

PROGRAMME
of 25th Polish Peptide Symposium



Sunday, 8th September

- 14⁰⁰ – 20⁰⁰ Registration
19⁰⁰ – 23⁰⁰ Wellcome party

Monday, 9th September

- 9⁰⁰ – 9¹⁵ Opening ceremony

Session I 9¹⁵ – 11¹⁰

Peptides as diagnostic tools

Chairmen: Krzysztof Rolka, Zbigniew Szewczuk

- 9¹⁵ – 10⁰⁰ **Michael Chorev**
Bringing a Disease Relevant Biomarker from the Bench to the Bedside –Glycated CD59
- 10⁰⁰ – 10⁴⁵ **Anna Maria Papini**
The Chicken or Egg dilemma: are antibodies to aberrantly modified conformational peptide epitopes in autoimmunity reminiscent of early infections?
- 10⁴⁵ – 11¹⁰ **Pawel Szymański**
The importance of protein in radiopharmacy
- 11¹⁰ – 11³⁰ Coffee break

Session II 11³⁰ – 13⁰⁵

Peptides in biomedical research

Chairmen: Anna Maria Papini, Pawel Kafarski

- 11³⁰ – 11⁵⁵ **Wojciech Bal**
Complexes of N-Truncated A β Peptides: In Search of Biological Function
- 11⁵⁵ – 12¹⁵ **Maciej Jaśkiewicz**
Antimicrobial studies of Omiganan and its retro analog
- 12¹⁵ – 12⁴⁰ **Timo Burster**
FAM-conjugated MARS116 can be applied to detect intracellular cathepsin G activity
- 12⁴⁰ – 13⁰⁵ **Mariusz Skwarczyński**
Development of Peptide-based Vaccines against *Necator americanus* and *Schistosoma mansoni*
- 13⁰⁵ – 15⁰⁰ Lunch

Session III
15⁰⁰ – 16²⁵

Theoretical Calculations in peptide studies
Chairmen: Paweł Szymański, Stanisław Oldziej

15⁰⁰ – 15⁴⁵

Dariusz Matosiuk

Molecular modelling and graphics in elucidation of the structure and properties of peptides as drug targets

15⁴⁵ – 16⁰⁵

Piotr Lipiński

How do the opioid peptides bind the μ -opioid receptor? Insights from molecular modelling.

16⁰⁵ – 16²⁵

Natalia Gruba

Characteristics of ADAM10 by combinatorial chemistry methods

16²⁵ – 16⁴⁵

Coffee break

Session IV
16⁴⁵ – 18⁰⁰

The new approach to metal-peptide interactions
Chairmen: Adam Lesner, Piotr Stefanowicz

16⁴⁵ – 17¹⁰

Zyta Ziara

Metallo-Glycopeptides: Improvement of Antibiotics Biopotency

17¹⁰ – 17³⁵

Mauro Carraro

Interactions of proteins and peptides with polyoxometalates

17³⁵ – 18⁰⁰

Paweł Stalica

Shimadzu's peptide research solutions

18⁰⁰ – 19⁰⁰

Poster session I – even numbers

19³⁰ – 24⁰⁰

Barbeque

Tuesday, 10th September

Session V
9⁰⁰ – 10¹⁰

Structure and activity of peptide
Chairmen: Aleksandra Misicka-Kęsik, Michael Chorev

9⁰⁰ – 9⁴⁵

Henryk Kozłowski

Unexpected behavior of amyloidogenic proteins in the membrane environment

9⁴⁵ – 10¹⁰

Aneta Szymańska

Dangerous (or not so) liaisons of human cystatin C with copper ions

10¹⁰ – 10²⁵

Break

10 ²⁵ – 10 ⁵⁰	Rafał Latajka Antifreezing glycopeptides (AFGP) – structure and properties
10 ⁵⁰ – 11 ¹⁵	Stanisław Oldziej Searching for peptidic polyphosphate hydrolysis catalyst
11 ¹⁵ – 11 ³⁵	Łukasz Berlicki Structure and catalytic activity of de novo designed mini-proteins
11 ³⁵ – 12 ⁰⁵	Coffee break
Session VI 12⁰⁵ – 13²⁵	<i>Foldamers</i> <i>Chairmen: Paula Gomes, Piotr Rekowski</i>
12 ⁰⁵ – 12 ²⁵	Karolina Pułka-Ziach Guanidinium unit as a new motif in oligourea foldamers backbone
12 ²⁵ – 12 ⁴⁵	Michał Jewgiński Covalent binding of oligoamide foldamers to the surface of protein as a tool for designing molecular probes
12 ⁴⁵ – 13 ⁰⁵	István Mándity Development of a packed bed reactor for the synthesis of peptides and foldamers: a revolutionary reduction of the amino acid excess
13 ⁰⁵ – 13 ²⁵	Stepan Podzimek Light Scattering for Peptide Studies
13 ²⁵ – 15 ³⁰	Lunch break
15 ³⁰ – 19 ⁰⁰	Excursion
19 ⁰⁰ – 21 ⁰⁰	Surprising/Traditional Dinner

Wednesday, 11th September

Session VII 9⁰⁰ – 10⁵⁵	<i>Peptides synthesis and analysis I</i> <i>Chairmen: Paolo Rovero, Rafał Latajka</i>
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9 ⁰⁰ – 9 ¹⁰	Sylvia Rodziewicz-Motowidło In Memoriam of Professor Bogdan Przemysław Liberek (1926-2018)
9 ¹⁰ – 9 ⁵⁵	Norbert Sewald Late-stage diversification of peptides by transition metal-catalyzed cross-coupling

- 9⁵⁵ – 10¹⁵ **Zbigniew Kamiński**
Enantioselective coupling reagents for predictable results of peptide synthesis from racemic amino-acids
- 10¹⁵ – 10³⁵ **Remigiusz Bąchor**
Monitoring of substrate specificity and activity of caspases using peptide modified by quaternary ammonium group as ionization enhancers
- 10³⁵ – 10⁵⁵ **Monika Kijewska**
The novel Boronic-ChemMatrix Resin to selectively fish out deoxyfructosylated peptides

10⁵⁵ – 11²⁵ Coffee break

Session VIII
11²⁵ – 13¹⁵

Peptides synthesis and analysis II
Chairmen: Beata Kolesińska, Norbert Sewald

- 11²⁵ – 12⁰⁰ **Adam Lesner**
Design and synthesis of chemical tools to control inflammation
- 12⁰⁰ – 12²⁵ **Piotr Stefanowicz**
The studies on high-pressure synthesis of lasso-peptides
- 12²⁵ – 12⁴⁵ **Antonio Mazzoleni**
N-glucosylated peptide conjugates: toward the personalized treatment of multiple sclerosis
- 12⁴⁵ – 13⁰⁵ **Alicja Kluczyk**
The efficiency of LC-ESI-MS separation of podocin fragment analogs: the consequences of phase selection
- 13⁰⁵ – 15⁰⁰ Lunch

Session IX
15⁰⁰ – 17³⁰

Peptides in dermatology and cosmetology
Chairmen: Sylwia Rodziewicz-Motowidło, Henryk Kozłowski

- 15⁰⁰ – 15⁴⁵ **Paolo Rovero**
Serpine A1 peptides as collagen turnover modulators: a cosmeceutical approach
- 15⁴⁵ – 16¹⁰ **Beata Kolesińska**
Peptides supporting the reconstruction of extracellular matrix (ECM) and the cytoskeleton components
- 16¹⁰ – 16²⁵ Coffee break
- 16²⁵ – 17¹⁰ **Paula Gomes**
Tailoring antimicrobial peptides to tackle medical device-associated infections and/or chronically infected wounds

17 ¹⁰ – 17 ³⁰	Maria Dzierżyńska Release systems for regenerative medicine based on self assembling RADA16-I peptides
17 ³⁰ – 18 ³⁰	Poster session II – odd numbers
20 ⁰⁰	Banquet

Thursday, 12th September

Session X
9³⁰ – 10⁴⁰

Peptides as potential drugs
Young Scientists Presentations (YSP)
Chairmen: Aneta Szymańska, Dariusz Matosiuk

9 ³⁰ – 9 ⁵⁰	Justyna Piekielna-Ciesielska Opioid/substance P peptide hybrids – a perspective for better analgesics
9 ⁵⁰ – 10 ¹⁰	Aleksandra Hawrylkiewicz (YSP) Chemical synthesis of peptide conjugates containing chlorambucil and tumor targeting peptide
10 ¹⁰ – 10 ²⁵	Joanna Waśko Studies on interactions of Human Serum Albumin with hot spots and peptidic inhibitors of insulin and amylin aggregation
10 ²⁵ – 10 ⁴⁰	Valeria Tagliavini (YSP) Functionalization of polyoxometalates with bombesin-analogue peptides
10 ⁴⁰ – 10 ⁵⁰	Andrew Kennedy Strategies for Efficient, Optimized High Throughput Solid Phase Peptide Synthesis of Challenging Peptides
10 ⁵⁰ – 11 ¹⁰	Closing ceremony
11 ¹⁰ – 13 ⁰⁰	Lunch/check out