



37th EPS

European
Peptide
Symposium

14th IPS

International
Peptide
Symposium

25 - 29 August 2024

PROGRAMME

Florence, Italy



SUNDAY, 25 AUGUST 2024

AUDITORIUM | 17:00-20:00
OPENING CEREMONY

- 17:00** **Anna Maria Papini & Paolo Rovero** (*Symposium Chairs*)
Knud Jensen (*European Peptide Society President*)
Opening remarks
- 17:15** **Christian Becker** (*Journal of Peptide Science*) & **Thomas Trier-Mork** (*Wiley*)
Journal of Peptide Science Best Paper Award 2023
- 17:30** **Florine Cavelier** (*EPS Executive Committee*) & **Jordi Piro**, *BCN Peptide*
Miklós Bodanszky Award to Cesar de la Fuente
- 17:40** **Beate Koksich** (*EPS Executive Committee*)
Leonidas Zervas Award to Ashraf Brik
- 17:50** **Ashraf Brik** (*Technion-Israel Institute of Technology, Haifa, Israel*)
AL1 ZERVAS Award Lecture: Ubiquitin signaling: chemistry, biology and drug discovery
- 18:20** **Knud Jensen** (*EPS President*) & **Linda Haugaard-Kedström**, *Polypeptide Laboratories*
Josef Rudinger Memorial Award to Fernando Albericio
- 18:30** **Fernando Albericio** (*University of Kwa-Zulu Natal, South Africa*)
AL2 Rudinger Award Lecture: Solid-phase peptide synthesis as a combination of resins, protecting groups, coupling reagents in a proper solvent
- 19:10** **Knud Jensen** (*EPS President*) & **Linda Haugaard-Kedström**, *Polypeptide Laboratories*
Josef Rudinger Memorial Award to David Andreu
- 19:20** **David Andreu** (*Pompeu Fabra University, Spain*)
AL3 Rudinger Award Lecture: Snapshots and reflections from travels across diverse peptide landscapes



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



MONDAY, 26 AUGUST 2024

AUDITORIUM | 08:30-09:10

Morten Meldal (*Univeristy of Copenhagen, Denmark*)

OLI Opening Plenary Lecture

Welcome address by **Alessandra Petrucci**, *Rector of the University of Florence*

AUDITORIUM | 09:10-10:30

PLENARY SESSION 1 - INNOVATION IN PEPTIDE CHEMISTRY I

Chairs: **Helma Wennemers** (*ETH Zurich, Switzerland*) & **Joel Schneider** (*National Cancer Institute, USA*)

09:10 Philip E. Dawson (*Scripps Research, USA*)

L01 Synthesis of peptides and macromolecular conjugates while adsorbed to a solid support

09:30 Beate Koks (*Institute of Chemistry and Biochemistry, Freie Universität Berlin, Germany*)

Fluoropeptides as biodegradable biopolymers

09:50 William Lubell (*Université de Montréal, Canada*)

L03 Tetrasubstituted benzotriazepinones act as β -turn mimics without stereogenic carbons exhibiting allosteric modulation of the urotensin II receptor

10:10 Hiroaki Suga (*The University of Tokyo, Japan*)

L04 Generation of neobiologics derived from macrocyclic peptides by Lass Graft technology

10:30 Coffee break

11:10

MONDAY, 26 AUGUST 2024

AUDITORIUM | 11:10-13:30

PLENARY SESSION 2 - INNOVATION IN PEPTIDE CHEMISTRY II

Chairs: **Beate Koksch** (Freie Universität Berlin, Germany) &
Fernando Albericio (University of Kwa-Zulu Natal, South Africa)

- 11:10** **Stephen Kent** (University of Chicago, USA)
L05 Fundamental aspects of SPPS - prospects for the Green future
- 11:30** **Wendy Hartsock** (Aralez Bio, USA)
L06 Biocatalysis for green manufacturing of amino acids
- 11:50** **Mattan Hurevich** (The Hebrew University of Jerusalem, Israel)
L07 Accelerated solid-phase synthesis as a tool to explore post-translationally modified peptides
- 12:10** **Oliver Seitz** (Humboldt-Universität zu Berlin, Germany)
L08 Synthesis of multiply post-translationally modified multi tandem repeat peptides for biological interrogation
- 12:30** Lunch
13:30

AUDITORIUM | 13:30-15:30

PARALLEL SESSION 1 - NOVEL TECHNOLOGIES FROM INDUSTRY

Chairs: **Wendy Hartsock** (Aralez Bio, USA), **Christina Schroeder** (Genentech, USA) & **Ved Srivastava** (Perpetual Medicine, USA)

- 13:30** **Yvonne Angell** (WuXi TIDES, Hong Kong)
L09 Mastering and accelerating bispecific peptide-conjugates: unveiling success strategies
- 13:50** **Jonathan M. Collins** (CEM Corporation, USA)
L10 Massive waste reduction for solid phase peptide synthesis
- 14:10** **Hossain Saneii** (AAPPTec LLC, USA)
L11 Good bye DMF, good bye DCM and welcome true green chemistry
- 14:30** **Markus Löweneck** (SENN Chemicals AG, Switzerland)
L12 Advantages and strategies for successful implementation of LPPS
- 14:50** **Amit Mehrotra** (Biotage AB, Sweden)
L13 New technologies enabling high-throughput peptide library production: simpler, faster, and greener
- 15:10** **Robert Zitterbart** (Protein Technologies AB, Sweden)
L14 Navigating through advanced and greener synthesis and purification technology to prepare for the new era of peptide therapeutics



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



MONDAY, 26 AUGUST 2024

SALA VERDE | 13:30-15:30

PARALLEL SESSION 2 - EMERGING PEPTIDE-BASED TECHNOLOGIES I

Chairs: **Marta De Zotti** (University of Padova, Italy) & **Xuechen Li** (The University of Hong Kong, Hong Kong)

13:30 **Sophie Faure** (Université Clermont Auvergne, CNRS, France)

L16 Bio-inspired design of cationic amphipathic peptoid foldamers for targeting planktonic and biofilm-embedded bacteria

13:45 **Juan Del Valle** (University of Notre Dame, USA)

L17 Beyond N-methylation: synthesis, structure, and function of N-aminopeptides

14:00 **Origène Nyanguile** (HES-SO Valais-Wallis, Institute of Life Sciences, Switzerland)

A novel site selective antibody conjugation technology

14:15 **Hiroshi Murakami** (Nagoya University, Japan)

L19 Antibody-like proteins targeting proteins and small molecules

14:30 **Yuji Ito**, (Kagoshima University, Japan)

L20 tCAP conjugate: an affinity peptide-based antibody conjugation system to generate highly functional antibody

14:50 **Baptiste Aussedat** (Chemitope Glycopeptide, USA)

L21 Charting the landscape of synthetic glycopeptides

| 15:30-17:00

POSTER SESSION 1

(see pages 22-53)

MONDAY, 26 AUGUST 2024

AUDITORIUM | 17:00-19:30

PARALLEL SESSION 3 - INNOVATION IN PEPTIDE CHEMISTRY III

Chairs: Yan-Mei Li (Tsinghua University, China) & Claudiu Supuran (University of Florence, Italy)

- 17:00** Hironobu Hojo (Institute for Protein Research, Osaka University, Japan)
L22 Diselenide metathesis reaction in peptides
- 17:20** Istvan Mandity (Semmelweis University, Hungary)
L23 Greening of peptide synthesis by the utilization of continuous-flow technology
- 17:40** Norman Metanis (The Hebrew University of Jerusalem, Israel)
L24 Through the looking glass:: Functional ambidexterity of an ancient nucleic acid-binding protein
- 18:00** Lara R. Malins (Australian National University, Australia)
L25 Advances in late-stage peptide modification chemistry: inspiration from nature
- 18:20** Xuechen Li (The University of Hong Kong, Hong Kong)
L26 Handling difficult peptide/protein synthesis and modification
- 18:40** Thimmaiah Govindaraju (Jawaharlal Nehru Centre for Advanced Scientific Research, India)
L27 Peptide inhibitors for combating inflammasome activation in neurodegenerative disorders
- 19:00** Cesar de La Fuente (University of Pennsylvania, USA)
AL4 **Bodanszky Award Lecture**
AI for antibiotic discovery



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



MONDAY, 26 AUGUST 2024

SALA VERDE | 17:00-19:00

PARALLEL SESSION 4 - INNOVATION IN PEPTIDE CHEMISTRY IV

Chairs: Philip Dawson (Scripps Research, USA) & Meritxell Teixidó (Gate2Brain, Barcelona, Spain)

- 17:00** Shlomo Yitzchaik (The Hebrew University of Jerusalem, Israel)
L28 Peptide-kinase interactions derived electrochemical biosensors
- 17:20** Marta De Zotti (University of Padova, Italy)
L29 Helical peptides able to selectively interact with ions in water: towards a sustainable, peptide-based, wastewater treatment technology
- 17:35** Junfeng Zhao (Guangzhou Medical University, China)
L30 Peptide synthesis using unprotected amino acids
- 17:50** Rita Petracca (Utrecht University, Netherlands)
L31 Shedding light on hidden protein marks - a novel photochemical approach to unveil lysine crotonylation (Kcr)
- 18:05** Francesco Merlino (University of Naples Federico II, Italy)
L32 Ultrasonic-aided sustainable chemical synthesis of biologically active peptides
- 18:20** Sonia Cantel (IBMM-UMR5247, France)
L33 Improving peptides and proteins insights: cutting-edge chemical probes and advanced MALDI-MS techniques for out of range biomarker targeting
- 18:40** Shi-Zhong Luo (Beijing University of Chemical technology, China)
L34 Computer-aided rational design of bioactive peptides with biomedical applications

TUESDAY, 27 AUGUST 2024

AUDITORIUM | 08:15-10:30

PLENARY SESSION 3 - THERAPEUTIC PEPTIDES FROM BENCH TO CLINIC I

Chairs: **Rina Aharoni** (*Weizmann Institute, Israel*) & **Oliver Seitz** (*Humboldt-Universität zu Berlin, Germany*)

08:15 **Richard Di Marchi** (*Indiana University, USA*)

L35 Chemical evolution of macromolecules for multiple therapeutic purposes

08:40 **Mohammed Akhter Hossain** (*The Florey, University of Melbourne, Australia*)

L36 Design and synthesis of insulin, insulin-like peptides and their peptidomimetics

09:00 **Gavin Bennett** (*Bicycle Therapeutics Inc, USA*)

L37 Bicyclic peptide conjugates: a novel therapeutic modality

09:20 **Elisbetta Bianchi** (*IRBM, Italy*)

L38 Chemical evolution of lactam constrained macrocycles: oral tricyclic peptide PCSK9 inhibitors for LDL-lowering and coronary heart diseases

09:40 **Atsushi Ohta** (*Chugai Pharmaceutical Co., Japan*)

L39 Identification of an orally bioavailable cyclic peptide RAS inhibitor guided by drug-like criteria beyond the rule of five

10:00 **Florence Brunel** (*Novo Nordisk, USA*)

L39 Exploring the evolution of obesity treatments: from GLP-1 agonists to bis polypharmacy approaches

10:15 *Coffee break*

11:00



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



TUESDAY, 27 AUGUST 2024

AUDITORIUM | 11:00-12:30

PLENARY SESSION 4 - INNOVATION IN PEPTIDE STRUCTURAL STUDIES

Chairs: **Michael Chorev** (Mellitus, USA) & **Yu-Shan Lin** (Tufts University, USA)

11:00 **Yan-Mei Li** (Tsinghua University, China)

L40 Structural and mechanical insights of site-specific phosphorylated α -synuclein fibrils in Parkinson's disease

11:20 **Lukasz Berlicki** (Wrocław University of Science and Technology, Poland)

L41 Design and engineering of miniproteins towards functional structures

11:35 **Anne Conibear** (TU Wien, Austria)

L42 Chemical and structural biology tools to probe protein posttranslational modifications in disordered proteins

11:50 **Diana Imhof** (University of Bonn, Germany)

L43 The revival of Edman degradation for the analysis of multiple disulfide-bonded peptides and proteins

12:10 **Katsumi Matsuzaki** (Kyoto University, Japan)

L44 Structural changes of amyloid β -peptide fibrils on neuronal cells

12:30 Lunch

13:30

AUDITORIUM | 13:30-14:10

LUIS MORODER TRIBUTE

Anna Maria Papini, Michael Chorev, William Lubell, and Norbert Sewald

TUESDAY, 27 AUGUST 2024

AUDITORIUM | 14:10-15:40

PLENARY SESSION 5 - YOUNG INVESTIGATOR MINI SYMPOSIUM (part I)

Chairs: **Florine Cavalier** (CNRS, Montpellier, France) & **William Lubell** (Université de Montréal, Canada)

14:10 **Jessica Cross** (University of Bristol, United Kingdom)

YML01 Allosteric regulation of a molecular motor through de novo protein design

14:25 **Mulate Zerihun Workeneh** (Bar-Ilan University, Israel)

YML02 Peptide-to-macrocyclic: structure-activity relationships studies of P110, excessive mitochondrial fission inhibitor to target cardiovascular disease

14:40 **Luise Franz** (Leibniz Research Institute for Molecular Pharmacology, Germany)

YML03 Cell penetrating peptides for intracellular nanobody delivery to restore F508del cystic fibrosis transmembrane conductance regulator activity

14:55 **Naysilla Dayanara** (University of British Columbia, Canada)

YML04 Chemoselective and regioselective stapling of native unprotected α -helices via fluorescent isoindole crosslinking (FLICK)

15:10 **Monika Perisic** (University of Vienna, Austria)

YML05 Advanced molecular tools to study the oxytocin receptor

15:25 **Daniela Rojas-Azofeifa** (The University of Queensland, Australia)

YML06 Mending achy-breaky hearts: cyclic peptide TL01 is an enhancer of cardiac intracellular protein-protein interactions and promotes heart contractility

| 15:40-17:00

POSTER SESSION 1

(see pages 22-53)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



TUESDAY, 27 AUGUST 2024

AUDITORIUM | 17:00-19:00

PLENARY SESSION 6 - YOUNG INVESTIGATOR MINI SYMPOSIUM (part II)

Chairs: **Florine Cavelier** (CNRS, Montpellier, France) & **William Lubell** (Université de Montréal, Canada)

17:00 **Maria Gallo** (Pompeu Fabra University, Spain)

YML07 Peptide DRT-017 prevents cognitive impairment associated to medical cannabis pain management

17:15 **Xiyue Leng** (University of Bristol, United Kingdom)

YML08 Building a new type of protein from antiparallel 310 helical assemblies with noncanonical quaternary amino acids

17:30 **Ben Tombling** (Genentech, USA)

YML09 Developing high affinity peptide ligands of LRRCL5 using machine learning

17:45 **Jannik Paulus** (VU University Amsterdam, Netherlands)

YML10RGD mimetic-drug conjugates for selectively targeting $\alpha v \beta 3$ -expressing melanoma cells

18:00 **Kevin Schiefelbein** (University of Zurich, Switzerland)

YML11 Exploring the chemical space of lasso peptides using enzymatic transformation of chemically synthesized precursors

18:15 **Florian Sanchez** (Ludwig-Maximilians-Universität München, Germany)

YML12 Aromatic helical oligoamide foldamers as α -helix extended surface mimetics on coiled-coil NEMO and linear di-ubiquitin complex

18:30 **Carolina C. Buga** (University of Lisbon, Portugal)

YML13 Unraveling key amino acid residues for the oligomerization and membrane interaction of the Parainfluenza fusion peptide

18:45 **Federica Santoro** (Università di Napoli Federico II, Italy)

YML14 Enhancing peptide-membrane interactions: insights from constrained RW9 analogues

WEDNESDAY, 28 AUGUST 2024

AUDITORIUM | 08:30-10:15

PLENARY SESSION 7 - BIOACTIVE PETIDES I

Chairs: **Florence Brunel** (Novo Nordisk, USA) & **John Wade** (University of Melbourne, Australia)

08:30 **Annette G. Beck-Sickinger** (Leipzig University, Germany)

L45 Chemerin - Identifying ligand-receptor interactions by small cyclic peptides

08:55 **Christian W. Gruber** (Medical University of Vienna, Austria)

L46 Peptidomics: from neuropeptide mining in invertebrates to drug discovery

09:15 **Knud J. Jensen** (University of Copenhagen, Denmark)

L47 The mechanism of his tag acylation

09:35 **Nir Qvit** (Bar Ilan University, Israel)

L48 Pharmacological approach for targeting mitochondrial dysfunction; rational design of a potent protein-protein interaction antagonist

09:55 **Ronald T. Raines** (Massachusetts Institute of Technology, USA)

L49 Lessons from collagen-mimetic peptides

10:15 Coffee break

11:00



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



WEDNESDAY, 28 AUGUST 2024

AUDITORIUM | 11:00-12:30

PLENARY SESSION 8 - ANTIMICROBIAL AND ANTIVIRAL PEPTIDES

Chairs: **Chiara Falciani** (*University of Siena, Italy*) & **Katsumi Matsuzaki** (*Kyoto University, Japan*)

- 11:00** **Roderich Suessmuth** (*Technische Universität Berlin, Germany*)
L50 Peptides as sources for new antibacterial drugs – structures, biosyntheses & mechanisms
- 11:20** **Mercedes Martín Martínez** (*Instituto de Química Médica, Spain*)
L51 Peptidomimetic inhibitors of SARS-COV-2 main protease
- 11:35** **Alesia Tietze** (*University of Gothenburg, Sweden*)
L52 Development of peptide-based inhibitors to target virulence factors of Gram-positive bacteria
- 11:50** **Viji Sarojini** (*University of Auckland, New Zealand*)
L53 Novel lipopeptide antibiotics based on battacin: synthesis and biological investigations
- 12:10** **Miguel Castanho** (*University of Lisbon, Portugal*)
L54 Reducing the viral load of Zika virus in the brain in vivo using broad spectrum peptide-porphyrin conjugates that translocate the blood-brain barrier
- 12:30** Lunch
13:30

WEDNESDAY, 28 AUGUST 2024

AUDITORIUM | 13:30-15:30

PARALLEL SESSION 5 - BIOACTIVE PEPTIDES II

Chairs: **Lara Malins** (Australian National University, Australia) & **Shiroh Futaki** (Kyoto University, Japan)

13:30 Ikuo Fujii (Osaka Metropolitan University, Japan)

L61 A novel class of drug modalities: generation of VEGF-targeting helix-loop-helix peptides for tumor growth inhibition

13:50 Kazuyasu Sakaguchi (Hokkaido University, Japan)

L56 Functional polypeptides "r-peptides" encoded by latent ORFs in bacterial ribosomal RNAs

14:05 Ana Salomé Veiga (University of Lisbon, Portugal)

L57 Mechanism of action of a viral-derived and proteolysis-resistant HIV-1 inhibitor peptide targeting the chemokine receptor CXCR4

14:20 Annarita Falanga (University of Naples Federico II, Italy)

L58 Synthesis of hydroxamate-based peptides and evaluation of their coordination properties with iron(III)

14:35 Gregg Fields (Florida Atlantic University, USA)

L59 How altered type II collagen processing may contribute to chondrocyte dysfunction and rheumatoid arthritis initiation

14:50 Valeria Castelletto (University of Reading, United Kingdom)

L60 Self-assembly and cytocompatibility of amino acid conjugates containing a novel water-soluble aromatic protecting group



WEDNESDAY, 28 AUGUST 2024

SALA VERDE | 13:30-15:30

PARALLEL SESSION 6 - COMPUTATIONAL APPROACHES TO PEPTIDE DISCOVERY

Chairs: **Elisabetta Bianchi** (*IRBM, Italy*) & **Mohammed Akhter Hossain** (*The Florey, University of Melbourne, Australia*)

13:30 **Ewa Lis** (*Koliber Biosciences Inc, USA*)

L62 Progress towards improved peptide optimization through machine learning based predictions of potency, stability and permeability.

13:50 **Claudia Hjørringgaard**, (*Gubra A/S, Denmark*)

L63 Machine learning guided peptide drug discovery speeds up lead identification as demonstrated with novel GLP-1R agonists

14:10 **Antonella Di Pizio** (*Technical University of Munich, Germany*)

L64 Implementing machine learning tools to predict peptide bioactivity: a case study on bitter peptide prediction

14:30 **Daniela Kalafatovic** (*University of Rijeka, Croatia*)

L65 Machine learning-guided peptide discovery: are we there yet?

14:50 **Mark Distefano** (*University of Minnesota, USA*)

L66 Proteomic analysis in conjunction with peptide libraries and bioinformatic analysis yields new insights into the specificity of protein prenylation and its role in disease

15:10 **Yu-Shan Lin** (*Tufts University, USA*)

L67 Structure prediction of cyclic peptides via molecular dynamics and machine learning

| 15:40-17:00

POSTER SESSION 2

(see pages 54-85)

WEDNESDAY, 28 AUGUST 2024

AUDITORIUM | 17:00-18:55

PARALLEL SESSION 7 - PEPTIDE DELIVERY AND MATERIALS I

Chairs: Paula Gomes (University of Porto, Portugal) & Giancarlo Morelli (University of Naples Federico II, Italy)

- 17:00** Ikuhiko Nakase (Osaka Metropolitan University, Japan)
L68 Functional peptide-modified extracellular vesicles for intracellular delivery and chemical biology
- 17:20** Vera Neves (University of Lisbon, Portugal)
L69 What are the main primary sequence characteristics of peptides that penetrate the brain?
- 17:35** Jayanta Chatterjee (Indian Institute of Science, India)
L70 Backbone thioamidation to obtain cell-permeable inhibitors of protein-protein interaction
- 17:50** Eric Vivès (University of Montpellier, France)
L71 A simple and efficient strategy to induce cellular mRNA uptake using peptide-based nanoparticles
- 18:05** Simone Adorinni (University of Trieste, Italy)
L72 **Pedone Award of the Italian Peptide Society**
Hierarchical self-assembly of short peptides and metals into supramolecular gels
- 18:25** Antonella Accardo (University of Naples Federico II, Italy)
L73 Peptide materials as supramolecular diagnostic agents
- 18:40** Tao Jiang (Xiamen University, China)
L74 Design of responsive, size-transformable peptide fibrils to regulate cellular interactions



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



WEDNESDAY, 28 AUGUST 2024

SALA VERDE | 17:00-19:00

PARALLEL SESSION 8 - THERAPEUTIC PEPTIDES FROM BENCH TO CLINIC II

Chairs: **Ewa Lis** (*Koliber Biosciences Inc, USA*) & **Knud Jensen** (*University of Copenhagen, Denmark*)

17:00 Aleksandra Misicka (*University of Warsaw, Poland*)

L75 Development of opioid/melanocortin peptidomimetics as potential therapeutics for use in neuropathic pain

17:20 Alessandro Angelini (*Ca' Foscari University of Venice, Italy*)

L76 A novel combinatorial platform for rapid selection and characterisation of genetically-encoded cyclic peptide structures against a wide range of protein targets

17:35 Santo Previti (*University of Messina, Italy*)

L77 Dual ⁶⁸Ga-labeled peptide-based radiopharmaceuticals to address tumor heterogeneity

17:50 Lihu Yang (*UCB, USA*)

L78 Discovery of zilucoplan: a potent macrocyclic peptide complement component 5 (C5) inhibitor in acetylcholine receptor antibody-positive generalized myasthenia gravis

18:05 Chiara Falciani (*University of Siena, Siena*)

L79 Branched oncolytic peptides and immunogenic cell death

18:20 Jane Aldrich (*University of Florida, USA*)

L80 Optimizing macrocyclic tetrapeptides for CNS activity

18:40 Rui Kamada (*Hokkaido University, Japan*)

L81 Inhibition of Ser/Thr phosphatase PPM1D induces immunosuppressive subset of neutrophils

THURSDAY, 29 AUGUST 2024

AUDITORIUM | 08:30-10:20

PLENARY SESSION 9 - PEPTIDES AND CHEMICAL BIOLOGY

Chairs: Aphrodite Kapurniotu (Technical University of Munich, Germany)
& Stephen Kent (University of Chicago, USA)

08:30 Helma Wennemers (ETH Zurich, Switzerland)

L82 Peptides – Molecular allrounders

08:55 Christian F.W. Becker (University of Vienna, Austria)

L83 Zooming into posttranslational modifications by protein semi-synthesis

09:15 Gosuke Hayashi (Nagoya University, Japan)

L84 Nucleic acid scaffold-assisted peptide ligation for chemical protein synthesis

09:35 Ines Neundorf (University of Cologne, Germany)

L85 Cell-permeable inhibitors of collagen secretion that limit tissue scarring

09:55 David Craik (University of Queensland, Australia)

L86 A chemo-enzymatic approach to produce a cyclic analogues of peptide drug leads

10:20 Coffee break

11:00

AUDITORIUM | 11:00-12:20

PLENARY SESSION 10 - THERAPEUTIC PEPTIDES FROM BENCH TO CLINIC III

Chairs: Annette G. Beck-Sickinger (Leipzig University, Germany) & David Craik (University of Queensland, Australia)

11:00 Christian P.R. Hackenberger (FMP Berlin, Germany)

L87 Next-generation bioconjugation strategies for intra- and extracellular targeting

11:20 Aphrodite Kapurniotu (Technical University of Munich, Germany)

L88 Exploiting cross-amyloid interactions to design peptides as inhibitors of pathogenic amyloid self-assembly

11:40 Markus Muttenthaler (The University of Queensland, Australia)

L89 New avenues in oral peptide drug development for gut disorders

12:00 Emel Adaligil (Genentech, USA)

L90 Developing permeable macrocyclic peptides from mRNA display selection by utilizing both NMR and computational methods

12:30 Lunch

13:30



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



THURSDAY, 29 AUGUST 2024

AUDITORIUM | 13:30-15:40

PLENARY SESSION 11 - YOUNG INVESTIGATORS MINI SYMPOSIUM - FLASH COMMUNICATIONS

Chairs: **Christian Becker** (University of Vienna, Austria) & **Diana Imhof** (University of Bonn, Germany)

- 13:30** **Anna Papanian** (University of Bonn, Germany)
YIF01 Nucleotide exchange modulation of Gαi/s proteins with linear and bicyclic peptides
- 13:35** **Nathan Picois** (CY Cergy Paris Université, France)
YIF02 Bimodal use of chiral α-Trifluoromethylalanine in Aib Foldamers: study of the position impact towards the helical screw-sense preference
- 13:40** **Francesca Albini** (University of Padova, Italy)
YIF03 Multifunctional peptide-cotton conjugate for wound healing
- 13:45** **Perrine Savoyen** (Université Catholique de Louvain, Belgium)
YIF04 Studying staple peptide interactions with the LDH oligomeric interface
- 13:50** **Giuseppe Antoniazzi** (ETH Zürich, Switzerland)
YIF05 A lysyl oxidase-sensitive collagen probe for monitoring tissue remodeling
- 13:55** **Tsz Man Simon Tang** (University of Bath, United Kingdom)
YIF06 Intracellular OaAEP1 catalysis for recombinant head-to-tail cyclic protein production
- 14:00** **Masashi Kuriyama** (Kyoto University, Japan)
YIF07 Identification of a genomic determinant of cytosolic delivery by the attenuated cationic lytic peptide
- 14:05** **Zhenquan Sun** (The University of Hong Kong, Hong Kong)
YIF08 Chemical syntheses of difficult peptides and proteins by N,O/S-benzylidene (thio)acetals strategy
- 14:10** **Beatrice Dalla Volta** (Technical University of Munich, Germany)
YIF09 Designed cyclic peptides as inhibitors of amyloid self-assembly and cross-seeding of amyloid-beta peptide and islet amyloid polypeptide
- 14:15** **Shambhu Deo Chandra** (The University of British Columbia, Canada)
YIF10 Design, synthesis, and biochemical evaluation of amanitin derivatives with novel bioconjugation methodology for potential use in antibody-drug conjugates
- 14:20** **Sayuri Takeo** (Shizuoka University, Japan)
YIF11 Potential of alkene dipeptide isosteres as turn mimetics and their application to guanine quadruplex-binding RGG peptidomimetics

THURSDAY, 29 AUGUST 2024

AUDITORIUM | 13:30-15:40

PLENARY SESSION 11 - YOUNG INVESTIGATORS MINI SYMPOSIUM - FLASH COMMUNICATIONS (cont.)

14:25 **Marco Cavaco** (*University of Lisbon, Portugal*)

YIF12 Design and study of new peptide-based protein-protein inhibitors to tackle triple-negative breast cancer via the suppression of the Wnt/ β -catenin pathway

14:30 **Daniele Volpin** (*University of Padova, Italy*)

YIF13 Targeting West Nile virus replicases: NS3 and heterodimers inhibitors

14:35 **Roisin Leen** (*University of Galway, Ireland*)

YIF14 Cyclic sulfamidates as reagents for transforming cysteine residues into analogues of posttranslationally modified lysine residues

14:40 **Elisabetta Rosa** (*University of Naples Federico II, Italy*)

YIF15 Peptide-based supramolecular structures as useful tools for biomedical applications

14:45 **Louis-David Guay** (*Université Laval, Canada*)

YIF17 Chemical synthesis and structure-activity study of the antimicrobial lipopeptide brevibacillin and analogues thereof

14:50 **Yuhui Zhang** (*The University of Queensland, Australia*)

YIF18 Improving stability enhances in vivo efficacy of a PCSK9 inhibitory peptide

14:55 **Fruzsina Bencs** (*Eötvös Loránd University, Hungary*)

YIF19 Understanding the interactions involved in the amyloid stability via chiral spectroscopy

15:00 **Kalpna Kumari** (*Indian Institute of Technology, India*)

YIF20 Short catalytic peptides for carbon dioxide sequestration

15:05 **Burcu Sirma Tarım** (*İzmir Institute of Technology, Turkey*)

YIF21 Bioactive self-assembled peptide hydrogels for 3D cancer model YIF01 applications

15:10 **Erik Otović** (*University of Rijeka, Croatia*)

YIF22 A comprehensive machine learning framework for the prediction of therapeutic peptides from small datasets



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



THURSDAY, 29 AUGUST 2024

AUDITORIUM | 13:30-15:40

PLENARY SESSION 11 - YOUNG INVESTIGATORS MINI SYMPOSIUM - FLASH COMMUNICATIONS (cont.)

15:15 Kimberley Biggs (Massachusetts Institute of Technology, USA)

YIF23 In vitro evolution of cyclic peptide inhibitors of acid-sensing ion channel 1a for neuroprotective applications during stroke

15:20 Jay Hanssens (Maastricht University, Netherlands)

YIF24 C-terminal peptide modification: merging the passerini reaction with chemo-enzymatic synthesis

| 15:40-17:00

POSTER SESSION 2

(see pages 54-85)

AUDITORIUM | 17:00-18:00

PLENARY SESSION 12 - PEPTIDE DELIVERY AND MATERIALS II

Chairs: **Antonella Accardo** (University of Naples Federico II, Italy) & **Norbert Sewald** (University of Bielefeld, Germany)

17:00 Joel Schneider (National Cancer Institute, USA)

L91 A target-oriented approach for materials design and drug delivery

17:20 Meritxell Teixidó (Gate2Brain S.L., Barcelona, Spain)

L92 Gate2Brain blood-brain barrier shuttle peptides, from discovery to applications and going beyond small molecules

17:40 Shiroh Futaki (Kyoto University, Japan)

L93 Aspects of peptide-mediated protein delivery into cells

AUDITORIUM | 18:00-18:30

CLOSING CEREMONY

18.00 YIMS and Poster Competition Awards

18.15 Closing remarks and Handover to Wien 2026

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

CHEMISTRY OF AMINO ACIDS, PEPTIDES AND PROTEINS

- PL001 Deciphering the role of posttranslational modifications on the DNA binding activity of bHLH transcription factors using chemical protein synthesis
Muhammad Jbara (*Israel*)
- PL002 Convergent synthesis of peptidomimetic based on a chloroalkene dipeptide isostere and its application to inhibition against amyloid β aggregation
Takuya Kobayakawa, Chika Azuma, Kenichi Yamamoto, Kohei Tsuji, Hirokazu Tamamura (*Japan*)
- PL003 Optimization of IEDDA reaction parameters: application in imaging, biology, and therapeutics
Rasheda Samiha, Arundhati Nag, Samir Das (*USA*)
- PL004 Identification of reactivity hotspots at the interface of protein-protein interactions
Nathalie M. Grobl^{1,2}, Clint Remarcik², Simon Rössler², Jeffrey Wong², John Wang³, Jason Tao², Corey Smith², Andrei Loas², Stephen Buchwald², Dan Eaton², Magdalena Preciado López², Bradley Pentelute² (*¹Switzerland, ²USA*)
- PL005 Using N-acylation as a disulfide redox lock simplifies chemical protein synthesis
Vincent Diemer, Vangelis Agouridas^{1;2}, Benoît Snella, Rémi Desmet, Oleg Melnyk (*France*)
- PL006 Deciphering the role of the ser-phosphorylation pattern on the DNA-binding activity of max transcription factor using chemical protein synthesis
Nithun Raj V, Yumi Minyi Yao, Shaimaah Habiballah, Xiaoxi Lin, Ariel Afek, Muhammad Jbara (*Israel*)
- PL007 Synthesis of peptide hydrazides: hydrazone resin versus hydrazine 2-CT resin
Mariia Leko¹, Polina Filippova¹, Karin Rustler², Thomas Bruckdorfer², Sergei Burov¹ (*¹Russian Federation, ²Germany*)
- PL008 Thioether-mediated Trp sulfenylation based on npys-chemistry
Akihiro Taguchi, Hayate Shida, Yan Cui, Yuma Tokita, Reo Kishi, Shinpei Kasama, Sho Konno, Atsuhiko Taniguchi, Yoshio Hayashi (*Japan*)
- PL009 Facilitating the access to repeat proteins by a novel water-compatible oligomerization method
Elliott Roy, Oleg Melnyk, Vincent Diemer (*France*)
- PL010 Unusual amino acid synthesis and iminium chemistry to access novel constrained residues - (hybrid) opioid ligands as a case study
Jolien De Neve, Harry Lecomte, Bin Wang, Charlie Hollanders, Frank De Proft, Steven Ballet (*Belgium*)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- Pl.011** Assessment of the bioorthogonality of the nitrile imine 1,3-dipole
Mhairi Gibson, Keith Livingstone, Jonathan Pettinger, Craig Jamieson
(United Kingdom)
- Pl.012** Technetium-99m tricarbonyl complexes containing amino acid derivatives for cancer imaging
João D. G. Correia, Rúben D. M. Silva, Cristina P. Matos, Catarina G. Pinto, Joana F. Guerreiro, Lurdes Gano, Filipa Mendes (Portugal)
- Pl.013** Development of late-stage acylation methodology of threonine residue enabled by chemoselective acyl transfer followed by desulfurization
Daiki Sato, Chiho Shinozaki, Masaya Danda, Akira Otaka (Japan)
- Pl.014** Towards the total synthesis of nisin A
Ilia Perov, Bethan Donnelly, Tyler Mallett, John Vederas (Canada)
- Pl.015** Protein semi-synthetic approach to probe C-terminal hyperphosphorylation of the Alzheimer-relevant protein Tau
Bingjia Yan¹, Léa El Hajjar², Wenyi Li¹, Caroline Smet-Nocca², Christian P. R. Hackenberger¹ (¹Germany, ²France)
- Pl.016** Structural optimization study leading to orally bioavailable cyclic peptides inhibiting an intracellular tough target
Mikimasa Tanada, Ryuji Hayashi, Mirai Kage, Atsushi Ohta, Hitoshi Iikura, Takuya Shiraishi (Japan)
- Pl.017** Chemical engineering of artificial transcription factors
Omer Harel, Xiaoxi Lin, Shaimaah Habiballah, Muhammad Jbara (Israel)
- Pl.018** Peptides stabilise DNA four-way junctions
Eleanor Ivens, Andrew Beekman, Zoë Goddard, Marco Cominetti, Mark Searcey (United Kingdom)
- Pl.019** C-glycosylation of aromatic amino acids through Pd-catalyzed cross-coupling
Calvin Matula, Norbert Sewald (Germany)
- Pl.020** Efficient peptide thioester synthesis from hydrazides using near-stoichiometric thiol quantities
Julie Di Adamo, Vincent Diemer, Oleg Melnyk (France)
- Pl.021** Electrostatic assistance of NCL catalysis by 4-mercaptophenylacetic acid
Nathalie Ollivier, Elliott Roy, Rémi Desmet, Vangelis Agouridas, Vincent Diemer, Oleg Melnyk (France)
- Pl.022** An efficient strategy to bioconjugate disulfide-rich peptides via thiol-maleimide chemistry while preserving their bridging pattern
Lylia Azzoug, Hervé Meudal, Karine Loth, Séverine Morisset-Lopez, Carlo Pifferi, Vincent Aucagne (France)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PI023 Auxiliaries in native chemical ligation: exploring the reactivity landscape with new scaffolds
Sebastian Trunschke, Antonia Feida, Oliver Seitzl (Germany)
- PI024 How phosphorylation regulates liquid-liquid phase separation of intrinsically disordered proteins
Shachar Bressler¹, Dana Grunhaus¹, Amit Aviram¹, Mattan Hurevich¹, Inke N athke², Assaf Friedler¹ (¹Israel, ²United Kingdom)
- PI025 Superfast desulfurization for protein chemical synthesis and modification
Zhenquan Sun, Yihui Cao, Xuechen Li (China)
- PI026 An iron-catalyzed protein desulfurization method reminiscent of aquatic chemistry
R emi Desmet, C eline Wichlacz, Aur elie Tasiemski, Vangelis Agouridas, Oleg Melnyk (France)
- PI027 Chemoselective P-S coupling of aminophospholes to peptides under mild conditions
Emmanuelle Remond, Laure Lienart, Miyanou Rosales-Hurtado, Sebastien Clement, Jean-Alain Fehrentz, Jean-Louis Baneres, Florine Cavalier (France)
- PI028 Revealing the extracellular function of HMGB1 N-terminal region acetylation assisted by a protein semi-synthesis approach
Tongyao Wei, Jiamei Liu, Can Li (China)
- PI029 Flow SPPS - Towards greener and more efficient peptide manufacturing
Eike-Fabian Sachs, Oliver Kracker (Germany)
- PI030 Design of experiments applied in peptide resin cleavage toward efficient process development
Andreas Heindl, Fabian Hogenkamp (Germany)
- PI031 Synthetic combinatorial OPA-cyclic peptide library
Kin Nam Adrian Chu, Carina Hey Pui Cheung, Xuechen Li (Hong Kong)
- PI032 Direct synthesis of peptidomimetics containing non-coded amino acids via photocatalytic carbamoylation reaction
Tommaso Gandini, Maria Luisa Gelmi, Raffaella Bucci (Italy)
- PI033 Unraveling the functional implications of site-specific phosphorylations on heat shock protein 27: a semisynthetic approach
Sabrina Helena Schmied, Somnath Mukherjee, Christian Becker (Austria)
- PI034 Thiol-yne mediated macrocyclisation and derivatisation strategies
Conor Williams, Susannah Calvert, Dearbhla Tully, Joanna F. McGouran, Eoin Scanlan (Ireland)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- Pl035** Fmoc solid-phase synthesis of C-terminal diketopiperazine thioester peptides
Yuya Nakajima, Koki Nakatsu, Gosuke Hayashi, Hiroshi Murakami
(Japan)
- Pl036** Synthesis and biological activity of ultra-short antimicrobial peptides bearing a novel non-coded amino acid
Barbara Biondi¹, Fernando Formaggio¹, Cristina Peggion¹, Andrea Schivo¹, Teodora Calin², Simona Oancea², Liana Hayriyan³, Emma Khachatryan³, Ashot Saghyan³, Anna Mkrtchyan³ (¹Italy, ²Romania, ³Armenia)
- Pl037** Evaluation of the stability of oxytocin and vasopressin under oxidative stress conditions
Stefano Tartaggia, Claudia Honisch, Martina Rotondo, Paolo Ruzza (Italy)
- Pl038** Biocatalytic synthesis of dihalogenated tryptophan derivatives
Bjarne Scharkowski, Nicolai Montua, Simon Gäfe, Hartmut Niemann, Norbert Sewald (Germany)
- Pl039** Silicon-containing amino acids for 18F labeling of neurotensin analogues targeting NTS1 receptor
Miyanou Rosales-Hurtado, Emmanuelle Remond, Delphine Vimont, Alexis Reinbold, Elif Hindie, Clément Morgat, Florine Cavalier (France)
- Pl041** Searching for potential inhibitors of the TNF-TNFR2 interaction as a new approach in ovarian cancer therapy
Gabriela Całka-Kuc, Karolina Sławińska, Sylwia Rodziewicz-Motowidło, Adam Sieradzan, Josef Kučera, Lenka Hernychová, Paweł Niedziałkowski, Marta Spodzieja, Aneta Szymańska (Czech Republic)
- Pl042** Preclinical development of Myrcludex B derivatives: determination of physicochemical properties
Tyra Christian, Sabrina Wohlfart, Christian Kleist, Philipp Uhl, Walter Mier (Germany)
- Pl043** Modified proteins- keratin the next tool for enhanced adhesion
Flavia Laffleur (Austria)
- Pl044** Exploring the structure-function relationship of heme binding to blood coagulation factor VIII based on peptide models
Lorena Kröner, Diana Imhof, Marie-T. Hopp (Germany)
- Pl045** Peculiarities in peptidoglycan pentapeptide biosynthesis: the first pyridoxal 5'-phosphate independent epimerase enzyme that relies on active site serine residues
John Vederas, Tess Lamer, Marco van Belkum, Anjalee Wijewardanel (Canada)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PI046 Site-specific post-translational modifications of Tau4
Dominik Vogl, Christian Becker, Miriam Preissler (Austria)
- PI047 Synthesis of the natural peptide product fusahexin
Carmen Bäuerlein, Armin Geyer (Germany)
- PI048 Production of diverse sets of therapeutically relevant, novel amino acids via biocatalysis
Jimmy Mann, Tina Boville, David Romney (USA)
- PI049 Organocatalytic surfactants for direct asymmetric aldol reactions in aqueous media
Susanta Kumar Behera, Ramesh Ramapanicker (India)
- PI050 Exploration of a non-typical O-to-O acyl transfer in peptide chemistry: a new epimerization-free approach to peptide C-terminal salicylaldehyde esters
Zhixiang Zhong, Wang Xia, Han Liu, Xuechen Li (Hong Kong)
- PI051 New electrochemical method for arylation of cysteine containing peptides
Shen Linhua, Olivier Monasson, Elisa Peroni, Franck Le Bideau, Samir Messaoudi (France)
- PI052 N-aminoimidazol-2-one peptide mimic tools for deciphering active conformations
Yousra Hamdane, Pradeep Chauhan, Suresh Vutla, Darince Truong, Mukandila Mulumba, Huy Ong, William Lubell (Canada)
- PI053 Photocatalyzed activation of oxalyl thioester precursors
Grain Benjamin, Chen Wang, Vangelis Agouridas, Oleg Melnyk (France)
- PI053 A novel approach towards the synthesis of long peptide sequence bis
Hossain Saneii¹, Fernando Albericio², Beatriz G. de la Torre², Rajan Sharma¹, Mostafa Hatam¹, Farshad Karimi¹, Sikabwe Noki²
(¹USA, ²South Africa)
- PI053 Chemical stability of new adamantane analogues
ter Antoniya Stoymirska, Kiril Chuchkov, Petranka Petrova, Radoslav Chayrov, Maya Chochkova, Ivanka Stankova (Bulgaria)
- PI054 Ring pucker conformational control
Nassim Maarouf, William D. Lubell (Canada)



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

BIOACTIVE PEPTIDES

- Pl055** Nature-inspired gallinamides are potent antischistosomal agents: inhibition of the cathepsin B1 protease target and binding mode analysis
Petra Spiwokova¹, Lucie Maresova¹, Martin Horn¹, Jindrich Fanfrlik¹, Adela Jilkova¹, Pavla Fajtova¹, Adrian Leontovyc¹, Radka Houstecka¹, Lucia Bielikova¹, Jiri Brynda¹, Marta Chanova¹, Helena Mertlikova-Kaiserova¹, Eduardo Caro-Diaz², Jehad Almaliti², Nelly El-Sakkary², Conor Caffrey², William Gerwick², Michael Mares¹ (¹Czech Republic ²USA)
- Pl056** Study on interactions of LL-37 human cathelicidin peptide fragment with Cu(II) ion
Joanna Makowska, Dariusz Wyrzykowski, Jakub Brzeski, Bogusław Pilarski (Poland)
- Pl057** From agrifood waste to functional foods: the role of food by-products-derived bioactive peptides in antioxidant and anti-inflammatory signalling pathway activation
Federica Tonolo, Maria Pia Rigobello, Fabio Vianello (Italy)
- Pl058** Peptide stapling - Application in antibacterial therapies
Monika Wojciechowska, Julia Macyszyn, Michał Burmistrz, Joanna Miskiewicz, Joanna Trylska (Poland)
- Pl059** Translocation-enhancing peptides: facilitating transport of molecules and lipid scrambling across cell membranes
Ladislav Bartoš, Robert Vacha (Czech Republic)
- Pl060** Parathyroid hormone (PTH) and PTH receptor interaction studies for rational development of novel peptide therapeutics
Ashok Khatri (USA)
- Pl061** Structure activity relationship study of inhibitory D-peptides against myostatin and activin A
Kentaro Takayama, Hideyuki Okamoto, Mariko Saitoh, Kaoru Ikekawa, Sho Konno, Akihiro Taguchi, Atsuhiko Taniguchi, Yoshio Hayashi (Japan)
- Pl062** Antimicrobial activity of Histatin 5 based metallopeptides
Gabriela Vieira Silva Zolin, Renan Lira de Farias, Saulo Santesso Garrido (Brazil)
- Pl063** De novo design of miniproteins binding to PD-L1
Juan Lizandra Perez, Natalia Miodowska, Łukasz Berlicki (Poland)
- Pl064** Metal complexes of ATCUN-like peptides for sequence-specific DNA cleavage
Ivan Unksov, Lena K. Müller, Hanna Zdhannova, Alexander Gräwe, Joshua Stahl, Viktor Stein, Daniel Tietze, Alesia Tietze (Germany)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PI065** RaPID discovery of α,α -disubstituted α -amino acid-containing α -helical peptides targeting the α -helical interface of peroxisome proliferator-activated receptor gamma
Maxwell Sigal¹, Markus Egner², Chikako Okada¹, Daniel Merk², Toru Sengoku¹, Takayuki Katoh¹, Hiroaki Suga¹ (¹Japan, ²Germany)
- PI066** A novel antimicrobial peptide, dermaseptin-SS, with anti-proliferative activity, isolated from the skin secretion of phyllomedusa tarsius
Xiaonan Ma, Chenbang MA, Tao Wang, Yangyang Jiang, Xiaoling Chen, Lei Wang, Mei Zhou, Tianbao Chen (United Kingdom)
- PI067** Development of peptide-based inhibitors against β -catenin using in silico approach
Minami Fujita, Amika Kikuchi, Kyohei Arita, Takashi Misawa, Yosuke Demizu (Japan)
- PI068** Short N-terminal library-derived helical peptides inhibit alpha-synuclein aggregation
Scott Allen, Jody Mason (United Kingdom)
- PI069** Targeting protein S-palmitoylation dynamic using cell-permeable peptides
Katharina Stillger, Ines Neundorf (Germany)
- PI070** Synthesis and study of modified temporin analogs with unnatural amino acids citrulline and ornithine as potential antibacterial agents
Nelly Georgieva, Dilyana Dimitrova, Tsvetelina Foteva, Veronica Nemska, Dancho Danalev (Bulgaria)
- PI071** New unique analogs of anorexigenic cocaine- and amphetamine-regulated transcript peptide (CARTp)
Andrea Pačesová, Vilém Charvát, Miroslava Blechová, Blanka Železná, Jaroslav Kuneš, Lenka Maletinska (Czech Republic)
- PI072** Antibacterial and anti-biofilm activity of branched peptides derived from antimicrobial peptides
Eva Tollapi, Alessandro Rencinai, Giada Meogrossi, Jlenia Brunetti, Silvia Scali, Luisa Bracci, Alessandro Pini, Chiara Falciani (Italy)
- PI073** AMP32: a short cyclic peptide as an environmentally friendly alternative to counteract late blight symptoms in crops
Elena Marone Fassolo¹, Stefano Rosa¹, Demetrio Marcianò¹, Andrea Tagliani¹, Lucia Feni¹, Vaibhav Srivastava², Silvia Laura Toffolatti¹, Sara Pellegrino¹, Vincent Bulone³, Simona Masiero¹, Paolo Pesaresi¹ (¹Italy, ²Sweden, ³Australia)
- PI074** Novel OP-145 derived antimicrobial peptides with improved blood compatibility
Altea Topciu, Nermina Malanovic (Austria)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL075** Water-soluble longibramide E analogs: synthesis and antibacterial activity
Renato B. Pereira, Ana Gomes, Mariana Ferreira, Paula Gameiro, Paula Gomes (Portugal)
- PL076** Generation of a peptide library from human bone marrow for the discovery and identification of novel bio active bone-marrow derived peptides
Nico Preising¹, Armando Rodriguez-Alfonso¹, Merve Karacan¹, Sebastian Wiese¹, Dennis Freisem¹, Fabian Zech¹, Dietmar Thal², Konstantin Sparrer¹, Jan Münch¹, Frank Kirchhoff¹, Ludger Ständker¹ (¹Germany, ²Belgium)
- PL077** Targeting the bacterial DNA replication machinery: from linear peptide ligands to constrained macrocyclic inhibitors of the bacterial sliding clamp
Anais Luton, Christophe André, Jérôme Wagner, Dominique Burnouf, Sébastien Goudreau, Laura Mauran-Ambrosino, Guillaume Compain, Gilles Guichard (France)
- PL078** Early diagnosis and treatment of Alzheimer's disease by targeting toxic soluble A β oligomers
Shai Rahimipour¹, Maram Habashi¹, Sudipta Senapati¹, Kuldeep Tripathi¹, Michal Richman¹, William Lubell², Brigitte Guérin² (¹Israel, ²Canada)
- PL079** Synthesis and antibacterial activity of new analogues of Aurein 1.2
Nora Angelova, Tsvetelina Foteva, Veronica Nemska, Nelly Georgieva, Dancho Danalev, Emilia Naydenova (Bulgaria)
- PL080** Tackling antibiotic resistance by blocking signalling pathways
Rachel Johnson¹, Susanne Gebhard², Jody Mason¹ (¹United Kingdom, ²Germany)
- PL081** Synthesis and evaluation of β -secretase inhibitory activity of new galantamine derivatives comprising peptide moiety
Emilia Naydenova, Lyubomir T. Vezekov, Valentin Lozanov, Daniela S. Tsekova (Bulgaria)
- PL082** Searching for biologically active peptide fragments of hACE2 interacting with the S1 protein of the SARS-CoV-2 virus
Aleksandra Czerchawy¹, Manoj Kumar Muthyala², Beata Kolesińska¹ (¹Poland, ²Germany)
- PL083** Engineering MHC recognition and biological kinetics of peptides by novel chemistry
Marius Werner, Christian Klein, Franziska Thomas (Germany)
- PL084** Synthesis of Aza-amanitins leading to enhanced cytotoxicity for targeted cancer therapeutics
Kayla Newell, Katherine Bessai, Juliette Froelich, Mihajlo Todorovic, David Perrin (Canada)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- Pl085** In situ mechanistic insight to antibacterial action of membrane-incising β -peptide lamellae
Kamal El Battioui, Imola Szigyártó, Sohini Chakraborty, Judit Tóth, Dániel Molnár, Tünde Juhász, Loránd Románszki, Andrea Bodor, Kata Horváti, István Mándity, Zoltán Varga, Judith Mihály, Csenge Lilla Szabó, Szilvia Bősze, Gergő Gyulai, Mayra Quemé, András Wacha, Bálint Jezsó, Tamas Beke-Somfai (Hungary)
- Pl086** Lactomodulin-derived peptides: design and bioactivity
Ashif Shaikh, Mohammed Aldulaimi, Walaa Mousa, Emilia Oueis (Arab Emirates)
- Pl087** Novel peptide inhibitors of SARS-CoV-2 infection
Nina Raasch, Lucas Weißenborn, Elie Richel, Simon Schäfer, Heinrich Sticht, Klaus Überla, Jutta Eichler (Germany)
- Pl088** Investigation of protein prenylation in cancer cells using cell-permeable peptides
Martin Matijass, Merlin Klußmann, Annika Klimpel, Ines Neundorf (Germany)
- Pl089** Cyclic peptide modulators of lymphocyte migration for the treatment of autoimmune disorders
Jasmin Gattringer, Agnes Weidmann, Kiritkumar B. Jadhav, Christian W. Gruber, Roland Hellinger (Austria)
- Pl090** Cytotoxicity and phototoxicity effects of modified temporin analogs with unnatural aminoacids
Tsvetelina Foteva, Ivan Iliev, Rositsa Hristova, Dilyana Dimitrova, Veronica Nemska, Nelly Georgieva, Dancho Danalev (Bulgaria)
- Pl091** Discovery and characterisation of potent cyclic PCSK9 binding peptides
Cecilie Mia Joergensen¹, Camille Villequey³, Louise Walport¹ (¹United Kingdom, ²Denmark)
- Pl092** Triazole-bridged peptides with enhanced antimicrobial activity and potency against pathogenic bacteria
Joshua Grabeck¹, Jacob Mayer¹, Axel Miltz¹, Isabelle Wielert¹, Denise Meinberger¹, Michael Quagliata², Michele Casoria², Ines Neundorf¹, Anna Maria Papini², Andreas Klatt¹, Berenike Maier¹ (¹Germany, ²Italy)
- Pl093** Temporin A analogs modified with unnatural amino acids
Dilyana Dimitrova, Tsvetelina Foteva, Veronica Nemska, Nelly Georgieva, Dancho Danalev (Bulgaria)



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL094** Rational design of a miniprotein to inhibit the oncogenic transcription factor MYC
Brecht Ellenbroek, Jan Pascal Kahler, Damiano Arella, Cherina Lin, Willem Jespers, Sebastian Pomplun (Netherlands)
- PL095** Novel, non-covalent peptide furin inhibitors suppressing Zika virus replication
Aleksandra Helbik-Maciejewska, Gabriela Brzuska, Dawid Dębowski, Agata Gitlin-Domagalska, Andrea Lipińska, Ewelina Król, Krzysztof Rolka (Poland)
- PL096** Molecular investigation on peptide regulated Mfn1 and Sirt1 protein interactions in mitochondrial dynamics
Mahesh Kumar Cinthakunta Sridhar, Nir Qvit (Israel)
- PL097** Preliminary medicinal chemistry program on a new cardiovascular peptide
Carlos Cuadrod-Higueras, Pablo Esteban-Arderius, Sara Pérez-Martín, María Jesús Pérez de Vega, Ricardo Caballero, Eva Delpon, Diego Núñez-Villanueva, Rosario González-Muñiz (Spain)
- PL098** The role of β -hairpins in aggregation of β -amyloid derived peptides
Elisabetta Galluppo, Claudia Honisch, Stefano Tartaglia, Mauro Carraro, Paolo Ruzza (Italy)
- PL099** Biological evaluation of new fell analogues as potential PDE4 inhibitors
Veronica Nemska¹, Boryana Borisova¹, Marie Cochard², Stephane Gerard², Dancho Danalev¹ (¹Bulgaria, ²France)
- PL100** Investigation of the role of Mfn2 and Drp1 protein-protein interactions in mitochondrial dynamics and its biological implications in cardiovascular diseases
Hayelom Berhe Dagnaw, Nir Qvit (Israel)
- PL101** Peptide and probe: a multifaceted approach to investigate menaquinone-binding peptides
Eilidh Matheson¹, Roy Van Beekveld², Sarah Gothard¹, Paolo Innocenti², Nathaniel Martin², Markus Weingarh², Stephen Cochrane¹ (¹United Kingdom, ²Netherlands)
- PL102** Exploring the physico-chemical properties and immunomodulations of designed antimicrobial peptides in macrophages
Ilayda Akbulut, Tracy Hussell, Jeremy Derrick, Jian Ren Lu (United Kingdom)
- PL103** A bio-inspired biomaterial coating for combating infectious bacteria
Dennis Böhner, Annette G. Beck-Sickinger (Germany)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL104 A series of novel, selective matriptase inhibitors
Dawid Dębowski¹, Aleksandra Helbik-Maciejewska¹, Agata Gitlin-Domagalska¹, Malihe Hassanzadeh², Antoine Désilets², Pierre-Luc Boudreault², Richard Leduc², Anna Łęgowska¹, Krzysztof Rolka¹ (¹Poland, ²Canada)
- PL105 Total synthesis and semi-synthesis of fluorinated analogues of the antifungal cyclic lipopeptide iturin A
Periklis Karamanis, Matthew Kiernan, Jimmy Muldoon, Paul Evans, Cormac D. Murphy, Marina Rubini (Ireland)
- PL106 Design and antimicrobial activity of short and novel tripeptides
Ilaria Di Stefano, Silvia Rizzo, Dario Corbisiero, Francesca Bonvicini, Giovanna Angela Gentilomi, Walter Cabri, Tainah Dorina Marforio, Lucia Ferrazzano, Alessandra Tolomelli (Italy)
- PL107 In vivo approach to study protein synthesis inhibition of proline-rich antimicrobial peptides by bioorthogonal non-canonical amino acid tagging (BONCAT) method
Luigi de Pascale, Sabrina Pacor, Mario Mardirossian, Adriana DI Stasi, Alessandro Tossi, Marco Scocchi (Italy)
- PL108 Inhibition of *A. Baumannii* ATP phosphoribosyltransferase for the treatment of pneumonia infections
Emilia Oueis¹, Ashif Shaikh¹, Rafael Guimaraes da Silva² (¹United Arab Emirates, ²United Kingdom)
- PL109 Short analogues of cathelicidins PMAP-36 and BMAP-27: structure-activity relationship and stability to proteolysis
Cristina Peggion, Andrea Schivo, Francesca Albini, Adriana DI Stasi, Barbara Biondi, Mario Mardirossian (Italy)
- PL110 HBP-5: a leading heparin-binding peptide with remarkable activity against Gram-negative bacteria
Roberto Bello Madruga, Daniel Sandín García, Javier Valle, David Andreu, Marc Torrent Burgas (Spain)
- PL111 Discovery and development of macrocyclic peptide modulators of the cannabinoid 2 receptor
Natasa Tomasevic¹, Fabiola Susanna Emser¹, Jasmin Gattringer¹, Simon Hasinger¹, Roland Hellinger¹, Peter Keov¹, Manuel Felkl¹, Christian Becker¹, Jürg Gertsch², Christian W. Gruber¹ (¹Austria, ²Switzerland)
- PL112 Inhibitory activity and proteolytic stability in human serum of peptide inhibitors of the vascular endothelial growth factor A165/neuropilin-1 complex
Dagmara Tymecka, Patrycja Redkiewicz, Piotr F.J. Lipiński, Aleksandra Misicka (Poland)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL113** Unlocking the potential of conotoxins: chemical synthesis strategies and biological activity
Yazid Souf, Nicolas Inguibert, Sebastien Dutertre (France)
- PL114** Mucroporin-M1 analogues: synthesis, conformation and structure-activity correlation
Claudia Storti, Cristina Peggion (Italy)
- PL115** Ferrocene-peptide conjugates with potential antitumor activity
Barbara Biondi, Beatrice Calderaro, Annalisa Bisello, Roberta Cardena, Renato Schiesari, Fernando Formaggio, Saverio Santi (Italy)
- PL116** Fragments of fibroblast growth factors useful in regenerative medicine components
Katarzyna Czerczak-Kwiatkowska, Adrianna Wierzbicka, Dorota Bociaga, Justyna Fraczyk, Beata Kolesińska (Poland)
- PL116** Novel pyrrolidine derivatives: synthesis of and antiviral activity
bis Maya Chochkova¹, Boyka Stoykova¹, Yuhuan Li², Antoniya Stoymirska¹, Petranka Petrova¹, Galya Ivanova³, Ivanka Stankova¹ (¹Bulgaria, ²China, ³Portugal)
- PL117** CR22DK-S18G breakthrough: revealing a novel antimicrobial peptide with rifampicin and isoniazid-like potency against mycobacterium tuberculosis – a comprehensive exploration from synthesis to immune modulation and selective action
Cesar Augusto Roque-Borda^{1,2}, Laura Maria Duran Gleriani Primo¹, Rafaela Melo Pogianeli¹, Lucas Henrique Domingos da Silva¹, Isabela Caroline dos Santos¹, Flávia Aparecida Resende¹, Henrik Franzyk², Paul Robert Hansen², Fernando Rogério Pavan¹ (¹Brazil, ²Denmark)

PEPTIDE THERAPEUTICS AND CLINICAL APPLICATION

- PL118** Lipidized prolactin-releasing peptide analogs: a new tool for potential treatment of obesity, type 2 diabetes and neurodegeneration
Veronika Strnadova, Martina Petelakova, Andrea Pačesová, Barbora Neprašová, Miroslava Blechová, Blanka Železná, Jaroslav Kuneš, Lenka Maletinska (Czech Republic)
- PL119** In silico identification and chemical remodelling of tick protein epitopes for vaccine antigen development
Stepan Denisov^{1,2}, M. Amine Jmel³, Wouter Peeters², Michalis Kotsyfakis³, Johannes Ippel², Tilman Hackeng², Dijkgraaf Ingrid² (¹United Kingdom, ²Netherlands, ³Czech Republic)
- PL120** Development of antibody drug conjugates as HIV entry inhibitors
Yutaro Miura, Kohei Tsuji, Takuya Kobayakawa, Kaho Matsumoto, Takeo Kuwata, Shuzo Matsushita, Hirokazu Tamamura (Japan)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL121 Harnessing GPCRs biased signaling: novel macrocyclic analogs for enhanced cardiovascular treatment with reduced side effects
Kien Tran, Alexandre Murza, Jean-Michel Longpré, Mannix Auger-Messier, Michel Bouvier, Pierre-Luc Boudreault (Canada)
- PL122 A novel regulation method of mRNA by recruiting regnase-1 using binding motif-antisense oligonucleotide conjugates
Masayuki Fujii (Japan)
- PL123 Antibacterial, anti-biofilm and anti-inflammatory activities of a novel thrombin-derived antimicrobial peptide and its d-enantiomer
Dinesh Kumar, Naveen Kumar Radhakrishnan, Yangmee Kim, Song Yub Shin (South Korea)
- PL124 Deoxythymidine-based antimicrobial peptidomimetics to combat Odrug-resistance
Eun Young Kim, Dinesh Kumar, Sung Tae Yang, Song Yub Shin (South Korea)
- PL125 Fine-tuning the immune-stimulatory and cancer cell binding properties of immune system engagers (ISERs)
Hannah Back, Manuel Felk, Christian Becker (Austria)
- PL126 Targeted acidosis mediated delivery of antigenic MHC-binding peptides
Joseph Kelly, Marcos Pires (USA)
- PL127 A genetically encoded phage display technique targeting bromodomain protein 9 (BRD9) for discovery of peptide inhibitors
Gopal Dubey (USA)
- PL128 Hybrid synthetic approach and biological characterization of a branched heterodimer for overcoming prostate cancer heterogeneity
Santo Previti¹, Sacha Bodin², Emmanuelle Remond², Clément Morgat², Florine Cavelier² (¹Italy, ²France)
- PL129 Epitope-directed peptide screening and machine learning for HER2-targeted antibody-mimetic peptides
Tetsuya Kadonosono, Yutaka Saito (Japan)
- PL130 Enhancing the gastrointestinal stability of salmon calcitonin through peptide stapling
Hiba Ghareeb, Norman Metanis (Israel)
- PL131 Development and antifungal efficacy of hydrocarbon-stapled peptide analogs based on human antimicrobial peptides for candidiasis therapy
Hyosuk Yun, Byambasuren Ganbaatar, Chul Won Lee (South Korea)
- PL132 Prevention of the spread of virus infection in global societies: anti-SARS-CoV-2 agents learned from HIV researches
Hirokazu Tamamura, Nobuyo Higashi-Kuwata, Hiroaki Mitsuya, Kohei Tsuji, Takahiro Ishii, Takuya Kobayakawa (Japan)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL133** Bicycle radionuclide conjugates for radioisotope delivery to solid tumors
Anusha Regupathy¹, Johanna Lahdenranta², Ben Blakeman¹, Francesca Wood¹, Gemma Mudd¹, Philip Huxley¹ (¹United Kingdom, ²USA)
- PL134** Development of gut-restricted antibiofilm peptides to target gastrointestinal biofilms
Bernhard Jandl, Michaela Lang, Athanasios Makrithathis, Christoph Gasche^{4,6}, Markus Muttenthaler (Austria)
- PL135** Identifying epitopes in the sodium leak channel complex that enable inhibition by peptides
Emma Beyer, Stephan Pless (Denmark)
- PL136** Application of membrane-active peptides in management of stromal melts associated with microbial keratitis
Jyoti Sood¹, Sujithra Shankar^{1,2}, Sushmita G. Shah¹, Shikha Yadav¹, Archana Chugh¹ (¹India, ²Singapore)
- PL137** One-bead-one-compound (OBOC) combinatorial libraries for the discovery of ligands towards SIRP α and checkpoint CD47 proteins
Paula Quesada Martínez, Macarena Sánchez Navarro (Spain)
- PL138** Impaired metabolic phenotyping in mice with deletions of GPR10 and NPFFR2 receptors: implications for lipidized PrRP analog therapy in obesity
Veronika Strnadova, Magdalena Škrlová, Jaroslav Kuneš, Lenka Maletínská (Czech Republic)
- PL139** Latarcins as membrane active peptides for therapeutic applications
Sivalingam Ayyanar¹, Archana Chugh¹, Prasanjeet Kaur¹, Nisha Ponnappan^{1,2}, Deepthi Poornima Budagavi^{1,3} (¹India, ²United Kingdom, ³USA)
- PL140** Intranasal effects of an analogue of the gliopeptide ODN on energy homeostasis
Omayma Dlimi¹, Karthi Duraisamy¹, Arnaud Arabo¹, Léa Killman¹, Benjamin Lefranc¹, Amine Bourzam², Nicolas Chartrel¹, Jérôme Leprince¹ (¹France, ²Tunisia)
- PL141** Synthetic anti-cocaine nano-vaccine successfully prevents cocaine-induced hyperlocomotion
Harrison Madge, Suzy Alexander, Armira Azuar, Jiahui Zhang, Prashamsa Koirala, Thomas Burne, Istvan Toth, Rachel Stephenson (Australia)
- PL142** Enhancing biomedical metal implants with peptides: improved bioactivity and in vitro safety
Adrien Mourgot, Farzin Arjmand, Olivier Monasson, Michel Boissiere, Madjid Djemai, Souad Ammar-Merah, Guy Dirras, Elisa Peroni (France)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL143** Machine learning guided peptide drug discovery speeds up lead identification as demonstrated with novel GLP-1R agonists
Claudia Hjerringgaard, Anita Wester, Jens Christian Nielsen, Mads M. Nygaard, Lisbeth Elster, Silas Rasmussen, Kristoffer Rigbolt, Niels Vrang, Louise S. Dalbøge (Denmark)
- PL144** Development of a HPMC-patch containing RGD and KTTKS peptide sequences for application in tissue healing
Naiara Maia Pereira, Reinaldo Marchetto (Brazil)
- PL145** Transcriptomic analysis of CETP-derived Seq-1 peptide contained in HB-ATV-8 vaccine in the modulation of steatosis-related liver fibrosis in hepatocytes
Sandra Calixto-Tlacomulco, Ismael Luna-Reyes, Jessica Ledesma-Aparicio, Blanca Delgado-Coello, Armando Cruz-Rangel, Jaime Mas-Oliva, Juan Pablo Reyes-Grajeda (Mexico)
- PL146** Optimisation of a TREM2 receptor inhibitor peptide
Claudia Honisch, Martina Rotondo, Elisabetta Galluppo, Stefano Tartaggia, Carmela Gallo, Mario dell'Isola, Dalila Carbone, Emiliano Manzo, Angelo Fontana, Paolo Ruzza (Italy)
- PL147** Developing radiolabeled nanoconjugated DOTA-bombesin derivatives as cancer therapeutics
Irfan Ullah Khan, Arzoo Fatima Saleem, Muhammad Sohaib, Amira Shami (Pakistan)
- PL148** Combating heart disease: investigating biased signaling pathways of metabolically stable apelin analogues and small molecule agonist in the apelin-APJ system
Anjalee Wijewardane, Kleinberg Fernandez, John Vederas (Canada)
- PL149** Synthesis and characterization of tumor targeted peptide (TTP) conjugated with magnetic nanoparticles for thermo-ablation
Sima Alvani Alamdari, Justyna Fraczyk, Joanna Wasko, Anita Plazinska, Beata Kolesińska (Poland)
- PL150** Synthesis and characterisation of phenethyl isothiocyanate conjugated with magnetic nanoparticles modified by tumor targeting peptide (TTP) using in cancer treatment
Sima Alvani Alamdari, Lukasz Janczewski, Justyna Fraczyk (Poland)
- PL151** Analysis of mannan (polymannose) conjugated with 35-55 immunodominant epitope of myelin oligodendrocyte glycoprotein for the treatment of multiple sclerosis
Carmen Simal, Areti Gkika, Maria-Eleni Androutsou, Georgia Biniari, Alexios Aletras, Theodore Tselios (Greece)



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL152** A nanomolar potency macrocyclic peptide inhibitor of SARS-CoV-2 spike through deep mutational scanning
Antonius (Twan) Hopstaken, Oliver Debski-Antoniak, Preeti Hooda, Daniel Hurdiss, Seino Jongkees (Netherlands)
- PL153** Intelligent wound dressing with antimicrobial properties
Sebastian Kersting, Ohnesorg Sophia, von Nickisch-Rosenegk Markus (Germany)
- PL154** High throughput phage display screening identified peptide inhibitors targeting the α -synuclein for Parkinson's disease treatment
Haiyan Zhou, Zhaohui Liang, Chenyin Wang, Wai Lok Ngai, Chaogu Zheng, Michael K. Chan, Xuechen Li (China)
- PL155** Linear peptides as IgG-epitope mimetic for allergic immunotherapy against birch pollen
Alessandro Streuli¹, Lara Šošić¹, Marta Paolucci¹, Agathe Duda¹, Klaus Eyer², Pål Johansen¹, Christian Steuer¹ (¹Switzerland, ²Denmark)
- PL156** Development of a SRF inhibitor peptide for the treatment of cardiac fibrosis
Melissa Meschkewitz, Erika Lisbeth, Richard Neubig (USA)
- PL157** Exploring molecular details of GPCRs signaling using an ancient oxytocin-like neuropeptide system
Simon Hasinger, Christian W. Gruber (Austria)
- PL158** Recent advances in protective vaccines against foot-and-mouth disease virus
Sira Defaus, Patricia de León, Mar Forner, Rodrigo Cañas-Arranz, Esther Blanco, Francisco Sobrino, David Andreu (Spain)
- PL159** Targeted tumor therapy with selective short peptide drug ligands by Y1 receptor-mediated shuttling mechanism
Lea Nußbaum, Anna Kohler, Annette G. Beck-Sickinger (Germany)
- PL160** Discovery of a novel α -helical peptide inhibitor of GTP-bound K-Ras(G12D)
Hannah Comfort, Sarah Ross, Jefferson Revell, Thomas Murray, Carole Urbach, Bethan Archer, Darerca Owen, Helen Mott (United Kingdom)
- PL161** Peptide inhibitors of protein-protein interactions targeted to SRC homology 2 domains: a combined computational and spectroscopic design approach
Paolo Calligari, Claudia Storti, Chiara Innamorati, Chiara Fulci, Alessia Damiani, Cristiano Di Stefano, Chiara Cocca, Cristina Peggion, Barbara Biondi, Gianfranco Bocchinfuso, Lorenzo Stella (Italy)
- PL162** Peptide-based vesicle isolation method for *P. aeruginosa*
Tania Henriquez, Ismael Castañón, Silvia Scali, Chiara Falciani (Italy)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL163 Lipidated SNAPP-stars target and kill multi-drug resistant bacteria within minutes
Sara Hadjigol, Sadegh Shabani, Neil O'Brien-Simpson, Greg Qiao
(Australia)
- PL164 Antibacterial, anti-inflammatory and anti-biofilm activities of novel short antimicrobial peptides designed from the cecropin A-melittin hybrid antimicrobial peptide, BP100
Eun Young Kim, Dinesh Kumar, Sang Hyun Park, Song Yub Shin (South Korea)
- PL165 Study on the stability of new promising antimicrobial peptides against protease activity present in infection sites
Clelia Cortese, Giovanni Cappello, Laura Cresti, Virginia Niccolini, Marco Scocchi, Marialuisa Mangoni, Alessandro Pini (Italy)
- PL166 Spotting critical positions in setmelanotide to increase MC4R selectivity by structural activity relationship studies
Manuel Christian Troll, Sabine Jyrch, Patrick Scheerer, Peter Kühnen, Heike Biebermann, Annette G. Beck-Sickinger (Germany)
- PL167 Application of magnesium complexes of pegylated lipopeptide intermediates in the manufacturing of semaglutide and tirzepatide APIs
Andrea Orlandin, Ivan Guryanov, Chiara Giraldo, Barbara Biondi, Angelo Santoro, Anna Maria D'Ursi, Marco Macis, Antonella Glisenti, Fernando Formaggio, Antonio Ricci, Walter Cabri (Italy)

EMERGING PEPTIDE-BASED TECHNOLOGIES

- PL169 Metal-peptidic cages – helical oligoprolines generate highly anisotropic nanospaces with emergent isomer control
Ben E. Barber, Ellen M.G. Jamieson, Leah E.M. White, Charlie T. McTernana
(United Kingdom)
- PL170 Revolutionizing peptide production: introducing an engineered TEV pProtease
Roxann Guerrette, Christian Schwarz, Bach-Ngan Wetzel (Germany)
- PL171 Peptide information compression technology (PICT) for GPCR drug discovery using cell-based functional high-throughput screening assays
Rumit Maini (USA)
- PL172 Spatio-temporal control of cellular differentiation for cartilage tissue engineering
Jules Simonin Garcia, Cécile Echalié, Emmanuel Belamie, Marie Morille, Gilles Subra (France)
- PL173 Development of a novel alternative method for liraglutide production
Gabriela R. Barredo-Vacchelli, Jésica A. Rodríguez, Joaquín A. Eloy, Silvia A. Camperi (Argentina)



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL174** Comparison of in vitro immunogenicity between δ -ctenitoxin-Pn2a and epitope-based immunogens
Jésica A. Rodríguez¹, Gabriela R. Barredo-Vacchelli^{1,2}, Ariadna M. Birocco¹, Agustín Blachman¹, Gerardo Acosta², Fernando Albericio^{2,3}, Graciela C. Calabrese¹, Silvia A. Camperi¹ (¹Argentina, ²Spain, ³South Africa)
- PL175** An mRNA-display-based approach for the identification of peptides with exposed C-termini
Huawu Yin, Louise Walport (United Kingdom)
- PL176** Extracellular-vesicle catch-and-release isolation system using a net-charge invertible curvature-sensing peptide
Kenichi Kawano, Yuki Kuzuma, Koichi Yoshio, Kenta Hosokawa, Yuuto Oosugi, Takahiro Fujiwara, Fumiaki Yokoyama, Katsumi Matsuzaki (Japan)
- PL178** Peptide-stabilized gold nanoparticles
Alzbeta Runova, Helma Wennemers (Switzerland)
- PL179** Intracellular peptide library screening for covalent transcription factor inhibitors
Andrew Brennan, Jody Mason (United Kingdom)
- PL180** A snake toxin-derived positron emission tomography agents for diagnosing renal cell carcinoma
Goran Stanajic Petrovic, Khawla Chmeis, Benoit Jego, Dimitri Kereselidze, Pascal Kessler, Denis Servent, Charles Charles Truillet, Nicolas Gilles (France)
- PL182** Innovative microfluidic preparation of monodisperse peptidic nanoparticle for ultrasound-guided gene delivery
Guy Gouarin, Vicentiu Moraru, Samir Cherkaoui (Switzerland)
- PL183** Screening for antimicrobial peptides effect against citrus canker and huanglongbing diseases
Beatriz Cristina Pecoraro Sanches, Josiane Cecilia Darolt, Talita Alves dos Santos, Elaine Cristina Martins, Michele Fernanda Souza Dutra, Edson Crusca Junior, Franklin Behlau, Reinaldo Marchetto, Nelson Arno Wulff (Brazil)
- PL184** Chemical protein synthesis via PNA scaffold-assisted peptide ligation
Sae Suzuki, Shingo Mizushima, Yukino Takeuchi, Gosuke Hayashi, Hiroshi Murakami (Japan)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL186 Environment-responsive peptide dimers bind and stabilize double-stranded RNA
Marvin Albers, Niall M. McLoughlin, Estel Collado Camps, Jannik Paulus, Yuri A. Ran, Saskia Neubacher, Sven Hennig, Roland Brock, Tom N. Grossmann (Netherlands)
- PL187 Engineered oxalyl thioester-containing proteins empower fast and chemoselective conjugation
Francesco Terzani¹, Grain Benjamin¹, Benoît Snella¹, Rémi Desmet¹, Wiltschi Birgit², Oleg Melnyk¹, Vangelis Agouridas¹ (¹France, ²Austria)
- PL188 Electrostatically-assisted sortase A-mediated ligation
Chen Wang, Benoît Snella, Oleg Melnyk, Vangelis Agouridas (France)
- PL189 Photocontrollable probes for the investigation of neuropeptide signalling
Konstantin Raabe¹, Predrag Kalaba¹, Xuan Ling Hilary Yong², Erik Keimpema¹, Victor Anggono², Markus Muttenthaler^{1,2} (¹Austria, ²Australia)
- PL190 Covalent peptide inhibitors targeting his residue as new modalities to block protein-protein interactions
Guillaume Compain, Clément Monsarrat, Dominique Burnouf, Jérôme Wagner, Gilles Guichard (France)
- PL191 Bind&Bite: covalently stabilized heterodimeric coiled-coil peptides for the site-selective chemical modification of proteins
Jannis Beutel, Riccardo Di Vincenzo, Klaus Überla, Jutta Eichler (Germany)
- PL192 Development of a trillion-member discovery platform to identify de novo light-responsive cyclic peptides
Thomas Jackson, Louise Walport, Matthew Fuchter, Edward Tate (United Kingdom)
- PL193 Reshaping of genetically-encoded molecular landscapes in discovery of advanced bioactive macrocycles
Ratmir Derda (Canada)
- PL194 Protein interface catalysed capture (PICC) to resolve the structure of the tau-PSD95 protein complex
Reuben Blades, Gene Hart-Smith, Kanishka Pushpitha, Daryl Ariawan, Muhammad Zenaidee, Lars Ittner, Ole Tietz (Australia)
- PL195 In vitro selection of highly N-alkylated cyclic peptides for targeting intracellular protein-protein interactions
Takeo Iida, Atsushi Ohta (Japan)
- PL196 Exploring Fe(III) heme-binding peptides as heterogeneous biocatalysts with peroxidase-like activity
Joey Lukas, Ivona Družeta, Toni Köhl (Germany)



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL197** Developing analysis of peptide macrocycles by tandem mass spectrometry
Zachary P. Gates (Singapore)
- PL198** Optimization of a bioluminescence resonance energy transfer-based ligand binding assay for the neuropeptide FF receptor 1
Hannah Lentschat, Annette G. Beck-Sickinger (Germany)
- PL199** Enhancement of *E. coli* growth in stationary phase by coiled-coil peptides
Natsumi Nakagawa, Ryutaro Tatei, Kodai Ueno, Yuna Nunokawa, Rui Kamada, Kazuyasu Sakaguchi (Japan)

PEPTIDE CONJUGATES (SUGAR, LIPID, NUCLEIC ACID, AND DRUG)

- PL200** Study on the role of helix-stabilized peptides in transporting antisense morpholino oligomers into cells: relationships among helicity, cellular uptake, and antisense activity
Hiroyuki Takada, Keisuke Tsuchiya, Yosuke Demizu (Japan)
- PL201** Cationic lipids modification of natriuretic peptide to increase potency and in vivo stability
Gerardo Castillo¹, Yao Yao¹, Hirofumi Tachibana², Motofumi Kumazoe², Yasutake Tanaka², Takashi Nojiri², Elijah Bolotin¹, Akiko Nishimoto-Ashfield¹, Rebecca Geurra¹ (¹USA, ²Japan)
- PL202** Boron delivery to cancer cells by peptide nanocarriers for boron-neutron capture therapy
Kin-ya Tomizaki, Takahiro Kayashita, Masayuki Yamasaki (Japan)
- PL203** Synthesis strategies for bacteria-derived lipopeptides
Glenna Swinand, Katherine Bowen, Samir Olatunji, Martin Caffrey, Eoin Scanlan (Ireland)
- PL204** Controlled intracellular trafficking and gene silencing by oligonucleotide-signal peptide conjugates
Masayuki Fujii (Japan)
- PL205** Polysaccharides modified with attenuated cationic lytic peptides: formation of microparticles and their use in cytosolic antibody delivery
Junya Michibata, Yoshihiro Sasaki, Kazunari Akiyoshi, Shiroh Futaki (Japan)
- PL206** Targeting post-translational modification of a post-translational modifier; Ubiquitin ADPribosylation
Gerbrand van der Heden van Noort (Netherlands)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL207** Virucidal peptide-based drugs to target influenza
Francesca Olgianti, Shadi Kordbacheh, Francesco Stellacci (Switzerland)
- PL208** Peptide-drug conjugates as a novel approach to antimalarial therapeutics
Caitlin Gare, Isabella Palombi, Andrew White, Nicole Lawrence, David Craik, Brendan McMorran, Lara Malins (Australia)
- PL209** Synthesis of novel cryptophycins: introduction of a polyethylene glycol substituent in unit D
Ninive Cati, Cedric Dessin, Norbert Sewald (Germany)
- PL210** Linkerology of cryptophycin drug conjugates
Jan-Niklas Bollnow, Cedric Dessin, Norbert Sewald (Germany)
- PL211** The series of a new fluconazole-based conjugates with cell penetrating and antimicrobial peptides
Natalia Ptaszyńska, Daria Łada, Wioletta Brankiewicz, Katarzyna Serbakowska, Jan Lica, Marek Drab, Natalia Maciejewska, Anna Łęgowska, Piotr Szweda, Krzysztof Rolka (Poland)
- PL212** Click-to-release-based cryptophycin drug conjugates
Jona Voss, Cedric Dessin, Norbert Sewald (Germany)
- PL213** Strategies for designing hepatocyte-selective carriers using helical peptides as stable scaffolds
Takahito Ito, Takashi Misawa, Nobumichi Ohoka, Michihiko Aoyama, Takao Inoue, Akiko Ishii-Watabe, Yosuke Demizu (Japan)
- PL214** Synthesis and characterization of bioconjugates containing peptide moiety with potential anticancer activity
Dancho Danalev, Polya Miladinoova, Yordan Todorov, Ivan Iliev (Bulgaria)
- PL215** Novel SMDCs with unit D modified cryptophycin as payload
Dominic Seißenschmidt, Cedric Dessin, Norbert Sewald (Germany)
- PL216** Rational design, synthesis and evaluation of mitoxantrone conjugated with mutated gonadotropin releasing hormone for the treatment of hormone-dependent cancer
Georgia Biniari, Agathi Nteli, Christos Markatos², Vlasios Karageorgos, Alexios Vlamis-Gardikas, George Liapakis, Maria Venihaki, Theodore Tselios, Carmen Simal (Greece)
- PL217** New peptide-porphyrin conjugates targeting brain-residing viruses
Toni Todorovski^{1,2}, Giuseppina Guida¹, Patrizia Janković², Diogo Alexandre de Mendonça³, Christine Cruz-Oliveira³, Marco Cavaco³, Daniela Kalafatović², Sira Defaus¹, Andrea Thompson Da Poian⁴, Miguel Castanho³, David Andreu¹ (¹Spain, ²Croatia, ³Portugal, ⁴Brazil)



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL218** Development of daunomycin-peptide antitumor conjugates containing neurotensin-based homing moiety
Endre Levente Dókus, Eszter Lajkó, Zsófia Adrienn Szász, László Kóhidai, Gábor Mező (Hungary)
- PL220** Peptide fibrils as nanocarrier for targeted therapy
Justyna Sawicka, Milena Czeszejko, Ewa Wieczerzak, Paweł Niedziałkowski, Tomasz Kulesza, Kamila Kitkowska, Rafał Sądej, Sylwia Rodziewicz-Motowidło (Poland)
- PL221** De novo semi-synthetic platform for monitoring protein degradation in live cells
Mahdi Hasan, Deepanjan Panda, Guy mann, Ashraf Brik (Israel)
- PL221** Cardiolipin-specific peptides, designed to possess cell-penetrating ability, bis rescue mitochondrial dysfunction
Gwangsu Shin, Soonsil Hyun, Dongwoo Kim, Yoonhwa Choi, Kyu Hong Kim, Dongmin Kim, Soie Kwon, Seung Hee Yang, Kyeong-Ryoon Lee, Jaehoon Yu (South Korea)
- PL222** N-terminal cysteine as minimalistic handle for dual, site-selective bioconjugation: case study on an anti-HER2 affibody
Carlo Pifferi, Ana Novak, Florian Kersaudy, Sylvie Berger, Séverine Morisset-Lopez, François Lefoulon, Vincent Aucagne (France)
- PL223** Peptide-based CE-SELEX enables isolation of aptamers that recognize CD20-expressing cells
Jordan Cossu, Océane Ricloux, Corinne Ravelet, Véronique Martel-Frchet, Eric Peyrin, Didier Boturyn (France)
- PL224** Conjugates containing homing peptide, cell penetrating peptide and a cytostatic or marker potentially useful in the diagnosis or treatment of lung cancer diseases
Piotr Jędrzejczak, Anna Gajda, Justyna Fraczyk, Beata Kolesińska (Poland)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

PEPTIDE PRODRUGS, TARGETING, DELIVERY AND UPTAKE

- PL225** Development of novel amphipathic stapled peptides as DDS carriers for intracellular delivery of nucleic acids
Motoharu Hirano, Hidetomo Yokoo, Makoto Oba, Takashi Misawa, Yosuke Demizu (Japan)
- PL226** Cell-surface-retained CPP-additives: an effective intracellular delivery strategy for functional cargoes
Jan Vincent Arafles, Jonathan Franke, Christian P. R. Hackenberger (Germany)
- PL227** Development of selective peptide-based radiopharmaceuticals for targeted therapy and diagnosis of high malignant cancers
Anna Giorgio, Nicola Salvatore, Annarita Del Gatto, Michele Saviano, Cristina Bolzati, Laura Zaccaro (Italy)
- PL228** Control of biological processes using metallopeptides
Jessica Rodriguez Villar (Spain)
- PL229** Improving the delivery efficiency of cell penetrating peptides through the incorporation of modified guanidinium prolines
Rahel Heeb, Helma Wennemers (Switzerland)
- PL230** Lipophilic prodrug charge masking-insights into new method of peptide prodrugs synthesis conception
Agata Gitlin-Domagalska¹, Anna Olejnik¹, Natalia Ptaszyńska¹, Jarosław Ruczyński¹, Mladena Glavaš^{1,2}, Mikołaj Marszałek¹, Dawid Dębowski¹, Aleksandra Helbik-Maciejewska¹, Anna Łęgowska¹, Chaim Gilon³, Krzysztof Rolka¹ (¹Poland, ²Croatia, ³Israel)
- PL231** Amphipathic proline-rich cell penetrating peptides for mitochondria targeting
Adeline Schmitt, Helma Wennemers (Switzerland)
- PL232** Dual-locked macrocyclic "turn-on" drug for selective and traceless release in cancer cells
Dominik Schauenburg, Kuan Seah Ling, Weil Tanja (Germany)
- PL233** Optimization of anti-vasoconstricting UT-II-derived biogels
Thibault Cauwenbergh¹, Juliana Dallagnol², David Chatenet², Charlotte Martin¹, Steven Ballet¹ (¹Belgium, ²Canada)
- PL234** Development of cell penetrating peptide-based ubiquitin ligase ligand for the development of PROTAC
Hidetomo Yokoo, Zhou Dongrui, Yosuke Demizu (Japan)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL235** Development of specific Y5 receptor agonists for cancer targeting
Lisa Peuker, Sacha Bodin, Emmanuelle Jestin, Clément Morgat, Annette G. Beck-Sickinger (France)
- PL236** Design and characterization of CD20 antigen surface for the selection of rituximab peptide mimics
Océane Ricloux, Chanantida Jongwohan, Jordan Cossu, Liliane Guerente, Didier Boturyn (France)
- PL237** Transient bioconjugation of amines for cytosolic delivery of functional protein
Jonathan Franke, Jan Vincent Arafles, Christian P.R. Hackenberger (Germany)
- PL238** Blood brain barrier - Peptide shuttles for drug delivery into the CNS
Paula Schwarz, Kiritkumar B. Jadhav², Christian W. Gruber, Roland Hellinger (Austria)
- PL239** SAR studies of peptides as homing device for tumor targeting
Maria Walger¹, Norbert Sewald¹, Abiodun Ayo², Pirjo Laakkonen² (¹Germany, ²Finland)
- PL240** Development of novel angiopep-2 conjugates for cancer treatment and diagnosis
Gábor Mező, Endre Levente Dókus, Diána Vári-Mező, Krisztina Kiss, Ivan Randelović, Lilla Pethő, Zita Képes, István Kertész, György Trencsényi, József Tóvári, Szilvia Bősze (Hungary)
- PL241** Systematic determination of the effect of cyclization on peptide permeability into mycobacteria
Rachita Dash, Marcos Pires (USA)
- PL242** Lipophilic prodrug charge masking strategy for novel oxytocin prodrugs production
Agata Gitlin-Domagalska¹, Natalia Ptaszyńska¹, Anna Olejnik¹, Jarosław Ruczyński¹, Mladena Glavaš^{1,2}, Dawid Dębowski¹, Aleksandra Helbik-Maciejewska¹, Anna Łęgowska¹, Chaim Gilon³, Krzysztof Rolka¹ (¹Poland, ²Croatia, ³Israel)
- PL243** Drug-likeness of cyclic peptides beyond rule of 5
Shojiro Shinohara, Mikimasa Tanada, Yuya Morita, Kazuhiko Nakano, Takuya Shiraishi, Hitoshi Iikura (Japan)
- PL244** POM-peptide hybrid against Alzheimer's disease
Marta Giacomini, Claudia Honisch, Elisabetta Gallupo, Genny Orso, Haihong Yu, Mauro Carraro, Paolo Ruzza (Italy)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL245** The potential use of peptides in pancreatic cancer
Martina Rotondo, Giovanna Bossio, Sofia Parassia, Andrea Mattarei, Claudia Honisch, Ildakò Szabò, Lucia Biasutto, Paolo Ruzza (Italy)
- PL246** Evaluation of different spin labels for the study of protein-peptide interaction in cellular extract using electron paramagnetic resonance spectroscopy techniques
Claudia Toso¹, Giovanni Loprete¹, Elisabetta Bergantino¹, Simone Fabbian¹, Massimo Bellanda¹, Sylvain Marque², Gerard Audran², Marina Gobbo¹, Marta De Zotti¹, Donatella Carbonera¹, Marco Bortolus¹, Marilena Di Valentin¹ (¹Italy, ²France)
- PL247** Development of a cell penetrating peptide carrying a biological active HPV16 E6 inhibitory molecule for delivery into cervical cancer cells
Anna Lucia Tornesello¹, Luisa Dassi¹, Vincenza De Gregorio¹, Giorgia Imparato¹, Marilisa Leone¹, Wuyuan Lu², Noemy Starita¹, Andrea Carasuolo¹, Luigi Buonaguro¹, Franco Maria Buonaguro¹, Maria Lina Tornesello¹ (¹Italy, ²China)
- PL248** Intracellular delivery strategies for peptide inhibitors of protein-protein interactions, targeted to the oncogenic phosphatase SHP2
Barbara Biondi, Claudia Storti, Chiara Fulci, Giovannina Rotundo, Marialetizia Motta, Daniele Volpin, Alessia Damiani, Cristiano Di Stefano, Chiara Innamorati, Masha Pellegrino, Marco Tartaglia, Cristina Peggion, Emmanuel De Crespín, Lorenzo Stella (Italy)
- PL249** The antimicrobial peptide SET-M33: in vivo efficacy and toxicity in different animal species and encapsulation in inhalable polymeric nanoparticles for pulmonary delivery
Laura Cresti, Giovanni Cappello, Clelia Cortese, Virginia Niccolini, Alessandro Pini (Italy)

PEPTIDE MIMETICS, PEPTOIDS AND PEPTIDE NUCLEIC ACIDS

- PL250** Affibody-mediated peptide nucleic acid pretargeting for delivery of cytotoxic payloads to HER2 positive carcinoma
Jacob Clinton, Kristina Westerlund, Amelie Eriksson Karlström, Torbjörn Gräslund (Sweden)
- PL251** Structure-activity relationship study on the P4 structure of macrocyclic BACE1 inhibitors
Kazuya Kobayashi, Momoka Kawakita, Takuya Otani, Yasunao Hattori, Shinya Oishi (Japan)
- PL252** Rapid synthesis of propargyl- γ -modified peptide nucleic acid monomers for late-stage functionalization of oligomers
Emma Watson¹, Miguel López-Tena², Patrick Romanens², Nicolas Winssinger² (¹Australia, ²Switzerland)



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL253** Non-enzymatic protein templates amide bond formation and provides catalytic turnover
Nicolas Brauckhoff, Laura Fang, Anissa Haim, Tom N. Grossmann
(Netherlands)
- PL254** β -sheet mimetics that target the transcriptional coactivator β -catenin
Mathias Wendt, Nicholas Pearce, Alejandro Yeste Vazquez, Raya J. Hana, Sven Hennig, Tom N. Grossmann *(Netherlands)*
- PL255** Solid-phase synthesis of peptoids with structure-inducing tert-butyl side chains: a unique challenge finally met
Zacharie Bordas, Sophie Faure, Olivier Roy, Claude Taillefumier *(France)*
- PL256** Combinatorial solid phase peptide synthesis of tripeptides on glass slides and thermographic investigation on CO₂-binding affinity
Jessica Jung-Fittkau, Katharina Moro, Josef Diebold, Magnus Schmidt
(Germany)
- PL257** Tertiary fold stabilization by a flattened proline surrogate
Madison Wright, Benjamin Rajewski, Taylor Gerrein, Juan Del Valle *(USA)*
- PL258** Self-assembled peptoid hydrogel as biomaterial ink
Il-Soo Park, Jae Hong Kim *(South Korea)*
- PL259** Exploring the potential of CXCR4 mimetic peptides to target cancer cells
Showmika Srirangan, Chafia Chiheb, Miriam Franz, Anja Katrin Bosserhoff, Susanne Mühlich, Jutta Eichler *(Germany)*
- PL260** The ornithine-based siderophore as a potential carrier of peptide nucleic acid into *Escherichia coli* cells
Uladislava Tsylents, Michał Burmistrz, Piotr Maj, Monika Wojciechowska, Joanna Trylska *(Poland)*
- PL261** Stepwise chemical control in the formation of beta-peptide assemblies
Imola Szigyártó, Kristóf Ferentzi, Kamal el Battioui, Olivér Pavela, András Wacha, Viktor Farkas, Tamas Beke-Somfai *(Hungary)*
- PL262** Low-molecular α -amino acid-based derivatives as nanocarriers of plant growth regulators
Vasilena Kondova, Borislav Anchev, Konstantin Dochev, Daniela S. Tsekova, Mariana Sichanova, Maria Geneva *(Bulgaria)*

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL264** From peptides to bioactive lactam-constrained foldamers
Maxime Fillaudeau¹, Alexandre Messerschmitt¹, Arie Van der Lee¹, Lubomir Vezenkov¹, Luc Brunel¹, Young Kee Kang², Jean Martinez¹, Baptiste Legrand¹, Muriel Amblard¹ (¹France, ²South Korea)
- PL265** Development of neurotensin (8-13) analogs as potent NTS1/NTS2 receptor ligands with enhanced effects on a mouse model of Parkinson's disease
Nikolay T. Tzvetkov¹, Toni Kühl², Maya G. Georgieva¹, Harald Hübner², Maria Lazarova¹, Polina Petkova-Kirova¹, Tamara I. Pajpanova¹, Reni Kalfin¹, Lyubka Tancheva¹, Aneliya A. Balacheva¹, Peter Gmeiner², Diana Imhof² (¹Bulgaria, ²Germany)
- PL266** Synthesis and biological application of a short peptidomimetics based on bacterial cell wall peptidoglycan monomer
Marcela Šišić, Leo Frkanec, Ruža Frkanec (Croatia)
- PL267** Antimicrobial peptidomimetics against methicillin-resistant *Staphylococcus aureus* (MRSA)
Katarzyna Łada, Maria Dzierżyńska, Agnieszka Gajewicz-Skrętna, Łukasz Grabowski, Alicja Węgrzyn, Franciszek Kasprzykowski, Sylwia Rodziewicz-Motowidło (Poland)
- PL268** Synthesis of 5-member heteroaromatics containing peptide backbones: pro and cons of structural constraints induced by amide bond surrogates
Francesco Brenzini Biagioni^{1,2}, Anna Maria Papini², Pierre-Yves Renard, Karine Porte, Corentin Layec¹ (¹France, ²Italy)
- PL269** Site-directed allosteric perturbation to probe the negative regulation of hypoxia inducible factor-1 α
Vencel László Petrovicz, Zsafia Hegedus, Tamás Martinek, Istvan Pasztuhov (Hungary)

PROTEOMICS AND PEPTIDE BIOINFORMATICS - I

- PL270** PepFuNN: Novo Nordisk open-source toolkit to enable peptide in silico analysis
Rodrigo Ochoa¹, Kristine Deibler² (¹Denmark, ²USA)
- PL271** A peptide database from human feces to foster the discovery of novel bioactive peptides
Armando Rodriguez-Alfonso, Nico Preising, Merve Karacan, Thomas Seufferlein, Martin Wagner, Frank Kirchhoff, Jan Münch, Ludger Ständker, Sebastian Wiese (Germany)



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL272** Application of the MALDI-MS and MALDI-IMS technique in the identification of the GPR146 receptor in tissue preparations
Joanna Wasko, Aleksandra Ryk, Wojciech Fendler, Beata Kolesińska (Poland)
- PL273** Searching for biomarkers characteristic for severe stage of COVID-19 disease
Aleksandra Czerchawy, Joanna Wasko, Beata Kolesińska (Poland)
- PL274** Identification of *delftia lacustris* proteins in response to cadmium stress
Ximena Carolina Pulido, Jefferson Beltran, Maryeimy Varón-López, Cesar Augusto Jaramillo (Colombia)
- PL275** Proteins involved in the plant growth promotion of *Pseudomonas orientalis* in the presence of cadmium
Ximena Carolina Pulido, Jefferson Beltran, Maryeimy Varón-López², Cesar Augusto Jaramillo (Colombia)
- PL276** Identification of protease inhibitors from the human peptidome to develop novel antivirals
Armando Rodriguez-Alfonso, Jan Lawrenz, Nico Preising, Merve Karacan, Bernd Schröppel, Rene van Erp, Eberhard Barth, Marion Schneider, Ludger Ständker, Frank Kirchhoff, Jan Münch³, Sebastian Wiese (Germany)
- PL277** An advanced database for glycopeptide structure exploration to build glycopeptide structure Hub: GPSHub
Michele Casoria, Marina Macchiagodena, Carla Bazzicalupi, Claudia Andreini, Gianni Caridini, Anna Maria Papini, Marco Pagliai (Italy)
- PL278** Machine learning reveals structural properties of monosaccharides and their peptide conjugates
Michele Casoria, Marina Macchiagodena, Carla Bazzicalupi, Claudia Andreini, Gianni Caridini, Anna Maria Papini, Marco Pagliai (Italy)

STRUCTURAL STUDIES OF PEPTIDES - I

- PL279** Mechanistic basis for the role of acidic tail of Rad6 (ubiquitin-conjugating enzyme) in Bre1 (E3 ligase) mediated recognition of histones in *Saccharomyces cerevisiae*
Pawan Yadav, Manish Gupta, Pankaj Kumar, Mohan Kamthan (USA)
- PL280** Arginine-rich peptides vs. lysine-rich peptides: interaction with differently charged lipid bilayers
Andreja Jakas, Lea Pašalić, Danijela Bakarić (Croatia)
- PL281** Self-assembly of synthetic bioactive sequences
Emma Fenude (Italy)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL282** Supramolecular structures of synthetic bioactive sequences and its potential applications
Emma Fenude (*Italy*)
- PL283** Prediction and simulation of the S100A1ct peptide with a membrane environment
Tommaso Bartoloni, Manuel Glaser, Rebecca Wade (*Germany*)
- PL285** Engineering stable miniproteins: the journey from computational design to tertiary structure stability
Natalia Miodowska, Łukasz Berlicki (*Poland*)
- PL286** Enhancing computational peptide therapeutic design with quantum chemistry and quantum computing
Vikram Mulligan¹, **Tristan Zaborniak**², **P. Douglas Renfrew**¹, **Benjamin Brown**¹ (¹*USA*, ²*Canada*)
- PL287** Formation of native disulfide bond patterns in small antifungal proteins and their γ -core optimized analogs
Györgyi Váradi, László Galgóczy, András Czajlik, Attila Borics, Gábor Bende, Csaba Papp, Zoltán Kele, Gyula Batta, Gábor Tóth K. (*Hungary*)
- PL288** Unraveling structural characteristics of honeycomb amyloid self-assembling peptide: HONEY ASAP!
Francesca Mazzotta, Ingo Lieberwirth, Jasmina Gačanin (*Germany*)
- PL289** Elucidation of the absolute structures and synthesis of putisolvins
Daria Morina, Ratchara Kalawong, Gleb Chesnokov, Simon Sieber, Kerstin Möhle, Leo Eberl, Karl Gademann (*Switzerland*)
- PL290** Alanine scanning analysis of the antimicrobial peptide lyp1987 using a template-based approach
Jomari Fernando, Jacquelyn Peran, Lilibeth Salvador-Reyes, Aaron Joseph Villaraza (*Philippines*)
- PL292** Synthesis and assessment of amyloidogenic activity of the C-peptide fragments
Joanna Wasko, Beata Kolesińska (*Poland*)
- PL293** High-throughput synchrotron radiation circular dichroism (HT-SRCD) for the screening of G-quadruplex ligands
Martina Rotondo¹, **Claudia Honisch**¹, **Barbara Biondi**¹, **Pietro Spanu**¹, **Fausta Ulgheri**¹, **Giovanni Loriga**¹, **Andrea Beccu**¹, **Rohanah Hussain**², **Giuliano Siligardi**², **Paolo Ruzza**¹ (¹*Italy*, ²*United Kingdom*)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- PL294** Structural insights into peptide recognition of PTH receptor
Shaima Hashem, Samuel Murail, Pierre Tufféry (France)
- PL295** Design and synthesis of a diamino diacid-based short cyclic peptide with tunable self-assembly
Devki Nandan, Ramesh Ramapanicker (India)
- PL296** Effect of lipid peroxidation on protein conformational stability
Claudia Honisch¹, Martina Rotondo¹, Stefano Tartaggia¹, Rohanah Hussain², Giuliano Siligardi², Paolo Ruzza¹ (¹Italy, ²United Kingdom)
- PL297** Three-dimensional structure and membrane permeability relationships of cyclopropane-restricted cyclic peptides
Yuki Yamazaki, Hiroyuki Kumeta, Satoshi Shuto, Mizuki Watanabe (Japan)
- PL298** Methyl-based nuclear magnetic resonance methods for characterization of large peptide self-assemblies
Dörte Brandis, Fanny Kozak, Christian Becker, Dennis Kurzbach (Austria)
- PL299** An atomistic view on the mechanism of diatom peptide-guided biomimetic silica formation
Fanny Kozak¹, Dörte Brandis¹, Christopher Pötzl¹, Ludovica Martina Epasto¹, Daniela Reichinger¹, Anton Polyansky¹, Bojan Zagrovic³, Fabian Daus², Armin Geyer², Christian Becker¹, Dennis Kurzbach¹ (¹Austria, ²Germany)
- PL300** The differential binding of arrestin-3 finger loop at Y1 and Y2 receptor: a structural perspective
Varsha Gupta, Matthias Voitel, Jeannette Oettrich, Mateusz Sklodowski, Davide Sala, Anette Kaiser, Matthias Elgeti, Jens Meiler, Daniel Huster, Peter Schmidt, Annette G. Beck-Sickinger (Germany)
- PL301** NMR structures of β -amino acid containing miniproteins stabilized by a hydrophobic core
Ewa Rudzińska-Szostak, Juan Lizandra Perez, Katarzyna Ozga, Łukasz Berlicki (Poland)
- PL302** Rational design of polyfluorinated peptide-based materials: self-assembly of an amphiphilic motif
Maurizio Iannuzzi, Holly Fiedler, Suvrat Chowdhary, Andreas Thünemann, Boris Schade, Elisa Quaas, Roland Netz, Beate Koks (Germany)
- PL303** Let's do the twist - Chiral information transfer in supramolecular peptide complexes
Danielle Liebnitz (United Kingdom)

POSTER SESSION 1 - 26 AND 27 AUGUST 2024

PEPTIDE MATERIALS - I

- PL304 Peptide based hydrogels for 3D bioassays
Greta Bergamaschi, Roberto Frigerio, Giulia Lodigiani, Andrea Pizzi,
Alessandro Gori, Marina Cretich (Italy)
- PL306 Tailoring the self-assembly of cyclic peptide scaffolds for prostate cancer imaging
Fatima Amanda Santillan Espinoza, Len Luyt (Canada)
- PL307 Computational/experimental symbiosis in the design of supramolecular peptide architectures
Ivan Sasselli (Spain)
- PL308 Peptide membranes from de novo designed helix-loop-helix peptides
Thomas Heim, Franziska Thomas (Germany)
- PL309 Multimaterial 3D laser printing of cell-adhesive and cell-repellent hydrogels
Niklas Schwegler, Tanisha Gebert, Maria Villiou, Federico Colombo, Barbara Schamberger, Christine Selhuber-Unkel, Franziska Thomas, Eva Blasco (Germany)
- PL310 Ultrasound-assisted formation of therapeutic peptide microcapsules
Erica Belforte¹, Francesca Cavalieri¹, Hilda Garay Perez², Mariano Venanzi¹(Italy, ²Cuba)
- PL311 Self-assembling peptides decorated with ω -expanded electron donors
Laura Bröchle, Thomas Heim, Milan Kivala, Franziska Thomas (Germany)
- PL312 Crosslink reaction of α -/ ω -substituted diacrylate polyethylene-glycol in Fmoc-FF hydrogel matrices
Carlo Diaferia, Paolo Pellegrino, Giancarlo Morelli, Rosaria Rinaldi, Antonella Accardo (Italy)
- PL313 Innovative strategies for sustainable materials: developing protein-based bioplastics from rapeseed by-products for a circular economy
Sara Aquilia, Michele Pinna, Anna Maria Papini, Luca Rosi, Francesco Ciardelli, Claudia Bello (Italy)
- PL314 Self-assembled peptides for biomimetic mineralization and enamel repair
Yue Li, Rong Chang, Yong-Xiang Chen (China)



POSTER SESSION 1 - 26 AND 27 AUGUST 2024

- Pl.315** Cationic amphiphilic peptide-based delivery platforms for negatively charged active pharmaceutical ingredients including short interfering RNA
Mariangela Rosa, Carlo Diaferia, Antonella Accardo, Giancarlo Morelli
(Italy)
- Pl.316** Synthesis of peptidomimetics using diaryl- β amino acids for the preparation of smart materials
Dulce Alitzel Quintana Romero¹, Raffaella Bucci¹, Merve Gul², Maria del Mar Pérez Madrigal², Maria Luisa Gelmi¹, Carlos Aleman² (*¹Italy, ²Spain*)
- Pl.317** Conformational and self-assembly studies of a protein-mimetic peptide from *Pseudomonas aeruginosa* YeaZ protein
Elettra Fasola, Giulia Alboreggia, Stefano Pieraccini, Francesco Oliva, Fatima Ezzahra Agharbaoui, Michela Bollati, Giovanni Bertoni, Sandro Recchia, Marcello Marelli, Umberto Piarulli, Sara Pellegrino, Silvia Gazzola (*Italy*)
- Pl.318** A comparative study between phenylglycine and phenylalanine derived peptide hydrogels
Jolien Bertouille, Ulrich Hennecke, Charlotte Martin, Ana V. Cunha, Steven Ballet (*Belgium*)
- Pl.319** Peptides stapling as a tool for improving molecular recognition of C-reactive protein
Katarzyna Szot-Karpińska¹, Marta Lubos², Natalia Cwalina¹, Jan Pícha², Jakub Kaminský², Jiří Jiráček², Magdalena Majewska¹, Magdalena Narajczyk¹, Joanna Niedziółka-Jönsson¹ (*¹Poland, ²Czech Republic*)
- Pl.320** A structural sight on peptides forming stable LLPS: a combined experimental and computational investigation
Gianfranco Bocchinfuso¹, Francesca Cavalieri¹, Annachiara Ferrara¹, Hilda Garay Perez², Marco Savioli¹, Mariano Venanzi¹ (*¹Italy, ²Cuba*)
- Pl.321** From synthesis to application: peptide-functionalized nanoformulations for biomedical applications
Shubhi Joshi, Gaurav Verma, Avneet Saini (*India*)
- Pl.322** Sustainable development of cross-linked protein and peptide-based films from rapeseed meal to innovative elastic materials
Sara Aquilia, Michele Pinna, Luca Rosi, Anna Maria Papini, Francesco Ciardelli, Claudia Bello (*Italy*)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

CHEMISTRY OF AMINO ACIDS, PEPTIDE AND PROTEINS - II

- P2.001 A chemical pathway to SUMO protease-resistant mimics of SUMOylated peptides and proteins
El hadji Cisse, Mélanie Chenon, Skander Abboud, Pierre Prieu-Serandon, Stéphane Charpentier, Hélène Bénédicti, Marcin Suskiewicz, Vincent Aucagne (France)
- P2.002 Suspension Bead Loading (SBL): an economical protein delivery platform to unveil URMI behavior into live cells
Reem Mousa, Abhishek Saha, Yam Alalouf, Mahdi Hasan, Guy Mann, Shaswati Mandal, Ashraf Brik (Israel)
- P2.003 Synthesis and conformational analysis of β,β -diaryl- α -amino acids: on the way to molecular gearing
Timo Zimmer, Armin Geyer (Germany)
- P2.004 A green peptide synthesis protocol for improving peptide production: a new approach
Luana Lastella, Barbara Biondi, Ivan Guryanov, Fernando Formaggio, Marco Macis, Antonio Ricci (Italy)
- P2.005 A rapid and efficient photochemical modification strategy for late-stage peptide and protein functionalization
Mengqian Zhang, Yan-Mei Li (China)
- P2.006 Development of new fluorescent peptide-based probes for the specific recognition of the $\alpha\beta$ 42 oligomer species
Norbert Sewald¹, Nicolo Tonali², Steven Panek¹ (¹Germany, ²France)
- P2.008 Novel Dmb-based protecting groups for side chain amino groups of amino acids
Raimund Maier, Karin Rustler, Thomas Bruckdorfer, Udo Kalejs, Vilnis Liepins, Stephan Pritz, Kai Holland-Nell (Germany)
- P2.009 Chemical biology of intrinsically disordered proteins domains
Alexis Jouin, Vladimir Torbeev (France)
- P2.010 Palladium-mediated S-arylation and S-allylation for late-stage peptide functionalisation and protein conjugation
Ross Ballantine, Ameni Hadj Mohamed, Mingxiang Zhu, Aromal Asokan, Shen Linhua, Mélanie Chenon, Ana Novak, Vincent Robert, Séverine Morisset-Lopez, Mouad Alami, Massimiliano Beltramo, Carlo Pifferi, Vincent Aucagne, Samir Messaoudi (France)



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.011** Total synthesis of nanobodies for targeted cancer therapy
Keziah Poggenpoel, Kevin Beijerling, William Kelton, Margaret Brimble, Iman Kavianinia (*New Zealand*)
- P2.012** Green synthesis of a novel primary amine protecting group for solid-phase peptide synthesis
C.J. Aguilar, Sujay Prabakar, Mak Sarwar, Margaret Brimble, Iman Kavianinia (*New Zealand*)
- P2.013** New opportunities for side-chain functionalization of halogenated amino acids
Laura Cerveson, Norbert Sewald (*Germany*)
- P2.014** Sculpting cavities into coiled-coil proteins to accommodate ligands of different size and shape
Katarzyna Ozga, Joel J. Chubb, Rokas Petrenas, Derek N. Woolfson (*United Kingdom*)
- P2.015** Efficient and glycoeconomic synthesis of densely clustered mucin glycopeptides
Arseniy Galashov, Ekaterina Kazakova, Oliver Seitz (*Germany*)
- P2.016** Expansion of chemical toolbox to generate and investigate protein pyrophosphorylation
Atharva Patharkar, Dorothea Fiedler (*Germany*)
- P2.017** Targeting LAT1 with technetium(I)-labeled tryptophan derivatives for SPECT imaging
Ruben Silva, Cristina P. Matos, Catarina G. Pinto, Joana F. Guerreiro, Lurdes Gano, Filipa F. Mendes, João D. G. Correia (*Portugal*)
- P2.018** Applications of thiol-ene and thiol-yne chemistry for peptide stapling and bioconjugation
Inés Rabadán González¹, Joshua McLean¹, Nikitas Ostrovitsa¹, Sheila Fitzgerald¹, Andrea Mezzeta², Lorenzo Guazzelli², Donal O'Shea¹, Eoin Scanlan¹ (¹*Ireland*, ²*Italy*)
- P2.019** Elevated temperature chromatography for improved purification of hydrophobic and long sequences
Colin Simpson, Drew Cesta, Sandeep Singh, Jon Collins (*USA*)
- P2.020** Enzymatic peptide and protein bromination: the BromoTrp tag
Nicolai Montua, Norbert Sewald (*Germany*)
- P2.021** Combining quaternary ammonium compounds and peptides - its application to antimicrobials and beyond
Rolland Lin¹, Brian Northrop², Margaret Brimble¹, Alan Cameron¹ (¹*New Zealand*, ²*USA*)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.022** Fluorescent amino acids with large Stokes-shift
Nicolas Schnatmann, Norbert Sewald (Germany)
- P2.023** Propargylamine amino acids as constrained N ϵ -substituted lysine mimetics
Kevin Van holsbeeck, Elsocht Mathias, Steven Ballet (Belgium)
- P2.024** Synthesis and structural characterization of trifluoromethylated tetrahydroisoquinolines as new constrained aromatic amino acid surrogates
Lilian Loison¹, Steven Ballet², Thierry Brigaud¹, Simon Gonzalez¹ (¹France, ²Belgium)
- P2.025** Exploring the structure and reactivity of cysteine enethiolates
Ardra Karthika, Eddie Myers (Ireland)
- P2.026** Application of a new green protocol in solid-phase peptide synthesis: identification of a new green solvent mixture compatible with ETT/TBEC
Giovanni Vivenzio, Maria Carmina Scala, Pietro Campiglia, Marina Sala (Italy)
- P2.027** Peptides and peptidomimetics blocking TNF/TNFR2 as a new strategy of immune checkpoint inhibition
Karolina Sławińska, Gabriela Całka-Kuc, Marta Spodzieja, Adam Sieradzan, Sylwia Rodziewicz-Motowidło (Poland)
- P2.028** On-resin hydrothiolation towards peptide ligation and macrocyclization
Nikitas Ostrovitsa, Joshua McLean, Eoin Scanlan (Ireland)
- P2.029** Modular access to structurally defined ubiquitin chains
Moritz Urschbach, Susanne Huhmann, Luca Ferrari, Dominik Vogli, Gerhard Niederacher, Sascha Martens, Christian Becker (Austria)
- P2.030** A radical approach to peptide/protein modification, and peptide macrocyclization
Rhys Griffiths, Fran Smith, Declan Meehan, Diyuan Li, Joanna Lee, Nicholas Mitchell (United Kingdom)
- P2.031** Synthesis of constrained amino acids by mild Pictet-Spengler cyclisation
Charity D. Yongo-Luwawa, Kajumee Bora Bhowal, Lylia Dif-Yaiche, Will Maclean, Omer Sayane Landry N'Dri, Chitra Pandiparambil Sadanandhan, Darince Truong, Zoé Villeneuve Zoé Villeneuve, Xiaozheng Wei, William Lubell (Canada)
- P2.032** Biomimetic total synthesis of marine cyclic peptide natural products and their bioactive analogs
Dona Mariya Vincent, Rajesh Viswanathan (India)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.034** New backbone protecting groups for enhanced Fmoc SPPS
Sam Paravizzini, John Karas, Craig Hutton (Australia)
- P2.035** Exploring innovative liquid-phase peptide synthesis strategies with silane-containing molecules
Naoki Nishizawa, Akihiro Nagaya, Shota Murase, Yuji Mimori, Michiharu Handa, Ayumu Matsuda, Yutaka Kobayashi, Haruaki Kurasaki, Cary Douglas, Keiichi Masuya (Japan)
- P2.036** Synthesis and application of proteins and peptides with diverse phosphorus-containing modifications
Yong-Xiang Chen (China)
- P2.037** Influence of tryptophan insertion on the fibrillation capacity and antimicrobial efficacy of β -hairpin antimicrobial peptides
Dhanya Mahalakshmi Murali, Jian Xu, Dai Thien Nhan Tram, P.L. Rachel EE (Singapore)
- P2.039** NMR-based investigation of intrinsically disordered regions of modular proteins for tailored drug-design
Angela Sofia Tino, Marco Schiavina, Michael Quagliata, Roberta Pierattelli, Anna Maria Papini, Isabella Caterina Felli (Italy)
- P2.040** Cyclic antimicrobial peptides guanidino-based analogues of temporin L
Ida Boccino, Rosa Bellavita, Maria Rosa Loffredo, Floriana Cappiello, Bruno Casciaro, Marialuisa Mangoni, Francesco Merlino, Paolo Grieco (Italy)
- P2.041** Gla-diators against calcification
Stijn Agten, Dennis Suylen, Anouk Gentier, Schurgers Leon, Tilman Hackeng (Netherlands)
- P2.042** Design and synthesis of peptide modulators of G α i/s proteins
Anna Pepanian, Sabriye Aydođdu, F. Ayberk Binbay, Diana Imhof (Germany)
- P2.043** Deciphering Tau misfolding: utilizing β 2,2-amino acid-based peptidomimetic foldamers as a chemical model system for mechanistic investigation
Davide Di Lorenzo^{1,2}, Sandrine Onger², Nicolo Tonal² (¹Germany, ²France)
- P2.044** Development of mild methodology for synthesizing oxazole-containing peptides
Zainab Bello, Allison Clarke, Adam Pickett, Carlie Charron (Canada)
- P2.045** Synthesis of macrocyclic thiolactone peptides via radical acyl thiol-ene
Alby Benny, Eoin Scanlan (Ireland)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.046** Divalent metal ions-directed release of C-terminally modified peptides at 60 °C under mild conditions
Rebeca Garcia Moura, Thiago de Souza Freire, M Teresa Machini (Brazil)
- P2.047** Exploring the three-dimensional structures and activity relationships of N-methyl and N-desmethyl analogues of cyclodepsipeptide destruxin E
Takayuki Doi, Hiroshi Sato, Hiroshi Nakagawa, Masahito Yoshida (Japan)
- P2.048** Green solvents and safe reagents in SPPS taking advantage of induction heating and automation: synthesis and HPLC-free purification of difficult sequences
Lorenzo Pacini¹, Manoj Kumar Muthyala², Oleg Marder³, Luísa Aguiar², Robert Zitterbart², Paolo Rovero¹, Anna Maria Papini¹ (¹Italy, ²USA, ³Israel)
- P2.049** Simple one-pot peptide cleavage and spontaneous macrocyclization through Paal-Knorr-like reactions using 2,5-dialkylfuran derivatives
Alex Manicardi^{1,2}, Atiruj Theppawong¹, Marleen van Troys¹, Annemieke Madder¹ (¹Belgium, ²Italy)
- P2.050** Sustainable scale-up of GLP-1 agonist peptides through green solid phase peptide synthesis
Lorenzo Pacini¹, Manoj Kumar Muthyala², Robert Zitterbart², Paolo Rovero¹, Anna Maria Papini¹ (¹Italy, ²USA)
- P2.051** Searching for peptide inhibitors of TNFR2/TNF complex formation using a virtual "phage display"
Paulina Stencel, Artur Giełdoń, Beata Gromadzka, Sylwia Rodziewicz-Motowidło, Marta Spodzieja (Poland)
- P2.052** Overcoming sustainability challenges of peptide synthesis with flow chemistry and machine learning
Kristóf Ferentzi, Adrienn Kiss, Viktor Farkas, András Perczel (Hungary)
- P2.053** Gamma carboxylation of glutamic acid as a functional handle for peptide and protein conjugation
Matthew Aronoff (USA)
- P2.054** Core-shell type resins for SPPS
Kwanwoo Kim, Joon-Su Kong, Seok-In Kim, Yoon-Sik Lee (South Korea)
- P2.054** Automated and economical SPPS synthesis of 1 to 10,560 peptides overnight
bis Hossain Saneii, Rajan Sharma, Farshad Karimi, Mostafa Hatam (USA)



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

BIOACTIVE PEPTIDES - II

P2.055 Nature inspired unique antimicrobial peptides from Chilean marine sediments

Luisa Beyer¹, Ann-Britt Schäfer¹, Agustina Natalia Undabarrena Canusso², Inger Mattsby-Baltzer¹, Daniel Tietze¹, Elin Svensson¹, Alexandra Stubelius¹, Michaela Wenzel¹, Beatriz Cámara², Alesia Tietze¹ (¹Sweden, ²Chile)

P2.056 The role of the quorum sensing peptide PlnA in the gut microbiome-sarcopenia axis

Amélie Descamps¹, Anton De Spiegeleer^{1,4}, Liesbeth Crombez¹, Morten Kjos², Evelien Wynendaele¹ (¹Belgium, ²Norway)

P2.058 Unlocking mango's peptide potential: exploring bioactive peptides in pulp and peel

Mahya Bahmani, Michelle L. Colgrave, Cassandra L. Pegg, Angéla Juhász (Australia)

P2.059 Alca, a cyclotide extracted and isolated from *Allexis cauliflora* (Violaceae): synthesis and biological activities

Olivier Ndogo Eteme, Letícia Oliveira Catarin Nunes, Marcela Nunes Argentin, Norival Santos-Filho, Ilana Lopes Baratella da Cunha Camargo, Eduardo Festozo Vicente (Brazil)

P2.060 Microporous scaffold-mediated myeloid cell activation in situ for robust peptide-based cancer vaccine

Shao-Hua Zhuo, Wen-Hao Li, Jing-Yun Su, Yan-Mei Li (China)

P2.061 Bugs, plants and peptides: unleashing the power of chemical ecology for sustainable crop protection

Aurelien Bigot, Quentin Kaas (Switzerland)

P2.062 The "Sand in a gearbox" effect of antimicrobial peptides: beyond pore formation on model membranes and real bacteria cells

Daniela Roversi, Zahra Vaezi^{1,2}, Annalisa Bortolotti, Cristiano Di Stefano, Simone Bonacorsi, Valerio Santucci, Christopher Aisenbrey³, Mohinimohan Konai⁴, Yash Acharya⁴, Roya Khosravi-Far⁵, Burkhard Bechinger³, Jayanta Haldar⁴, Lorenzo Stella¹ (¹Italy, ²Iran, ³France, ⁴India, ⁵Israel, ⁶USA)

P2.063 Site-directed scanning mutagenesis reveals specific residues that enhance both the enduring stability and insecticidal efficacy of the cyclotide kalata B1

Yen-Hua Huang¹, Zhihao Jiang¹, Kuok Yap^{1,2}, Aurelien Bigot², Quentin Kaas², Conan Wang¹, David Craik¹ (¹Australia, ²Switzerland)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.064** Design and structural analysis of fluorinated polyproline-type foldamers and their ability to interact with membrane models
Chloé Cayrou, Simon Gonzalez, Karine Guitot, Delphine Ravault, Françoise Illien, Sylvie Noinville, Astrid Walrant, Thierry Brigaud, Olivier Lequin, Sandrine Ongeri, Grégory Chaume (France)
- P2.065** Cyclic peptides as connexin43 and pannexin1 inhibitors
Debora Iaculli¹, Arthur Lamouroux¹, Malaury Tournier², Jade Montgomery², Mathieu Vinken¹, Brenda R. Kwak², Steven Ballet¹ (¹Belgium, ²Switzerland)
- P2.066** Antimicrobial peptidomimetics: design, synthesis, and surface binding
Marc Mathieu (Switzerland)
- P2.067** New insights into antibacterial and antitumor effects of structurally versatile amino acid-based and non-proteinogenic compounds
Martina I. Peeva, Maya G. Georgieva, Aneliya A. Balacheva, Svetoslav Dimov, Nikolay T. Tzvetkov (Bulgaria)
- P2.068** Synthesis and delivery of cell permeable P53 transactivation domain
Moath Yousef, Vladimir Torbeev (France)
- P2.069** Antiviral evaluation of new synthetic bioconjugates based on GA-Hecate: a new class of antivirals targeting different steps of Zika virus replication
Paulo Ricardo da Silva Sanches¹, Ricardo Sanchez Velazquez², Mariana Nogueira Batista³, Giuditta Delorenzo², Cintia Bittar Oliva³, Paula Rahal¹, Arvind Patel², Eduardo Cilli¹ (¹Brazil, ²United Kingdom, ³USA)
- P2.070** Evaluation of antimicrobial and anticancer properties of peptides derived from melittin: design, synthesis and studies of mechanisms of action
Letícia Oliveira Catarin Nunes, Louise Fiametti, Geovana Navegante, Maria Carolina Oliveira De Arruda Brasil, Valeria Valente, Lucas Rodrigues, Marcela Nunes Argentin, Vitória Candido, Ilana Lopes Baratella da Cunha Camargo, Eduardo Cilli, Norival Santos-Filho (Brazil)
- P2.071** Development of a retro-inverso tetrapeptide collagen modulator as anti-aging active principle
Fosca Errante, Marco Pallecchi, Gianluca Bartolucci, Elena Frediani, Francesca Margheri, Lisa Giovannelli, Anna Maria Papini, Paolo Rovero (Italy)
- P2.072** Phosphopeptides as tools to probe the recognition of the RNA-Polymerase II C-Terminal domain by phospho-specific antibodies
Emanuele Piemontese, Alina Herfort, Oliver Seitz (Germany)
- P2.073** Development of novel peptide ligands with improved selectivity and pharmacological properties for complement system receptors
Richard Clark, Declan Gorman, Xaria Li, Joshua Dent, Cedric Cui, Han Sian Lee, Jenny Fung, John Lee, K. Johan Rosengren, Trent Woodruff (Australia)



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.074** Peptide and peptide polymer synergy in combatting antimicrobial resistance
Sara Hadjigol, Connagh Redmond, Sadegh Shabani, Greg Qiao, Neil O'Brien-Simpson (*Australia*)
- P2.075** Exploring the therapeutic potential of papiliocin and its analogs against carbapenem-resistant *Acinetobacter baumannii*-induced sepsis: novel antibacterial and anti-inflammatory mechanisms
Minwon Son, Byeongkwon Kim, Yangmee Kim (*South Korea*)
- P2.076** A BMP-2-derived bioactive peptide conjugated to chitosan improves osteoblast proliferation and antibacterial properties of membranes for oral surgery
Cristian Balducci, Annj Zamuner, Martina Todesco, Andrea Bagno, Antonella Pasquato, Giovanna Iucci, Federica Bertelà, Chiara Battocchio, Luca Tortora, Eriberto Bressan, Luca Sacchetto, Paola Brun, Monica Dettin (*Italy*)
- P2.077** Targeting cancer by transmembrane peptides and ionic liquid carriers
Helal Abujubara¹, Pankaj Bharmoria², Samantha Alvarez¹, Enoch Appiah¹, Volkan Sayin¹, Alesia Tietze¹ (¹Sweden, ²Spain)
- P2.078** Characterization of aurora-A activation and allosteric regulation by TACC-3 peptidomimetics
Diana Gimenez-Ibanez, Jennifer Miles, Richard Bayliss, Megan Wright, Andrew J. Wilson (*United Kingdom*)
- P2.079** Bioactive peptides in functional foods can mitigate stress behaviors in zebrafish (*Danio rerio*)
Ana S. Silva-Herdade, Lara Carvalho, Adriana Rolim, Wilson Pinto, Bruno Reis, Luís Conceição, Benjamin Costas, Miguel Castanho (*Portugal*)
- P2.080** Synthesis, conformational analysis and biological activity evaluation of novel antiviral peptides blocking the SARS-CoV-2 cell-entry
Michael Quagliata, Maria Alfreda Stincarelli, Andrea Di Santo, Lorenzo Pacini, Feliciana Real-Fernandez, Rosaria Arvia, Silvia Rinaldi, Anna Maria Papini, Simone Giannecchini, Paolo Rovero (*Italy*)
- P2.081** Multiple lysine substitutions in the peptaibol trichogin GA IV enhance the antibiotic activity against plant pathogenic *Pseudomonas syringae*
Alexia Mattellone, Marta De Zotti, Ivan Baccelli, Fodil Sihem, Simone Luti, Silvio Tundo, Rita Musetti, Luca Sella, Francesco Favaron (*Italy*)
- P2.082** Cyclic cystine knot peptides are first in class inhibitors of prolyl oligopeptidase with leishmanicide activities
Roland Hellinger, Jasmin Gattringer, Paula Schwarz, Maria Ramón, Christian W. Gruber (*Austria*)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.083** Synthesis, characterization and biological activity evaluation of a dual-drug based on the antibacterial peptide lugdunin functionalized with the carbonic anhydrase sulfonamide inhibitor acetazolamide
Michael Quagliata¹, Francesco Brenzini Biagioni^{1,2}, Simone Giovannuzzi¹, Viviana De Luca¹, Clemente Capasso¹, Alessio Nocentini¹, Claudiu T. Supuran¹, Paolo Rovero¹, Anna Maria Papini¹ (Italy, ²France)
- P2.084** Alanine scan analysis structural and functional insights into NBC3709 peptide, a short peptides derived from rabbit cathelicidin (CAP18)
Mónica Aróstica¹, Fanny Guzmán¹, Gerardo Acosta¹, Fernando Albericio¹, Miguel Viñas¹, Josep Sierra¹, Luis Mercado² (Spain, ²Chile)
- P2.085** Phosphorylation and GlcNAcylation of the RNA polymerase II C-Terminal domain and their effect on recognition by Pin1 and Protein Phosphatase 1
Alina Herfort, Emanuele Piemontese, Corina Maller, Maja Köhn, Oliver Seitz (Germany)
- P2.086** How a single non-conventional amino acid can modify the effectiveness of amphibian antimicrobial peptides
Maria Rosa Loffredo, Bruno Casciaro, Giacomo Cappella, Rosa Bellavita, Floriana Capiello, Francesco Merlino, Paolo Grieco, Alfonso Carotenuto, Lorenzo Stella, Marialuisa Mangoni (Italy)
- P2.087** Development of bioactive peptides of cosmetic interest through environmentally sustainable processes
Lucrezia Sforzi¹, Fosca Errante¹, Joanna Makowska², Paolo Rovero¹, Anna Maria Papini¹ (Italy, ²Poland)
- P2.088** Thermodynamic and kinetic effects on the activity and selectivity of antimicrobial peptides
Federico Carneri¹, Emiliano Franci¹, Cassandra Troiano¹, Giuseppe Giaquinto¹, Antonio Leoci¹, Daniela Roversi¹, Maria Rosa Loffredo¹, Yoonkyung Park², Angelo Toto², Stefano Gianni¹, Marialuisa Mangoni¹, Henrik Franzky³, Lorenzo Stella¹ (Italy, ²South Korea, ³Denmark)
- P2.089** Engineering *Saccharomyces cerevisiae* to produce class IIa bacteriocins
Michelle Rossouw, Rosemary Anne Cripwell, Ross Vermeulen, Anton Du Preez van Staden, Gerhardt Coetzee, Carla Louise Ritter, Willem Heber (Emile) van Zyl, Leon Milner Theodore Dicks, Marinda Viljoen-Bloom (South Africa)
- P2.090** Codon optimisation and accessory proteins enhance pediocin PA-1 production in *Saccharomyces cerevisiae*
Bianca Campbell, Michelle Rossouw, Rosemary Anne Cripwell, Marinda Viljoen-Bloom (South Africa)
- P2.091** Modifications of the miniprotein sequences for enhanced affinity to PD-1: tailoring inhibitors of the PD-1/PD-L1 interaction
Paweł Nocoń, Łukasz Berlicki (Poland)



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.092** Modulating quorum sensing using native signalling molecules
Iben Jensen, Benjamin Svejald Bejder, Hanne Ingmer, Christian Adam Olsen (Denmark)
- P2.093** Design of fluorinated Aib foldamers: synthesis, structural study and capacity to interact with amyloid proteins
Marine Pietri, Olivier Monasson, Julia Kaffy, Elisa Peroni, Sandrine Ongeri, Grégory Chaume, Nathalie Lensen (France)
- P2.094** Antimicrobial peptides with varied chemical compositions trigger hyperpolarization of the bacterial membrane
Anasztazia Hetenyi, Kaushik Nath Bhaumik, Reka Spohn, Anett Dunai, Lejla Daruka, Csaba Pal, Tamás Martinek (Hungary)
- P2.095** Synthetic glucosylated peptide antigens of the bacterial protein adhesin of nontypeable *Haemophilus influenzae* to detect antibodies in multiple sclerosis
Francesca Nuti¹, Feliciano Real-Fernandez¹, Hermon Berhane Tesfay¹, Poriah Strauss², Rina Ahroni², Mattan Hurevich², Paolo Rovero¹, Anna Maria Papini¹ (¹Italy, ²Israel)
- P2.097** Synthesis and antitumor effect of new peptide derivatives with beta-secretase inhibitory activity
Lyubomir T. Vezenkov, Snejina Popova, Rositsa Mihaylova, Daniela S. Tsekova (Bulgaria)
- P2.098** Design, synthesis, and biological activity of tumor necrosis factor alpha peptides for adalimumab recognition
Feliciano Real-Fernandez, Andrea Di Santo, Kalina Kirilova Kirilova, Silvia Rinaldi, Gabriele Simonini, Paolo Rovero (Italy)
- P2.099** Computational design of ultrashort peptide inhibitors for the RBD of the SARS-CoV-2 S-protein
Pengfei Pei (China)
- P2.100** In vitro effect of the acidic pH on the susceptibility of the antimicrobial peptide Esc(1-21) against respiratory pathogens in cystic fibrosis lung environment
Giacomo Cappella, Maria Rosa Loffredo, Bruno Casciaro, Floriana Cappiello, Arianna Turchini, Marialuisa Mangoni (Italy)
- P2.101** Identifications and antiparasitic activity of peptides from epidermal mucus of Chilean aquaculture fish
Fanny Guzman¹, Claudio Alvarez¹, Teresa Toro¹, Juan Cumillaf¹, Belinda Vega¹, Maria Tapia¹, Tanya Román¹, Constanza Cardenas¹, Valentina Cordoba¹, Fernando Albericio², Paula Santana¹ (¹Chile, ²Spain)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.102** Computer-aided rational design of bioactive peptides with biomedical applications
Shizhong Luo (China)
- P2.103** Bismaleimido-hexane-stapled anoplin analogs
Magdalena Bobier, Aaron Joseph Villaraza, Portia Mahal Sabido
(Philippines)
- P2.104** Glycine- and histidine-rich peptides derived from shepherin I: study of candidacidal activity, metal-chelating properties and mode of action
Gustavo Nunes¹, Lohanna Lopes¹, Ernani Lacerda¹, Carlos Marques², Breno Espósito¹, M. Teresa Machini¹ (¹Brazil, ²France)
- P2.105** Enzymatic approaches to the synthesis of Aib-containing peptides for phytosanitary applications
Luca Sella¹, Francesco Favaron¹, Antonio Ricci¹, Ana Toplak², Marta De Zotti¹, Chiara Dalla Torre¹ (¹Italy, ²Netherlands)
- P2.106** Antiparasitic peptides with potential activity against *Caligus rogercresseyi*
Tanya Román, Fanny Guzman, Constanza Cardenas, Paula Santana, Claudio Alvarez (Chile)
- P2.107** Recombinant protein engineering – synthetically enhanced protein therapeutics for Myc targeting
Jan Pascal Kahler, Brecht Ellenbroek, Sebastian Pomplun (Netherlands)
- P2.108** Cecropin A-melittin B hybrid CA (1–7) M (2–9) analogs with improved antimicrobial activity, low toxicity, and good protease stability
Jessica Mhlongo¹, Talia Chetty¹, Ayman Waddad¹, Fernando Albericio^{1,2}, Beatriz Garcia de la Torre¹ (¹South Africa, ²Spain)
- P2.109** Optimizing ham curing process: impact of overripening and the use of nitrifying salts on peptide bioactivity
Noelia Hernández Correas, Cindy Bande-De León, Adela Abellán Guillén, Teresa Muela Clemente, Eva Salazar Serna, Jose María Cayuela García, Luis Tejada Portero (Spain)
- P2.110** Functional and structural understanding of the angiotensin II receptor type 1 (AT1R) biased signaling
Margot Hadjhadj, Alexandre Murza, Brian Holleran, Yoon Namkung, Stéphane Laporte, Richard Leduc, Mannix Auger-Messier, Pierre-Luc Boudreault (Canada)
- P2.111** Molecular determinants of the anti-amyloid function of the cross-interaction of the human cathelicidin LL-37 with islet amyloid polypeptide
Valentina Armiento, Hendrik Wunderlich, Max Schneider, Aphrodite Kapurniotu (Germany)



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.112** Synthesis and in vitro screening for antibacterial and antitumour potential of new lactoferricin B20-30 analogues
Tamara Pajpanova, Dimana Dimitrova², Tatyana Dzimbova, Viktor Sándor, Silvia Mihaylova, Ferenc Kilar (Hungary)
- P2.114** Use of alternative curing salts in the cured ham production process. Effect on the generation of bioactive peptides
Cindy Bande-De León, Noelia Hernández Correas, Manuel Hernández Lorca, Pablo Gómez San Miguel, Gregorio Molina Valero, Estefanía Bueno Gavilá, María Dolores Gil Martínez (Spain)
- P2.115** Chimeric peptides and glycopeptides derived from minimal motifs of buforine and bovine lactoferricin: synthesis, characterization and evaluation of antibacterial activity
Sofia Daza, Juan Esteban Reyes, Zuly Rivera, Javier García, Ricardo Fierro (Colombia)
- P2.116** Development of a potent and specific peptide inhibitor for the E. coli MazF toxin
L.R. Pizzolato-Cezar, Phelipe Vitale, Roberto K. Salinas, M. Teresa Machini (Brazil)
- P2.117** Peptides derived from the RRWQWRMKKLG sequence: evaluation of antibacterial activity against *S. aureus* and *E. coli* strains
Kelin Johana Cuero, Ricardo Fierro, Aura Leal, Zuly Rivera, Javier García (Colombia)
- P2.118** Structure-activity studies of preptin and its analogues or fragments
Lucie Mrázková, Marta Lubos, Jakub Kaminský, Jiří Jiráček, Lenka Žáková (Czech Republic)
- P2.119** A versatile insulin analogue with extremely high potency for both insulin and insulin-like growth factor 1 receptors
Jiří Jiráček, Irena Selicharová, Marta Lubos (Czech Republic)
- P2.120** Buforin-derived synthetic peptides with potential applications in medicine
Dana Maria Copolovici, Cristian Moisa, Andreea Lupitu, Florina Bojin, Oana Gavriiliuc, Mihaela Dochia, Dorina Chambre, Lucian Copolovici (Romania)
- P2.121** Exploring antimicrobial peptides: a new frontier in cancer treatment innovation
Lucian Copolovici, Cristian Moisa, Andreea Lupitu, Dorina Chambre, Dana Maria Copolovici (Romania)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

PEPTIDE THERAPEUTICS AND CLINICAL APPLICATION - II

- P2.122** High level soluble expression of human glucagon-like peptide-1 (GLP-1) analogue as a recombinant peptide in *E. coli*
Sushmita Sushmita, Esha Shukla, Gaurav Pandey (India)
- P2.123** Peptide-based ionic liquids for non-healing wounds: in vivo data from a mouse model of diabetic ulcers
Ana Gomes¹, Ricardo Ferraz¹, Mariana Ferreira¹, Jéssica da Silva¹, Inês Teixeira¹, Daniela Calheiros¹, Cátia Teixeira², Teresa Gonçalves¹, Ermelindo Leal¹, Paula Gameiro¹, Eugénia Carvalho¹, Paula Gomes¹ (¹Portugal, ²USA)
- P2.124** Combining peptide fragments for the high-throughput generation and screening of large libraries
Anne Zarda, Xingwang Deng, Edward Will, Christian Heinis (Switzerland)
- P2.125** Construction and use of medical devices for the selective removal of bacteria and endotoxins from biological fluids
Giovanni Cappello, Laura Cresti, Clelia Cortese, Alessandro Pini (Italy)
- P2.126** Peptides designed based plant original cyclic scaffold facilitate rheumatoid arthritis diagnosis
Mingshu Zhang¹, Liyan Mei^{1,2}, Sunithi Gunasekera¹, Helena Idborg¹, Per-Johan Jakobsson¹, Ulf Göransson¹ (¹Sweden, ²China)
- P2.127** Highway to cell: internalization of CFTR-stabilizing peptides as potent cystic fibrosis treatment
Clémentine Teko-Agbo¹, Quentin Seisel¹, Eric Vivès¹, Dean R. Madden², Magali Taulan-Cadars¹, Prisca Boisguérin¹ (¹France, ²USA)
- P2.128** Effects of peptide labeling on fluorescence binding assays to Src homology 2 domains: the case of protein-protein interactions inhibitors of the oncogenic phosphatase SHP2
Sara Bobone, Chiara Fulci, Chiara Innamorati, Alessia Damiani, Claudia Storti, Paolo Calligari, Daniela Roversi, Luca Pannone, Simone Martinelli, Gianfranco Bocchinfuso, Fernando Formaggio, Cristina Peggion, Barbara Biondi, Lorenzo Stella (Italy)
- P2.129** BrainBike peptidomimetic enables efficient transport of antibody derivatives across brain endothelium
Maria C. Lucana, Cristina Díaz-Perlas, Benjamí Oller-Salvia (Spain)
- P2.130** Semisynthesis of stabilised insulin analogues
Rong Xu, Briony Forbes, Christoph Hagemeyer, John Karas (Australia)
- P2.131** Peptide-based inhibitors of HVEM/LIGHT complex: theoretical and experimental approach
Piotr Ciura¹, Marta Spodzieja¹, Katarzyna Węgrzyn¹, Sylwia Rodziewicz-Motowidło¹, Paweł Krupa¹, Pamela Smardz¹, Peter Steinberger², Adam Sieradzan¹ (¹Poland, ²Austria)



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

P2.132 Halogenated cyclic RGD-peptides with excellent affinity towards α V β 6 integrin

Beate Nachtigall, Norbert Sewald (Germany)

P2.133 Development of supramolecular anticoagulants with on-demand reversibility

Millicent Dockerill¹, Daniel Ford², Angerani Simona¹, Imala Alwis², Luke Dowman², Ripoll Jorge³, Rhyll Smythe², Joanna Liu², Pedro Pereira³, Shaun Jackson², Richard Payne², Nicolas Winssinger¹ (¹Switzerland, ²Australia, ³Portugal)

P2.134 Adalimumab and anti-adalimumab antibodies: a novel method of detection and quantification in human sera based on surface plasmon resonance technique

Andrea Di Santo, Fosca Errante, Manuela Capone, Alessandra Vultaggio⁴, Matteo Accinno, Lorenzo Cosmi, Francesco Annunziato, Anna Maria Papini, Paolo Rovero, Feliciano Real-Fernandez (Italy)

P2.135 Development of albumin-binding cyclic peptides to extend the circulatory half-life of therapeutic molecules

Sara Linciano, Ylenia Mazzocato, Zhanna Romanyuk, Alessandro Angelini (Italy)

P2.136 Innovative liquid chromatographic-mass spectrometric technologies to identify and purify biologically active antibody-drug conjugates

Margherita Marino¹, Paolo Rovero¹, Walter Mier², Hendrik Rusche², Anna Maria Papini¹ (¹Italy, ²Germany)

P2.137 Optimization and characterization of novel antimicrobial peptides for use in poultry production

Alana Babcock, Shaeleen Mihalynuk, Vanessa Thompson, Darcy Sutherland, Amelia Richter, Hossein Ebrahimikondori, Chenkai Li, Anat Yanai, Teagan Parkin, Inanc Birol, Fraser Hof, Caren Helbing (Canada)

P2.138 Development of cyclic peptide inhibitors of cancer-associated serine proteases

Ylenia Mazzocato, Alessandro Angelini (Italy)

P2.139 Designing peptides that bind 14-3-3 ϵ and inhibit cutaneous squamous cell carcinoma

Sandor Lovas, Seraphine Kamayirese, Laura A. Hansen (USA)

P2.140 High-throughput permeability assay for discovery of cell penetrating peptides

Hanna Stokes, Noora Azadvari, Parisa Hosseinzadeh (USA)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.142** Development of an Equipotent NaV1.1 and NaV1.7 inhibitor for the treatment of chronic visceral pain
David Eagles, Glenn King, Fernanda Cardoso, Markus Muttenthaler, Stuart Brierley (Australia)
- P2.143** UL144-derived peptides as modulators of the BTLA/HVEM signaling pathway
Magdalena Lipińska, Piotr Ciura, Sylwia Rodziewicz-Motowidło, Anna Wardowska³, Marta Spodzieja (Poland)
- P2.144** Study of beta-turn peptide fibrillation in hydrogels and its antimicrobial impact
Peiyan Yu, P.L. Rachel EE (Singapore)
- P2.145** Peptide nanonets as antimicrobial and anti-inflammatory agents
P.L. Rachel EE, Dai Thien Nhan Tram, Jian Xu, Wai Shiu Fred Wong, Rajamani Lakshminarayanan (Singapore)
- P2.146** Protein-protein interactions: unraveling the link between HTLV-1 Tax-1 oncoprotein and human drosophila discs large tumor suppressor
Wael El Yazidi Mouloud¹, B. Maseko Sibusiso¹, Brammerloo Yasmine¹, Van Molle Inge¹, Sogues Castrejon Adria¹, Charlotte Martin¹, Remaut Han¹, Steven Ballet¹, Volkov Oleksandr¹, Twizere Jean-Claude^{1,2} (¹Belgium, ²United Arab Emirates)
- P2.147** Mapping the journey: exploring the biodistribution and sustained release of the peptide macrocycle [D-Trp]CJ-15,208 by means of peptide hydrogels
Ines Robberechts¹, Julie Heremans¹, Jane Aldrich², Sophie Hernot¹, Steven Ballet¹, Charlotte Martin¹ (¹Belgium, ²USA)
- P2.148** ESC peptides for novel therapeutics against *Pseudomonas aeruginosa* pulmonary infections: beyond antimicrobial activity
Maria Rosa Loffredo¹, Floriana Cappiello¹, Bruno Casciaro¹, Giacomo Cappella¹, Ivana d'Angelo¹, Loretta Ferrera¹, Francesca Ungaro¹, Yuanpu Peter Di², Marialuisa Mangoni¹ (¹Italy, ²USA)
- P2.149** Developing stabilizers of the interaction between 14-3-3 and hDM2 or hDMX
Niamh Parkinson, Andrew J. Wilson (United Kingdom)
- P2.150** Synthesis and antimicrobial activity of hybrid peptides as dual inhibitor of intracellular targets in ESKAPE pathogens
Aman Kumar Mahto, Mohammad Shahar Yar, Rikeshwer Prasad Dewangan (India)



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.151** Development of IgY antibodies against snake venom phospholipases A2 for neutralizing viper venom
Vasiliki Moulasioti, Evgenia Fotou, Thomas Daftsios, Ilias Strachinis, Vassilios Moussis, Dionyssios Sgouras, Vassilios Tsikaris (Greece)
- P2.152** Disrupting the RANK-TRAF6 interface: a novel approach for bone metastases treatment
Sofia Martins¹, Cátia Rosa¹, Marco Cavaco¹, Rita Melo¹, David Andreu², Javier Valle², Vera Neves¹, Miguel Castanho¹, João D. G. Correia¹ (¹Portugal, ²Spain)
- P2.153** Blocking the HVEM/LIGHT complex formation – a new strategy for the treatment of autoimmune diseases
Bartosz Bigielmajer¹, Piotr Ciura¹, Adam Sieradzan¹, Peter Steinberger², Anna Wardowska¹, Marta Spodzieja¹ (¹Poland, ²Austria)
- P2.154** Targeting MRGPRX2 with venom peptide P17: a therapeutic avenue for DSS-induced colitis
Karthi Duraisamy^{1,2}, Mukesh Kumar², Abdullah Nawabjan², Emily Lo², Ming Hui Lin², Benjamin Lefranc¹, Elsa Bonnafe¹, Michel Treilhou^{1,3}, Hani El-Nezami^{2,3}, Billy K C Chow², Jérôme Leprince¹ (¹France, ²Hong Kong, ³Finland)
- P2.155** Dual functionality of novel hepcidin genes in the gilthead seabream (*Sparus aurata*): iron regulation and antibacterial response
John Alberto Serna Duque, Laura Garcia Navarro, Claudia Marin Parra, Alberto Cuesta Peñafiel, Maria Angeles Esteban Abad (Spain)
- P2.156** Design and synthesis of peptide conjugates for developing anti-campylobacter jejuni IgY antibodies
Evgenia Fotou, Vasiliki Moulasioti, Elisavet Avramidou, Vassilios Moussis, Vasileios Tsiouris, Vassilios Tsikaris (Greece)
- P2.157** Design and synthesis of opioid-neurotensin hybrid peptidomimetics: analgesics with reduced side effect profiles
Jolien De Neve¹, Mohsen Hosseini¹, Santo Previti¹, Esau Vangeloven¹, Dirk Tourwe¹, Jean-Michel Longpré², Philippe Sarret², Steven Ballet¹ (¹Belgium, ²Canada)
- P2.158** Fight-TB: design of novel vaccine antigens to fight tuberculosis
Marina Sala, Giovanni Barra², Maria Carmina Scala, Pietro Campiglia, Rita Berisio, Alessia Ruggiero (Italy)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.159** Targeting glioblastoma with novel peptide-drug radiolabeled conjugate
Evgenia Fotou, Stavroula Kyrkou, George Alexiou, Athanasios Kyritsis, Savvas Thalasselis, Penelope Bouziotis, Vassilios Moussis, Andreas Tzakos (Greece)
- P2.160** Analyzing the toxicity mechanism of molecules targeting the amyloid peptide by NMR-pharmacometabolomics
Angelo Santoro, Michela Buonocore, Carmen Marino, Enza Napolitano, Manuela Grimaldi, Anna Maria D'Ursi (Italy)
- P2.161** Advances on the green synthesis of etelcalcetide
Koula Achilleos, Andreas Sergides, Styliana Mirallai, Charalambos Ioannou, Vicky Nicolaidou, Christos Petrou, Christakis Sergides, Yiannis Sarigiannis (Cyprus)
- P2.162** Designed peptides as nanomolar inhibitors of self- and cross-seeded amyloid self-assembly of alpha-synuclein
Simon Hornung, Denise Naltsas, Dominik Vogl, Beatrice Dalla Volta, Beatrice Marcon, Juergen Bernhagen, Aphrodite Kapurniotu (Germany)
- P2.163** Synthesis and characterization of the transmembrane domains of proteins from SARS-CoV-2 to identify novel druggable coronavirus targets
Timothy Reichart (USA)
- P2.164** Exploiting the features of short peptides to recognize specific cell surface markers
Michela Buonocore¹, Angelo Santoro¹, Enza Napolitano¹, Elena Ciaglia¹, Matteo Santin², Anna Maria D'Ursi¹ (¹Italy, ²United Kingdom)
- P2.166** Lasso grafted cyclic peptide inhibitors of coagulation proteases as novel therapeutic leads
Liam Calvey¹, Daniel Ford¹, Sarah Fry¹, Charlotte Frank¹, Toby Passioura¹, Jorge Rozada², Pedro Pereira², Hiroaki Suga³, Richard Payne¹ (¹Australia, ²Portugal, ³Japan)
- P2.167** Obtaining, optimizing, and evaluating the activity of anticancer LfcinB-derived peptides on in vitro models against melanoma
Karla Geraldine Rodriguez Mejia¹, Jose David Mendoza Mendoza¹, Javier García¹, Zuly Rivera¹, Joel Edmundo Lopez Meza², Ricardo Fierro¹ (¹Colombia, ²Mexico)
- P2.168** Development and optimization of a counterion exchange methodology for peptides with antibacterial activity
Amalia Giselle Lopez Sanchez, Kelin Johana Cuero, Ricardo Fierro, Zuly Rivera, Javier García (Colombia)



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.169** Design and characterization of a multistage peptide-based vaccine bis platform to target *Mycobacterium tuberculosis* infection
Chiara Bellini¹, Emil Vergara², Fruzsina Bencs¹, Szilvia Bósze¹, Denis Krivić³, Bernadett Bacsa³, Sára Eszter Surguta¹, József Tóvári¹, Rajko Reljic², Kata Horváti¹ (¹Hungary, ²United Kingdom, ³Austria)

EMERGING PEPTIDE-BASED TECHNOLOGIES - II

- P2.170** Redox, steady, go: unleashing the catalytic potential of cysteine-rich peptides
Patrizia Janković, Toni Todorovski, Daniela Kalafatovic (Croatia)
- P2.171** Engineering mRNA display for GPCR drug discovery - De novo discovery of cyclic peptide GLP1R binders
Esther Meron, Mads M. Nygaard, Martin R. Madsen, Ulrike Leurs, Mikkel Christensen-Dalsgaard, Morten Lundh, Joseph M. Rogers (Denmark)
- P2.172** Novel functionalized acylation reagents for Gly- and Lys-His tag acylation
Delphine Nørgaard Møller, Mikkel Thygesen, Kasper Sørensen, Knud Jensen (Denmark)
- P2.173** KLVFF peptide functionalization of graphene oxide as suitable A β biomarker detection platform
Rita Turnaturi, Giuseppina Sabatino, Giuseppe Di Natale, Giuseppe Nocito, Angela Scala, Viviana Scuderi, Simona Filice, Antonino Mazzaglia, Silvia Scalese, Giuseppe Pappalardo (Italy)
- P2.174** On-resin synthesis and modification of novel heterocyclic peptides
Ciaran McGrory, Eddie Myers (Ireland)
- P2.175** Use of green solid phase peptide synthesis to obtain tripeptide-83
Maria Carolina Oliveira De Arruda Brasil, Cleverson Rogerio Princival, Vinicius Kuchenbecker, Edson Katekawa, Wagner Vidal Magalhães, Eduardo Cilli (Brazil)
- P2.176** Affinity peptide extraction using small-molecule, thermoresponsive zwitterionic liquid materials
Yen-Ho Chu, Yu-Hsin Chung (Taiwan)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.177** WRAP-based nanoparticles for siRNA-cocktail delivery: the sound of silence
Irene Pezzati, Giulia Di Gregorio, Karidia Konate, Sandrine Faure, Pascal De Santa Barbara, Eric Vivès, Prisca Boisguérin, Sebastien Deshayes (France)
- P2.178** Optimization of pDNA delivery by WRAP cell-penetrating-peptide
Karidia Konate, Sebastien Deshayes, Eric Vivès, Sandrine Faure, Prisca Boisguérin, Pascal De Santa Barbara (France)
- P2.179** The arduous journey to expand the genetic code for in vitro translation of non-standard peptides
Alexis Richaud, Hiroaki Suga (Japan)
- P2.180** Application of coumarin-type chemiluminophore toward in vivo detection
Yukie Nohara, Keiko Taniguchi, Hiromi Ii, Shun Masuda, Hiroko Kawakami, Masakatsu Matsumoto, Susumu Nakata, Toshiyuki Sakai, Taku Yoshiya (Japan)
- P2.181** Development of novel automated solid phase peptide synthesizers ensuring economic, effective, scalable and green synthesis
Krisztina Kiss, Soma Ránk, László Molnár (Hungary)
- P2.182** Adhesion peptide-functionalized, biobased microgels precise pesticide delivery control
Abdulkadir Yayci, Felix Jakob, Alexander Boes, Andrij Pich, Tim Sassmann (Germany)
- P2.183** Discovery and characterization of a short peptide possessing a latent warhead undergoing intramolecular cyclization in the aqueous environment
Riku Katsuki, Taki Masumi (Japan)
- P2.184** mRNA selection of engineered ubiquitin that bind to MDM2
Gregoire Philippe, Hiroaki Suga (Japan)
- P2.185** Separation and detection of lead ions in environmental water using peptidyl beads
Shuhei Yoshida, Koki Yoshida, Takaaki Tsuruoka, Kenji Usui (Japan)
- P2.186** A fishing technology of glycated peptides
Francesca Nuti¹, Margherita Marino¹, Patrycja Ledwon^{1,2}, Rafal Latajka², Annunziata Lapolla¹, Michael Chorev³, Paolo Rovero¹, Anna Maria Papini¹ (¹Italy, ²Poland, ³USA)
- P2.187** Bicyclic peptides as melanocortin 3 receptor antagonists – Synthesis, biochemical profiling, and machine learning-guided optimization
Angelika Christensen, Morten Meldal, Kilian Conde-Frieboes², Christian A. Olsen (Denmark)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.188** Fully automated, programmable, solid-phase synthesis and modifications of peptides in a chemical processing unit
Jacopo Zero, Tristan Tyler, Leroy Cronin (United Kingdom)
- P2.189** Fabrication of nanopores composed of beta-sheet peptides
Fumihiro Kayamori, Kenji Usui, Takuto Kariya, Yoshio Hamada, Daisuke Sato, Zugui Peng, Izuru Kawamura, Ryuji Kawano (Japan)
- P2.190** The multifaceted usefulness of calcium-regulated affinity molecules
Malin Jönsson, Marit Möller, Julia Scheffel, Emma Larsson, Sara Kanje, Daniella Hamnqvist, Magnus Wolf-Watz2, Sophia Hober (Sweden)
- P2.191** Peptide-based coacervates as evolutionary roads of catalytic function
David Reis, Ana Sofia Pina Pina, Pedro Matos Pereira Pereira, Leonor Morgado Morgado (Portugal)
- P2.192** New supramolecular tools to advance pharmaceutical peptide/protein biotechnology
Severin Schneebeli, Kyle Colston, Kyle Faivre, Daijing Nie, Ke Xu, Brenson Jassim, Nils Balegamire, Zahraa Alawadly (USA)
- P2.193** High-throughput untargeted peptidome profiling reveals ischemic stroke-specific proteolysis changes in plasma
Andreas Zellner, Steffen Tiedt, Chien-Yun Lee (Germany)
- P2.194** Introducing a modular all-in-one platform for rapid peptide synthesis and purification
Robert Zitterbart, Stephan Lüdtkke, Dominik Sarma (Sweden)
- P2.195** Beyond peptides: unveiling the versatility of peptide synthesizers in the production of therapeutic oligonucleotides
Robert Zitterbart, Dominik Sarma (Sweden)
- P2.196** The first endocrine-disrupting chemical inhibiting a coactivator peptide's binding
Masaki Iwamoto, Takahiro Masuya, Kota Aramaki, Ayami Matsushima (Japan)
- P2.196** Efficient synthesis of three-helix bundle proteins using ligase-mediated bis trimerization of HIV-1 fusion inhibitor T20 on a dendrimer scaffold
Xiaohong Zhang, Yiyin Xia, Chuan-Fa Liu and James P. Tam (Singapore)
- P2.196** Broaden the applications of peptidyl asparaginyl ligases
ter Xia Yiyin, Hongxia Li, Jiayong Liu, James P. Tam and Liu Chuan-Fa (Singapore)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

PEPTIDE CONJUGATES (SUGAR, LIPID, NUCLEIC ACID, AND DRUG) - II

- P2.197** PYY peptides and Fc-PYY conjugates selectively agonise Y2R
Elise Bernard¹, Siobhan O'Brien¹, Nicole Burmeister¹, Jacqueline Naylor¹,
Stephanie Oldham², Arthur Suckow², Hamid Salari², Maria A. Bednarek¹
(¹United Kingdom, ²USA)
- P2.198** Tuning immune cell biology with macrocyclic glycopeptides
Ryoji Yoshisada, Nadia van der Meijs, Sandra van Vliet, Seino Jongkees
(Netherlands)
- P2.199** Stability of neuropeptide Y receptor 2 agonists in biological fluids
Ronny Müller, Eva-Maria Jülke, Annette G. Beck-Sickinger (Germany)
- P2.200** Pipeline for development of acylated peptide based CGRP receptor antagonist with extended half-life for migraine treatment
Jens Bjelke Kristensen, Lisbeth Elster, Morten Lundh, Martin Krømer,
Ditte Jensen, Ulrike Leurs, Jens Christian Nielsen, Henrik H. Hansen, Niels Vrang, Jacob Jelsing, Matilda Degn, Kristian A. Haanes (Denmark)
- P2.201** Peptide-conjugates derived from bacterial ParE toxin: synthesis and biological studies
José Gregorio Martín Bedoya, Naiara Maia Pereira, Reinaldo Marchetto (Brazil)
- P2.202** Identification and characterization of small molecule NOD2 activators
Liora Wittle, Karl Ocious (USA)
- P2.203** Influence of hydrophobic moieties on the formation and stability of collagen heterotrimers
Maša Stopinšek, Valdrin Islami, Giuseppe Antoniazzi, Philipp Bittner,
Renato Zenobi, Helma Wennemers (Switzerland)
- P2.204** New leishmanicidal compounds via bioconjugation of a cell penetrating peptide and guanidine
João Victor Marcelino de Souza, Natália Caroline Silva Costa, Luana Ribeiro dos Anjos, Maria Carolina Oliveira De Arruda Brasil, Eduardo Rene Perez Gonzales, Marcia A.S. Graminha, Eduardo Cilli (Brazil)
- P2.205** Peptides as homing devices in drug conjugates
Waldemar Meiser¹, Abiodun Ayo², Pirjo Laakkonen², Norbert Sewald¹
(¹Germany, ²Finland)
- P2.206** Targeting Zika virus reservoirs in mice brain with peptide-porphyrin conjugates
Christine Cruz-Oliveira¹, Diogo Alexandre de Mendonça¹, Lorena O. Fernandes-Siqueira², Toni Todorovski³, Ana S. Silva-Herdade¹, Daniel Gavino-Leopoldino², Beatriz Vieira-da-Silva¹, Tiago Santos¹, António Camarão¹, Javier Valle³, Iris Cadima-Couto¹, Vera Neves¹, Ana Salomé Veiga¹, Iranaiá Assunção-Miranda², Andrea Thompson Da Poian², David Andreu³, Miguel Castanho¹ (¹Portugal, ²Brazil, ³Spain)



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.207 Exploring novel peptide-based natural products as a payload for the generation of antibody and peptide-assisted targeted cancer therapy**
Chan¹, Mak Sarwar¹, Jeanine Giarolla Vargas², João Vitor da Silva², Margaret Brimble¹, Iman Kavianinia¹ (¹New Zealand, ²Brazil)
- P2.208 Bispecific DNA-peptide conjugates for targeting cancer cells**
Pritam Ghosh, Huyen Dinh, Oliver Seitz (Germany)
- P2.209 Memantine and adamantine KLVFF conjugates: synthesis, A β interaction and effects on recognition memory in mice**
Giuseppe Pappalardo, Eleonora Bocchieri, Stefania Zimbone, Maria Laura Giuffrida, Giuseppe Di Natale, Giuseppina Sabatino, Graziella Vecchio, Santina Chiechio (Italy)
- P2.210 SNAr reactions with cysteine - Click-reactions for bioconjugations**
Niklas Henrik Fisher, Sergei Nikitin, Morten Meldal, Frederik Diness (Denmark)
- P2.211 Glycopeptides as synthetic antigenic probes for MOG antibody-associated disease**
Silvia Bracci¹, Feliciano Real-Fernandez¹, Christine Patte-Mensah², Christian Klein², Nicolas Collongues², Paolo Rovero¹, Anna Maria Papini¹ (¹Italy, ²France)
- P2.212 Designing self-assembling lipopeptide for tissue regeneration**
Dhriti Santosh Shenoy¹, Lauren Roberts², Michela Pesenti¹, Stefania Crespi¹, Sara Pellegrino¹ (¹Italy, ²France)
- P2.213 Optimizing biological activity of lactoferricin-derived peptides: conjugation with non-peptidic motifs as a strategy**
Daniel Castellar, Zuly Rivera, Javier García, Ricardo Fierro (Colombia)
- P2.215 Introducing novel titanium binding peptides; effect of the sequence of amino acids on their adsorption energy to TiO₂**
Roja Rahmani, Alexander P Lyubartsev (Sweden)
- P2.216 Peptides conjugated to sugars as therapeutics for ebola and cancer disease**
Fayna Garcia-Martin, Oscar Suarez, J. Héctor Busto, Jesús Manuel Peregrina, Francisco Corzana (Spain)
- P2.217 Synthetic strategies to prepare novel bioactive lysine and peptide conjugates with triazolium derivatives**
Claudia Bello¹, Michał Jewginski², Patrycja Ledwon^{1,2}, Francesca Nuti¹, Paolo Rovero¹, Rafal Latajka², Anna Maria Papini¹ (¹Italy, ²Poland)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.218** Vancomycin polycationic peptide conjugate with improved antimicrobial activity and pharmacokinetics
Eric Mühlberg, Sabrina Wohlfart, Tyra Christian, Florian Umstätter, Tobias Hertlein, Knut Ohlsen, Stefan Zimmermann, Walter Mier, Philipp Uhl (Germany)
- P2.219** Obtaining peptide-resorcinarene conjugates by michael thiol-maleimide addition reaction and evaluation of their antibacterial potential
Victor Alfonso Niño Ramirez, Mauricio Maldonado, Zuly Rivera, Javier García (Colombia)
- P2.220** Application of thiosemicarbazone-peptide conjugates as inhibitor of NDM-1
Michał Jewgński, Waldemar Goldeman, Rafal Latajka (Poland)

PEPTIDE PRODRUGS, TARGETING, DELIVERY AND UPTAKE - II

- P2.221** RGD peptide naphthalimide conjugates for drug delivery and imaging therapy
Laura Ramirez Lazaro¹, Isabel Abánades Lázaro², Harlei Martin¹, Thorfinnur Gunnlaugsson¹, Eoin Scanlan¹ (¹Ireland, ²Spain)
- P2.222** Influence of aza-glycine substitution on the internalization of penetratin
Karima Tarchoun¹, Dóra Soltész¹, Viktor Farkas¹, Ho-Jin Lee¹, Ildikó Szabó², Zoltán Bánóczy¹ (¹Hungary, ²USA)
- P2.223** Molecular design for cytosolic delivery of antibodies using an intracellular delivery peptide
Yoshimasa Kawaguchi, Shiroh Futaki (Japan)
- P2.224** Synthesis and characterization of nucleolin receptor recognizing F3 peptide fragment–drug conjugates
Bettina Basa, Diána Vári-Mező, Kata Nóra Enyedi, József Tóvári, Szilvia Bősze, Krisztina Kiss, Gábor Mező (Hungary)
- P2.225** Leuprorelin peptide drug complexes with permeability enhancers to increase bioavailability
Deborah Shalev, Adel Penhasi (Israel)
- P2.226** Design and synthesis of peptide binders for methicillin resistance *Staphylococcus aureus* bacteria detection
Yaara Zandany (Israel)
- P2.227** Exploring nasal application of peptides for the modulation of food intake
Eva-Maria Jülke, Benginur Özbay, Kerstin Immig, Karin Mörl, Ingo Bechmann, Annette G. Beck-Sickinger (Germany)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.228** Phosphopeptides as improved bone targeting agents
Jamous Mazen, Barbara Roether, Walter Mier, Haberkorn Uwe (Germany)
- P2.229** Novel cyclotide POP modulator as a research tool for synucleinopathy therapeutics
Maria Ramón, Christian W. Gruber, Roland Hellinger (Austria)
- P2.230** Activatable multivalent cell-penetrating peptide conjugates for selective drug delivery
Nicolas Lindholm, Moritz List, Maik Tretbar, Annette G. Beck-Sickinger (Germany)
- P2.231** Site-specific conjugation of cell-penetrating peptides: a strategy to ameliorate antibody therapy
Niklas van den Bergh, Verena Merke, Sabrina Wohlfart, Philipp Uhl, Walter Mier (Germany)
- P2.232** Novel prodrugs of HIV-1 protease inhibitor with an N-amidinoglycine moiety
Yoshio Hamada, Kenji Usui (Japan)
- P2.233** Exploring the versatile nature of dehydropeptides self-assembly: cellular interaction studies
André Carvalho¹, Meihui Yi², Weiyi Tan², José A. Martins¹, Paula M. Ferreira¹, Bing Xu² (¹Portugal, ²USA)
- P2.234** Peroxisome targeting with fluorescent cell penetrating peptides
Christine Krofta, Sven Thoms, Norbert Sewald (Germany)
- P2.235** Surface peptide-modified black phosphorus nanosheets: a novel multifunctional nanoadjuvant
Tianyang Wang, Wen-Hao Li, Xuefeng Yu, Yan-Mei Li (China)
- P2.236** Non-ionic surfactants for the solubilisation of lipopeptides and enhancement of their biological activity
Kata Horváti, Ágnes Ábrahám, Gergő Gyulai, Judith Mihály, Andrea Horváth, Orsolya Dobay, Éva Kiss (Hungary)
- P2.238** Nanobody CDR3 loop peptidomimetic improves binding on living *Acinetobacter baumannii*
Kevin Van Holsbeeck, Breine Anke, Charlotte Martin, Mannes Morgane, Pardon Els, Steyaert Jan, Remaut Han, Van der Henst Charles, Steven Ballet (Belgium)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.239** High throughput analysis of molecule accumulation in mammalian cells
Sobika Bhandari, George Ongwael (USA)
- P2.240** Electrostatically modulated peptide-based drug delivery against resistant cancer
Yvonne Christian, Vibin Ramakrishnan (India)
- P2.241** Novel viral peptide-based tandemized carriers: structure prediction and in vitro evaluation
Katalin Uray¹, Martin Krátký², Jiří Horčic², Levente Lakatos¹, Előd Méhes¹, Bálint Jezsó¹, Jarmila Vinšová², Szilvia Bősze¹ (¹Hungary, ²Czech Republic)
- P2.242** Small additive molecules to enhance the effective accessibility of delivered nucleic acid by cell-penetrating peptide
Geeta Arya, Ly Porosk, Chigozie Nkwocha, Margus Pooga (Estonia)
- P2.243** Tailoring theranostics to target gliomas
Andreas Tzacos, Stavroula Kyrkou, Vasileios-Panagiotis Bistas, Murugan Chinnarasua, Vassilios Moussis, George Alexiou (Greece)
- P2.244** Fluorogenic cell surface labelling using fluorescent molecular rotor-labelled peptide-boronic acid conjugates as viscosity sensors
Alen Koçak, Pritam Ghosh, Oliver Seitz (Germany)
- P2.245** Mechanism of antibacterial action of nisin Z-loaded solid lipid nanoparticles
Poonam Ratrey, Shayon Bhattacharya, Damien Thompson, Sarah Hudson (Ireland)
- P2.246** New computational insight into the mechanism of oral peptide drug formulations
Kyle Colston, Severin Schneebeli (USA)

PEPTIDE MIMETICS, PEPTOIDS AND PEPTIDE NUCLEIC ACIDS - II

- P2.247** Synthesis and application of β -amino γ -lactams in the study of interleukin 1 receptor modulating peptides
Charity D. Yongo-Luwawa, Zoé Villeneuve, William Lubell, Sylvain Chemo (Canada)
- P2.248** Targeting transcription factor – coactivator interactions using binding motif mimetics
Zsofia Hegedus, Mark Tresztian, Vencel László Petrovicz, Istvan Pasztuhov, Tamás Martinek (Hungary)
- P2.249** Aza-tryptophan versus aza-isotryptophan in peptide chemistry
Xiaozheng Wei, William Lubell (Canada)



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.250** Development of cyclopropane-based foldamers mimicking protein secondary structures
Makoto Nagata, Nanase Ochiai, Megumi Watanabe, Koh Takeuchi, Satoshi Shuto, Mizuki Watanabe (*Japan*)
- P2.252** Light-fueled peptidic foldamers: from chemical evolution to protein surface mapping
Eva Bartus, Attila Tököli, Edit Weber, Péter Péter Ábrányi-Balogh, Ferenc Bogár, Dóra Karancsiné Menyhárd, Márton Gadancz, András Perczel, György Keserü, Tamás Martinek (*Hungary*)
- P2.253** Gq protein peptidomimetics as allosteric modulators of the ghrelin receptor
Mannes Morgane¹, Esaü Vangeloven¹, Charlotte Martin¹, Marjorie Damian², Sonia Cantel², Jean-Alain Fehrentz², Julie Kniazeff², Jean-Louis Baneres², Steven Ballet¹ (¹Belgium; ²France)
- P2.255** A reductive amination approach for the synthesis of catalytic peptide foldamers
Matteo Pollastrini, Alessandro Moretto (*Italy*)
- P2.256** Amide-to-alkene substitution for overcoming intramolecular acyl transfer challenges in peptides
Tetsuo Narumi, Daichi Toyama, Chihiro Iio, Kohei Sato, Nobuyuki Mase, Kentaro Takayama (*Japan*)
- P2.257** PNA-based probes for DARPin-mediated pretargeting of malignant tumors
Kristina Westerlund, Maryam Oroujeni, Alexander van Deventer, Zhengyue Wang, Jacob Clinton, Anna Orlova, Vladimir Tolmachev, Amelie Eriksson Karlström (*Sweden*)
- P2.258** Rational design of novel peptidomimetics against influenza A virus: biological and computational studies
Maria Carmina Scala, Mariangela Agamennone, Magda Marchetti, Fabiana Superti, Pietro Campiglia, Marina Sala (*Italy*)
- P2.259** Development of peptide nucleic acids-based molecules targeting non-canonical nucleic acids structures
Matilde Rossi, Paola Gratteri, Anna Maria Papini, Carla Bazzicalupi (*Italy*)
- P2.260** Macrocyclic mimetics of suppressor of cytokine signaling 1 (SOCS1)
Alessia Cugudda, Sara La Manna, Daniele Florio, Daniela Marasco (*Italy*)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.261** Optimization of a promising inhibitor of TMPRSS2 as a an early treatment option againts COVID-19
Alice Gravel-Trudeau, Antoine Désilets, Pierre-Luc Boudreault, Richard Leduc, Gary R. Whittaker, Hector Aguilar-Carreno, Francois Jean (Canada)
- P2.262** Modulation of the antagonistic properties of an insulin mimetic peptide by disulfide bridge modifications
Marta Lubos, Jan Pícha, Irena Selicharová, Jiří Žák, Lenka Žáková, Jiří Jiráček (Czech Republic)
- P2.263** Combinatorial libraries of bipodal insulin receptor binders
Irena Selicharová, Marta Lubos, Jiří Jiráček (Czech Republic)
- P2.264** Designed EVH1 inhibitors derived from synthetic diproline mimetics rigidified in a polyproline type II helix conformation
Felix Bluem, H.-G. Schmalz (Germany)
- P2.265** Optimizing the automated synthesis of peptide nucleic acids
Luísa Aguiar, Robert Zitterbart, Manoj Kumar Muthyala, Stephan Lüdtkke (Sweden)

PROTEOMICS AND PEPTIDE BIOINFORMATICS - II

- P2.266** Artificial intelligence-driven design of β -secretase 1 inhibitors
Marko Njirjak, Daniela Kalafatovic, Goran Mauša (Croatia)
- P2.267** Application of deep learning imputation to peptide bioactivity and property prediction
Samar Mahmoud¹, Himani Tandon, Matthew Segall¹, Ruibo Zhang², Robert Thompson¹, Jeffrey Schubert², Dip¹annita Kalyani², Dan Sindhikara² (¹United Kingdom, ²USA)
- P2.268** PICKAPEP – Visualization and calculation of peptidomimetics made easy
Vanessa Erckes, Clemens Isert, Mattis Hilleke, Christian Steuer (Switzerland)
- P2.270** Mapping peptide interactomes using an organic energy transfer photocatalyst
Leander Crocker, Judith Muechler, Jan Vincent Arafles, Christian Stieger, Christian P.R. Hackenberger (Germany)
- P2.271** Interpretable machine learning-based models for the rational design of antibacterial peptides against *Escherichia coli* and *Staphylococcus aureus*
Remmer Salas, Portia Mahal Sabido, Ricky Nellas (Philippines)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

P2.274 Metalloproteins investigation for the development of new inhibitors

Matteo Orlandi, Marina Macchiagodena, Piero Procacci, Fabrizio Carta, Claudiu T. Supuran, Marco Pagliai (Italy)

P2.275 Deep learning for peptide classification: from data to effective models

Goran Mauša (Croatia)

P2.276 Scoring the synthesizability of any novel non-natural amino acid

Gökçe Geylan, Mikhail Kabeshov, Samuel Genheden, Thierry Kogej, Ola Engkvist, Leonardo De Maria (Sweden)

STRUCTURAL STUDIES OF PEPTIDES - II

P2.277 Chemoenzymatic synthesis of protein pseudo-[2]rotaxane

Elodie Soehrlen, Vladimir Torbeev, Judit Osz, Natacha Rochel-Guiberteau (France)

P2.278 Characterization of beta-turns in peptides by electronic circular dichroism spectroscopy: a joint theoretical and experimental study

Sébastien Menant, Vincent Tognetti, Mattia Migliore, Andrea Bonvicini, Laurent Joubert, Laure Guilhaudis, Hassan Oulyadi, Isabelle Milazzo (France)

P2.279 Mechanistic and structural insights into the inhibition of FXIIIa: design of novel anticoagulants

Ivan P. Bogdanov¹, Arijit Biswas², Diana Imhof², Nikolay T. Tzvetkov¹ (¹Bulgaria, ²Germany)

P2.280 Can large scale structural modeling be applied to peptide screening and deorphanization?

Pierre Tufféry, Shaima Hashem, Jérôme Leprince (France)

P2.281 Impact of backbone N-amination on parallel β -sheet stability

Syrah Starnes, Juan Del Valle (USA)

2.282 Amyloid formation control: how GLP-1 analog polypeptide hormones form reversible functional amyloids

András Perczel, Horváth Dániel, Dürvanger Zsolt, Szabaszián Szaniszló, Viktor Farkas (Hungary)

P2.283 How do disulfide, thioacetal and lanthionine-bridges influence the conformations of macrocyclic peptides?

Billy Darling¹, Lianne Wieske², Declan Cook¹, Abil Aliev¹, Laurent Caron¹, Emily Humphrys¹, Angelo Mendes Pinto De Figueiredo², Flemming Hansen¹, Mate Erdelyi², Alethea Tabor¹ (¹United Kingdom, ²Sweden)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- 2.284** Characterizing bradykinin-derived membrane-sensing peptides through molecular dynamics
Carlo Guardiani, Alberto Giacomello (*Italy*)
- P2.285** Effect of antifreeze activity and lipid interaction of tryptophan scanning of 11-residue lysine homopeptide
Roberto Rojas¹, Mónica Aróstica¹, Constanza Cardenas¹, Fernando Albericio², Felipe Aguilar¹, Fanny Guzman¹ (¹Chile, ²Spain)
- P2.286** Structural ensemble of peptide-induced membrane poration by heterogeneous magainin peptides
Bing Zan^{1,2}, Jakob Ulmschneider-Mayer², Martin Ulmschneider¹ (¹United Kingdom, ²China)
- P2.287** In-silico application of structure prediction to peptide mechanism of action
Isaac Tucker^{1,2}, Glenn King¹, Natalie Saez¹, Evelyne Deplazes¹, Lachlan Rash¹, Ben Cristofori-Armstrong¹, Elena Budusan¹ (¹Australia, ²USA)
- P2.288** Helical peptides bearing dual triplet-spin/fluorescent labels enable the first parallel distance measurements by electron spin resonance and Förster resonance energy transfer
Marta De Zotti¹, Arnau Bertran², Chiara Dalla Torre¹, Jack Sawyer², Derren Heyes², Sam Hay², Christiane Timmel², Marilena Di Valentin¹, Alice Bowen² (¹Italy, ²United Kingdom)
- P2.289** Antiparallel β -double helices from α,γ -hybrid peptides
Puneeth Kumar D R¹, Gijo George², Uddipan Bhattacharya², Gopi Hosahudya N.² (¹Germany, ²India)
- P2.290** Aromatic-aromatic interactions as an intrinsic modulator of amyloid formation
Artem Pavlov, Beate Kokschi (*Germany*)
- P2.291** Structure-activity relationship study of β -hairpin peptides
Aparna Palakkurussi Rathessan, Suvrat Chowdhary, Johannes Kupke, Marcus Fulde, Beate Kokschi (*Germany*)
- P2.292** Novel insights from point mutations of the most amyloidogenic region of Nucleophosmin 1
Daniele Florio, Alessia Cugudda, Sara La Manna, Daniela Marasco (*Italy*)
- P2.293** Mechanistic studies of the lipid bilayer interactions of the cyclic lipodepsipeptide tolaasin
Benjámín Kovács¹, Tünde Juhász¹, Niels Geudens², Jose Martins², Tamas Beke-Somfai¹ (¹Hungary, ²Belgium)



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.294** Molecular dynamics insights into AT1 receptor variants: towards the design of potent biased agonists
Malihe Hassanzadeh, Audrey Collette, Brian Holleran, Stéphane Laporte, Richard Leduc, Pierre-Luc Boudreault (Canada)
- P2.295** Structural analysis of a peptide-based simplified model reproducing SARS-CoV-2 S RBD/ACE2 binding site
Michela Buonocore, Rosanna Lucignano, Angelo Santoro, Anna Maria D'Ursi, Delia Picone (Italy)
- P2.296** Planar aggregation of the influenza viral fusion peptide alters membrane structure and promotes poration
Richard Pastor, Amy Rice, Paul Blank, Joshua Zimmerberg (USA)
- P2.297** Elucidating structural determinants of Hexokinase interaction with the VDAC mitochondrial channel using an N-terminal minireporter peptide
Michael Timme¹, Sebastian Bieker¹, Nils Woge¹, Dina Hassan¹, Chelsea Brown², Ladislav Bartos³, Robert Vácha³, Siewert J. Marrink², Joost C. M. Holthuis¹, Manuel N. Melo⁴ (¹Germany, ²Netherlands, ³Czech Republic, ⁴Portugal)
- P2.298** Unlocking HIV's secrets: synthesis of histone H3K36Me3 to investigate LEDGF protein binding to modified nucleosomes using cryo-electron microscopy
Ramesh Chingle, Samanthreddy Kedika, Tao Jing, Dmitry Lyumkis, Terrence Burke Jr. (USA)
- P2.299** Structural studies of chameleonic cyclic peptides with drug delivery applications
K. Johan Rosengren (Australia)
- P2.300** Elucidating the role of phosphoserines in Tau protein by combined computational and synthetic methods
Martina Tuberti, Fintan Kelleher, Gemma K. Kinsella (Ireland)
- P2.301** Theoretical and biological studies of oxytocin containing conformationally fixed analogue of Tyrosine Tic(OH) [7-Tetrahydroisoquinoline carboxylic acid]
Michael Lebl, Jakub Kaminský, Jiří Jiráček (Czech Republic)
- P2.302** Application 19F and paramagnetic resonance enhanced NMR measurements for structural analysis of the equine herpesvirus in DPC micelle
Natalia Karska, Sylwia Rodziewicz-Motowidło, Igor Zhukov (Poland)

POSTER SESSION 2 - 28 AND 29 AUGUST 2024

PEPTIDE MATERIALS - II

- P2.303** *Staphylococcus aureus* functional amyloids catalyze degradation of β -lactam antibiotics
Elad Arad¹, Kasper B. Pedersen², Orit Malka¹, Sisira Mambram Kunnath¹, Nirmod Golan¹, Polina Aibinder¹, Birgit Schiøtt², Maytal Landau³, Raz Jelinek¹ (¹Israel, ²Denmark, ³Germany)
- P2.304** Tailor-made catalytic peptides for antibiotics degradation
Sisira Mambram Kunnath, Elad Arad, Raz Jelinek (Israel)
- P2.305** Can we improve coarse-grained simulations of peptide self-assembly and aggregation by cluster analysis inputs?
Marko Babić, Daniela Kalafatovic (Croatia)
- P2.306** Design and exploration of tubular assemblies of hybrid cyclic peptides
Souvik Panda Mahapatra (India)
- P2.307** Antimicrobial and cell-adhesive peptide-based hydrogels for biomedical applications
Nabila Mehwish, Patricia López-Gómez, Maria Pau Ginebra, Carles Mas Moruno (Spain)
- P2.308** Light-mediated oxidation of cysteine derivatives for crosslinking proteinaceous materials
Matthew Murray, Eddie Myers (Ireland)
- P2.309** De novo design of collagen-like peptides for cell-based technologies
Maryana Baran¹, Eileen Gentleman^{1,2}, Maxim Ryadnov¹ (¹United Kingdom, ²Switzerland)
- P2.310** Self-assembling dipeptides as vehicles for the delivery of peptide therapeutics
Anastassia Rissanou, Anna Mitraki, Peter Divanach, Eirini Fanouraki, Vagelis Harmandaris (Greece)
- P2.311** Unveiling the potential of a novel synthetic peptide DPI and its nanoconjugates for biomedical applications
Avneet Saini (India)
- P2.312** A biomolecular learning system from complex peptide networks
Kübra Kaygisiz, Maithreyi Ramakrishnan, Rein V. Ulijn (USA)



POSTER SESSION 2 - 28 AND 29 AUGUST 2024

- P2.313** Can RADA16-I hybrids be utilized for culturing cells participating in skeletal muscle reconstruction?
Maria Dzierżyńska, Martyna Fularczyk, Justyna Sawicka, Zuzanna Michalska, Anna Ostaszewska, Kacper Bielak, Izabela Kulig, Agnieszka Morawska, Justyna Morytz, Edyta Brzóska-Wójtowicz, Karolina Archacka, Iwona Grabowska-Kowalik, Małorzata Zimowska-Wypych, Maria Ciemerych-Litwinienko, Sylwia Rodziewicz-Motowidło (Poland)
- P2.314** Self-assembly of histidine-containing peptides and applications
Chrysanthi Pinelopi Apostolidou, Chrysoula Kokotidou, Varvara Platania, Vasilis Nikolaou, Georgios Landrou, Emmanouil Nikoloudakis, Georgios Charalambidis, Maria Chatzinikolaidou, Athanassios G. Coutsolelos, Anna Mitraki (Greece)
- P2.315** Tuning the assembly of proteins and peptides in lipid bilayers
Sebastian Jimenez Millan, Ivan Sasselli, Armando Maestro (Spain)
- P2.316** Search for cell adhesion beta-sheet peptides using molecular descriptors and statistical analysis of data from thioflavin T assay and CD measurements
Taisei Terao, Tomohiro Umetani, Akira Takekawa, Fumihiro Kayamori, Kenji Usui (Japan)
- P2.317** Design, synthesis, and microscopic analysis of amphiphilic peptide biomaterials
Bapan Pramanik (United Kingdom)
- P2.318** Design of fluorinated peptide-based hydrogels for sustained drug release
Aurélie Honfroy^{1,2}, Jolien Bertouille¹, Thibault Cauwenbergh¹, Ana-Maria Turea¹, Nathalie Lensen², Sophie Hernot¹, Grégory Chaume², Thierry Brigaud², Steven Ballet¹, Charlotte Martin¹ (¹Belgium, ²France)
- P2.319** Single glycans shape viscoelastic and biological properties of a mucin-inspired peptide hydrogel
Jonas Proksch, Marlene Dal Colle, Frederick Heinz, Robert F. Schmidt, Jacqueline Gottwald, Stephan Block, Martina Delbianco, Bettina G. Keller, Michael Gradzielski, Ulrike Alexiev, Beate Kokschi (Germany)
- P2.320** Self-assembly and antimicrobial activity of lipopeptides containing lysine-rich tripeptides
Ian Hamley, Valeria Castelletto, Anindyasundar Adak (United Kingdom)

ACKNOWLEDGEMENTS

Special thanks to our Sponsors

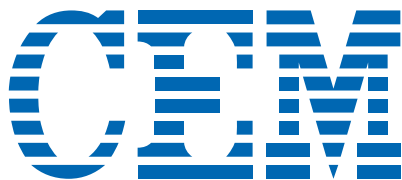
GOLD SPONSORS



aapptec

advanced automated peptide protein technologies

AAPPtec is the one source for high quality peptide products and the materials and innovative equipment utilized in the synthesis, purification and isolation of peptides. AAPPtec provides custom peptides for research and industry globally, from research to bulk production. Our knowledgeable chemists, who have over 20 years combined experience in preparing high quality peptides, utilize the latest methodologies to produce high purity peptides rapidly and efficiently. In addition, we provide innovative automated and semi-automated synthesizers worldwide for research and industrial scale production. We also sell online over 8500 top quality resins, reagents and amino acid derivatives, including pseudoproline dipeptides, isoacyl dipeptides, PEGylation reagents, glyco-amino acids, PNA monomers and products for stapled peptides. Other products include HPLC systems, HPLC columns, -80C Freeze Dryers, all to be utilized for the synthesis, purification and isolating high quality peptides and related targets like PNA's, DNA's Oligopeptides, Carbohydrates, etc. AAPPtec products increase chemists' productivity, reduce project time and increase the chances of success.



CEM Corporation is a leader in the field of peptide synthesis, specializing in automated synthesis instrumentation, novel methodology development, and SPPS specialty chemicals. CEM's latest developments include ultra-efficient synthetic methodology and peptide-tailored purification solutions, meeting industry-wide needs for cGMP production, library synthesis, and scale-up (up to 1 kg) capabilities. Stop by our booth to learn more.



Biotage[®]

Biotage is the Global Go-To Separations Company, supporting customers from drug discovery and development through to diagnostics and analytical testing with intelligent and sustainable workflow solutions. Our expertise and top-tier separation solutions play a key role in streamlining our customers' workflows and improving their outcomes.

GYROS PROTEIN
Technologies

Gyros Protein Technologies provides peptide synthesis and bioanalytical solutions that enable scientists to increase biomolecule performance and productivity in research, drug discovery, pre-clinical and clinical development, and bioprocess applications. Our low to mid-scale peptide synthesizer platforms are the PurePep[®] Chorus, Symphony[®] X, and PurePep[®] Sonata[®] +. Combined with the PurePep[®] EasyClean technology for orthogonal and parallel purification, we enable uncompromising purity, flexibility, and quality for discovery and pre-clinical studies of simple to complex multifunctional peptides. Proprietary high-performance nanoliter-scale immunoassay platforms, Gyrolab[®] xPand, Gyrolab[®] xP workstation, and Gyrolab xPlore[™], are used by scientists in leading pharmaceutical, biotech, CRO, and CMO companies for bioanalytical applications such as pharmacokinetics/pharmacodynamics, immunogenicity, and quantitating bioprocess-related impurities. Our peptide synthesis and bioanalytical solutions accelerate your discovery, development, and manufacturing of safer biotherapeutics. Gyros Protein Technologies is part of the Biopharmaceutical Division of Mesa Laboratories, Inc. (Nasdaq:MLAB).



WuXi TIDES, a unique Contract Research and Development Manufacturing Organization (CRDMO) platform, is an integral part of WuXi AppTec. WuXi TIDES offers our worldwide partners efficient, flexible, and high-quality solutions for the drug development of oligonucleotides, peptides and related synthetic conjugates ("TIDES" drugs). We greatly simplify the TIDES drug development by providing all discovery, CMC development and the entire manufacturing supply chain under one roof.



25 - 29 August 2024
Florence, Italy

Satellite Workshops 30 - 31 August 2024



ACKNOWLEDGEMENTS

Special thanks to our Sponsors

BRONZE SPONSORS

BACHEM



SPONSORS

ANASPEC



EXHIBITORS



MEDIA PARTNER

Journal of
PeptideScience

