



WORKSHOP 1

Applications of computational AI/ML in peptide research with a roadmap to peptide drug and material development.

FRIDAY 30 August 2024	
10:00 - 12:00	ML approaches
	<p>Moderators: Emel Adaligil, Genentec and Ewa Lis, Koliber Bio</p> <p>Ved Srivastava, Perpetual Medicines <i>Roadmap to peptide drug development in AI Era</i></p> <p>Ewa Lis, Koliber Bio <i>Introduction to Machine Learning</i></p> <p>Goran Mauša, University of Rijeka <i>Breaking misconceptions in applying machine learning to peptides materials</i></p> <p>Hirokazu Tamamura, Tokyo University <i>Development of anti-HIV agents targeting HIV-Gag proteins using in silico screening</i></p>
12:00 - 13:30	Lunch
13:30 - 15:30	Practical session
	<p>Marko Njirjak and Erik Otovic, University of Rijeka <i>Overcoming antibiotic resistance: a machine learning pipeline for antimicrobial peptide discovery</i></p>
15:30 - 16:00	Coffee Break
16:00 - 18:00	Demo / practical session
	<p>Tatjana Braun and João Rodrigues, Schrödinger <i>Peptide and Macrocyclic Design using Schrödinger's Computational Modeling Platform</i></p>

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SATURDAY 31 August 2024

MD / structure-based approaches	
09:00 - 10:30	<p>Moderators: YuShan Lin, Tufts University and Marco Pagliai, University of Florence</p> <p>YuShan Lin, Tufts University <i>Molecular Dynamics intro and talk</i></p> <p>Sereina Riniker, ETH Zurich <i>Structure-based design</i></p>
10:30 - 11:00	Coffee Break
11:00 - 11:30	<p>Leonardo de Maria, Astra Zeneca <i>Generative models for peptide therapeutic optimization</i></p> <p>Marko Babic, University of Rijeka <i>Effects of cluster analysis inputs for peptide self-assembly and aggregation simulations.</i></p>
11.30 - 12.00	Close of workshop

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WORKSHOP 2


Embracing innovation and sustainability in peptide synthesis

FRIDAY 30 August 2024	
10:00 - 11:15	<p>Wendy Hartsock, AralezBio <i>Opening</i></p> <p>Fernando Albericio, University of KwaZulu-Natal <i>A History of Peptide Synthesis Part 1</i></p> <p>Stephen Kent, University of Chicago <i>A History of Peptide Synthesis Part 2</i></p> <p>Timothy Reichart, Hampden-Sydney College <i>Group Discussion</i></p>
11:15 - 11:50	<p>Innovation in Synthesis</p> <p>Jonathan Collins, CEM <i>Challenging the Norms of Peptide Synthesis</i></p> <p>Timothy Reichart, Hampden-Sydney College <i>Folding-assisted ligation</i></p> <p>Timothy Reichart, Hampden-Sydney College <i>Group Discussion</i></p>
12:00 - 13:30	Lunch
13:30 - 14:20	<p>Sweet Science: Glycans in peptide science</p> <p>Mattan Hurevich, The Hebrew University of Jerusalem <i>Glycan and peptide synthesis: differences, parallels and crossover of ideas</i></p> <p>Baptiste Aussedat, Chemitope Glycopeptide <i>Building Bridges: The Intersection of Peptide and Glycan Chemistry in Glycopeptide Innovation</i></p> <p>Timothy Reichart, Hampden-Sydney College <i>Group Discussion</i></p>
14:35 - 15:25	<p>Sustainability in Peptide Science Part 1</p> <p>Luísa Aguiar and Robert Zitterbart, Gyros Protein Technologies <i>Green innovation on trial: How to improve the ecological impact of your peptide synthesis today</i></p> <p>Timothy Reichart, Hampden-Sydney College <i>Group Discussion</i></p>

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15:30 - 16:00	Coffee Break
16:00 - 16:20	<p>Lars Holmberg and Lukasz Frankiewicz, PeptiSystems <i>Flowthrough SPPS with integrated PAT – sustainable technology to reduce PMI and make smart process decisions</i></p> <p>Timothy Reichart, Hampden-Sydney College <i>Group Discussion</i></p>
16.30 - 18:00	<p>Fernando Albericio, University of KwaZulu-Natal <i>1st Panel Replacing reagents in SPPS (DMF, Fmoc, TFA, DCM); replacing SPPS?</i></p>

SATURDAY 31 August 2024

Spotlight on LPPS	
9:00 - 9:25	<p>Wendy Hartsock, AralezBio Opening</p> <p>Markus Löweneck, Senn Chemicals AG <i>Advantages and strategies for successful implementation of LPPS</i></p> <p>Wendy Hartsock, AralezBio <i>Group Discussion</i></p>
Sustainability in Peptide Science Part 2	
09:30 - 10.20	<p>Stephen Kent, University of Chicago <i>Fundamental Aspects of SPPS and Native Chemical Ligation for Efficient Peptide Synthesis</i></p> <p>William Lubell, Université de Montréal <i>N- to C-Peptide Synthesis is Arguably the Future for Sustainable Production</i></p> <p>Wendy Hartsock, AralezBio <i>Group Discussion</i></p>
10:30 - 11.00	Coffee Break
Innovations in Peptide Science Part 2	
11:00 - 11:20	<p>Philip Dawson, Scripps Research Institute <i>Chemical manipulation of immobilized macromolecules</i></p> <p>Wendy Hartsock, AralezBio <i>Group Discussion</i></p>
	<p>Stephen Kent, University of Chicago 2nd Panel The future of the solid support. What will replace ChemMatrix?</p>
11:30 - 12:30	<p>Stephen Kent, University of Chicago <i>Challenges from the audience</i></p> <p>Wendy Hartsock, AralezBio Close of Day 2</p>

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WORKSHOP 3

Navigating entrepreneurship and technology transfer in peptide discovery and development

FRIDAY 30 August 2024	
10:00 - 10:15	Opening Giorgia Giovannetti , University of Florence Ines Neundorf , University of Cologne
10:15 - 12:00	Marco Pierini , Maria Raffaella Martina and Fosca Errante , University of Florence Bernadett Simon , University of Cologne <i>Technology Transfer strategies in the University of Cologne and University of Florence. Insight on peptide discovery and development.</i>
12:00 - 13:30	Lunch
13:30 - 14:00	Stefano Pegoraro , Bachem <i>Market Intelligence in the era of anti-obesity peptide therapeutics - A CDMO perspective</i>
14:00 - 14:30	Charlotte Ungerth , RELIFE <i>Definisse Key Peptide 1 - a true breakthrough innovation in anti-ageing treatments</i>
14:30 - 15:00	Ved Srivastava , Perpetual Medicines <i>Peptide-Drugs for Metabolic Disease: From Innovation to Market</i>
15:00 - 15:30	Aphrodite Kapurniotu , TU Munich and Jürgen Bernhagen , LMU Munich <i>Peptide drugs for cardiovascular diseases</i>
15:30 - 16:00	Coffee Break
16:00 - 16:30	Stefania Colarusso , IRBM <i>Our journey as peptide drug hunters at IRBM</i>
16:30 - 17:00	Ikuo Fujii , Osaka Metropolitan University <i>Post-antibody drugs: Generation of a novel class of drug modalities based on molecular-targeting helix-loop-helix (HLH) peptides</i>
17:00 - 17:30	Meritxell Teixido , Gate2Brain <i>Gate2Brain entrepreneurial journey towards patients</i>
17:30 - 18:00	Michael Chorev , Mellitus LLC <i>Challenges in developing a novel diagnostic test for diabetes based on CD59 as a disease relevant biomarker</i>

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SATURDAY 31 August 2024

9:00 - 9:30	Rina Aharoni , Weizmann Institute of Science <i>The story of the peptide-copolymer Glatiramer Acetate (Copaxone) in the treatment of multiple sclerosis: from Bench to Bed side</i>
9:30 - 10:00	István Mándity , Semmelweis University & HUN-REN Research Centre for Natural Sciences <i>Success and pitfalls in drug research in academia</i>
10:00 - 10:30	Richard Moakes , Birmingham University <i>Novel anti-scarring eye drops: a view from bench to bedside</i>
10:30 - 11:00	Coffee Break
11:00 - 12:30	Round Table discussion István Mándity, Aphrodite Kapurniotu, Jürgen Bernhagen
12:30	Closing remarks and end of workshop

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