

Life Science Meeting 2024





Eröffnung durch Institutsleiter Harald Hundsberger

Talk Chukwuma Agu | ABS Biotechnologies GmbH





Vortragende folgender Institutionen waren vertreten:

- Boehringer-Ingelheim RCV GmbH & Co KG
- Zentrum für Krebsforschung | Medizinische Universität Wien
- Department of Pathology | Medical University of Vienna
- Bristol Myers Squibb
- ABS Biotechnologies GmbH
- Solgate GmbH
- NovoArc GmbH
- Institute Krems Bioanalytics
- LIMCR
- Cancer Cell Signalling Lab, Department of Medicine (DMED) University of Udine, Udine, Italy
- EMBL Heidelberg
- Lyon Catholic University, ESTBB (School of Engineers in Biotechnologies)
- McGill University Dept. Microbiology & Immunology
- U Wien Institute of Applied Physics, Biophysics
- Vienken Consultants
- University for Continuing Education Krems
- University of Twente, Applied Stem Cell Technologiesardiac cells-on-a-chip
- Global Project Management, Ottobock International
- Fachbereich Physiologie | Karl Landsteiner Privatuniversität für Gesundheitswissenschaften
- Research and Development Procomcure Biotech GmbH
- MSD Animal Health lasma Derived Therapies Global Medical Affairs, Baxalta Innovations GmbH, part of Takeda
- Institute of Bioprocess Science and Engineering, Department of Biotechnology
- University of Natural Resources and Life Sciences
- Vienna
- MDRA Austrian Medicines and Medical Devices Agency





Roll-up LISA und ecoplus neben der Bühne







Krems Cooperation Award (v.l.n.r.: Harald Leiter, Christoph Keisler, Caroline Schätz, Harald Hundsberger)



Practical Training Semester Award (v.l.n.r.: Barbara Entler, Julia Drescher, Almira Slamnik, Nico Lamot, Bernhard Klausgraber)







TeilnehmerInnen beim 20th Life Science Meeting (ca. **180 Personen**: Studierende, Alumni, Externe von u.a. UWK, Eppendorf, KL, MedUni Graz, Exias medical, MedUni Wien, Novartis, Anton Paar, Medical Science Liaison Hematology, Club Alpbach, Bio-Rad Laboratories, Hydrologie und Wasserwirtschaft BOKU Wien, Universitätsklinikum St.Pölten, HOOKIPA Pharma Inc., Roche Austria,...)

IMC Life Science Meeting zieht erfolgreich Bilanz

Hochkarätige Expertinnen und Experten der Biotechnologie-Branche aus der ganzen Welt trafen einander

Das IMC Life Science Meeting hat dieses Jahr bereits zum 20. Mal seine Strahlkraft als etablierte Plattform für den Austausch neuester Technologien und internationaler Zusammenarbeit bewiesen. Das Programm versammelte eine beeindruckende Reihe von renommierten Keynote Speakern sowie Biotechnologinnen und Biotechnologen aus der ganzen Welt, die ihre Expertise zu den neuesten Entwicklungen und Innovationen in der Branche teilten.



Die Strahlkraft des Life Science Meetings ist seit 20 Jahren ungebrochen. Dem Institut Biotechnologie unter der Leitung von Harald Hundsberger gelingt es jedes Jahr Studierende, erfolgreiche Alumni und Industriepartner nach Krems zu holen und diese zu vernetzen und den fachlichen Austausch voranzutreiben – eine Erfolgsgeschichte.

Im Fokus standen dieses Jahr neueste Erkenntnisse zur personalisierten Krebsforschung und zur regenerativen Medizin. Unter anderem freuten wir uns über Top-Expertinnen und -Experten, zum Beispiel:

Klaus Rumpel von Boehringer gab Einblicke in die industrielle Entwicklung moderner Therapeutika und welche Schwierigkeiten damit bei der bis zu 15 Jahre dauernden Entwicklung verbunden sind.

Teresa Gagliano von der Universität in Udine sprach über die Rolle von Signalübertragungsproteinen (Kinasen) und deren Bedeutung in der Krebsentstehung und Krebsprogression.

Jörg Fritz von der McGill University in Kanada war bereits zum 4. Mal auf Besuch in Krems und sprach über Fehlfunktionen des Immunsystems bei Asthmaerkrankungen.

Zum ersten Mal fand auch ein Vortragsblock mit jungen aufstrebenden Biotechnologieunternehmen aus Österreich statt, die ihre Technologieplattformen präsentierten. So referierte **David Wurm** von NovoArc über die Herstellung bakterieller Membranbestandteile, die analog zu den COVID-Vakzinen zum Verpacken instabiler Therapeutika verwendet werden können.

Frühe Vernetzung von Studierenden, Industriepartnern und Alumni

Studierende, Alumni und Lehrende profitierten vom Austausch und von den Kontakten zu Industrie und Partneruniversitäten.

"Für unsere Studierenden ist es so wichtig, dass sie ihr Netzwerk aufbauen und erweitern. Beim Life Science Meeting präsentieren wir ihnen hochkarätige Persönlichkeiten praktisch auf dem Silbertablett. Unzählige Male wurde durch das Meeting der Grundstein für ihre zukünftigen Karrierewege gelegt. Wir danken allen unseren Kooperationspartnern, dass sie seit zwanzig Jahren ein Teil des Life Science Meetings sind", bestätigt Prof.(FH) Dr. Harald Hundsberger, Leiter des Instituts Biotechnologie, den besonderen Wert des Meetings.

Mittlerweile wird das Kremser Life Science Meeting in ähnlicher Weise beim schwedischen Kooperationspartner der University Linköping regelmäßig durchgeführt. Die Kolleginnen und Kollegen sind ebenfalls überzeugt, dass sich eine nachhaltige Vernetzung von Studierenden, Alumni, Wissenschaftlerinnen und Wissenschaftlern als innovatives Element in der hochschulischen Bildung erwiesen hat.

Herausragende Alumni geben Einblicke in ihren beruflichen Alltag

Besonders hervorzuheben sind die inspirierenden Beiträge unserer erfolgreichen Alumni, die ihre Erfolgsgeschichten präsentierten und die Bedeutung des IMC Life Science Meetings für ihre eigenen Karrierewege unterstreichen. Dieses Jahr stellte unsere Absolventin **Nadine Tüchler** von der

Spitzenforschungsinstitution EMBL (Europäische Laboratorium für Molekularbiologie) in Heidelberg ihre neuesten Forschungsergebnisse vor.

Gleichzeitig ist Nadine Tüchler Mitglied des Entwicklungsteams, das den neuen Master-Studiengang "OMICS Technologies and Data Science in Biomedicine" ins Leben gerufen hat. Das EMBL hat 29 Mitgliedsstaaten und verfügt über mehr als 110 unabhängige Forschungsgruppen und Serviceteams, die das gesamte Spektrum der Molekularbiologie an sechs Standorten in Barcelona, Grenoble, Hamburg, Heidelberg, EMBL-EBI Hinxton und Rom abdecken.

Awards für die besten Praktika und für besondere Forschungsleistungen

Gleich zwei Awards wurden im Rahmen des diesjährigen Life Science Meetings verliehen.

Der PTS Award

Jedes Jahr holt Barbara Entler – Professorin am Institut Biotechnologie –
Studierende vor den Vorhang, die in ihren PTS (Practical Training Semester)
besonders eindrucksvolle Leistungen erbracht haben. Dieses Jahr wurden unter 60

teilnehmenden Studierenden 3 Bachelor-Arbeiten ausgewählt, die von **Julia Drescher, Almira Slamnik und Nico Lamot** verfasst wurden. Die Studierenden haben Ihre
Bachelor-Arbeiten in Kooperation mit renommierten Institutionen wie dem Havard
Stem Cell Center, der Universität Vall Hebron in Barcelona und der Medizinischen
Universität Wien verfasst.

Der Krems Cooperation Research Award

Der Krems Cooperation Research Award soll junge Forscherinnen und Forscher im Life-Science-Bereich stimulieren, sich auf den Gebieten pharmazeutische/medizinische (Bio-)Technologie, regenerative Medizin, klinische Medizin (neue Therapie- bzw. Diagnostik-Verfahren) und präklinische Medizin wissenschaftlich zu profilieren. Ausgezeichnet werden wissenschaftliche Arbeiten, die sich in Kooperation mit einem Unternehmen/einer Einrichtung am Technopol Krems mit neuen Anwendungen in den genannten Gebieten beschäftigen.

Unsere Absolventin **Caroline Schätz** und unser Absolvent **Christoph Keisler** wurden für ihre Bachelor-Arbeiten mit den Titeln "Generation of Living Blood Vessels From Hypoimmunogenic Pluripotent Stem Cells" und "Labelling of Ebola Virus Inclusion Body Constituents by Proximity Ligation" für diesen Award nominiert.

Biotech-Networks matter: Unsere Kooperationspartner und Unterstützer

Die Vielfalt und der hohe Vernetzungsgrad des Life Science Meetings werden durch die engagierte Zusammenarbeit mit unseren langjährigen Kooperations- und Forschungspartnern gestärkt. Sie leisten einerseits einen bedeutenden Beitrag für die Karriereoptionen unserer zukünftigen Alumni und sind andererseits wesentliche Bestandteile eines breiten Netzwerks von Fachleuten und Organisationen in der Life-Science-Branche. Durch ihre langjährigen Beziehungen und Kooperationen tragen sie dazu bei, dass unser Meeting zu einem wichtigen Knotenpunkt für den Austausch von Wissen, Ideen und Ressourcen wird. Dies fördert die Zusammenarbeit zwischen verschiedenen Institutionen und Disziplinen, ermöglicht aber auch, Synergien zu

identifizieren und zu nutzen, um gemeinsam innovative Lösungen für komplexe Herausforderungen zu entwickeln.

Darüber hinaus eröffnen diese Vernetzungen den Teilnehmenden des Meetings Zugang zu einem breiten Spektrum an beruflichen Möglichkeiten und Partnerschaften – sei es in der akademischen Forschung, der pharmazeutischen Industrie, dem Gesundheitswesen oder anderen relevanten Bereichen der Life Sciences. Somit trägt die engagierte Zusammenarbeit mit unseren Partnern maßgeblich dazu bei, ein dynamisches und integratives Ökosystem für den Fortschritt in den Lebenswissenschaften zu schaffen.

Unsere Stärke sind unsere Kooperationspartner (eine Auswahl)

MSD Tiergesundheit – Standort Krems: Die Produktionsstätte der MSD Animal Health Danube Biotech GmbH ist Teil des internationalen Produktionsnetzwerkes von MSD. Am Standort Krems werden auf rund 30.000 m² mit modernsten Technologien und Herstellungsverfahren bakterielle und virale Antigene sowie Impfstoffe für die Tiermedizin hergestellt.

Die Cells + Tissuebank Austria (C+TBA) ist eine gemeinnützige Organisation mit dem Ziel, die medizinische Versorgung mit humanem Gewebe höchster Qualität und Sicherheit zu gewährleisten. C+TBA bildet die Brücke zwischen Spendenden, Anwenderinnen und Anwendern sowie Empfängerinnen und Empfängern.

Karl Landsteiner Privatuniversität

Universität für Weiterbildung Krems

Danube Private University

Die niederösterreichische Wirtschaftsagentur ecoplus ist seit Anbeginn unsere Unterstützerin und ermöglicht uns mit ihrem finanziellen Beitrag ein Vernetzungs-Abendessen für unsere Vortragenden.

Erstes Advisory Board Meeting des Doktoratsprogramms TOPICO

Im Projekt TOPICO, das im Rahmen von doc.funds connect des FWF gefördert wird, steht die Therapieresistenz von Krebszellen im Forschungsfokus von Wissenschaftlerinnen und Wissenschaftler des IMC Krems und der Medizinischen Universität Wien. Diese erste offizielle Ausbildungskooperation zielt darauf ab, ein nachhaltiges PhD-Programm zwischen den beiden Institutionen aufzubauen. Im Zuge des Life Science Meetings fand das 1. Advisory Board Meeting zum Projekt statt, das gemeinsam mit dem Projektteam und Expertinnen und Experten aus Wissenschaft und Industrie abgehalten wird. Prof.(FH) Mag. Dr. Priv.-Doz. Harald Hundsberger, Leiter des Instituts Biotechnologie am IMC Krems, und DI(FH) Dr.in Rita Seeböck, Lehrende und Absolventin im Institut Biotechnologie, repräsentieren das IMC Krems. Seitens der Medizinischen Universität Wien sind die Wissenschaftlerinnen und Wissenschaftler Univ.-Prof. Dr.in Gerda Egger, Ao.-Prof. Wolfgang Mikulits und Assoc.-Prof. Dr. Mario Mikula Mitglieder von TOPICO.

20th Life Science Meeting | 15. - 16.05.2024

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Monitoring Conformational Changes Upon Small Molecule Binding by Chemical Crosslinking and Quantitative Mass Spectrometry Detecting Host Cell Proteins in Biopharmaceuticals: Advances & Applications SESSION: NOVEL TARGETS AND APPROACHES IN CANCER AND RENAL DISEASES Chair: Antonia Riedl Klara Kristandl 14:10 RNA editing in chronic lymphocytic leukemia Roland Geisberger UMCR 14:10 Kinases: identification and characterization in the context of cancer research Autiliomic and mechanistic modeling approach to study chronic kidney disease—hunting for novel regulators 15:20-15:40 Coffee Break SESSION: CURRENT CHALLENGES IN IMMUNOLOGY Chair: Hendrik van Dijk Ana Vronesewič Camille Levy Biolide metabolism in asthma: Immune regulation and potential therapeutic targets Spatial requirements for T-cell receptor triggering probed via a DNA origami-based biointerface Unraveling the oligomerization state of the T cell receptor complex using quantitative single molecule fluorescence microscopy Come together with "Students, Graduates, Lecturers, Coaches and R&D Partners" at the Heurigen Müllner Come together with "Students, Graduates, Lecturers, Coaches and R&D Partners" at the Heurigen Müllner Postdoc / Institute Krems Bioanalytics Thomas Waerner, PhD Boehringer Ingelheim Thomas	SESSION: KREMS BIOANALYTICS				
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Unraveling the oligomerization state of the T cell receptor complex using quantitative single molecule fluorescence microscopy 18:00 Heuriger Müllner Unraveling the oligomerization state of the T cell receptor complex using quantitative single Mario Brameshuber Dr. Mario Brameshuber TU Wien Come together with "Students, Graduates, Lecturers, Coaches and R&D Partners" at the Heurigen Müllner	16:20	triggering probed via a DNA origami-based	Eva Sevcsik		
18:00 Heuriger Müllner Come together with "Students, Graduates, Lecturers, Coaches and R&D Partners" at the Heurigen Müllner		cell receptor complex using quantitative single	Mario Brameshuber	Dr. Mario Brameshuber TU Wien	
	18:00	Heuriger Müllner			









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