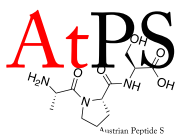


# Preliminary Program

## 9<sup>th</sup> Austrian Peptide Symposium

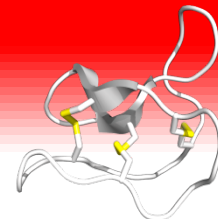
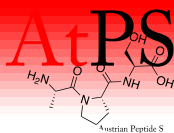
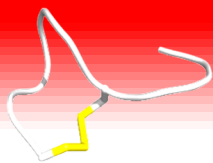


5<sup>th</sup> of December 2019  
 Van Swieten Saal  
 (Van-Swieten-Gasse 1a, 1090 Vienna)



- 8:00 – 9:00**      **Registration and mounting of posters** (Foyer and Van Swieten Saal)
- 9:00 – 10:30**    **Session 1: Peptide Tools**  
 Chair: Christian Becker (University of Vienna)
- 9:00 – 9:30**      **Dorothea Fiedler (FMP Berlin, Germany)**  
 Inositol pyrophosphate signaling revealed with chemical tools
- 9:30 – 10:00**    **Markus Seeger (University of Zurich, Switzerland)**  
 Flycodes and NestLink – a barcoding peptide library designed for optimal detection by mass spectrometry facilitates novel types of antibody selections
- 10:00 – 10:30**   **Andreas Bernkop-Schnürch (University of Innsbruck, Austria)**  
 Oral delivery of peptide drugs: Hurdles, challenges and future trends
- 10:30 – 11:00**   **Coffee Break** (Van Swieten Saal)
- 11:00 – 12:00**   **Session 2: Protein Synthesis and Structure**  
 Chair: Christian Gruber (Medical University of Vienna)
- 11:00 – 11:20**   **Eric Schrader (Bachem AG, Switzerland)**  
 Fluorescently-Labeled Peptides – Choosing the Best Dye and Designing the Best Peptide
- 11:20 – 11:50**   **Jeff Bode (ETH Zürich, Switzerland)**  
 Tailor made proteins by synthesis and conjugation
- 11:50 – 12:20**   **Mario Schubert (University of Salzburg, Austria)**  
 Identification of protein modifications by NMR spectroscopy
- 12:20**            **Group Photo**
- 12:25 – 13:00**   **Lunch Break**  
 Lunch buffet - Van Swieten Saal
- 13:00 – 14:15**   **Poster Session and Industry Presentations** (Foyer)





**14:15 – 15:45**

### **Session 3: Hot Topics in Peptide Science - Oral Contributions Selected from Submitted Abstracts**

Chair: Markus Muttenthaler (University of Vienna)

**14:15 – 14:30**

**Friedrich Bialas** (University of Vienna, Austria)

Membrane protein encapsulation using silica-precipitating beta-strand peptides

**14:30 – 14:45**

**Susanne Brunner** (Paracelsus Medical University Salzburg, Austria)

Intranasal application of a lanthionine-stabilized galanin receptor 2 agonist

**14:45 – 15:00**

**Edin Muratspahic** (Medical University of Vienna, Austria)

Are cyclotides a secret recipe for the treatment of pain?

**15:00 – 15:15**

**Ratmir Derda** (University of Alberta, Canada)

Genetically-Encoded Technology in Chemical Biology in Drug Lead Discovery

**15:15 – 15:30**

**Thomas Kremismayr** (University of Vienna, Austria)

Exploring natural scaffolds to engineer gut-stable peptide ligands

**15:30 – 15:45**

**Lisa Schindler** (University of Regensburg, Germany)

Metabolically stabilized neurotensin(8-13) derivatives: 68Ga-labeling via carbamoylated arginines gives NTS1R PET ligands with high receptor affinity

**15:45 – 16:15**

**Coffee Break** (Van Swieten Saal)

**16:15 – 18:00**

### **Session 4: Chromatin Structure and Bioanalytics**

Chair: Chiara Cabrele (University of Salzburg)

**16:15 – 16:45**

**Champak Chatterjee** (University of Washington, USA)

Clarifying the complexity of chromatin regulation with peptide chemistry

**16:45 – 17:15**

**Beat Fierz** (EPFL, Lausanne, Switzerland)

A synthetic and single-molecule exploration of the dynamic chromatin landscape

**17:15 – 17:35**

**Monika Swiontek** (CEM GmbH):

An improved green one-pot process for Fmoc SPPS

**17:35 – 17:55**

**Ante Mrkonjic** (Bruker Daltonics):

TimsTOFpro - Digging into the 4<sup>th</sup> dimension

**17:55 – 18:00**

**Poster Prizes and Closing Remarks**

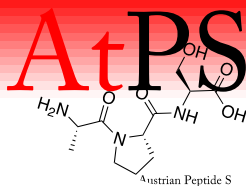
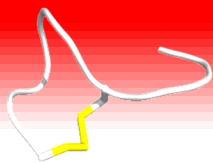
**18:00 – 22:00**

**Dinner and Get Together** (incl. wine tasting with Michaela Jöbstl, Langenlois)

Buffet dinner provided

The meeting is held under the auspices  
of the European Peptide Society  
We would like to thank our sponsors for this event:





## Poster Presentations

### 1. Adam Konieczny, University of Regensburg

N-terminus to side-chain cyclization of linear peptidic neuropeptide Y Y4 receptor ligands results in picomolar receptor affinities

### 2. Roland Hellinger, Medical University of Vienna

A structure activity study for the antiproliferative peptide T20K

### 3. Jannis Beutel, Friedrich-Alexander Universität Erlangen-Nürnberg

Stability analysis of a heterodimeric E3/K3 coiled coil

### 4. Christof Mitterer, PharmaFluidics, Belgium

Micro Pillar Array Columns ( $\mu$ PAC<sup>TM</sup>): A novel robust chromatography platform for deep and reproducible proteome Coverage

### 5. Bernhard Retzl, Medical University of Vienna

Isolation and characterization of a knotted trypsin inhibitor from beetroot

### 6. Iraj Behroz, Technical University of Berlin

Extensive Structure-Activity Relationship Study of Albicidin's C-Terminal Dipeptidic p-Aminobenzoic Acid Moiety

### 7. Kirtikumar B. Jadhav, University of Vienna

Recombinant and chemical synthesis of hTFF2 protein: Status and prospects"

### 8. Claudia Cobos Caceres, University of Vienna

Development of Peptides as Potential Drug Leads for the Treatment of Inflammatory Bowel Diseases

### 9. Leopold Dürbauer, University of Vienna

18-Arachnotocin – a biased ligand to study beta-arrestin-2 function at the human vasopressin V2 receptor

### 10. Xabier Guarrochena, Ludwig Boltzmann Institute Applied Diagnostics, Vienna

Enhancing the Metabolic Stability of Peptide-Based Radiotracers by Amide-to-Triazole Substitutions

### 11. Jasmin Gattringer, Medical University of Vienna

Discovery of nature-derived oxytocin and vasopressin peptides

### 12. Carolina Giammei, Ludwig Boltzmann Institute Applied Diagnostics, Vienna

Glycated [99mTc]Tc-Labeled Bombesin Conjugate for Improved Pharmacokinetics in Tumor Diagnosis

### 13. Kay Hommernick, Leonardo Kleebauer, Technical University of Berlin

Structure optimization of Albicidin, a new antibacterial lead structure

### 14. Estelle Juere, University of Vienna

Toward oral delivery of insulin using protein-based formulation of porous silica nanoparticles

### 15. Nedra Jouini, Ludwig Boltzmann Institute Applied Diagnostics, Vienna

Unexpected Fragmentation of an Oligopeptide Containing N-Methylated Amino Acids

### 16. Caroline Knittel, Technical University of Berlin

Enantioselective synthesis of the non-proteinogenic amino acid (3R,4R)-L-4,5-dihydroxyisoleucine

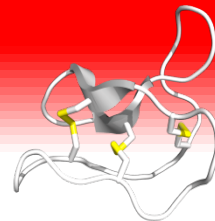
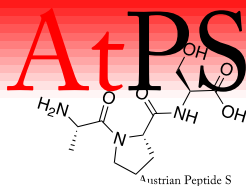
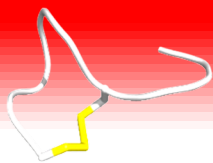
### 17. Roman Lichtenecker, University of Vienna

New aspects and applications of protein isotope labeling

### 18. Arthur Hinterholzer, University of Salzburg

Detection and quantification of post translational modifications in biopharmaceuticals with NMR-spectroscopy





## Poster Presentations

### 19. Lukas Kerul, University of Vienna

Synthesis of Granulocyte Colony-Stimulating Factor

### 20. Lisa-Maria Recnik, Ludwig Boltzmann Institute of Applied Diagnostics, Vienna

A Brief Summary of Triazolo-peptides as Stabilised Radiotracers

### 21. Mary-Ann Siegert, Technical University of Berlin

Enantioselective synthesis of the amino acid L-6-hydroxytryptophan

### 22. Vesna Stanojlovic, University of Salzburg

Application of beta-hairpin scaffolds for the development of agonists of bone morphogenic protein 2

### 23. Maximilian Schrems, University of Vienna

A photocleavable linker for peptide solubilization or drug delivery

### 24. Thomas Schlatzer, Technical University of Graz

Site-Selective Bioconjugation via Palladium-Mediated Allylation of Cysteine

### 25. Olalla Vazquez, University of Marburg

Photoswitchable Peptides as Tools for Controlling Epigenetic States

### 26. Julia Kriegesmann, University of Vienna

Pd-mediated modification of cysteine-containing peptides and proteins

### 27. Somnath Mukherjee, University of Vienna

Impact of site-specific non-enzymatic posttranslational modification on the structure-activity attributes of human Heat Shock Protein 27 (Hsp27)

### 28. Daniela Reichinger, University of Vienna

Silica encapsulated RRIL peptide-antigen conjugates as vaccine delivery vehicles"

### 29. Alanca Schmid, University of Vienna

Synthesis of Homogeneously Glycosylated Soluble Fas Ligand Variants

### 30. Dominik Vogl, University of Vienna

Zooming in on the Central Repeat Domain of Tau4 by Protein Semisynthesis

### 31. Colin Dunsmore, Almac Sciences, UK

Solid Phase Peptide Synthesis of Full Length Modified Histones

### 32. Andrew Kennedy, GyrosProtein Technologies

Fast Solid Phase Peptide Synthesis Method Development for the Synthesis of Sterically hindered Peptides

### 33. Edin Muratspahic, Medical University of Vienna

Are cyclotides a secret recipe for the treatment of pain?

### 34. Abhishek Iyer, EnzyTag

Peptilgase, a versatile enzyme for peptide and protein synthesis

