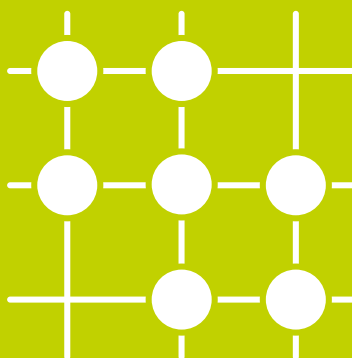


# UKBB Research Day

**D-BSSE ETH Zürich, Klingelbergstrasse 48, Basel, 10.11.2023**



# 10th November, 2023

<b>08.30</b>	<b>Arrival and welcome coffee</b>	<b>Foyer</b>
<b>08.55</b>	<b>Welcome words</b>	<b>Plenum</b> Sven Schulzke
<b>09.00</b>	<b>Plenary Session I</b>	<b>Plenum</b> Chairs: Stephanie Gros/ Urs Frey
09.00	Daniel Müller Head of D-BSSE ETH Zürich; Prof. of Biophysics	Introducing the new neighbours and opportunities: From engineering molecular and cellular systems towards translational medicine
<b>09.20</b>	<b>Presentations Master Students</b>	<b>Plenum</b> Chairs: Stephanie Gros/ Severin Kasser
09.20	Céline Fille	Glycemic control in children and adolescents with type 1 diabetes and attention deficit hyperactivity disorder – a retrospective longitudinal study
09.28	Marlies Gisin	Adolescents and young adults with secondary immune thrombocytopenia – a Swiss/France collaboration project
09.36	Julius Rüth	Construction of a scaffold for intestinal disease
09.44	Tobias Walliser	Sperm analysis in patients with haemoglobinopa- thies - cases presentation and review of the literature
09.52	Lara Zumoberhaus	Treatment in PFAPA- what do we know about effectiveness and safety
<b>10.00</b>	<b>Coffee Break</b>	<b>Foyer</b>

Chairs: Marie-Anne Burckhardt/ Roland Neumann

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**10.20 Short Presentations Session I**

**Plenum**

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|-------|----------------------|--|
| 10.20 | Verena Gotta         | Pharmacometric in silico studies to evaluate risk of potentially neurotoxic cefepime exposure in infants under high-dose treatment |
| 10.30 | Leandra Ramin-Wright | Sample entropy of oxygen saturation in preterm infants; a prospective cohort study   |
| 10.40 | Tomáš Sláma          | Chronic health conditions after childhood Langerhans cell histiocytosis: Results from the Swiss Childhood Cancer Survivor Study    |
| 10.50 | Kapil Dev Singh      | Metabolic trajectories of diabetic ketoacidosis onset described by breath analysis   |
| 11.00 | Bastian Widmer       | Use of natural language processing to predict the diagnoses of patients with gait impairments                                      |
| 11.10 | Michèle Widmer       | CrossFit® to improve gross motor function and gait in adolescents and young adults with cerebral palsy: a pilot study              |

**11.20 Guided Poster Walk**

**Base-  
ment**

Jury: Alexandra Goischke/ Elke Viehweger/ Gabor Szinnai/ Jakob Usemann

**12.45 Lunch**

**Bistro  
EG**

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**13.45 Plenary Session II**

**Plenum**

Chairs: Julia Bielicki/ Jehuda Soleman

Barbara Treutlein  
DBSSE-ETH Zürich  
Prof. of Quantitative Developmental  
Biology Lab

Understanding human brain development with organoids and single cell technologies

**14.10 Short Presentations Session II**

**Plenum**

Chairs: Tatjana Welzel/ Dirk Fischer

- |       |                   |  |
|-------|-------------------|--|
| 14.10 | Rebecca Angresius | Localization of Aquaporin 1 expression in Hirschsprung's Disease and its possible implications |
| 14.20 | Noëmi Künstle     | Differences in autophagy marker levels at birth in preterm vs. term infants                    |

- |       |                   |  |
|-------|-------------------|--|
| 14.30 | Adrian Moya       | Customizable autologous tissue engineered graft for phalanx construction in children with symbrachydactyly                 |
| 14.40 | Julian Muff       | Characterisation of small Intestinal adaptation to chronic Helminth Infection with <i>H. polygyrus</i> in mice             |
| 14.50 | Mélina Richard    | The scent of pain: Metabolic fingerprints of cold pressor test via real-time breath analysis in a multisite clinical trial |
| 15.00 | Gleb Turchinovich | Specific labelling of type 3 innate lymphoid cells using a split-Cre mouse model   |

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**15.10 Spotlight DBE** **Plenum** Chairs: Elke Viehweger/ Alexandre Datta

Philippe Cattin Head of DBE University of Basel Prof. (Center for medical Image Analysis & Navigation (CIAN))	The solution might already exist: A short introduction to the DBE
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**15.20 Coffee Break** **Foyer**

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**15.40 Plenary Session III** **Plenum** Chairs: Pablo Sinues/ Urs Zumsteg

Stephanie Gros UKBB Research Group Leader Prof. of Surgery	Patient-derived models for improving treatment of cancer
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**16.00 Short Presentations Session III** **Plenum** Chairs: Felicitas Bellutti/ Stefan Holland-Cunz

- |       |                   |   |
|-------|-------------------|---|
| 16.00 | Sara Bachmann     | Prediction of nocturnal hypoglycemia in children with type 1 diabetes after physical activity   |
| 16.10 | Benito K. Benitez | Collaborative, comparative study on cleft morphology prior to single-stage unilateral cleft lip and palate repair – effect of passive presurgical plate therapy |
| 16.20 | Andreas A. Müller | Cleft lip and palate surgery simulator: Open source simulation model  |
| 16.30 | Martina Studer    | Spike wave index is negatively associated with episodic memory recall in children with self-limited epilepsy with centrottemporal spikes                        |
| 16.40 | Uri Nahum         | Machine learning-based algorithm as an innovative approach for the differentiation between diabetes insipidus and primary polydipsia in clinical practice       |

16.50 Britta Steffens

Leveraging heart rate as clinical marker to personalize monitoring and treatment of thyroid diseases in children and adults

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**17.00 Plenary Session IV**

**Plenum** Chairs: Verena Gotta/ Sven Schulzke

Julia Bielicki  
UKBB Research Group Leader  
PD Pediatric Infectious Diseases  
Clinical Lead PRC

Innovative trial designs to address pressing child health problems

**17.20 Awards ceremony**

**Plenum**

**17.30 Apéro Riche**

**Foyer or Atrium DG**

## Anmeldung



Anmeldeschluss: 31. Oktober 2023

Online Anmeldung: [www.ukbb.ch/registration-rd-2023](http://www.ukbb.ch/registration-rd-2023)

Vielen Dank unserem Sponsor

STIFTUNG  
Pro UKBB

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