

# 15th International Life Science Meeting

## April 18, 2018

**Room: International Meeting Center, Wing G1, Room E.21, IMC FH Krems**

### Meeting Opening

09:00	<b>Welcome Speech</b>
	<b>Harald Hundsberger</b> , Prof.(FH) Dr. Head of the Institute of Biotechnology, Vice Rector IMC FH Krems
<b>Session: International &amp; National Partners Research and Academia</b> <b>Chair: Edwine Lehner, Makay Kolos</b>	
09:10	<b>Zebrafish PDX Models for Precision Medicine within Oncology</b>
	<b>Anna Fahlgren</b> Assoc. Prof. Dr., Programme Director Linköping University, Department of Clinical and Experimental Medicine *Lecturer, Collaboration Partner
09:35	<b>The Multifacted Roles of Type 2 Immunity: Basic Mechanisms and Clinical Relevance</b>
	<b>Jörg Fritz</b> , Prof. Dr. McGill University, Research Center on Complex Traits, Canada *Lecturer, Collaboration Partner
09:55	<b>Is Lysozyme the Cure for Alzheimer´s Disease?</b>
	<b>Katarina Kågedal</b> Assoc. Prof. Dr. Programme Director Linköping University, Department of Clinical and Experimental Medicine *Lecturer, Collaboration Partner
10:15	<b>The Natural Killers Go Astray – Promoting Tumor Formation</b>
	<b>Veronika Sexl</b> , Univ.-Prof. Dr.med.univ. Head of the Institute of Pharmacology and Toxicology, University of Veterinary Medicine, Vienna *Lecturer, Collaboration Partner, Supervisor of PhD-students
10:35	<b>Charting the molecular landscape of cancer-associated stroma in canine mammary tumours</b>
	<b>Enni Markannen</b> , Dr. med. vet., Dr. sc. nat. Junior Group Leader, Institute of Veterinary Pharmacology and Toxicology, University of Zurich *Lecturer, Collaboration Partner, Supervisor of PhD-student
11:00	<b>Coffee Break</b>
<b>Session: National &amp; International Partners Research and Academia</b> <b>Chair: Bettina Sajtos, Alexander Pils</b>	
11:20	<b>Adapting and Applying Nature's Swiss Army Knives: Exploring Applied Enzymology in DIT</b>
	<b>Barry Ryan</b> , Prof. Dr. BSc (Hons), PGDHE, MA (Ed), MSc (Ed), PhD, MIBIOLI, MRSC, MRSB, SFHEA. Dublin Institute of Technology, Chair: Pharmaceutical Healthcare School of Food Science and Environmental Health, College of Sciences and Health *Lecturer, Collaboration Partner
11:45	<b>Urea Cycle Meets Immunology: From Basic Research to Therapeutic Application"</b>
	<b>Gernot Schabbauer</b> , Assoc. Prof. Priv.-Doz. Mag. Dr. Center of Physiology and Pharmacology, Medical University of Vienna * Lecturer, PTS-Coach, Research Partner, Member Development Team
12:05	<b>STIM1 protein studied by high resolution NMR spectroscopy</b>
	<b>Petr Rathner</b> , MSc. PhD-candidate Johannes Kepler University Linz, Institute of Organic Chemistry *Lecturer and Collaboration Partner
12:25	<b>STIM1 A dual mechanism promotes switching of the Stormorken STIM1 R304W mutant into the activated state</b>
	<b>Marc Fahrner</b> , Dr. MSc. Johannes Kepler University Linz, Institute of Biophysics *Lecturer
12:45	<b>Reticulon 1A Identifies Human Dendritic Cells</b>
	<b>Maria Gschwandtner</b> , Dr., Medical University Vienna, Dept. of Dermatology *Graduate, Lecturer, Supervisor of Master Students
13:00	<b>Lunch Break</b>

Session: Regenerative Medicine	
15:00	<b>Differential Interaction of Extracellular Vesicles with Innate Immune Cells</b>
	<b>Viktoria Weber</b> , Univ.-Prof. Dr. Vice Rector for Research Danube University Krems, Head Christian Doppler Laboratory for Innovative Therapy Approaches in Sepsis, Deputy Head of Department for Health Science and Biomedicine, Deputy Head of Center for Biomedical Technology *Lecturer, PTS- and PhD-Coach, Employer of IMC-Graduates, R&D Partner
15:20	<b>Cytoskeletal Dynamics in Mesenchymal Stem Cells</b>
	<b>Michael Bernhard Fischer</b> , Univ.-Prof. Dr. med. Danube University Krems, PhD Coordinator, Department of Health Sciences and Biomedicine * Lecturer
15:40	<b>Strategies for Cartilage Regeneration</b>
	<b>Stefan Nehrer</b> , Univ. Prof. Dr. Danube University Krems, Dean Faculty of Health and Medicine, Head Department of Health Sciences and Biomedicine, Head Center for Regenerative Medicine and Orthopedics, Head Center of Medical Specialisations *Supervisor of Bachelor & Master Students, Lecturer
16:00	<b>Coffee Break</b>
Session: Applied Chemistry Chair: Miriam Tarasiewicz, Florian Friedl	
16:20	<b>Applied Chemistry in Krems: Where Tradition Meets Innovation</b>
	<b>Uwe Rinner</b> , Assoc. Prof. DI Dr., des. Studiengangsleiter Applied Chemistry, IMC FH Krems *Lecturer
16:40	<b>Development of 17<math>\beta</math>HSD1 Inhibitors Based on 15-Substituted Estrone</b>
	<b>Martin Kotora</b> , Prof. RNDr. CSc. Charles University Prague, Department of Organic Chemistry, Institute of Organic Chemistry and Biochemistry, Czech Academy of Sciences.
Session: Presentation Global Biotech Player Lonza	
17:20	<b>IBEX™ Solutions – A new Biotech Park in Visp, Switzerland</b>
	Tanja Kiefer  Sr. HR Business Partner, Dominik Wegmann   Head MSAT IBEX , Michael Mödler   Head Training IBEX Lonza AG, Switzerland
Session: "Studium Generale"	
17:40	<b>Superresolution Using Ordinary Microscopes</b>
	<b>Renata Rychtáriková</b> , Ing. Bc. Dr. University of South Bohemia Czech Republic , Laboratory of Experimental Complex Systems *Lecturer
18:00	<b>Point of Care Technologies- Development, Validation and Regulations</b>
	<b>Geja Oostingh</b> , FH-Prof, Priv. Doz. University of Applied Science Salzburg, Department of Biomedical Sciences *Lecturer
18:20	<b>Automated Classification of Animal Behaviour Trajectories</b>
	<b>Dalibor Stys</b> , Prof. RNDr. CSc. University of South Bohemia Czech Republic, Head Laboratory of Experimental Complex Systems, Former Minister of Education, Czech Republic; *Lecturer, Research Partner
19:00	<b>Heuriger Müllner</b> <b>"Students, Graduates, Lecturers, Coaches and R&amp;D Partners"</b>

# 15th International Life Science Meeting

## April 19, 2018

**Room: International Meeting Center, Wing G1, Room E.21, IMC FH Krems**

### Session: Practical Training Semester Presentation Award

09:00	<p>Practical Training Semster Presentations 3 selected Bachelor Students of the Institute of Biotechnology IMC Krems <b>Susanne Waizenauer</b> Optimizing CRISPR/Cas9 mediated Genome Editing by using a Conversion of GFP to BFP in Human Pluripotent Stem Cell Line</p> <p><b>Petra Grünstäudl</b> Monoclonal antibodies directed to human Growth Hormone: development, production, characterization, and the establishment of an assay system</p> <p><b>Bronislava Bobušová</b> Marine bacteria as a source of novel antibiotics: screening approaches and identification of active compounds</p>	<b>Parallel in Room: E.23</b>	
		09:00	<b>Lonza AG - global company profil   location Visp   career opportunities   Q&amp;A</b>
			Tanja Kiefer  Sr. HR Business Partner Lonza AG, Switzerland
			Dominik Wegmann   Head MSAT IBEX Lonza AG, Switzerland
			Michael Mödler   Head Training IBEX Lonza AG, Switzerland
<b>Session: Research Focus Institute of Biotechnology IMC Krems - Viral Infections</b> <b>Chairs: Megan McFadden, Michal Pallo</b>			
09:40	<b>Strategies for Combating Adenovirus Infections</b>		
	<b>Reinhard Klein</b> , Dr. Priv. Doz. Prof. (FH) Institute of Biotechnology IMC Krems, Head of Research Laboratories * Team Institute Biotechnology IMC Krems		
<b>Session:RACLU: Rare Disease Cluster Salzburg</b> <b>Chair: Megan McFadden, Michal Pallo</b>		<b>Session:</b>	
		<b>Parallel in Room: E.23</b>	
10:00	<b>Gene Therapy in the Rare Disease Epidermolysis Bullosa - New Horizons and New Challenges</b>	10:00	<b>Utilization of microbial mats for the production of various biofuels</b>
	<b>Johann Bauer</b> , Prim. Univ. Prof. Dr. MBA HCM Head of the University Clinics of Dermatology Salzburg, Medical Director of the EB House Austria, *Lecturer, Research Partner, PTS/ARTS supervisor		<b>Raeid Abed</b> , Prof. Dr. Sultan Qaboos University, Oman
10:20	<b>Specialized Ribosomes as Therapeutic Tools in the Rare Disease Epidermolysis Bullosa</b>		
	<b>Hannelore Breitenbach-Koller</b> , AO. Prof. Dr. Departement Cell Biology and Physiology, Translational Research Project Land Salzburg: Customized Protein Synthesis *Lecturer, Research Partner		
10:30	<b>Coffee Break</b>		
<b>Session:Key Note Lecture</b> <b>Chair: Klavdija Bastl, Mathias Binder</b>			
11:00	<b>Open Innovation in Industrial Research</b>		
	<b>Darryl McConnell</b> , Dr. Research Site Head Austria, Boehringer Ingelheim RCV GmbH & Co KG *Lecturer		

<b>Round Table Discussion</b> <b>“Education and Career in Life Science”</b>	
11:40	<b>Chair:</b> Uwe Schlokat, Vice President Global Project Management, Ottobock * Lecturer, Supervisor of Bachelor and Master Students <b>Discussion Board:</b> Florian ASTELBAUER   IMC Alumnus, Quality Management, Shire Johann BAUER   Chairman Dermatology Dept., Paracelsus Med. University Salzburg Ulrike FUCHS   IMC Alumna; Regulatory Affairs, Shire Matthias Hackl   CEO TAmiRNA, Vienna Martin KERN   Plant Manager Krems Facility, Merck Sharp & Dohme Tanja KIEFER  Human Resources, Lonza AG Darryl McCONNELL   Research Site Head Austria, Boehringer Ingelheim RCV GmbH & Co KG Vanessa ERNST  IMC Alumna; Medical Writer Octapharma Nicole STARY  IMC Alumna; Head Quality Compliance, Boehringer Ingelheim Vienna Tamara ZMOELNIG   IMC Alumna; Project Management Office Manager, Novartis Drug Product Schafftenau
13:00	<b>Lunch Break   Board Meeting PTS Award</b>
<b>Session: Immune system profiling for personalized diagnostics in hemophilia A</b> <b>Chair: Wadih Rassy, Patrick Rericha</b>	
14:00	<b>Clinical translation of immune system profiling in infant patients with hemophilia A</b> <b>Birgit Reipert, Dr.</b> Global Research, Baxalta Innovation GmbH, part of Shire
14:20	<b>Differential effects of von Willebrand factor on processing and presentation of factor VIII-derived peptides</b> <b>Christian Lubich, Dr.</b> Research Institute for Applied Bioanalytics and Drug Development, IMC University of Applied Sciences Krems
14:40	<b>Novel approach for personalized Hemophilia diagnostics – unravelling FVIII immunogenicity</b> <b>Helmut Schweiger, MSc., BSc.</b> Research Institute for Applied Bioanalytics and Drug Development, IMC University of Applied Sciences Krems
<b>Session: Medical Biotechnology</b> <b>Chair: Biotech Students Grassegger Julia, Ines Likon</b>	
15:00	<b>Glioma Associated Stem Cells; A Model of the Tumor Microenvironment for Precision Medicine</b> <b>Antonio Paolo Beltrami, MD, PhD</b> Istituto di Anatomia Patologica Universitaria, Udine * Joint Master program, Lecturer
15:20	<b>Biological Effects of TERT1 on Thyroid Cancer Cells</b> <b>Guiseppe Damante</b> Dipartimento di Scienze Mediche e Biologiche, Università degli Studi di Udine * Joint Master program, Lecturer
15:40	<b>Coffee Break</b>

Session: Pharmceutical Biotechnology & Technologies Chair: Tatjana Tomek, Viktor Denev		
16:20	<b>New Genetic Therapy Techniques are about to Change the Patients Journey – Points to Consider from a Process Development and Manufacturing Perspective</b>	
	<b>Juan Hernandez Bort</b> , DI Dr. Head of Early Stage Development, Gene Therapy, SHIRE	
16:40	<b>Large Scale Vaccine Manufacturing in Krems</b>	
	<b>Martin Kern</b> , Dr. Site Director von MSD Animal Health Danube Biotech GmbH. *Lecturer	
17:00	<b>Plasmonic Affinity Biosensors for Sensitive Biomarker Analysis</b>	
	<b>Jakub Dostalek</b> , Dr. Senior Scientist Biosensor Technologies, AIT Austrian Institute of Technology GmbH *Research Partner, Supervisor of Master & PhD Students	
17:20	<b>Modulation of human ORAI1 channels: modeling and simulations</b>	
	<b>Rudiger Ettrich</b> , Prof. RNDR. PHD. Head, Center for Nanobiology and Structural Biology, Institute of Microbiology, Academy of Sciences of the Czech Republic, Nove Hradý	
17:40	<b>microRNAs – Tiny Molecules with Great Potential as Biomarkers and Drug Targets”</b>	<b>Parallel in Room G1.1.19</b>
	<b>Matthias Hackl</b> , Dr. CEO and co-founder TAmiRNA GmbH, Vienna *Lecturer	
18:00	<b>Novel automated benchtop imaging platform for advanced cell biological assays</b>	Meeting of the International Scientific Advisory Board
	<b>Felix Spira</b> , Dr. Molecular Devices, Austria *Lecturer and Research Partner	
18:20	<b>Practical Training Semester Award</b>	
19:00	<b>Dinner with the Graduates, Lecturers and Guests at the “Heuriger Siedler”</b>	

**Department Life Science:**
**Institute Biotechnology**

**H. Hundsberger**, B. Entler, C. Wiesner D. Mezricky, M. Pflüger, D. Schild, B. Klausgraber, E. Hofmann, C. Klein, R. Klein, R. Seeböck, B. Kröppl, P. Lang, D. Ripper, A. Stierschneider, S. Winkler, N. Reiner, U. Rinner, H.P. Weitzenböck, A. Jürets, P. Ausserhofer, A. Boyer, Z. Didara, S. Hetzendorfer, F. Reithofer, V. Strobl, W. Schütt (em.)

**Institute of Applied Bioanalytics and Drug Discovery**

**A. Eger**, Peter Allacher, A. Achleitner, J. Aschauer, V. Berg, M. Egerszegi, M. Gretic, V. Heisig, N. Jacobi, T. Höbling, S. Ilbeyi, N. Jacobi, C. Lubich, J. Mörtel, C. Rehm, J. Schatz, H. Schweiger, V. Wieser

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\*) Partnership of lecturers with students and team of the Department of Biotechnology