

## IRTG 2251: ICSMD 6<sup>th</sup> Retreat

- **Date:** Tuesday 17<sup>th</sup> September 2024 – Saturday 21<sup>th</sup> September 2024
- **Venue:** Sience Gallery London, Great Maze Pond, London SE1 9GU


**Tuesday, 17<sup>th</sup> September 2024** - Arrival in London

**Wednesday, 18<sup>th</sup> September 2024** - International transCampus Roadshow  
(*separate programme*)

*“New Therapeutic Strategies in Apheresis, Cell & Gene Therapy in Diabetes, and Metabolic & Endocrine Diseases”*

**Thursday, 19<sup>th</sup> September 2024**




08:15-08:45	Presentation drop-off for IRTG retreat
08:45-09:30	<p><b>Opening and update on IRTG 2251</b> Rocio Sancho (IRTG KCL spokesperson), Stefan R. Bornstein (IRTG TUD spokesperson) and Kaomei Guan (IRTG TUD deputy spokesperson)</p>
09:30-10:15	<p><b>Opening lecture</b> “Breaking Barriers: Thailand's Journey Towards Universal Access to Diabetes Care in Type 1 Diabetes” (Taninee Sahakitrungruang, PhD/ School of Global Health, Faculty of Medicine, Chulalongkorn University)</p>
10:15-10:35	Break
10:35-12:35	<p><b>Students presentation session I</b> Chairs: Henning Morawietz TUD, Cynthia Andoniadou KCL</p> <p>1. Maria Cristina Garrone Using patient derived induced-pluripotent stem cells to model Congenital Hyperinsulinism Supervisors: Rocio Sancho KCL, Anne Grapin-Botton TUD</p> <p>2. Olivia Sherwin The effects of stress on pituitary stem cells Supervisors: Cynthia Andoniadou KCL, Charlotte Steenblock &amp; Stefan Bornstein TUD</p> <p>3. Diana Cozma Characterization of the interplay between metabolic disorders, the neuroendocrine stress system and COVID-19 Supervisors: Charlotte Steenblock &amp; Stefan Bornstein TUD, Cynthia Andoniadou KCL</p>

	<p>4. Panagiota Siatra Investigating the plasticity of stem and progenitor cells of the HPA axis during stress adaptation Supervisors: Charlotte Steenblock &amp; Stefan Bornstein TUD, Cynthia Andoniadou KCL</p> <p>5. Maria Alejandra Ramirez Torres Maturation mechanisms of human pluripotent stem cell-derived pancreatic islets (SC-Islets) Supervisors: Anthony Gavalas TUD, Francesca Spagnoli KCL</p> <p>6. Irem Congur Leptin and leptin receptor signalling in diabetic cardiomyopathy Supervisors: Kaomei Guan TUD, Cynthia Andoniadou &amp; Geltrude Mingrone KCL</p> <p>7. Anindita Dhara Natriuretic peptide signaling within the crosstalk of cardiac and immune cells in cardiovascular and metabolic disease Supervisors: Susanne Kämmerer, Ali El-Armouche TUD, Barbara McGowan, Manuel Mayr KCL</p> <p>8. Dipanjana Dolui Systems biology approach to sex differences in the role of islets of Langerhans in metabolism and diabetes Supervisors: Stephan Speier TUD, Peter Jones KCL</p>
12:35-13:30	Lunch
	<b>Students speaker election</b>
13:30-15:45	<p style="text-align: center;"><b>Students presentation session II</b> Chairs: Nikolay Ninov TUD, Paul Talyor KCL</p> <p>1. Karolin Flade TBA Supervisors: Andreas Linkermann TUD, Christer Hogstrand KCL</p> <p>2. James-Kaufman-Cook Role of succinate dehydrogenase (SDH) mutations in pituitary tumorigenesis and the metabolic regulation of pituitary stem cells Supervisors: Cynthia Andoniadou KCL, TBA TUD</p> <p>3. Miriam Vazquez Segoviano Factors controlling the regenerative potential of the pituitary gland by studying the network that promote and maintain the stem cell fate Supervisors: Cynthia Andoniadou KCL, TBA TUD</p>

	<p>4. Kevser Kocas Antiarrhythmic effects of CNP-mediated PDE2 stimulation in diabetic cardiomyopathy and chronic heart failure Supervisors: Susanne Kämmerer, Ali El-Armouche TUD, Barbara McGowan, Manuel Mayr KCL</p> <p>5. Lisa Joy Kaiser In utero treatment for Sickle Cell Disease using solid lipid nanoparticles Supervisor: Rocio Sancho KCL, TBA TUD</p> <p>6. Anika Gronert Assessing the role of pyruvate carboxylase as a glucose sensor in insulin secreting cells Supervisors: Tiago Alves, Barbara Ludwig TUD, Shanta Persaud KCL</p> <p>7. Louis Hewitt Cell Signalling in the Self-organisation of Pancreatic Organoids Anne Grapin-Botton TUD, Rocio Sancho KCL</p> <p>8. Clara Hengst The LOX-1 receptor and endothelial dysfunction in the placenta of women with gestational diabetes mellitus Supervisors: Henning Morawietz TUD, Paul Taylor KCL</p> <p>9. Padmapriya Subramanian Immune-islet crosstalk in <math>\beta</math>-cell regeneration Supervisors: Nikolay Ninov TUD, Timothy Pullen, Shanta Persaud KCL</p>
15:45-16:15	<p><b>Break</b> Group photograph</p>
16:15-17:30	<p><b>Key note lecture / Vision talk</b> „From antibiotic to antiviral therapy: Perspectives from academia and startup“ (Elisabeth Zeisberg, Dean of Transfer &amp; Groupleader at University Medical Center Göttingen, Co-Founder &amp; CEO of Avocet Bio GmbH)</p>
18:15-22:00	<p><b>Social Evening</b> Venue: Tavolino Bar &amp; Kitchen (2 More London Pl, London SE1 2RR, UK)</p>

**Friday, 20<sup>th</sup> September 2024**

08:45–09:30	<p style="text-align: center;"><b>Research perspectives</b></p> <p style="text-align: center;">"Students' emotional experiences with climate change and how universities can help" (Chiara Hill-Harding, University of Glasgow)</p>
09:30-11:45	<p style="text-align: center;"><b>Students presentation session III</b></p> <p style="text-align: center;">Chairs: Susanne Kämmerer (TUD), Geltrude Mingrone (KCL)</p> <ol style="list-style-type: none"> <li>1. Iván Tibor Herczeg Inter-organelle interactions in pancreatic islet function and regeneration Supervisors: Nikolay Ninov TUD, Timothy Pullen, Shanta Persaud KCL</li> <li>2. Fatima Kanwal Baig Leptin and leptin receptor signaling in diabetic cardiomyopathy Supervisors: Kaomei Guan TUD, Cynthia Andoniadou, Geltrude Mingrone KCL</li> <li>3. Maria de Leyre Villar-Ballesteros Exercise prevents impact of gestational diabetes mellitus on fetal endothelial function Supervisors: Henning Morawietz TUD, Paul Taylor, Lucilla Poston KCL</li> <li>4. Laura Dowling Identification of islet-derived signals involved in beta-cell plasticity and autoimmunity in T1D Supervisors: Nikolay Ninov TUD, Timothy Pullen, Shanta Persaud KCL</li> <li>5. Anna Salkowa Cell fate decisions during human pancreatic b-cell development Supervisors: Francesca Spagnoli KCL, TBA TUD</li> <li>6. Rui Wang The pancreas development regulation of Zinc transporter slc39a9 (zip9) in zebrafish Supervisors: Christer Hogstrand KCL, Ünal Coskun TUD</li> <li>7. Jenny Gehlen Establishment of a synthetic PEG hydrogel system to study how biochemical and mechanical extracellular cues affect cell fate decisions in pancreatic organoids Supervisor: Rocio Sancho KCL, TBA TUD</li> <li>8. Preethi Kesavan Dissecting the pro-proliferative role of the ICA512-STAT5 pathway in <math>\beta</math>-cells during pregnancy Supervisors: Michele Solimena TUD, Rocio Sancho &amp; Anthony Hopkins KCL</li> </ol>

	<p>9. Natalie Bethe TBA Supervisors: Andreas Linkermann TUD, Christer Hogstrand KCL</p>
11:45-12:00	<b>Closing and Farewell for the IRTG PIs</b>
12:00-13:00	Lunch
12:30-13:00	<b>Steering Committee Meeting</b>
<p>13:00-15:00</p> 	<p style="text-align: center;"><b>Student workshop I</b>          ""Scientific publishing – expand your box" incl. Panel discussion  <b>Student chairs:</b> Louis Hewitt, Laura Dowling, James-Kaufman-Cook  <b>Guests:</b>          TBA          Rocio Sancho (Group Leader King´s College London)</p>
<p>15:00-16:30</p> 	<p style="text-align: center;"><b>Student workshop II</b>          "Career development after PhD- Experience exchange"  <b>Student chairs:</b> Louis Hewitt, Laura Dowling, James-Kaufman-Cook  <b>Guests:</b>          Carolin Heller (Postdoc TU Dresden)          Anna Strano, PhD (Postdoc TU Dresden)          TBA</p>
<p>19:00 –22:00</p> 	<b>Students Night</b>

**Saturday, 21<sup>th</sup> September 2024 - Departure**