

Basel Biomed Symposium 2025

Maurice E. Müller Saal, Biozentrum, University of Basel
May 23, 2025

Program:

08.45: Welcome and Intro (all Organisers)

08.50 – 10.10: **Session I: From Cell Biology to Cell and Tissue Engineering and Therapy**
Chairs: [Ivan Martin](#) / [Prisca Liberali](#)

Ivan Martin (Uni Basel, DBM**) *Introducing the Department of Biomedicine (5')*

Sai Reddi (D-BSSE, ETHZ*) *Next-generation protein engineering for immunotherapy (12')*

Mirjam Christ-Crain (USB*) *Introducing the University Hospital Basel (5')*

Nina Khanna / Heinz Läubli (USB*) *Cell therapies: bridging translation into clinical practice (12')*

Stefanie Urlinger (Cimeio) *Hematopoietic stem cell engineering enables universal blood cancer therapy (12')*

Prisca Liberali (FMI/D-BSSE*) *Cell Coordination in Intestinal Development and Repair (12')*

Botond Roska (IOB*) *Introducing the Institute of Molecular and Clinical Ophthalmology Basel (5')*

Botond Roska (IOB*) *Cell type targeted mitochondria therapy (12')*

Matthias Lütolf (IHB/Roche*) *Introducing the Institute of Human Biology (5')*

10.10: Coffee

10.35 – 11.55: **Session II: Digital Medicine and AI in Medicine**
Chairs: [Daniel Müller](#) / [Kirsten Taylor](#)

Daniel Müller (ETHZ/D-BSSE*) *Introducing the Department of Biosystems Science and Engineering (5')*

Michael Moor (D-BSSE*)

Tool-using medical AI agents (12')

Judith Zaugg (Uni Basel, DBM*)

Systems epigenetics and spatial profiling to study disease mechanisms (12')

Georg Holländer (BRCC*)

Introducing the Basel Centre of Child Health (5')

Jens Eckstein (USB*)

Artificial Intelligence in Medicine: Transforming Diagnostics, Treatment, and Patient Care (12')

Philippe Cattin (Uni Basel, DBE*)

Introducing the Department of Biomedical Engineering (5')

Philippe Cattin (Uni Basel, DBE*)

Leveraging AI and Diffusion Models for Patient Specific Surgical Plans (12')

Kirsten Taylor (Roche)

Digital biomarkers: Remote monitoring of neurologic signs in clinical drug development of neurodegenerative disorders (12')

Jürg Utzinger (Swiss TPH*)

Introducing the Swiss Tropical and Public Health Institute (5')

12.00: Break «Grundsteinlegung» New DBM (Video-Streaming in the Maurice E. Müller Lecture Hall) and Lunch / Networking

13.30 – 14.50: **Session III: From Molecular Pathways to Personalised Medicine and Cancer Therapy**
Chairs: **Primo Schär / Adrian Britschgi**

Markus Lill (Uni Basel, DPS*)

Introducing the Department of Pharmaceutical Sciences (5')

Mohamed Bentires-Alj (Uni Basel, DBM*)

Breast Tumor Heterogeneity and Metastasis – From Mechanisms to Personalised Treatments (12')

Walter Weber (USB*)

Surgical De-escalation to Improve the Quality of Life of Patients with Breast Cancer (12'):

Niklaus Labhardt (Uni Basel, DKF*)

Introducing the Department Clinical Research (5')

Elisabetta Traggiai (Novartis)

T-Cell Engagers, backtranslation from clinic to drug design (12')

Falko Schlottig (FHNW*)

Introducing the School of Life Sciences FHNW (5')

Abdullah Kahraman (FHNW*)

Cancer-specific transcripts as novel biomarker for precision medicine (12')

Adrian Britschgi (Roche/pRED*)

Introducing Roche/pRED (5')

Adrian Britschgi (pRED/Roche*)

Targeting cancer cell intrinsic pathways to tackle colorectal cancer (12')

14.50: Coffee

15.20 – 17.00: **Session IV: From Neuroscience to Neurology**

Chair: Alex Schier / Michaela Kneissel

Alex Schier (Uni Basel, Biozentrum)

Introducing the Biozentrum (5')

Peter Scheiffele (Uni Basel, Biozentrum)

Tuning neuronal wiring and function through selective mRNA translation (12')

Dirk Schübeler (FMI*)

Introducing the Friedrich Miescher Institute for Biomedical Research (5')

Silvia Arber (FMI, Biozentrum*)

Circuits for Movement (12')

Andreas Papassotiropoulos/ Dominique De Quervain (Uni Basel DBM, UPK*)

Genome-guided discovery of memory-enhancing drugs (12')

Cristina Granziera (Uni Basel DBE, USB*)

Neurology 4.0 & beyond (12')

Michaela Kneissel (Novartis)

Introducing Novartis (5')

Derya Shimshek (Novartis)

Modulation of neuroinflammation as therapeutic approach in chronic neurodegenerative diseases (12')

Alexandre Datta (UKBB*)

Introducing the University Children's Hospital Basel (5')

17.00: Apéro / Networking

* DBM, Department of Biomedicine; FMI Friedrich Miescher Institute for Biomedical Research; D-BSSE, Department of Biosystems Science and Engineering (ETHZ); USB, University Hospital Basel; IOB, Institute of Molecular and Clinical Ophthalmology Basel; IHB, Institute of Human Biology Basel; BRCCH, Basel Research Center for Child Health; DBE; Department of Biomedical Engineering; Swiss TPH, Swiss Tropical and Public Health Institute; DPS, Department of Pharmaceutical Sciences; DKF, Department Clinical Research; FHNW, Fachhochschule Nordwestschweiz; UPK, Universitäre Psychiatrische Kliniken Basel; UKBB, Universitäts-Kinderspital Beider Basel