

Peptidomics for Biomedical Therapies: From Molecule to Medicine

IMBRAIN & ISBAP

Joint Meeting with the VIP/PACAP Community

Malaga 2026



PROGRAMME

SCIENTIFIC COMMITTEE:

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Carlos Diéguez González

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Carmen Pérez Enriquez

Isabel Moreno Madrid



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Malaga 2026

Peptidomics for Biomedical Therapies: From Molecule to Medicine

The congress will be held in a **hybrid format (on-site and online)**, allowing both live attendance and the remote presentation of scientific communications.

IMBRAIN & ISBAP 2026 – Málaga (España)
April 16th-18th, 2026

THURSDAY, APRIL 16th

08:30h | Registration (open all day)

09:00 – 09:30h | Opening Ceremony & Welcome. Local Authorities & ISBAP SC

09:30 – 10:30h | S1 Symposium: *Bioactive Peptides in the CNS: Circuits, Plasticity & Neurogenesis (Part I)*.

Chairs: Erika Pinter /Miguel Pérez de la Mora

- **09:30 - 10:00h | Amygdaloid Interactions Between Catecholaminergic and Oxytocin Receptors on the Modulation of Anxiety. *Speaker: Miguel Pérez de la Mora***
- **10:00 – 10:30h | Selected Oral Communications**
 - **10:00h | Sex differences in the effect of ghrelin administration into the rat amygdala on the modulation of anxiety and food intake. *Speaker: Aldo Guerrero López.***
 - **10:15h | Anti-depressant treatment through receptor-receptor interaction. New insights into de NPY1-R heteroreceptor complexes roles. *Speaker: Isabel Moreno Madrid***

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10:30-11:30h | Coffee break & Poster Session

11:30-12:30h | S1 Symposium: Bioactive Peptides in the CNS: Circuits, Plasticity & Neurogenesis (Part II).

Chairs: Erika Pinter /Miguel Pérez de la Mora

- Selected Oral Communications:
 - **11:30h** | Methamphetamine-induced disruption of developmentally regulated neuropeptide expression in mice. *Speaker: Zsofia Hevesi*
 - **11:45h** | PACAP as a guardian of cerebellar granule neurons: transcriptional control of HOXD9 and NR4A1 in apoptosis. *Speaker: Velia Maria D'Agata*
 - **12:00h** | Development of the obligatory peptidergic neurons of the Edinger-Westphal nucleus. *Speaker: Balázs Gaszner*
 - **12:15h** | Amyloid-dependent loss of neuropeptide somatostatin interneurons in Alzheimer's disease is rescued by statins. *Speaker: MA Arredondo-Alcalá*

13:00 - 14:00h | Networking Cocktail (Lunch)

14:00 - 16:00h | S2 Symposium: Bioactive peptides in Health & Diseases: physiological functions and therapeutic perspectives (Part I).

Chairs: David Vaudry / Elena González-Rey

- **14:00h** | Cortistatin: A key neuroimmune mediator in health and disease. *Speaker: Elena Gonzalez-Rey* (Institute of Parasitology and Biomedicine Lopez-Neyra (IPBLN), CSIC)
- **14:30h** | PACAP and Brain Tumors. *Speaker: Agata Grazia D'Amico* (University of Catania)

- **15:00 – 16:00** | Selected Oral Communications:
 - **15:00h** | Contribution of urocortin 1 expressing neurons to neurobiology of migraine. *Speaker: Viktória Kormos*
 - **15:15h** | The CRH neuropeptide family in the rotenone model of Parkinsons disease. *Speaker: Bence Pytel*
 - **15:30h** | Critical role of the neuropeptide cortistatin in the regulation of fibrosis- and bacterial infection-induced lung injury. *Speaker: Mario Delgado*
 - **15:45h** | Protective and regenerative role of PACAP in diabetic cornea. *Speaker: Grazia Maugeri*

16:00 – 16:45h | Coffee Break and Poster Session

16:45 – 17:30h | S2 Symposium: Bioactive peptides in Health & Diseases: physiological functions and therapeutic perspectives (Part II).

Chairs: David Vaudry / Agata Grazia D'Amico

- Selected Oral Communications:
 - **16:45h** | Mechanisms of PACAP-Mediated Neuroprotection Against Environmental Pollutants Toxicity: Impacts on Neural Differentiation, Neuroinflammation, Oxidative Stress, Epigenetic Regulation, and Gut Microbiota Homeostasis. *Speaker: Olfa Masmoudi-Kouki*
 - **17:00h** | Anti-tumoral effect of PACAP in glioblastoma: in vitro characterization and in silico investigation of a potential regulatory role on glioblastoma-dysregulated microRNAs. *Speaker: Ibtihel Chatti.*

- **17:15h** | N-terminal fragment of Galanin as an Adjunctive Therapy to Potentiate SSRI Effects in Models of Depression and Treatment Resistant Depression. *Speaker: Antonio Flores-Burgess*

19:00h | **Welcome Reception – Rectorate of the University of Málaga.** *A special evening to welcome participants to Málaga.*

FRIDAY, APRIL 17TH

09:00h – 10:30h | **S3 Symposium: Neuroendocrine & Metabolic Peptides.**

Chairs: Olfa Masmoudi-Kouki / Timo Müller

- **09:00h** | Beyond Weight Loss: Multi-agonists and Oral GLP-1s Linking Metabolism to Organ Health (Liver, CV, CNS). *Speaker: Timo Müller* (Helmholtz Munich)
- **09:30h** | Obesity–Hypogonadism Axis: Neuroendocrine Mechanisms to Therapeutic Opportunities. *Speaker: Manuel Tena-Sempere* (University of Córdoba)
- **10:00h – 10:30h** | Selected Oral Communications:
 - **10:00h** | Oxytocin neurons regulate melanocortin circuit development during a neonatal critical period. *Speaker: Sebastien G. Bouret*
 - **10:15h** | Growth Hormone Secretagogue Receptor 1a isoform specific interaction interface dynamics with Dopamine D2 Receptor isoforms. *Speaker: Álvaro Cáceres-Quezada*

10:30 – 11:30h | **Coffee Break and Poster Session with Oral Defense** (Exhibition Hall)

11:30- 13:00h | S4 Symposium: *Intranasal & Other Non-Invasive Peptide Delivery.*

Chairs: Karl Heinz / Barbara Kofler

- **11:30 – 12:00h |** Intranasal application of Galanin peptides. *Speaker: Prof. Barbara Kofler* (University in Salzburg)
- **12:00 – 13:00h |** Selected Oral Communications:
 - **12:00h |** Intranasal NPY Modulates Reward Sensitivity via Y2 Receptors in Obese Mice. *Speaker: Ahmed Hassan*
 - **12:15h |** Intranasal administration of Galanin (1–15): effects on alcohol self-administration and mood-related behavior in rats. *Speaker: Noelia Cantero García.*
 - **12:30h |** Investigation of the effects of a short PACAP fragment in ischemic retinopathy. *Speaker: Inez Bosnyak (Arimura Travel Award)*
 - **12:45h |** Preclinical comparison of small molecule somatostatin 4 receptor agonists: in silico, in vitro and in vivo approaches. *Speaker: Erika Pintér*

13:00 – 14:00h | Networking Cocktail (Lunch)

14:00 – 16:00h | S5 Symposium: *Bioactive peptides as Biomarkers.*

Chairs: Mario Delgado / Serguei Fetissov

- **14:00 – 14:30h |** Peptide biomarkers in anorexia nervosa. *Speaker: Serguei Fetissov* (University of Rouen Normandy)

- **14:30 - 15:00h** | VIP-Receptor axis as biomarker in Rheumatic Diseases. Speaker: **Yasmina Juarranz** (Complutense University of Madrid)
- **15:00 - 16:00 h** | Selected Oral Communications:
 - **15:00h** | VIP rs688136 genotype identifies patients with reduced radiographic progression in osteoarthritis. *Speaker: David Castro-Vázquez (Arimura Travel Award)*
 - **15:15h** | Examination of pituitary adenylate cyclase-activating polypeptide (PACAP) in patients with atrial fibrillation undergoing pulmonary vein isolation. *Speaker: Kata Anna Toller (Arimura Travel Award).*
 - **15:30h** | Analysis of PACAP and Other Bioactive Factors in the Blood Plasma of Women Following Miscarriage. *Speaker: Andrea Tamás.*
 - **15:45h** | Promising therapeutic approach with PACAP in diabetic complications. *Speaker: Dóra Reglődi*

16:00 - 16:30h | Coffee Break and Poster Session (Exhibition Hall)

17:00-19:30h | Guided Tour of Historic Málaga

21:00h | Gala Dinner - La Pérgola Restaurant

SATURDAY, 18th APRIL

9:00h - 11:15h | S6: Symposium VIP/PACAP (Arimura Travel Award) (Part I).

Chairs: Illiana Gozes / Dóra Reglődi

- **09:00 – 09:30h** | From VIP/PACAP to ADNP/davunetide: the route to sex-dependent clinical efficacy in tauopathies. *Speaker: Illiana Gozes* (Tel Aviv University)
- **09:30 – 10:00h** | **Presentation of Arimura Travel Awards** (Illiana Gozes)
- **10:00 – 11:15h** | Selected Oral Communications:
 - **10:00h** | Mast cell receptors: novel receptors for PACAP/VIP signalling? *Speaker: Zoe Tasma*
 - **10:15h** | Molecular insights into VPAC signalling in human lymphocytes. *Speaker: Alicia Cabrera-Martín*
 - **10:30h** | VIP as a modulator of osteoarthritis: a study in an Osteocondral Tissue-on-a-Chip model. *Speaker: Cristina Rodríguez-Hernández*
 - **10:45h** | VIP axis expression and function in human mesenchymal stem cells: a proteomic approach. *Speaker: Paula Arribas-Castaño*
 - **11:00h** | Vasoactive Intestinal Peptide promotes in vitro chondrogenesis and modulates catabolic responses in osteoarthritis. *Speaker: Karolina Tecza*

11:00- 12:00h | **Coffee Break** (Exhibition Hall)

11:00-12:00h | **ISBAP General Assembly**

12:00 – 13:00 | **Viktor Mutt Award Lectureship. Presentation by Karl Heinz**

- Neuropeptide Y Receptors: Structure, Signalling and Innovative Ligands. *Speaker: Annette G. Beck-Sickinger*

13:00 – 14:00h | **Networking Cocktail (Lunch)**

14:00 – 14:30h | **Closing Remarks & Awards Ceremony**

POSTER PRESENTATION LIST

Poster setup: Thursday, April 16th, 10:30–11:30

Poster presentations and defense: Friday, April 17th, 10:30–11:30

Poster removal: Saturday, April 18th, 11:00–12:00

- **PO 01** | Estimation of target-ligand binding affinity by in silico approach. Presenter: **Dora Biskup**.
- **PO 02** | Pharmacological inhibition of transient receptor potential ankyrin 1 (TRPA1) ion channel may modulate the function of brainstem urocortineric neurons in the mouse model of acute stress. Presenter: **János Konkoly**.
- **PO 03** | Stress and alcohol exposure during adolescence are associated with anxiety-like behavior and endocrine-cardiac alterations linked to the chemokine receptor CX3CR1 in adult mice. Presenter: **María Díaz Ottaviano**.
- **PO 04** | The role of TRPA1 in response to acute stress in mice. Presenter: **Laura Szegner**.
- **PO 05** | Unravelling the role of hemokinin-1 in thermoregulation. Presenter: **Éva Borbély**,
- **PO 06** | The role of hemokinin-1 in stress-induced pain mouse model. Presenter: **Rebeka Petrák (Arimura Travel Award)**.
- **PO 07** | Exploring how *Hericium* polysaccharide fractions modulate neuropeptide GPCR signaling, trafficking, and receptor–receptor organization in human neuronal cells: focus on OXTR–5-HT_{2A} and NTSR1–D_{2R}. Presenter: **Catalina Muena Navarrete**.
- **PO 08** | Preclinical comparison of small molecule somatostatin 4 receptor agonists: in silico, in vitro and in vivo approaches. Presenter: **Erika Pintér**

- **PO 09** | NPY1R-TrkB Heteroreceptor Complexes formation suggests a mediated effect on the enhanced neurogenesis and spatial memory performance in a physiological model of neurodegenerative diseases. Presenter: **Javier López-Ventura Luque.**
- **PO 10** | Peripheral NPY1R-Based Heteroreceptor Complexes in Leukocytes: A Novel Biomarker for Early Detection of Alzheimer's Disease and Depression. Presenter: **Lidia Fernández-Díaz.**
- **PO 11** | Role of NPY1R-GALR2 heteroreceptor complexes in adult hippocampal neurogenesis. New paths for the treatment of Alzheimer disease. Presenter: **Miriam Betsabé Arreola Peña.**
- **PO 12** | Secretagoin governs the vesicular release of hormones via direct interactions with the SNARE-complex. Presenter: **Robert Schnell.**
- **PO 13** | Sustained nutrient release system (e.g., THCPsi particles) reduced food intake in diet induced obese mice by endogenous GLP-1 secretion. Presenter: **Nalini Sodum.**
- **PO 14** | BDNF as a potential marker of familial vulnerability in affective disorders. Presenter: **Jonathan Joseph Dawood Hristova.**
- **PO 15** | GPCR-HetNet: A Network-Based Platform to Explore GPCR-GPCR Interactions. Presenter: **Marina Mirchandani Duque**
- **PO 16** | Optimization of in situ Proximity Ligation Assay for Detecting GHSR-D2R and MOR-D2R Heteroreceptor Complexes in brain and heart samples. Presenter: **Juan Vicente Bayolo-Guanche**



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SPONSORS:



EVENT ORGANIZATION



Secretaría Técnica

Eventos

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