

XVIII Iberian Peptide Meeting

Full Program

PL Plenary Lecture	52+6 min
KN Keynote	25+4 min
ST Short Talk	12+3 min
CT Company Talk	12+3 min
FT Flash Talk	3+1 min

Monday 27/11

12h00

Registration

14h00

Opening remarks

14h10

PL1 Maria Luisa Mangoni Sapienza University of Rome
Esc peptides for novel therapeutics against Pseudomonas aeruginosa lung and ocular surface infections: beyond antimicrobial activity

Chair: Rosarío González-Muñiz

15h10

ST1 Helena S. Azevedo I3S, Universidade do Porto
Peptide building blocks to recreate basement membranes and develop in vitro BBB models

ST2 Douglas V. Laurents IQF Blas Cabrera, CSIC
Design principles for polyproline II helix peptides

CT1 Karin Rustler Iris Biotech
Novel protecting groups for side chain functional groups of amino acids

FT1 Marco Cavaco Instituto de Medicina Molecular
The use of a selective, nontoxic dual-acting peptide for breast cancer patients with brain metastasis

FT2 Pedro M. Alves I3S, Universidade do Porto
Dual-effect chitosan nanoparticles with conjugated pro-angiogenic and antimicrobial peptides

16h10

Coffee break & Posters

17h00

ST3 Adam Carrera-Aubesart Universitat Pompeu Fabra
Topoisomers of a snake venom-derived antimicrobial peptide: lessons from in vivo studies

ST4 Bruna Costa I3S, Universidade do Porto
The Dhvar5-nanogels performance in combating orthopedic device-related infections

CT2 Alexandre Broges PARALAB-Bio
Pushing the boundaries in biomolecular interaction analysis with the WAVEsystem

FT3 Sofia A. Martins C2TN, Instituto Superior Técnico, Universidade de Lisboa
Bone-seeking peptides targeting the RANK-TRAF6 interface for bone metastases theranostics

FT4 Ana S. Silva-Herdade Instituto de Medicina Molecular
Bioactive peptides in functional foods can mitigate stress behaviors in zebrafish (Danio rerio)

Chair: Manuel N. Melo

18h00

19h00

Welcome cocktail

Tuesday 28/11

9h00	KN1	Javier Montenegro CiQUS, Universidad de Santiago de Compostela Supramolecular peptide assemblies for membrane transport and biomimetic systems	Chair: Helena S. Azevedo
9h30	ST5	Octavio L. Franco Universidade Católica de Brasília In silico optimization of antimicrobial peptide enables the development of bioinspired products	
	ST6	Joana Calvário ITQB NOVA Investigating amino acid enrichments and patterns: understanding biases in liquid-liquid phase separation	
	CT3	Luísa Aguiar Gyros Protein Technologies An automated peptide synthesis and purification platform to overcome operational complexity	
	FT5	Christine Cruz-Oliveira Instituto de Medicina Molecular Targeting arboviral infections in the central nervous system with peptide-porphyrin conjugates	
	FT6	Fernando Neiva Nunes ITQB NOVA Room for improvement in the initial Martini 3 parametrization of peptide interactions	
10h30	Coffee break & Posters		
11h30	ST7	Vera Neves Faculdade de Medicina, Universidade de Lisboa Peptide Shuttles to improve therapeutic action in the central nervous system	Chair: João Calamba Correia
	ST8	Salvador Ventura Universitat Autònoma de Barcelona Exploiting α -helical peptides to block and unveil the structure of α -synuclein toxic oligomers	
	ST9	Jorge H. Fernandez Universidade Estadual do Norte Fluminense Targeting integrin-mediated cell adhesion: unveiling the anti-metastatic potential of A9(x) cyclic peptides	
	ST10	Michael Timme University of Osnabrueck Structural and topological determinants of Hexokinase-VDAC interaction	
	ST11	Beatriz L. Pires-Lima LAQV-REQUIMTE Synthesis of pyridine-based melanostatin derivatives	
	FT7	José M. Coelho Instituto de Medicina Molecular Antibiofilm effect of synthetic antimicrobial peptides on Gram-positive and Gram-negative bacteria	
13h00	Lunch		
14h30	PL2	Norbert Sewald Bielefeld University Cytotoxic peptides and conjugates for tumour targeting	Chair: Paula Gomes
15h30	ST12	Akhilesh Rai CNC, Universidade de Coimbra Multifunctional antimicrobial coatings to prevent peri-implantitis	
	ST13	Ana Salomé Veiga Faculdade de Medicina, Universidade de Lisboa Activity and mode of action of pepRF1, a new CXCR4-targeted HIV inhibitor	
	ST14	Lorenzo Cianni University of Antwerp Exploring targeted autophagy modulation in pursuit of precision therapeutics for cancer and atherosclerosis	
	FT8	Catarina S. Lopes Instituto de Medicina Molecular α , β ₃ integrin peptide inhibitors impact on fibrinogen-erythrocyte binding	
	FT9	Cátia Rosa C2TN, Instituto Superior Técnico, Universidade de Lisboa Design of novel peptides to target the intracellular G protein-dopamine receptor type 2 (D2R) interface	
16h30	Coffee break & Posters		
17h30	ST15	María Angeles Jiménez IQF Blas Cabrera, CSIC Understanding protein interactions using NMR studies of peptide models	Chair: Nuno C. Santos
	ST16	Ana Gomes LAQV-REQUIMTE Peptide-based therapeutics towards the topical treatment of skin infections	
	ST17	Álvaro de la Cruz Instituto de Química Médica, CSIC Design and synthesis of novel hemagglutinin fusion peptide inhibitors of H1N1 influenza virus	
	ST18	Rita Melo C2TN, Instituto Superior Técnico, Universidade de Lisboa In silico approach for the design of peptides targeting the RANK-TRAF6 interaction	
18h30	Meeting dinner		
20h30			

Wednesday 29/11

9h00	KN2 Diana Lousa ITQB NOVA <i>Fusion peptides: Scenes from the lives of key players in viral infections</i>	Chair: Maria Angeles Jiménez
9h30	ST19 Maria C. Lucana Institut Químic de Sarrià, Universitat Ramon Llull <i>BrainBike peptidomimetic enables efficient transport of antibody derivatives across brain endothelium</i> ST20 Sónia Gonçalves <i>Conjugation of nanostars with PaMAP1.9 to improve its anticancer activity</i> ST21 Miguel Maldonado <i>Novel leishmanicidal compounds as potent dimerization disruptors of LiTryR</i> FT10 Beatriz Vieira-da-Silva Instituto de medicina Molecular <i>Unravelling the factors that govern the ability of antiviral peptide-porphyrin conjugates to translocate the blood-brain barrier</i>	
10h30	Coffee break & Posters	
11h30	ST22 Diego Núñez-Villanueva Instituto de Química Médica, CSIC <i>A diastereopure azepane quaternary amino acid as effective inducer of β-turns and 3_{10}-helices</i> ST23 Sara C. Silva-Reis LAQV-REQUIMTE <i>Insights on the influence of proline residue on the biological effects of glypromate bioconjugates</i> ST24 Ana Alcalde-Ordóñez CiQUS, Universidad de Santiago de Compostela <i>Selective cleavage of DNA replication foci in mammalian cells by Cu^{II} peptide helicates</i> ST25 Ana C. Borges-Araújo ITQB NOVA <i>Study of alamethicin pore formation in lipid membranes using the Martini 3 coarse-grained force field</i> ST26 Rúben D. M. Silva C2TN, Instituto Superior Técnico, Universidade de Lisboa <i>Evaluating the activity of CXCR4 and D2R-targeting peptides using the TRUPATH platform</i> ST27 Ana Rita Ferreira LAQV-REQUIMTE <i>What can an ionic liquid do for the bioactivity of antimicrobial peptides? The case of W-BP100</i>	
13h00	Closing remarks	
13h15	Lunch <i>*Attendance must be confirmed at registration time</i>	Chair: Miguel A. R. B. Costanho
Poster list <i>(Posters P1 through P10 listed as Flash Talks FT1 through FT10)</i>		
P11	Anu Ploom University of Tartu <i>Kinetic study of aza-amino acid incorporation into peptide chain: Impact of steric effect of the side chain</i>	
P12	Axel Sarmiento Fuentes CiQUS, Universidad de Santiago de Compostela <i>Chemically fueled droplets for out-of-equilibrium sequence-specific RNA binding</i>	
P13	Carlos Cuadros-Higueras Instituto de Química Médica, CSIC <i>A "difficult sequence" cardiovascular peptide. Optimizing synthesis and purification</i>	
P14	Carmen González-González CiQUS, Universidad de Santiago de Compostela <i>Single α-helical peptide with conductive and fluorescence properties</i>	
P15	Carolina C. Buga Instituto de Medicina Molecular & ITQB NOVA <i>Molecular insights into membrane fusion mediated by the parainfluenza fusion peptide</i>	
P16	David Q. P. Reis ITQB NOVA <i>Peptide-based coacervates as catalytic microreactors</i>	
P17	Eduardo F. Vicente Universidade Estadual de São Paulo <i>Structural modifications of the antimicrobial peptide Ctx(Ile²¹)-Ha generate more potent peptide analogues with improved biological activities for animal production applications</i>	
P18	Patricia Sanmiguel CiQUS, Universidad de Santiago de Compostela <i>Helix-like peptides approach to three-way-junction binding</i>	
P19	Renato B. Pereira LAQV-REQUIMTE <i>Synthesis and antibacterial activity of Trichoderma longibrachiatum longibramide E analogs</i>	
P20	Ricardo Ferraz LAQV-REQUIMTE <i>Peptides derived from pet food protein ingredients: from proteomics to in vitro bioactivity profiling</i>	