

# CMMC Annual Retreat

February 21 - 22, 2018



**CMMC Report - Short Talks - CMMC Lecture  
Poster Session - Discussions - Networking**

**Venue  
Lecture Hall  
Max Planck Institute for Biology of Ageing  
Joseph-Stelzmann-Str. 9b**

# Program

Wednesday - Feb. 21, 2018 - Part I

9.00 - 10.00 a.m. Meeting of the CMMC Executive Board (for members of the EC Board only)

10.00 - 10.30 a.m. Welcome address  
Introduction and CMMC Progress Report (General assembly part I)  
Thomas Benzing - Chair of the CMMC

**Presentations** **Junior Research Groups**

**Chair** **Guenter Schwarz - Institute of Biochemistry**

10.30 - 10.50 a.m. JRG VII Topological disruption of enhancers landscapes as an etiological mechanism of human congenital disease  
Alvaro Rada-Iglesias - Lab. of Developmental Genomics, CMMC

10.50 - 11.10 a.m. JRG IX Targeting cilium checkpoint to perturb glioma stem cells proliferation  
Jay Gopalakrishnan - Lab. of Centrosome and Cytoskeleton Biology, CMMC

11.10 - 11.30 a.m. A 6 Yin-Yang lncRNA yyIncT acts as a gatekeeper of the mesodermal transcriptional program  
Leo Kurian - Inst. for Neurophysiology / CMMC

11.30 - 12.00 p.m. Coffee Break - with poster presentation

**Research Area C** **Molecular mechanisms and metabolic control of tissue degeneration and regeneration**

**Chair** **Martin Krönke - Inst. for Med. Microbiology, Immunology and Hygiene**

12.00 - 12.20 p.m. C 5 Mitochondrial energetics and its contribution to podocyte function  
CAP 1 Sebastian Brähler - RG Brinkkötter - Dept. II of Internal Medicine

12.20 - 12.40 p.m. C 7 TOR signalling in epidermal homeostasis  
Sabine Eming<sup>1</sup> / Maria Leptin<sup>2</sup> - Dept. of Dermatology<sup>1</sup> / Institute for Genetics<sup>2</sup>

12.40 - 1.00 p.m. CAP 10 Molecular mechanisms of pulmonary alveolar and vascular development  
Miguel A Alejandre Alcazar - Dept. of Children and Adolescent Medicine

1.00 - 2.30 p.m. Lunch - with poster presentation

**Chair** **Brunhilde Wirth - Institute for Human Genetics**

2.30 - 2.50 p.m. C 11 Investigating the roles of CSNK2B and LEF1 mutations in the etiology of Filippi syndrome and ectrodactyly ectodermal dysplasia  
Muhammad Sajid Hussain<sup>1</sup> / Angelika A Noegel<sup>1</sup> / Peter Nürnberg<sup>2</sup> - Inst. for Biochemistry I<sup>1</sup> / Cologne Center for Genomics<sup>2</sup>

2.50 - 3.10 p.m. C 12 APEX-based proximity labeling identifies actin binding proteins as new components of primary cilia  
Bernhard Schermer<sup>1</sup> / Max C Liebau<sup>2</sup> - Dept. II of Internal Medicine<sup>1</sup> / Dept. of Children and Adolescent Medicine<sup>2</sup>

3.10 - 3.30 p.m. General assembly part II  
Thomas Benzing - Chair of the CMMC

3.30 - 3.45 p.m. Coffee Break - with poster presentation

## Wednesday - Feb. 21, 2018 - Part II

Research Area C Molecular mechanisms and metabolic control of tissue degeneration and regeneration

Chair Carien Niessen - CECAD

3.45 - 4.05 p.m. C 13 The mechanism of nitrite-dependent NO synthesis by sulfite oxidase  
Guenter Schwarz - Institute for Biochemistry

4.05 - 4.25 p.m. C 14 Extracellular microfibrillar systems in disease pathogenesis  
Gerhard Sengle / Raimund Wagner / Mats Paulsson - Institute for Biochemistry II

4.25 - 4.45 p.m. C 16 Unraveling the molecular and cellular mechanism underlying  
spinal muscular atrophy by use of genetic modifiers  
Brunhilde Wirth - Institute for Human Genetics

4.45 - 5.00 p.m. Coffee Break - with poster presentation

Laudatio Thomas Benzing - Center for Molecular Medicine

5.00 - 6.00 p.m. Keynote Lecture Senescence in cancer: Restore, prevent or eliminate?  
Clemens Schmitt  
Charité Universitätsmedizin and Max-Delbrück-Center for Molecular Medicine, Berlin, DE

6.00 - 6.15 p.m. Change of location for the CMMC Dinner  
Walking distance to the CMMC Research Building 5 min.

from 6.15 p.m. CMMC Dinner  
starting with a Welcome Reception followed by the  
CMMC Dinner Buffet  
Location: CMMC Research Building - Robert-Koch-Str. 21



Thursday - Feb. 22, 2018

**Research Area A**                      **Mechanisms of tumor development: intrinsic and extrinsic control of cell proliferation and tissue invasion**

**Chair**                                      **Mirka Uhlirova - CECAD**

9.00 - 9.20 a.m.      JRG VIII      **Impact of a rare progeroid syndrome onto genomic structure and function**  
Argyris Papantonis - Lab. of Systems Biology of Chromatin, CMMC

9.20 - 9.40 a.m.      A 10      **Epigenetic mechanisms of genomic instability and therapy resistance in cancer**  
Michal-Ruth Schweiger - Lab. for Epigenetics and Tumorigenetics

9.40 - 10.00 a.m.      A 4      **The multiple facets of the type II transmembrane serine protease ST14 and hypotonic stress during carcinogenesis in fish and mammals**  
Matthias Hammerschmidt - Institute for Zoology

10.00 - 10.20 a.m.                      Coffee Break - with poster presentation

**Chair**                                      **Catherin Niemann - Inst. for Biochemistry I**

10.20 - 10.40 a.m.      A 9      **Modeling Myd88-driven lymphoma**  
Gero Knittel<sup>1</sup> / Martin Peifer<sup>2</sup> - Dept. I for Internal Medicine<sup>1</sup> / Dept. of Translational Genomics<sup>2</sup>

10.40 - 11.00 a.m.      A 1      **The multifaceted function of the lysine-specific histone demethylase 1 in lung cancer**  
Margarethe Odenthal / Reinhard Büttner - Institute for Pathology

11.00 - 11.20 p.m.      B 1      **Metabolic addiction and reprogramming of an anti-tumor T cell response**  
Hinrich Abken - Dept. I of Internal Medicine

11.20 - 11.40 a.m.                      Coffee Break - with poster presentation

**Research Area B**                      **Principles of immunity, inflammation and infection**

**Chair**                                      **Olaf Utermöhlen - IMMIH / Argyris Papantonis - CMMC**

11.40 - 12.00 a.m.      Assoc. RG      **Building a pipeline for the identification of new broadly neutralizing antibodies against HIV-1**  
Philipp Schommers - RG Klein - Institute for Virology

12.00 - 12.20 p.m.      B 2      **Inflammatory pathways propagating ventricular arrhythmia - the role of myeloperoxidase for postischemic pro-arrhythmic remodeling**  
Stephan Baldus / Martin Mollenhauer / Volker Rudolph - Dept. III of Internal Medicine

12.20 - 12.40 p.m.      CAP 12      **Tumor-specific endogenous immune response in esophago-gastric adenocarcinoma**  
Hans A Schlösser - Department of General, Visceral and Cancer Surgery

12.40 - 1.00 p.m.                      **Final discussion and leave-taking**  
Thomas Benzing - Chair