BIH, Charité, MDC Focus Area

“Single Cell Approaches for Personalized Medicine”

Kick-Off Symposium

May 20th 2021, 3pm – 7pm

3:00pm - 3:10pm  Introduction and Welcome

Heyo Kroemer  
Chief Executive Officer of Charité

Christopher Baum  
Chair of the Berlin Institute of Health (BIH) Board of Directors and  
Chief Translational Research Officer of Charité

Nikolaus Rajewsky  
Scientific Director of the Berlin Institute for Medical Systems Biology (BIMSB)  
Speaker Focus Area

Angelika Eggert  
Head of Department of Pediatric Oncology and Hematology, Charité  
Co-speaker Focus Area

Moderator: Nikolaus Rajewsky

3:10pm - 3:50pm  Focus Area Core Projects

3:10pm  Leif Ludwig  
Single Cell Group Leader; BIH, Charité, MDC and Emmy-Noether Fellow

“Single-Cell Mitochondrial Genomics – from Stem Cell Dynamics to Human Phenotypes”

3:20pm  Simon Haas  
Single Cell Group Leader; BIH, Charité, MDC

“Precision hematology – from single-cell technologies to clinical implementation”
3:30pm  Stefanie Grosswendt  
*Single Cell Group Leader; BIH, Charité, MDC*

Angelika Eggert  
*Charité*

“*Cell state heterogeneity of an embryonal malignancy*”

3:40pm  Ashley Sanders  
*Single Cell Group Leader; Max Delbrück Center for Molecular Medicine (MDC), BIH, Charité*

Britta Siegmund  
*Head of Department of Gastroenterology, Infectious Diseases and Rheumatology, Charité*

“*Single cell analysis redefining inflammatory bowel disease*”

3:50pm - 4:00pm  BREAK

*Moderators:*  Stefanie Grosswendt  
Simon Haas

4:00pm - 4:50pm  Single Cell Clinical Projects: Highlights

4:00pm  Il-Kang Na  
*Department of Hematology, Oncology and Cancer Immunology, Charité*

“*Clonal tracking of immune cell subsets in allogeneic hematopoietic stem cell transplantation*”

4:10pm  Thomas Conrad  
*Head of the Single Cell Genomics Facility, BIH/MDC*

“*Parallel ATAC + RNA-Seq reveals genome regulation at single cell resolution*”
4:20pm  Kai Schmidt-Ott  
*Department of Nephrology and Medical Intensive Care, Charité*

Philipp Enghard  
*Department of Nephrology and Medical Intensive Care, Charité*

“Unraveling the molecular basis of acute kidney injury by single-cell transcriptomics”

4:30pm  Philip Bischoff  
*Institute of Pathology, Charité*

“Microenvironment-guided risk stratification in non-small cell lung cancer”

4:40pm  Julia Onken  
*Department of Neurosurgery, Charité*

“Recurrent Glioblastoma- an ideal use-case for single cell sequencing”

4:50pm - 5:00pm  **Break Out Rooms “Meet-the-Speakers”**

5:00pm - 5:30pm  **BREAK**

5:30pm - 5:45pm  **Single Cell Technologies in the BIH/MDC Genomics Platform**

Thomas Conrad  
*BIH, MDC*
5:45pm - 6:15pm  **The Future**

5:45pm  Nikolaus Rajewsky  
*BIMSB*

**Contact:**  Stan Gorski  
*BIMSB Science Strategy, MDC*

*“The Berlin Cell Hospital”*

6:00pm  Angelika Eggert  
*Charité*

**Contact:**  Marie Vidal  
*BIMSB Industry and Innovation, MDC*

*“Virchow 2.0 Innovation Cluster”*

6:15pm  Simon Haas  
*BIH, Charité, MDC*

**Contact:**  Chiara Baccin  
*Single Cell Project Manager, MDC*

*“Single-Cell-SysMed Summer School”*

6:25pm - 6:40pm  **Break Out Rooms**

6:40pm - 6:55pm  **Closing Remarks**

Axel Pries  
*Dean of Charité’s Medical Faculty*

Thomas Sommer  
*Scientific Director MDC (interim)*

Nikolaus Rajewsky  
*BIMSB*

Angelika Eggert  
*Charité*