in pain and inflammation</i>	<b>Céline Cansell</b> (Institute of Molecular and Cellular Pharmacology, Université Nice Sophia Antipolis, Valbonne, France): <i>Impact of nutritional lipids on glial remodeling and neurons activity in the hypothalamus. Focus on MCH and orexin neurons</i>

**Monday Sept. 24, 2018 AM**

8:00 - 9:00	<p style="text-align: right;">Atlantes amphitheater</p> <p style="text-align: center;"><b>Plenary lecture IV</b>  <b>Suzanne Dickson</b> (Institute of Neuroscience and Physiology, University of Gothenburg, Sweden)  <i>Impact of peripheral regulators of energy balance on the reward system</i></p>			
<b>Concurrent symposia (block V: S17-S20)</b>				
9:00-11:30	<p><b>S17. Clock mechanisms of mammalian SCN: From peptide to network interactions</b>  <u>Pirámide 2</u>  Chair: Raúl Aguilar-Roblero (Mexico City, Mexico)</p>	<p><b>S18. Neuropeptide regulation of stress and its consequences</b>  <u>Pirámide 3</u>  Chair: James P. Herman (Cincinnati, Ohio, USA)</p>	<p><b>S19. Drug design for the apelin receptor across diverse pathophysiological indications: Peptide drug development strategies from bench and clinic to approval</b>  <u>Pirámide 4</u>  Co-Chairs: C. Llorens-Cortes (Paris, France), Marsault and M. Auger-Messier (Sherbrooke, Canada)</p>	<p><b>S20. Young Investigator Symposium: New investigators embarking on their independent careers sketch out their current progress and plans for future research</b>  <u>Pirámide 5</u>  Co-chairs: Vito S. Hernández (Mexico City, México) and André Mecawi (Rio de Janeiro, Brazil)</p>
<u>9:00 - 9:30</u>	<p><b>Raúl Aguilar-Roblero</b> (UNAM, Mexico): <i>From the molecular circadian oscillator to the circadian firing pattern in SCN neurons</i></p>	<p><b>James P. Herman</b> (University of Cincinnati, USA): <i>Regulation of stress integration by central Glucagon-like Peptide 1 circuits</i></p>	<p><b>Catherine Llorens-Cortes</b> (INSERM U1050, Collège de France, France): <i>Development of original metabolically-stable apelin-17 analogs with aquaretic and cardiovascular effects</i></p>	<p><b>André Mecawi</b> (Federal Rural University de Rio de Janeiro, Brazil): <i>Electrophysiological effects of ghrelin in the hypothalamic paraventricular nucleus neurons</i></p>
<u>9:30 - 10:00</u>	<p><b>Charles Allen</b> (Oregon Health &amp; Science University, USA): <i>VIP and vasopressin signaling mechanisms in suprachiasmatic nucleus neurons</i></p>	<p><b>Eric G. Krause</b> (University of Florida, USA): <i>Central Angiotensin II and its role in stress responding</i></p>	<p><b>Gavin Oudit</b> (University of Alberta, Canada): <i>Enhancing the apelin-apelin receptor axis as a novel therapy for heart failure</i></p>	<p><b>Sung Han</b> (Salk Institute for Biological Studies, La Jolla, California, USA): <i>CGRP: the main transmitter of affective pain signals to the amygdala</i></p>
<u>10:00 - 10:30</u>	<p><b>Chris Colwell</b> (University of California, Los Angeles, USA): <i>The role of neuropeptides in the photic regulation of the circadian system</i></p>	<p><b>Jom Hammack</b> (University of Vermont, USA): <i>Involvement of PACAP in stress-induced behavioral responses</i></p>	<p><b>Cédric Dray</b> (INSERM U1048, Université de Toulouse, France): <i>Role of Apelin in Diabetes and Aging</i></p>	<p><b>Lorraine Jaimes-Hoy</b> (Instituto de Biotecnología, UNAM, Mexico): <i>Early life stress curtails the hypothalamic-pituitary-thyroid axis cold response in adulthood</i></p>
<u>10:30 - 11:00</u>	<p><b>Hugh Piggins</b> (University of Manchester, UK): <i>Intrinsic and Extrinsic Neuropeptide signaling in the suprachiasmatic circadian pacemaker</i></p>	<p><b>Jan Deussing</b> (Max Plank Institute for Psychiatry, Munich, Germany): <i>Role of CRH in stress adaptation</i></p>	<p><b>Éric Marsault</b> (Université de Sherbrooke, Canada): <i>Understanding and exploiting the structure-signaling relationship of apelin</i></p>	<p><b>Sunny Zhihong Jiang</b> (National Institute of Mental Health, NIH, Bethesda, USA): <i>PACAP and dopamine signaling in stress: response parcellation by distinct cyclic AMP sensors in neuronal and endocrine cells</i></p>
<u>11:00 - 11:30</u>	<p><b>Rae Silver</b> (Columbia University, USA): <i>Anticipation in a circadian time frame: Studies of voluntary drug intake in mice</i></p>	<p><b>Ki-Ann Goosens</b> (Massachusetts Institute of Technology, Cambridge, USA): <i>Ghrelin and resilience to chronic stress</i></p>	<p><b>Olivier Lesur</b> (Université de Sherbrooke, Canada): <i>Potential of apelin and ELABELA in the treatment of sepsis</i></p>	<p><b>Zhihua Gao</b> (Zhejiang University School of Medicine, Hangzhou, China): <i>Reconstructing the hypothalamo-neurohypophysis connections by viral tracing.</i>  <b>Vito S. Hernández</b> (Facultad de Medicina, UNAM, Mexico): <i>Ascending projections of magnocellular vasopressinergic hypothalamic PVN neurons modulate hippocampal oscillatory activity</i></p>

11:30 - 15:00	<p><b>Lunch and drinks</b></p> <p style="text-align: center;"><b>Poster presentation and DataBlitz II</b></p> <p style="text-align: center;"><b>Meet the Editors-in-Chief luncheon</b>          ANYAS, Neuroendocrinology, J. Neuroendocrinology          Stress, Journal of Molecular Neuroscience</p>	<i>Ocean rooms 1-2</i>
15:00 - 17:00	<p><b>Symposium-Roundtable</b></p> <p style="text-align: center;"><b>Pioneers of Regulatory Peptide Research:</b></p> <p style="text-align: center;"><b>Drawing inspiration from the past and glimpsing the future</b></p> <p style="text-align: center;"><u>Chairs: Lee E. Eiden (Bethesda, USA) and Limei Zhang (Mexico City, Mexico)</u></p> <p><i>This portion of the RegPep2018 program highlights the unique contributions of four outstanding pioneers of regulatory peptide research who have profoundly altered our understanding of the role of peptides, arising from their prohormone precursors within neurons and endocrine cells (P. Lowry), in orchestrating critical physiological functions in circadian rhythms, fluid and food intake (J. Antunes Rodrigues); social and sexual behavior (S. Carter); and modulation of states of arousal (L. de Lecea) and the implications of this understanding for progress in human health. The speakers will reflect on the lessons learned in their scientific careers that may be valuable to those just embarking on their own research journeys in this incredibly rich and fertile field, and will discuss critical questions about the future of regulatory peptide research, submitted beforehand from RegPep2018 participants.</i></p> <p style="text-align: center;"><b>José Antunes Rodrigues</b> (Faculty of Medicine, University of Sao Paulo, Brazil)  <b>Sue Carter</b> (Kinsey Institute, University of Indiana, USA)  <b>Luis de Lecea</b> (Department of Psychiatry, Stanford University, USA)  <b>John Morris</b> (University of Oxford, UK)  <b>Robert Millar</b> (Centre for Neuroendocrinology, University of Pretoria, South African)</p>	<i>Atlantes amphitheater</i>
17:00 - 18:00	<p><b>Plenary lecture V</b></p> <p style="text-align: center;"><b>Robert C. Malenka</b> (Stanford Neuroscience Institute, Stanford University, USA; Julius Axelrod Prize Laureate)</p> <p style="text-align: center;"><i>Oxytocinergic gating of social reward</i></p>	<i>Atlantes amphitheater</i>
18:30 - 22:00	<i>Conference dinner</i>	

**Tuesday Sept. 25, 2018 AM**

*Concurrent symposia (block VI: S21-S24)*

	<b>S21. Contemporary approaches to studying peptidergic neurons</b> <u>Pirámide 2</u> Chairs: Mike Ludwig (Edinburgh, UK)	<b>S22. Neuropeptides and neurodegeneration</b> <u>Pirámide 3</u> Co-Chairs: Illana Gozes (Tel Aviv, Israel) and Seiji Shioda (Tokyo, Japan)	<b>S23. Chromogranin- and other protein-derived bioactive peptides: cardiovascular, immune, endocrine and metabolic functions</b> <u>Pirámides 5</u> Chair: Sushil Mahata (San Diego, USA)	<b>S24. Nesfatin-1: Update on a pleiotropic peptide</b> <u>Pirámide 5</u> Co-chairs: Andreas Stengel (Tübingen, Germany) and Yvette Taché (Los Angeles, USA)
<u>8:00 - 8:30</u>	<b>Mike Ludwig</b> (University of Edinburgh, UK): <i>Exploring novel neuronal pathways from the retina to the SCN using transgenic rat models and viral transfection systems</i>	<b>Illana Gozes</b> (Tel Aviv University, Israel): <i>VIP and PACAP to ADNP and NAP: Microtubule neuroprotection in the ADNP syndromic autism</i>	<b>Sushil Mahata</b> (Veterans Administration and UCSD, San Diego, USA): <i>Catestatin regulation of immunometabolism</i>	<b>Tamas Kozicz</b> (Radboud University Nijmegen Medical Centre): <i>Role of nesfatin in emotional processing</i>
<u>8:30 - 9:00</u>	<b>Javier Stern</b> (Georgia State University, USA): <i>Unraveling mechanisms underlying stimulus-secretion coupling at neuronal dendrites using novel cell biosensors</i>	<b>Seiji Shioda</b> (Hoshi University, Japan): <i>PACAP, stem cells and neuroprotection, spinal injury and stroke</i>	<b>Youssef Anouar</b> (Inserm U1239, Université de Rouen, Normandy, France): <i>A selenoprotein-derived peptide with potent in vivo anti-neurodegenerative actions</i>	<b>Suraj Unniappan</b> (Sastatchewan, Canada): <i>Blood glucose homeostatic control by nesfatin-1</i>
<u>9:00 - 9:30</u>	<b>Colin Brown</b> (University of Otago, NZ): <i>Dissecting vasopressin's role in the development of hypertension using transgenic rats</i>	<b>Dora Reglödi</b> (University of Pecs, Hungary): <i>PACAP and retinal neuroprotection partner preferences and brain dimorphism</i>	<b>Angelo Corti</b> (IRCCS San Raffaele Scientific Institute, Vita-Salute University, Milan, Italy): <i>Chromogranin A and its fragments in the spatio-temporal regulation of vascular biology and angiogenesis</i>	<b>Andreas Stengel</b> (University of Tübingen, Germany): <i>Role of nesfatin in food intake regulation</i>
<u>9:30 - 10:00</u>	<b>Jeff Tasker</b> (Tulane University, USA): <i>Neuropeptide activation of neuronal-glia circuits</i>	<b>Stephen Salton</b> (Icahn School of Medicine at Mount Sinai, USA): <i>VGF-derived fragment for neuroprotection in Alzheimer's disease</i>	<b>Y. Peng Loh</b> (National Institute of Child Health and Human Development, NIH, Bethesda, USA): <i>Serpins: tissue distribution and functions</i>	<b>Yvette Taché</b> (University of California-Los Angeles, USA): <i>Gaps in knowledge - what should be addressed next in nesfatin research</i>
10:10-11:00	<b>IRPS General Assembly</b>			
11:00-11:50	<b>Closing lecture</b>			
	<b>Gareth Leng</b> (Centre for Discovery in Brain Science, University of Edinburgh, UK) <i>The heart of the brain: the hypothalamus and its hormones</i>			
11:50-12:00	<b>Conference closure:</b> Organizing committee and conference chairs			

**Optional: Guided visit of Fort of San Diego, museum and reception**, organized by Guerrero State Government. 2:00pm (about 4 hrs)