14th GERMAN PEPTIDE SYMPOSIUM Program

	Piografii
Monday, 18 M	arch 2019
12:00 - 14:00	Registration
14:00 – 14:15	Opening
	Ines Neundorf, Symposium Chair, University of Cologne
	Welcome Address Günter Schwarz, Dean of Faculty of Mathematics and
	Natural Sciences, University of Cologne
Session 1: Pept Chairs: L. Moro	tide Discovery and Protein-Protein Interactions der / M. Teixidó
14:15 – 15:00	New tools for studying epigenetic protein-peptide
	interactions
15:00 – 15:20	Marcey L. Waters, UNC Chapel Hill, USA Investigating acetyl-lysine binding modules with
13.00 - 13.20	peptide-based probes
	<u>Dirk Schwarzer</u> , University of Tübingen, Germany
15:20 – 15:40	E-64c-Hydrazide-based cathepsin C inhibitors
45 40 40 00	Norbert Schaschke, HS Aalen, Germany
15:40 – 16:00	Lessons learned from disrupting protein—protein interactions of protein-phosphatase-1 with peptides
	Maja Köhn, University of Freiburg, Germany
16:00 – 16:30	Coffee Break
Session 2: Pept	tides in Biomedical application
Chairs: L. Moro	
16:30 – 17:15	Intrinsic cell-penetrating activity propels Omomyc from proof of concept to viable anti-Myc therapy Marie-Eve Beaulieu, Peptomyc S.L., Barcelona, Spain
17:15 – 17:35	Bacterial life based on fluorinated amino acids Beate Koksch, FU Berlin, Germany
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47.05 47.40	Selected short poster talks (5 minutes each)
17:35 – 17:40	Optimization of a receptor mimetic peptide Karen Fiebig, University of Erlangen, Germany
17:40 – 17:45	Head-to-tail cyclization of a cell-penetrating peptide
	through DKP scaffolds for cargo delivery:
	investigation of structural and biological properties
17.45 47.50	Lucia Feni, University of Cologne, Germany
17:45 – 17:50	Adaptation towards fluorinated proteomes Christin Treiber, FU Berlin, Germany
	Onnoun Heidel, I O Defill, Germany

17:50 – 17:55	Albicidin – Optimization and structure-activity relationship studies of a highly potent class of antibiotics
	Iraj Behroz, TU Berlin, Germany
17:55 – 18:00	Method development for the isolation and
	characterization of peptoids from one-bead-one- compound libraries for the inhibition of interleukin-8
	Julia Wack, TU Darmstadt, Germany
18:00 – 18:05	Probing membrane fusion with artificial SNARE
	analogues
	<u>Pirajeev Selvachandran</u> , University of Göttingen,
	Germany
18:05 – 18:10	Functionalized coiled-coil peptide hydrogels as
	extracellular matrix mimics
	Katharina Hellmund, FU Berlin, Germany
18:10 – 18:15	His/Tyr-based peptide motifs to study regulatory heme binding
	Benjamin Syllwasschy, University of Bonn, Germany
18:15 – 18:20	N-terminal derived peptides of vaspin as cell
	penetrating peptides
	Catherine Tindall, University of Leipzig, Germany
18:20 - 18:25	Peptides developed as kinase-specific substrates for
	antibody-free multicolor TR-FRET-based screening of
	kinase inhibitors in high throughput
	J. L. Heier, Minneapolis, USA
18:30 – 20:00	Poster Session I with Lite Bites and Beer
	Presentation of even poster numbers

Tuesday, 19 March 2019

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Session 3: Prote Bioconjugation Chairs: A. Geye	ein-Protein Interactions / Peptide Discovery and er / R. Brock
9:00 – 9:45	Targeting protein-protein interactions of receptor complexes Kristian Strømgaard, University of Copenhagen, Denmark
9:45 – 10:05	Peptides with (non-)covalent constraints to target protein-protein interactions Chiara Cabrele, University of Salzburg, Austria
10:05 – 10:25	Formylglycine-containing peptides enable the discovery of phosphotyrosinemimetic fragments for the validation of proteins as cancer targets Jörg Rademann, FU Berlin, Germany
10:25 – 10:45	Chemoselective Pd-catalyzed modification of cysteine-containing peptides and proteins Julia Kriegesmann, University of Vienna, Austria
10:45 – 11:15	Coffee Break
11:15 – 11:35	Toward homogeneous glycoproteins via auxiliary- assisted sequential glycosylation and ligation of peptides Claudia Bello, University of Vienna, Austria
11:35 – 11:55	The effect of non-enzymatic modifications within the N- and C-terminal domain of the small heat shock protein Hsp27 Christian F. W. Becker, University of Vienna, Austria
11:55 – 12:15	Nanofiber-forming peptides as novel gelators in cell- supporting, injectable hydrogels Christoph Synatschke, MPI Polymer Research, Germany
12:15 – 12:35	Heme-protein interactions from a peptide chemist's view: From motivation to models, motifs, and assessment
12:35 – 12:55	<u>Diana Imhof</u> , University of Bonn, Germany Microwave synthesis of peptides, peptide mimetics and new synthesis applications Monika Swiontek, CEM GmbH, Germany
13:00 – 14:30	Lunch

Session 4: Pept Chairs: I. Huc / I	ide Discovery and Biomedical Application of Peptides H. Mootz
14:30 – 15:15	Towards the development of orally available cyclic peptides
15:15 – 15:35	Christian Heinis, EPFL, Switzerland Multicomponent strategies to side chain- and Backbone-modified cyclic peptides Manuel G. Ricardo, IPB Halle, Germany
15:35 – 15:55	Bicyclic RGD-peptides with exquisite selectivity for the integrin ανβ3 and α5β1 receptors using a 'Random Design' approach
15:55 – 16:15	D. Michel, Pepscan Therapeutics, The Netherlands In situ cyclization of proteins (INCYPRO): enzymes with stable tertiary structure Tom N. Grossmann, VU University Amsterdam, The Netherlands
16:15 – 16:45	Coffee Break
16:45 – 17:05	Modulation of Y1-receptor responses by chemically modified truncated NPY analogs Kathrin Bellmann-Sickert, University of Leipzig, Germany
17:05 – 17:25	Octreotide conjugates for tumor targeting and imaging Eduard Figueras Agostí, University of Bielefeld, Germany
17:25 – 17:45	IsoDGR integrin ligands: a tool for targeted drug delivery
17:45 – 18:05	Silvia Gazzola, Università dell' Insubria Como, Italy Molecular Epitope Determination of Aptamer Complexes of the Multi-domain Protein C-Met by Proteolytic Affinity- Mass Spectrometry Michael Przybylski, Steinbeis Centre for Biopl Rüsselsheim, Germany
18:10 – 19:40	Poster Session II with Lite Bites and Beer Presentation of odd poster numbers

Wednesday, 20 March 2019

	otide Structure and Function ømgaard / B. Koksch
9:00 – 9:45	Foldamer-based protein mimicry and recognition Ivan Huc, LMU München, Germany
9:45 – 10:05	Side chain orientation of tryptophan analogs determines agonism and inverse agonism in short ghrelin peptides Sylvia Els-Heindl, University of Leipzig, Germany
10:05 – 10:25	Stereoselective peptide modifications – efficient tools for natural product and drug synthesis Uli Kazmeier, Saarland University, Germany
10:25 – 10:45	Regioselective dimerization of a tetra-cysteine peptide and its use as a dimerization domain for proteins Armin Geyer, Marburg University, Germany
10:45 – 11:15	Coffee Break
Session 6: Biomedical Application of Cell-Permeable Peptides Chairs: K. Strømgaard / B. Koksch	
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Chairs: K. Strø 11:15 – 12:00	Activatable cell penetrating peptides: click to enter Dennis Löwik, Radboud University Nijmegen, The Netherlands Cell-penetrating peptides as penetration enhancers of proteins and nanoparticles in 3D tumor models Roland Brock, Radboud University, The Netherlands Cell penetrating peptides: euphoric hope, various applications, till now two dozen clinical trials Siegmund Reissmann, Friedrich-Schiller University of
Chairs: K. Strø 11:15 – 12:00 12:00 – 12:20	Activatable cell penetrating peptides: click to enter Dennis Löwik, Radboud University Nijmegen, The Netherlands Cell-penetrating peptides as penetration enhancers of proteins and nanoparticles in 3D tumor models Roland Brock, Radboud University, The Netherlands Cell penetrating peptides: euphoric hope, various applications, till now two dozen clinical trials

	tein / Peptide Discovery and Novel Analytical tools nas / D. Schwarzer
14:40 – 15:25	Kinetics of protein aggregation Tuomas Knowles, University of Cambridge, UK
15:25 – 15:45	Inhibition of amyloid self-assembly of insulin by designed peptides mimicking IAPP cross-amyloid interaction surfaces Aphrodite Kapurniotu, TU München, Germany
15:45 – 16:05	Revealing the role of 33-mer gliadin oligomers in gluten related disorders Veronica I. Dodero, University of Bielefeld, Germany
16:05 – 16:35	Coffee Break
16:35 – 17:05	Expanding the genetic code – protein chemistry in living systems Kathrin Lang, TU München, Germany
17:05 – 17:25	From peptide to protein chemistry: expanding the genetic code with a lysine derivate bearing the enzymatically removable phenylacetyl group Henning D. Mootz, University of Münster, Germany
17:25 – 17:45	A traceless catch-and-release method for rapid peptide purification and modification Robert Zitterbart, Belyntic GmbH Berlin, Germany
19:30	Conference Dinner
	Ludwig im Museum
	Heinrich-Böll-Platz, 50667 Köln

Thursday, 21 March 2019

Session 8: Pep Chairs: J. Eichl	tide Biomaterials and Structured Peptides er / V. Dodero
9:00 – 9:45	Engineering peptide self-assembly for biomaterial applications through molecular and environmental manipulation Helena S. Azevedo, University of London, UK
9:45 – 10:05	Using DNA-based nanotemplating to enhance biological function of peptides Dave M. Smith, Fraunhofer IZI Leipzig, Germany
10:05 – 10:25	Peptide engineering with carboranes Matthias Scholz, University of Bonn, Germany
10:25 – 10:45	Chemical synthesis of functional peptides and membrane-associated proteins: from drug discovery to bioinspired materials Alesia A. Tietze, University of Gothenburg, Sweden
10:45 – 11:15	Coffee Break
11:15 – 11:45	Exploring de novo designed protein folding motifs as scaffolds for chemical reactions Franziska Thomas, University of Göttingen, Germany
11:15 – 11:45 11:45 – 12:05	scaffolds for chemical reactions Franziska Thomas, University of Göttingen, Germany Gaining and losing the activity of antimicrobial [KL]n peptides
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11:45 – 12:05	scaffolds for chemical reactions Franziska Thomas, University of Göttingen, Germany Gaining and losing the activity of antimicrobial [KL]n peptides Fabian Schweigardt, KIT Karlsruhe, Germany Detailed structure of stable toroidal pores formed by an antimicrobial peptide in membranes, determined by multinuclear solid-state NMR