16th German Peptide Symposium Jena

Address: Friedrich Schiller University, Central Campus, Ernst-Abbe-Platz 3, ***Hörsaal 2***

Conference bureau and exhibition area are located in the foyer, in front of the lecture hall

All information available until Aug 23, 12:00h is included in this program.

Program Day 1 (Aug 28, 2023)

Time	
12:00-13:30h	*Arrival, registration, coffee*
13:30h	**Prof. Dr. Hans-Dieter Arndt, FSU Jena** *Official opening of the conference*
13:35h	**Prof. Dr. Georg Pohnert, vice president for research, FSU Jena** *Welcome address*
13:40-13:55h	**em. Prof. Dr. Siegmund Reißmann, FSU Jena** *Peptide Science in Germany: From Emil Fischer & Theodor Curtius to the Recent Generation*
	short break
14:00h-14:55h	**Plenary Lecture: Prof. Dr. Hiroaki Suga, U Tokyo** *De novo discovery of pseudo-natural peptides, products, and beyond*
	short break
	Topic Area 1: Peptides and Organisms (Chair: Hans-Dieter Arndt, FSU Jena)
15:00h-15:40h	**Keynote Lecture: Prof. Dr. Helena Safavi, U Utah** *Venom-inspired design of novel insulin therapeutics*
15:40-16:00h	**Prof. Dr. Oliver Zerbe, U Zurich** *Peptidomimetic Antibiotics Disrupt the Lipopolysaccharide Transport Bridge of Drug-Resistant Enterobacteriaceae*
16:00-16:20h	**Prof. Dr. Pierre Stallforth, FSU Jena** *Natural Products From Interacting Microorganisms and Ancient Microbiomes*
16:20-16:40h	*Coffee, refreshments*
16:40-17:00h	**Prof. Dr. Florian Seebeck, U Basel** *Methyltransferases as emerging tools in the synthesis of complex biomolecules*
17:00-17:20h	**Prof. Dr. Markus Kaiser, U Duisburg-Essen** *The anti-tubercular callyaerins target the membrane protein Rv2113 in M. tuberculosis*
17:20-18:00h	**Keynote Lecture: Prof. Dr. Helge Bode, MPI-TM, Marburg** *Peptide production in high-throughput via engineering of non-ribosomal peptide synthetases*
18:00h	*Short talk 1:* **Dr. Christian Behn, CEM GmbH, Kamplintfort**
18:05h	*Short talk 2:* **M. Sc. Silan Toy, GAU Göttingen**
18:10h	*Short talk 3:* **M. Sc. Lucas Weissenborn, FAU Erlangen-Nürnberg**
18:15h	*Short talk 4:* **Prof. Dr. Stefan Schuster, FSU Jena**
18:20h	*Short talk 5:* **M. Sc. Nina Schmidt, PU Marburg**
18:25h	*Short talk 6:* **Dr. Markus Lakemeyer, FSU Jena**
18:30-20:00h	**Poster Session A (with refreshments)**
from 20:00h	*Barbecue (directly at the Campus, in front of lecture hall)*

16th German Peptide Symposium Program, Day 2 (Aug 29, 2023)

Time	
8:15h	*Gettogether, registration, coffee*
	Topic Area 2: Design and Methods (Chair: Olalla Vázquez, PU Marburg)
8:40-9:20h	**Keynote Lecture: Prof. Dr. Oliver Seitz, HU Berlin** *Native Chemical Ligation Chemistry for the Synthesis of Multiglyco- and -phosphopeptides*
9:20-9:40h	**Dr. Wolfgang Rapp, Rapp Polymere GmbH, Tübingen** *Circumventing peptide aggregation in SPPS: high swelling vs standard resins. A comparison*
9:40-10:00h	**Prof. Dr. Thorsten Steinmetzer, PU Marburg** *Structure-based design, synthesis, and characterization of macrocyclic plasmin inhibitors*
10:00-10:20h	**Prof. Dr. Sereina Riniker, ETH Zurich** *What computer simulations can tell about structure-permeability relations of cyclic peptides*
10:20-10:40h	*Coffee, refreshments*
10:40-11:00h	**Prof. Dr. Armin Geyer, PU Marburg** *Natural and designed peptides with extra side-chain functional groups*
11:00-11:20h	**Prof. Dr. Jörg Rademann, FU Berlin** *Pentafluorophosphates: Amphiphilic Biomimetics of Phosphopeptides and Phosphoproteins?*
11:20-11:40h	**Dr. Peter 't Hart, MPI-MP, Dortmund** *Photochemical late-stage functionalization of peptides on solid phase*
11:40-12:20h	**Keynote Lecture: Prof. Dr. Juan Granja, U Santiago de Compostela** *Light-induced dynamic cyclic peptide nanotubes*
12:20-13:40h	*Lunch break (individually)*
	Topic Area 3: Structure and Function (Chair: Ute Hellmich, FSU Jena)
13:40-14:20h	**Keynote Lecture: Prof. Dr. Stefan Raunser, MPI-MP, Dortmund** *In situ structures of muscle sarcomere and sarcomeric proteins*
14:20-14:40h	**Prof. Dr. Ines Neundorf, U Cologne** *Tailoring membrane-active peptides to exert their efficacy at the right spot*
14:40-15:00h	**Dr. Daniel Tietze, U Gothenburg** *Substrate-Derived Sortase A Inhibitors: Targeting Antimicrobial Resistance*
15:00-15:20h	*Coffee, refreshments*
15:20-15:40h	**LIFE guest lecture: Prof. Dr. Arun Shukla, IIT Kanpur** *Structural and functional insights into complement receptor activation and signaling by peptide agonists*
15:40-16:00h	**Jun. Prof. Dr. Franziska Thomas, RKU Heidelberg** *Design of organophosphate-binding mini-proteins from WW domains*
16:00-16:40h	**Keynote lecture: Prof. Dr. Markus Weingarth, U Utrecht** *The Mechanisms of Lipid-targeting Antibiotics*
16:40h	*Short talk 7:* **Dr. Robert Zitterbart, Gyros Protein Technologies, Berlin**
16:45h	*Short talk 8:* **Dr. Marta Barniol-Xicota, PFU Barcelona**
16:50h	*Short talk 9:* **M. Sc. Truc Lam Pham, RKU Heidelberg**
16:55h	*Short talk 10:* **M. Sc. Van Tuan Trinh, PU Marburg**
17:00h	*Short talk 11:* **Dr. Tam Dang, TU Berlin**
17:05h	*Short talk 12:* **Dr. Erik Strandberg, KIT, Karlsruhe**
	Short break
17:15-18:15h	**LIFE Panel Discussion (Chair: Markus Lakemeyer, FSU Jena)**
18:15-19:15h	**Poster Session B (with refreshments)**
19:20h	*Transfer to Busbahnhof (5 min walk eastbound)*
19:30h	*Bus departure at Busbahnhof to Fuchsturm ("Weimar Tours")*
20:00h	*Conference Dinner (Fuchsturm, Jena; 5 min walk from/to bus parking!)*
22:30, 23:00h	*Bus return to Jena Busbahnhof (return times: 22:45, 23:15)*

16th German Peptide Symposium Program, Day 3 (Aug 30, 2023)

Time	
8:30h	*Gettogether, registration, coffee*
	Topic Area 4: Drugs and Biomedicine (Chair: Nicole Biber, Wuppertal)
9:00-9:40h	**Keynote lecture: Prof. Dr. Luc Brunsveld, TU Eindhoven** *Stabilization of Protein-Protein Interactions; from chemical biology to drug discovery*
9:40-10:00h	**Ms. Lena Stillger, UASM Gießen** *Screening of Novel Antimicrobial Peptides as a New Strategy against Anaerobic Biocorrosive Bacteria and their Biofilm*
10:00-10:20h	**Prof. Dr. Diana Imhof, U Bonn** *COVID-19 and heme-driven pathologies: Combining peptide-based studies with bioinformatics*
10:20-10:40h	**Dr. Nils Vrang, Gubra, Kopenhagen** *StreaMLine: Rethinking peptide drug discovery*
10:40-11:00h	*Coffee, refreshments*
11:00-11:20h	**Dr. Phillip Ochtrop, Tubulis GmbH, Planegg** *Unsaturated Phosphonamidate Electrophiles as Versatile Reagents for the Construction of Next Generation Cancer Therapeutics*
11:20-11:40h	**Ms. Eva-Maria Jülke, U Leipzig** *Uptake of peptide therapeutics after nasal application in a nasal mucosa model system*
11:40-12:00h	**Dr. Cornelia Koy, U Rostock** *Mass Spectrometric ITEM-TWO Investigations and Bio-Computational Analyses of Phosphorylation-Dependent Antibody Binding to Cancer-Mutated Linkers of Zinc Fingers*
12:00-12:40h	**Keynote Lecture: Prof. Dr. Akane Kawamura, U Newcastle** *Peptide probes for studying epigenetic proteins*
12:40-13:00h	**Poster Awards & Farewell (Chair: Hans-Dieter Arndt, FSU Jena)**
13:00h	*Lunch and departure (individually)*

The 16th German Peptide Symposium is supported by (as of August 23, 2023):

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16th German Peptide Symposium Poster Program

Presentation of uneven numbered Posters: Session A - Even Numbered Posters: Session B

*Short Talk on Monday; **Short Talk on Tuesday

No.	Author and Poster Title
1	**Divine-Wisdom Adewumi, Leipzig University** *Bioinformatically-sourced Antimicrobial Peptide for Recombinant Expression in a Yeast-based System*
2	**Marvin Albers, Vrije Universiteit Amsterdam** *Environment-Responsive Peptide Dimers Bind and Stabilize Double-Stranded RNA*
3	**Dr. Sewar Alkhashrom, Friedrich Alexander University (FAU) Erlangen-Nürnberg** *Molecular characterization and modulation of the HCMV core NEC as a novel antiviral drug target*
4	*withdrawn*
5	**Dr. Maria Julia Amundarain, Bielefeld University** *Cis/Trans isomerization of proline in model tripeptides fragments from α-2 gliadin*
6	**Yuko Bando, Friedrich Schiller University Jena** *Synthesis and Biological Profiling of a Focused Orfamide A Library in the Green Alga Chlamydomonas r.*
**7	**Dr. Marta Barniol-Xicota, Pompeu Fabra University, Barcelona** *Selective Substrate Identification Using Chemically Modified Phage Display*
8	**Carmen Bäuerlein, Philipps University Marburg** *Synthesis and Structure of Fusahexin*
9	**Friederike Biermann, Goethe-University Frankfurt** *Peptides with Ambiguous Molecular Shapes: Atropo-Selective Biosynthesis of a New Family of Complex Peptide Natural Products*
10	**Ingo Bork, TU Darmstadt** *Generation of orthogonal bifunctional linker peptides for the site- and spatioselective coupling of biomolecules to cellulose based papers*
11	**Inna Brod, Bielefeld University** *Synthesis and analysis of quinoxaline-based, photoswitchable DNA bisintercalators*
12	**Laura Brüchle, Heidelberg University** *Self-Assembling Peptides Decorated with pi-Expanded Electron Donors*
13	**Steffen Anton Busche, Humboldt University of Berlin** *Peptide-based Organocatalysts on Stage: Ligating Peptides onto Porous Materials by Tetrazine/Norbornene-Chemistry*
14	**Laura Cerveson, Bielefeld University** *Late-stage alkylation of Trp and Phe derivatives by transition-metal catalyzed cross-couplings*
15	**Jen-Yao Chang, Max Planck Institute of Molecular Physiology, Dortmund** *Targeting lncRNA-WDR5 interactions by mimicking a protein-WDR5 interaction*
16	**Sveva Colombo, Bielefeld University** *Novel folate receptor-targeted prodrugs of thiolate histone deacetylase inhibitors*
17	**Marcos Rafael Conde Gonzalez, Heidelberg University** *Metal-binding β-hairpin sandwiches with nitrite reductase activity*
18	**Elena Rebecca Cotroneo, Göttingen University** *Light Mediated Ca^{2+}-Induced Self-Assembly of Peptide Helices*
19	**Emilia Cupioli, Friedrich Schiller University Jena** *Templated Total Synthesis of Cu(I)-Methanobactin OB3b*
**20	**Dr. Tam Dang, Technische Universität Berlin** *Resistance and target of aminopolyol peptide antibiotic paenilamicin*
21	**William Darling, University College London** *Structural Analysis of Non-Reducible Cyclic Peptides: Insights into Ring Expansion and Contraction*
22	**Shitanshu Devrani, University of Gothenburg** *Title t.b.a.*

23	**Dr. Toni Kühl, University of Bonn** *Edman sequencing as a relaunched tool for the elucidation of the connectivity in multiple disulfide-bonded peptides*
24	**Romy Feldmann, Leibniz-Hans-Knöll-Institute, Jena** *Characterization of the Elusive Structure of a Clostridial Chemical Mediator*
25	**Javiel Fernandez Marrero, Leibniz Institute of Plant Biochemistry, Halle** *Synthesis and characterization of potential cytotoxic peptide candidates for cancer immunotherapy*
26	**Jonathan Franke, Leibniz-Forschungsinstitut für Molekulare Pharmakologie, Berlin** *Cytosolic delivery of electrophilic polypeptides for intracellular peptide cyclization*
27	**Luise Franz, Leibniz-Forschungsinstitut für Molekulare Pharmakologie, Berlin** *Improving cell penetrating peptide mediated cytosolic delivery of functional proteins*
28	**Dr. Manuel G. Ricardo, Max Planck Institute of Colloids and Interfaces, Golm** *Merging Solid-Phase Peptide and Glycan Synthesis to Prepare Biomolecular Chimeras*
29	**Arseniy Galashov and Ekaterina Kazakova, Humboldt University, Berlin** *Chemical synthesis of highly GalNAcylated peptides comprising multiple mucin tandem repeats*
30	**Erich Gebel, Bielefeld University** *Synthesis of New Cyclic Tetrapeptides as HDAC-Inhibitors Based on Ext. Aromatic Surface Interaction*
31	**Leonardo González Ceballos, Leibniz Institute of Plant Biochemistry, Halle** *Photoinduced site-selective modification of peptides*
32	**Joshua Grabeck, University of Cologne** *Directing cell-penetrating peptides to the peroxisome for a targeted drug delivery*
33	**Florian Häge, Heidelberg University** *Design of a Superoxide Dismutase Mimetic Miniprotein*
34	**Thomas Heim, Heidelberg University** *Peptide Membranes From de novo Designed Helix-Loop-Helix Peptides*
35	*withdrawn*
36	**Dr. Jethro Hemmann, Leibniz-Hans-Knöll-Institute, Jena** *Beyond peptides: A RiPP pathway produces an unusual protein complex with post-transl. modifications*
37	*withdrawn*
38	**Sarah Hofmann, TU Darmstadt** *An ADEPT concept for the intracellular delivery of cargos via cell penetrating peptides*
39	**Maurizio Iannuzzi, Freie Universität Berlin** *Rational design of polyfluorinated peptide-based materials: Self-assembly of an amphiphilic motif*
40	*withdrawn*
41	**Dr. Sören Kirchgäßner, University of Tübingen** *Acetyllysine mimicking amino acid for bromodomains*
42	**Merlin Klußmann, University of Cologne** *Investigating the activity of cell-permeable CaaX-peptides derived from the small GTPases Ras*
43	**Dr. Anna Knörlein, Memorial Sloan Kettering Cancer Center, New York** *Using novel chemical tools to unravel non-enzymatic epigenetic changes*
44	**Ilze Lace, University of Göttingen** *Transmembrane Peptide Models with Photocleavable Staples to Probe SNARE-Induced Membrane Fusion*
***45**	**Dr. Markus Lakemeyer, Friedrich Schiller University Jena** *Functional profiling of microbial proteases that modulate host-bacterial interactions in the gut*
46	**Hendrik Lepper, Friedrich Alexander University (FAU) Erlangen-Nürnberg** *Site-selective fusion of synthetic antiviral peptides to the Fc protein using chemo-selective ligation*
47	**Simon Leukel, Friedrich Alexander University (FAU) Erlangen-Nürnberg** *Structure-based design of antibody mimetic peptides: HIV-1 antibody PG16*
48	**Annika Lill, TU Darmstadt** *Rationally designed peptides as stabilizers of histone deacetylase 4 (HDAC4) variants*

49	**Qi Lin, King's College London** *A Novel α/δ-Peptidic Foldamer with 13/11 Helical Structure and its Application as a Minimalistic Aldolase Mimetic*
50	**Christina Lindner, Heidelberg University** *A thermostable WW domain basic scaffold for the design of functional β-sheet miniproteins*
51	**Dr. Scott Lovell, University of Bath** *Screening Approaches for the Identification of Covalent Peptide Inhibitors*
52	**Liz Maria Luke, Friedrich Schiller University Jena** *An inventory of small proteins in Vibrio cholerae*
53	**Tatjana Malycheva, Friedrich Schiller University Jena** *Enumeration of saturated and unsaturated cyclic secondary amino acids in regard to their ring size*
54	**Calvin Matula, Bielefeld University** *C-Glycosylation of Aromatic Amino Acids through Pd-catalyzed Cross Coupling Reactions*
55	*withdrawn*
56	**Stefan Moser, University of Vienna** *Combining Genetic Code Expansion with Protein Semisynthesis*
57	**Dr. Penthip Muangkaew, Ghent University** *From synthesis to NMR fingerprint matching of Cyclic lipodepsipeptide (CLiPs)*
58	**Maximilian Müll, Leibniz-Hans-Knöll-Institut, Jena** *Biosynthetic incorporation of fluorinated amino acids into the nonribosomal peptide gramicidin S*
59	**Beate Nachtigall, University of Bielefeld** *Synthesis of halogenated cyclic RGD-peptides*
60	**Jessica Nowacki-Hansen and Gulshan Amrahova, Max-Planck-Institute of Molecular Physiology, DO** *Identification of cyclic peptide inhibitors for the splicing factor hnRNPA2B1 using SICLOPPS*
61	**Janine Otto, Friedrich Schiller University Jena** *A UHPLC-HRMS method to record cyanotoxins and related sec. metabolites: Case study in Lake Stechlin*
62	**Steven Panek, Bielefeld University** *New Fluorescent Peptide-Based Probes for the Specific Recognition of the Aβ42 Oligomer Species*
63	**Dr. Jannik Paulus, Vrije Universiteit Amsterdam** *Small Molecular-Drug Conjugates for Selective Targeting $\alpha_V\beta_3$-Expressing Melanoma Cells*
64	**Artem Pavlov, Freie Universität Berlin** *Impact of Phe^{23}-electron-density tuning on the amyloid formation of full-length Amylin*
65	**Anna Pepanian, University of Bonn** *Nucleotide exchange modulation of $G_{\alpha}i/s$ proteins with linear and macrocyclic peptides*
****66**	**Truc Lam Pham, Heidelberg University** *Designed metal binding globular β-sheet peptides as mini-receptors for bioactive molecules*
67	**Emanuele Piemontese and Alina Herfort, Humboldt University, Berlin** *Multiphosphorylated peptides to probe binders of the RNA-Polymerase II C-terminal domain*
68	**David Podlesainski, University Duisburg-Essen** *The membrane protein Rv2113 is crucial for the anti-tubercular activity of Callyaerins*
69	**Jonas Proksch, Freie Universität Berlin** *Rationally designed mucin-like peptide hydrogels*
70	**Johannes Rassbach, Friedrich Schiller University Jena** *Convergently evolved catalytic mechanisms for amide formation in early diverging fungi*
71	**Lorenz Rau, Philipps University Marburg** *Synthesis of Fluorescent α-Amino Acids and Peptides by Palladium-Catalyzed Coupling Methods*
72	**David Reiter, Freie Universität Berlin** *Determining the Impact of Fluorine-specific Interactions on the Folding of Small Proteins*
***73**	**Nina Schmidt, Philipps University Marburg** *Development of mirror-image D-monobodies as targeted cancer therapeutics*

74	**Nicolas Schnatmann, Bielefeld University** *New Tryptophan-based fluorescent dyes*
***75**	**Prof. Dr. Stefan Schuster, Friedrich Schiller University Jena** *Enumeration and classification of proteinogenic and non-proteinogenic amino acids*
76	**Niklas Schwegler, Heidelberg University** *Two-photon laser printing of peptide-functionalized hydrogels*
77	**Dr. Julian Seidel, Friedrich Schiller University Jena** *Interactome-profiling of a lysine deacetylase-trapping peptide library uncovers crosstalk between HDAC6 and NF-κB signaling*
78	**Showmika Srirangan, Friedrich-Alexander-University (FAU) Erlangen-Nürnberg** *Exploring the potential of CXCR4 mimetic peptides to target cancer cells*
79	**Katharina Stillger, University of Cologne** *Targeting protein S-palmitoylation dynamics using cell-permeable peptides*
****80**	**Dr. Erik Strandberg, Karlsruhe Institute of Technology (KIT)** *Design principles of amphipathic α-helical antimicrobial peptides*
81	**Werner Tabak, University Duisburg-Essen** *Ahp-Cyclodepsipeptide HTRA1 Inhibitors as Potential Drugs Against Age-related Macula Degeneration*
82	**Tobias Theiss, University of Leipzig** *Exploring the solid-state-photo-CIDNP effect in artificial poly-L-proline based, flavin-aminoacid diads*
83	**Dr. Atiruj Theppawong, Ghent University** *Exploring peptide cyclization strategies: Tools for improving drug-like properties of peptide-based therapeutics*
***84**	**Silan Toy, University of Göttingen** *HAV-Peptides Attached to Colloidal Probes Faithfully Detect E-Cadherins Displayed on Living Cells*
****85**	**Van Tuan Trinh, Philipps University Marburg** *Peptide Inhibitor for Elongin BC Induces Apoptosis in Cancer Cells*
86	**Sebastian Trunschke, Humboldt University, Berlin** *New Scaffolds for Ligation Auxiliaries Capable of Base Catalysis*
87	**Sonali Vaidya, University of Bonn** *Insights into transient heme binding of select plasma proteins*
88	**Theresa Vaupel, Philipps University Marburg** *Synthesis of β-Hydroxy-α-Amino Acids by C-β-Arylation of Serine*
89	**Dr. Parvesh Wadhwani, Karlsruhe Institute of Technology (KIT)** *Antimicrobial and cell-penetrating peptides from spider venom*
90	*withdrawn*
***91**	**Lucas Weißenborn, Friedrich-Alexander-University (FAU) Erlangen-Nürnberg** *Novel Peptide Inhibitors of SARS-CoV-2 Infection*
92	**Marius Werner, Heidelberg University** *Late-Stage Functionalization of Peptides on the Solid Phase by an Iodination-Substitution Approach*
93	**Zhou Zhao, Max Planck Institute of Molecular Physiology, Dortmund** *Native Semi-synthesis of Isopeptide-linked Substrates for Specificity Analysis of Deubiquitinases and Ubiquitin-like Proteases*
94	**Timo Zimmer, Philipps University Marburg** *Synthesis and Conformational Analysis of β,β-Diaryl-α-Amino Acids: on the Way to Molecular Gearing*
****95**	**Dr. Robert Zitterbart, Gyros Protein Technologies, München** *Unleashing Automated High-Throughput Peptide Purification by a Traceless First-in-Class Reductively Cleavable Linker System*