

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

Moderators: Ashley Sanders

Leif Ludwig

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