

1^{ER} CONGRESO LATINOAMERICANO DE PÉPTIDOS
VII WORKSHOP DE PÉPTIDOS TERAPÉUTICOS
 Universidad Católica de Valparaíso.
 (15 - 18 de diciembre 2025)

DÍA 1: Lunes 15 de diciembre 2025.
(Escuela de Negocio y Economía PUCV)

14:00 -15:00	Acreditación
15:00 -15:15	Palabras de Bienvenida
15:20 -16:00	Charla Inaugural David Craik (Australia) Discovery and applications of cyclotides in agriculture and medicine (40 min)
16:05 -16:45	Sesión Especial: Reflections and Perspectives in Peptide Science in Latin America (Fanny Guzmán y Fernando Albericio)
17:00 -18:30	Cóctel de Bienvenida

DÍA 2: Martes 16 de diciembre 2025.
(Auditorio Quinto Centenario/ Sala Emilio Tagle)

8:15 -8:30	Acreditación
8:30 - 8:50	Palabras de Bienvenida
8:50 -9:30	Ved Srivastava (USA) 40 min From Design to Therapy: How AI/ML Speeds Up Peptide-Based Drug Discovery
Péptidos Biotecnología e Innovación <i>(Auditorio V centenario)</i> Biofísica de péptidos y proteínas <i>(Sala Emilio Tagle)</i>	
9:40 -10:00	Pablo Barrias (Chile) Development of a Pyridone-peptide system with controlled singlet oxygen release for application on bacterial infected wounds Claudio Borsarelli (Argentina) Photosensitized oxidative crosslinking of proteins (30 min)
10:10 -10:30	Francisco Mura (Chile) Peptide/Lipid membrane interaction assessment employing physico-chemical techniques. Natalia Wilke (Argentina) Membrane characteristics that determine the activity of the membrane-active antimicrobial peptide MP1 (30 min)
10:40 -11:00	Mariela Marani (Argentina) Mapping the Landscape of Antimicrobial Peptides from Latin American Anurans: Current Knowledge, Gaps, and Prospects for Drug Discovery Natalia Wilke (Argentina) Membrane characteristics that determine the activity of the membrane-active antimicrobial peptide MP1 (30 min)
11:05 -11:40	Coffee break (Salón centenario)
Auditorio V centenario - FLASH TALK - Sala Emilio Tagle	

11:40 -11:50	Javier Badilla (Chile) Generation of bioactive peptides from thermal response proteins of psychrotolerant organisms	Juan Reyes (Colombia) Design and Synthesis of BODIPY- and Sugar-Conjugated LfcinB Peptides via CuAAC and Thiol–Ene Chemistry for Biomedical Applications
12:00 -12:10	Brandon Usuga (Chile) Rational design of peptides as antiviral alternatives for animals grown in confinement	Camila Irabuena (Uruguay) Cyclopeptides for Sustainable Weed Management with Low Ecotoxicological Impact
12:20 -12:30	Cesar Roque (Brazil) Antimicrobial peptides in nano/microencapsulated systems through self-assembly and conjugation strategies for the control of infectious diseases	Daniel Saenz (Chile) Rational design of Amino-Quinazoline hybrids as selective modulators of AGR2 dimerization.
12:30 -14:30	Almuerzo (Salón centenario)	
13:00 – 14:30	Sesión de Póster 1 (Salón Centenario)	
14:40 - 15:20	Marcelo Muñoz (Canadá) Nano-spray gold-peptide therapy for heart attack treatment	
Péptidos en la clínica (Auditorio V centenario)		Péptidos terapéuticos y funcionales (Sala Emilio Tagle)
15:30 -15:50	David Ramirez (Chile) AI-driven design and experimental characterization of novel β -Amyloid anti-aggregation peptides	Fernando Hinostroza (Chile) From Cell Types to Circuits: Decoding RVD-Hemopressin in Noradrenergic Pathways
16:00 -16:20	Carlos Soto (Colombia) Antitubercular activity of synthetic peptides derived from LL-37 and their potential targeting on the Mycobacterium tuberculosis plasma membrane transporters CtpF and CtpA	Patricia Zorro (Colombia) Antimicrobial peptides from Hydractinia symbiolongicarpus
16:30 -16:50	Horacio Poblete (Chile) Programmable Peptide–Graphite Interfaces for Water Bioremediation: From Gly–X Sequence to Ion Capture	Juan Carlos Forero (Chile) Functional Artificial Saliva with Bioactive Peptides: A Translational Approach to Improve Oral Health in Elderly Diabetic Patients
17:00 -17:25	Coffee break (Salón centenario)	
17:25 -17:45	Mauricio Urquiza (Colombia) Development of High-Affinity Molecules for Detection and Treatment of Solid Tumors Targeting the $\alpha v \beta 6$ and $\alpha v \beta 3$ Integrins based on an integrin binding peptide	Silvia Camperi (Argentina) Production of anti- δ -Ctenitoxin-Pn2a antibodies in mice with immunogenic peptide

17:55 -18:15	Daniela Lopez (Colombia) Evaluation of the Wound-Healing Effect of Peptides Derived from Regenerating Tissue of Ambystoma mexicanum in an In Vitro Skin Injury Model	Alexis Aspee (Chile) Evaluation of helical peptide–membrane interaction dynamics using fluorescently labelled peptides and lipid molecular rotors
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DÍA 3: Miércoles 17 de diciembre 2025.
(V centenario y Emilio Tagle)

8:15 -8:30	Acreditación	
8:30 -9:50	Palabras de Bienvenida	
8:50 -9:30	Dr. Fernando Albericio (South Africa) The Peptide Golden Era: Challenges and Opportunities Ahead	
Péptidos en Agropecuario (Auditorio V centenario)		Péptidos en Alimentos (Sala Emilio Tagle)
9:40 -10:00	Paulina Schmitt (Chile) A new antimicrobial peptide from the scallop <i>Argopecten purpuratus</i> : <i>in silico</i> identification and functional validation.	Roxana Chirinos (Perú) Bioinformática y peptidómica como herramientas en el descubrimiento y caracterización de nuevos péptidos multifuncionales de sacha inchi (<i>plukenetia volubilis</i>)
10:10 -10:30	Linda Garcia (Colombia) Synthetic peptides as a new health strategy in poultry, in the <i>Salmonella enterica</i> model	Alma Cruz (México) Biotechnological Valorization of Whey: Functional Peptides as Emerging Therapeutics and Nutraceuticals
10:40 -11:00	Diego Jaramillo (USA) Salt-mediated wet adhesion: The impact of environmental salts and their nature on aggregation, film formation and adhesiveness of <i>Vibrio Cholerae</i> adhesin-derived peptide	Luis González (Mexico) Perspectives and Challenges in the Isolation and Application of Food-Derived Bioactive Peptides (On line)
11:05 -11:40	Coffee break (Salón centenario)	
Auditorio V centenario - FLASH TALK - Sala Emilio Tagle		
11:40 -11:50	Matias Zapata (Chile) Influence of Trp on the Interaction of Monomeric and Dimeric Antimicrobial peptides with Phospholipid Membranes and their Susceptibility to Free Radical Oxidation	Jose Mendoza (Colombia) How Can a Peptide Qualify as an LC–MS Reference Material? A Case Study in Caseinomacropetide (CMP)
12:00 -12:10	Kelin Cuero (Colombia) Antibacterial Activity of Fluorolabeled Peptides with Potential Use in Evaluating	Valentina Diaz (Chile) Therapeutic effect of the combined use of peptide 1943 and <i>Rosmarinus officinalis</i>

	the Mechanisms of Action of Antimicrobial Peptides	essential oil as a potential treatment for atopic dermatitis in adults
12:20 -12:30	Gabriela Herrera (Chile) Dual-Function Peptide Chimera: Antioxidant Activity and Phospholipidic Membrane Interaction	Paola Gamba (Colombia) Obtaining bioactive peptide lunasin derivatives: study of synthetic routes and/or extraction processes
12:30 -14:30	Almuerzo (<i>Salón Centenario</i>)	
13:00 – 14:30	Sesión de Póster 2 (<i>Salón Centenario</i>)	
14:40 -15:20	Beatriz G de la Torre (South Africa) Small Peptides, Big Impact: The Art of Rational Design	
Péptidos Funcionales (<i>Auditorio V centenario</i>)		Biotecnología e Innovación (<i>Salón Emilio Tagle</i>)
15:30 -15:50	Andres Barriga (Chile) Msion (im)posible: identificacion, caracterizacion y cuantificacion de peptidos	Edgar Lecina (España) Acid-Modulated peptide synthesis on glass surfaces for application in FET biosensors
16:00 -16:20	Matias zuñiga (Chile) Discovery of Selective Peptide-Based Tubulin Inhibitors through Structure-Guided Design	Sebastián Bermudez (Brazil) Accelerating the development of antimicrobial peptide-based antimicrobial agents via cell-free biosynthesis
16:30 -16:50	Laura Posada (Uruguay) Peptide Cyclization Methodologies Enabling the Discovery of Nature-Inspired Bioactive Molecules	Benjamín Zúñiga (Chile) Dual-Targeting Peptide-Conjugated Photosensitizer for Enhanced Selectivity in Photodynamic Therapy
17:00 -17:25	Coffee break (<i>Salón centenario</i>)	
Péptidos Funcionales (<i>Auditorio V centenario</i>)		Biotecnología e Innovación (<i>Salón Emilio Tagle</i>)
17:25 -17:45	Steffano Assef (Brazil) Synthesis and Study of Ciprofloxacin Peptide Bioconjugates for the Treatment of Urogenital Tract Infections	Leticia Rocha (Brazil) Melittin Analogues: A Dual-Strategy Against Antimicrobial Resistance and Cytotoxicity
17:55 -18:15	Clemencia Pinilla (USA) Mixture based Combinatorial Libraries: Identification of novel G-coupled receptors ligands and Elucidation of T cell Specificity	María Luisa Serrano (Venezuela) Towards the diagnosis of malaria: Identification of antigenic peptides in P41 and P12 proteins of <i>P. falciparum</i> and <i>P. vivax</i>

DÍA 4: Jueves 18 de diciembre 2025.
(Salón de Honor – Auditorio quinto centenario)

8:15 -8:30	Acreditación	
8:30 – 8:50	Palabras de Bienvenida	
8:50 -9:30	Sergio Lavandero (Chile) Descifrando las señales cardiometabólicas de la angiotensina-(1-9)	
	Péptidos en cosmética (Quinto centenario) Previa inscripción	Péptidos en Nanotecnología (Salón de Honor)
9:40 -10:00	Palabras de Bienvenida /Introducción	Marcelo Kogan (Chile) Péptidos y nanotecnología: una dupla ideal para la terapia y el diagnostico de enfermedades crónicas.
10:10 -10:30	Leda Guzmán (Chile) Sustainable natural peptide: New agent for use in dermocosmetics.	
10:40 -11:00	Antonio Guglielmetti (Chile) Péptidos antimicrobianos en Dermatitis Atópica	Andreas Arellano (Chile) Enantiomeric Peptide D3-Functionalized Gold Nanoparticles decrease Blood–Brain Barrier Dysfunction Induced by Amyloid- β in an Alzheimer’s Disease-on-a-Chip Model
11:00 -11:40	Coffee break (Salón centenario)	
11:40 -12:00	Luis Pizarro (Chile) Dermocosmética en Chile, Introducción al desarrollo y Formulación	Freddy Celis (Chile) Espectroscopia Raman amplificada por plasmón de proteínas
12:10 -12:20	Daniel Moraga (Chile) Cruzar la piel tiene costo: liberación transdérmica de péptidos y su peaje en estabilidad y manufactura	Cristian Salinas Molecular Discovery and Functional Profiling of Venom-Derived Peptides from <i>Pamphobeteus verdolaga</i>
12:30 -13:00	PALABRAS FINALES Y PREMIACIÓN (Salón de honor)	

Ubicaciones: Casa central PUCV, Av. Brasil 2950, Valparaíso.

Auditorio V centenario: Quinto piso casa central

Salón Emilio Tagle: Primer piso casa central

Salón centenario: Primer Piso casa central

Sesión de Póster: Patio primer piso casa central