

Department of Biomedicine



DBM Summer Symposium August 22, 2024

Big Lecture Hall, ZLF Hebelstrasse 20, 4031 Basel



Program August 22, 2024

08:00-08:05	Ivan Martin, Welcome
08:05-08:45	Barbara Treutlein, ETH-Z, D-BSSE Keynote Lecture Reconstructing organ development and regeneration with single-cell technologies
Session 1	Chairs: Aimée Zuniga and Victorio Palacio
08:45-08:55	Marion Salvador, Tumor Heterogeneity Metastasis and Resistance PROCR-expressing human mammary stem cells give rise to claudin-low breast cancer with poor prognosis
08:55-09:05	Laura Steiger, Diabetes Research Exocrine pancreas inflammation impairs insulin secretion without affecting β -cell mass
09:05-09:15	Adrien Moya, Bone Regeneration Chondrogenesis, Cell metabolism and Spatial biology using the Hyperion Imaging Mass Cytometry system
09:15-09:25	Terézia Dorčáková, Systems Pharmacology and Biology of Metabolism Systematic gene function annotation in Mycobacterium smegmatis by metabolic profiling of CRISPRi-mediated inactivation of essential genes
09:25-09:50	Break with refreshments
Session 2	Chairs: Petya Apostolova and Andres Garcia-Garcia
09:50-10:00	Amandine Grimm, Molecular Neurosciences Exploring the potential of mitochondrial transplantation as a therapeutic approach against neuronal bioenergetic deficits
10:00 - 10:10	Alessandra Vescovi, Regenerative Angiogenesis VEGF chemically modified mRNA-loaded matrix for vascularized bone engineering
10:10 - 10:20	Lalita Oparija-Rogenmozere, Cancer- & Immunobiology Non-redundant functions of PI3Kg complexes in obesity and metaflammation
10:20-10:30	Marko Hasiuk, Molecular Immune Regulation Tmem127 regulates the T cell proteome and homeostatic IL-7 signaling

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10:30 - 10:40	Sebastian Reinartz, Brain and Sound Sensation of elapsed time in the auditory system
Session 3	Chairs: Tania Rinaldi Barkat and Irenäus Stec
10:40 - 10:50	Rushikesh Sheth, Developmental Genetics Robustness and Plasticity of a Self-Organizing System
10:50 - 11:00	Mattia Marinucci, Visceral Surgery and Precision Medicine Combined Casein Kinase 2 and MAPK signaling inhibition as a therapeutic strategy for me- tastatic colorectal cancer
11:00 - 11:10	Jose Pedro Pereira Loureiro, Experimental Immunology MR1 activates TCR Vy9V52 cells in an antigen-dependent manner
11:10-11:30	David Hauser, Molecular Virology - Business Case Advancing Respiratory Disease Vaccines with Propagation-Deficient Viruses
	Moderated by Marco Lepore, Versant Ventures / Ridgeline Discovery
11:30 - 11:50	Break with refreshments
11:50 - 12:00	DBM Film - Premiere
Session 4	Chairs: Lukas Jeker and Romina Matter
12:00-12:10	Antonio Sileo, Cardiac Surgery and Engineering Enhancing cardiac engineered tissue maturation and functionality using combined passive and active mechanical loading
12:10-12:20	Mika Schneider, Clinical Neuroimmunology Brain viral infection unleashes latent autoimmune response
12:20-12:30	Raphael Schmid, Cartilage Engineering The potential of nasal chondrocyte spheroids for intervertebral disc repair
12:30-12:40	Jan Thomann, Psychopharmacology Research In vitro and in vivo metabolism of psilocybin's active metabolite psilocin
12:40 - 13:00	Award Ceremony and Research Presentation DBM Research Prize Winner 2023/2024

The Department of Biomedicine is a joint venture between the following institutions:







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