Joint ICA-DSP Biomolecules Symposium February 2018

Organized by ICA, DPS Biomolecules and the Department of Biosciences, supported by the Austrian Science Fund “FWF”

1st - 2nd of February 2018

Department of Biosciences, Faculty of Natural Sciences, University of Salzburg
Opening: Thursday 1st of February, 8.50, Lecture Hall “green” (HS 403)

1st of February 2018

8:50 Welcome
Christian Huber (Speaker of ICA) and Albert Duschl (Speaker of DSPB)

Session 1 Immunology and Skin Disease
Chair: Albert Duschl, Jutta Horejs-Höck

9:00 - 10:20

9:00 – 9:20
Short presentation 1
Antal Nagy
T-cell fate decision
Supervision: Iris Gratz and Jutta Horejs-Höck

9:20 – 9:40
Short presentation 2
Maria Klicznik
A humanized mouse model to study skin immunology
Supervision: Iris Gratz, Eva Murauer, and Josef Thalhamer

9:40 – 10:00
Short presentation 3
Monika Wimmer
Identifying miRNA key players shaping epidermolysis bullosa
Supervision: Johann Bauer, Verena Wally, and Hannelore Breitenbach-Koller

10:00 – 10:20
Short presentation 4
Roland Zauner
Bioinformatic and functional exploration of microRNAs in recessive dystrophic epidermolysis bullosa
Supervision: Verena Wally, Johann Bauer and Hannelore Breitenbach-Koller

10:20 – 11:10 Coffee Break
Session 2 Characterization of Proteins and Biomolecules

Chair: Hans Brandstetter, Esther Schönauer

11:10 – 11:30
Short presentation 5
Marius Segl
Application of protein A affinity depletion for enhanced HCP identification
Supervision: Christian G. Huber and Therese Wohlschlager

11:30 – 11:50
Short presentation 6
Christof Regl
A Generic HPLC Method for Absolute Quantification of Oxidation in Monoclonal Antibodies and Fc-Fusion Proteins Using UV and MS Detection
Supervision: Christian G. Huber and Therese Wohlschlager

11:50 – 12:10
Short presentation 7
Isabel Hoppe
Biochemical and enzymatic characterization of bacterial collagenases
Supervision: Hans Brandstetter and Esther Schönauer

12:10 – 12:30
Short presentation 8
Kathrin Mikkeleit
The role of UGD for cell wall sugar synthesis in Arabidopsis thaliana
Supervision: Raimund Tenhaken and Anja Geretschläger

12:30 – 14:00 Lunch Break

Session 3 Tumor Biology and Biological research methods

Chair: Fritz Aberger, Wolfgang Gruber

14:00 – 14:20
Short presentation 9
Eva Szenes
Signaling components involved in VLA-4 activation in CLL—biological and therapeutic relevance
Supervision: Tanja N. Hartmann and Richard Greil

14:20 – 14:40
Short presentation 10
Tamara Scheidt
Phosphoproteomic changes in human medulloblastoma cells upon activation and inhibition of the Hh pathway
Supervision: Christian G. Huber and Fritz Aberger

14:40 – 15:00
Short presentation 11
Eva König
Clinical exome sequencing - a story of challenges and successes
Supervision: Peter Lackner and Francisco Domingues

15:20 – 15:40
Disposition talk 1
Elisabeth Peer
Casein kinases as therapeutic targets in HH/GLI-driven cancers
Supervision: Fritz Aberger and Wolfgang Gruber

15:40 – 16:10 Coffee Break
Session 4 Disposition Talks

Chair: Christian Huber, Josef Thalhamer

16:10 – 16:30
Disposition talk 2
Muamera Sarajlic
Effects of Helicobacter pylori on human dendritic cells
Supervision: Jutta Horejs-Höck and Theresa Neuper

16:30 – 16:50
Disposition talk 3
Katharina Müller
Characterization of Biosimilars by CE-ESI-MS
Supervision: Hanno Stutz and Christian G. Huber

16:50 – 17:10
Disposition talk 4
Jonathan Burghofer
Highly Sensitive NGS Methods to Monitor Clonal Dynamics in Tumors Under Therapy
Supervision: Angela Risch and Gerald Webersinke

17:10 – 17:30
Disposition talk 5
Benjamin Swartzwelter
Human macrophages as sentinels for discriminating normal innate response from anomalous reactivity to NP
Supervision: Albert Duschl and Diana Boraschi
Session 5 Biology of Diseases

Chair: Silja Wessler, Gernot Posselt

9:00 – 9:20
Short presentation 1
Bernadette Liemberger
Antisense RNA-mediated improvement of SMaRT therapy for KRT14 correction
Supervision: Johann Bauer and Ulrich Koller

9:20 – 9:40
Short presentation 2
Sabine Bernegger
Regulation of HtrA in Helicobacter pylori pathogenesis
Supervision: Silja Wessler and Gernot Posselt

9:40 – 10:00
Short presentation 3
Michael Unger
Identification of the origin and function of DCX expressing cells around amyloid-beta plaques
Supervision: Johann Brandstetter and Ludwig Aigner

10:00 – 10:40 Coffee Break

Session 6 Plant Biology

Chair: Ilse Foissner, Gerhard Obermeyer

10:40 – 11:00
Short presentation 4
Marketa Absolonova
Local pH changes on the surface of Chara and salinity response
Supervision: Ilse Foissner and Gerhard Obermeyer

Session 7 Plenary Talk

11:00 – 12:00
Keynote talk
Prof. Dr. Richard Moriggl
Too little or too much hematopoiesis relies on STAT5 activity and the tyrosine kinase driver dictates leukemia or lymphoma fate
Ludwig Boltzmann Institute for Cancer Research, Medical University Vienna, Vienna, Austria

12:00 – 13:00 Lunch

End of the Symposium