



18-19 February 2021
Campus Uni Mail, University of Geneva

LS² Annual Meeting 2021
Mechanisms in health, disease and ageing

annual-meeting.ls2.ch



Program of e-Symposia

Friday, 19. 02. 2021
16:00 - 17:45 (CET)

Chemical Biology and Drug Discovery - *DMCCB division of the Swiss Chemical Society*
TOR signaling in health, disease and ageing - *LS2 Molecular & Cellular Biosciences Section*
Endocrine interactions - *LS2 Physiology Section*
System Biology and Molecular Medicine - *LS2 Systems Biology Section*
Precision Pharmacology: Translating Today's Discoveries into Tomorrow's Therapies - *SSEP*

Chemical Biology and Drug Discovery

DMCCB division of the Swiss Chemical Society

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| 16:00 - 16:05 | Welcome note by chairs of the symposium
Christian Heinis (EPFL - CH) |
| 16:05 - 16:35 | Nina Hartrampf (UZH - CH)
<i>Flow-based Synthesis of Chemically Modified Peptides and Proteins</i> |
| 16:35 - 16:55 | Vanessa Pierroz (Promega) - <i>Industry talk</i>
<i>Promega's 3-in-one assay to study autophagy: Autophagy LC3 HiBiT Reporter Assay System</i> |
| 16:55 - 17:05 | Lorenzo Lafranchi (Karolinska Institutet - SE) - <i>Selected from abstracts. Poster#31</i>
<i>Universal Single-Residue Terminal Labels for Fluorescent Live Cell Imaging of Microproteins</i> |
| 17:05 - 17:35 | Stefan Knapp (Johann Wolfgang Goethe University Frankfurt am Main - DE)
<i>Targeting protein scaffolding function in kinases</i> |
| 17:35 - 17:45 | Q&A and closing remarks |



TOR signaling in Health, Disease and Ageing

LS2 Molecular & Cellular Biosciences Section

- 16:00 - 16:05 Welcome note by chairs of the symposium
Robbie Joséph Loewith (UNIGE - CH) & **Claudio De Virgilio** (UNIFR - CH)
- 16:05 - 16:30 **Estela Jacinto** (Rutgers University - US)
mTORC2 and the hexosamine pathway in T cell development and lymphoma
- 16:30 - 16:55 **Matthias Wymann** (University of Basel - CH) - *Sponsored talk*
Targeting the phosphoinositide 3-kinase / target of rapamycin pathway in cancer, immunity, metabolism and neurodegenerative disease
- 16:55 - 17:05 **Chloé Roffay** (university of Geneva) - *Selected from abstracts. Poster #14*
Active regulation of the passive coupling between membrane tension and cell volume changes
- 17:05 - 17:15 **Constantinos Demetriades** (Max Planck Institute for Biology of Ageing - DE) - *Selected from abstract. Poster #44*
A novel mTORC1-GRASP55 signaling axis reshapes the extracellular proteome upon stress
- 17:15 - 17:40 **Joseph Baur** (University of Pennsylvania -US)
Adipocyte mTORC1 maintains systemic lipid homeostasis
- 17:40 - 17:45 Q&A and closing remarks



Endocrine Interactions

LS2 Section Physiology

- 16:00 - 16:05 Welcome note by chairs of the symposium
Thomas Lutz (UZH- CH)
- 16:05 - 16:35 **Hans-Rudolf Berthoud** (Pennington Center in Baton Rouge - US)
Gut-Brain Communication and Bariatric Surgery
- 16:35 - 16:40 **Lavinia Boccia** (University of Zurich - CH) - *Selected from abstracts. Poster #55*
Role of CGRP LPBN neurons in the mediation of amylin's and sCT's anorectic effect
- 16:40 - 16:45 **Tomaz Martini** (University of Fribourg - CH) - *Selected from abstracts. Poster #59*
Glial Per2 regulates mood-related behaviour in mice
- 16:45 - 16:55 **Marie Labouesse** (University of Zurich - CH and Columbia University - US).
Selected from abstracts. Poster #57
New players in the brain circuits of movement: D1 axonal collaterals act as a second "direct" pathway to support motor control
- 16:55 - 17:25 **Christina Boyle** (UZH - CH)
Influence of obesity during pregnancy on the mother's mental and metabolic health
- 17:25 - 17:40 Q&A
- 17:40 - 17:45 Closing remarks

Systems Biology and Molecular Medicine

LS2 Systems Biology Intersection

- 16:00 - 16:05 Welcome note by chairs of the symposium
Yolanda Schærli (UNIL-CH) & **Attila Becskei** (UNIBAS- CH)
- 16:05 - 16:35 **Michael Knop** (University of Heidelberg - DE)
Applications of Multiplexed AnchorSeq insertion site sequencing: from functional genomics to Covid-19 diagnostics
- 16:35 - 16:45 **Benjamin Towbin** (University of Bern - CH). *Selected from abstracts. Poster #74*
Mechanisms of size uniformity during animal growth
- 16:45 - 17:00 **Maria Zimmermann-Kogadeeva** (EMBL Heidelberg - DE). *Selected from abstracts. Poster #75*
Integrated multiomics unravels metabolic diet-microbiota-host interactions
- 17:00 - 17:30 **Mihaela Zavolan** (Biozentrum, UNIBAS- CH)
Modulation of protein synthesis during cellular and organismal life
- 17:30 - 17:40 Q&A
- 17:40 - 17:45 Closing remarks

Precision Pharmacology: Translating Today's Discoveries into Tomorrow's Therapies

Swiss Society of Experimental Pharmacology (SEEP)

- 16:00 - 16:05 Welcome note by chair of the symposium
Gabriele Weitz-Schmidt (UNIBAS- CH)
- 16:05 - 16:25 **Sonja Kleinlogel** (UNIBE - CH)
Precision pharmacology in ocular diseases (gene therapy)
- 16:25 - 16:45 **Christoph Handschin** (UNIBA - CH)
Engaging skeletal muscle for healthy aging: lifestyle and pharmacological interventions
- 16:45 - 16:55 **Ngoc-Hien Du** (University of Zurich). *Selected from abstracts. Poster #72*
Circadian traits as quantitative biomarkers in diabetes
- 16:55 - 17:05 **George M. Ramzy** (University of Geneva - CH). *Selected from abstracts. Poster #22*
Employing complex 3D co-culture models and mathematical modeling to optimize multidrug combinations and boost colorectal carcinoma treatment
- 17:05 - 17:30 **Carole Bourquin** (UNIGE - CH)
Precision pharmacology in cancer immunotherapy
- 17:30 - 17:40 Q&A
- 17:40 - 17:45 Closing remarks