CMMC SYMPOSIUM



25 Years of Progress

in Molecular Medicine: From Basic Research to Clinical Application

















Sunday - Sept. 26, 2021

12.45 p.m. Welcome Address

Axel Freimuth - Rector of the University of Cologne

Thomas Benzing - Chair - Center for Molecular Medicine Cologne, University of Cologne

Session I Stem Cell Biology and Regenerative Medicine

Chairs Claus Cursiefen and Carien Niessen - Cologne, DE

1.00 - 1.10 p.m. Introduction of the research field

1.10 - 1.40 p.m. Title to be announced

Rudolph Jaenisch - Whitehead Inst. for Biomedical Research and Dept. of Biology,

Massachusetts Institute of Technology - Cambridge, US

1.40 - 2.10 p.m. Mechanisms of mammalian cell fate decisions

Thomas Graf - Centre for Genomic Regulation (CRG) - Barcelona, ES

2.10 - 2.40 p.m. Title to be announced

Fiona M Watt - Centre for Stem Cells & Regenerative Medicine, King's College - London, GB

2.40 - 3.10 p.m. Break

3.10 - 3.40 p.m. Title to be announced

Konrad Hochedlinger - Massachusetts General Hospital, Harvard Dept. of Stem Cell and

Regenerative Biology and Howard Hughes Medical Institute - Boston, US

3.40 - 4.10 p.m. Title to be announced

Lorenz Studer – Memorial Sloan Kettering Cancer Center - New York, US

4.10 - 4.40 p.m. Advanced genetic engineering of hematopoiesis to treat inherited diseases and cancer

<u>Luigi Naldini</u> - San Raffaele Telethon Inst. for Gene Therapy and Vita-Salute San Raffaele

University - Milan, IT

4.40 - 5.00 p.m. Break

Special CMMC Lecture

5.00 - 5.30 p.m. Introduction - Thomas Krieg - Cologne, DE

The Center for Molecular Medicine Cologne: the last 25 years and the future

Franz Hofmann

Institute for Pharmacology and Toxicology, Technical University Munich - Munich, DE

CMMC Poster Awards

5.30 - 6.00 p.m. Presentation of the three poster prize winners followed by three short talks (5 min.)

Chair: Michal-Ruth Schweiger

Call for submission of poster abstracts

Deadline: August 06, 2021

Participants are invited to submit abstracts for poster presentation related to the topics:

- Stem Cell Biology and Regenerative Medicine
- Molecular Oncology and Genomic Medicine
- Precision Medicine in Cancer Treatment
- Infectious Diseases
- Neuroplasticity and Neurodegeneration
- Metabolism and Aging

For more information: Poster Presentation - CMMC Symposium 2021

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Session II	Molecular Oncology and Genomic Medicine
Chairs	Reinhard Büttner and Michal Ruth Schweiger - Cologne, DE
8.30 - 8.40 a.m.	Introduction of the research field
8.40 - 9.10 a.m.	Title to be announced Peter Lichter - German Cancer Research Center, DKFZ, Heidelberg, DE
9.10 - 9.40 a.m.	Mutational footprints of cancer therapies Núria López-Bigas - The Barcelona Institute of Science and Technology (BIST) - Barcelona, ES
9.40 - 10.10 a.m.	The Human Cell Atlas: mapping the body one cell at a time Sarah Teichmann - Cellular Genetics, Wellcome Sanger Institute - Hinxton, GB
10.10 - 10.30 a.m.	Break
10.30 - 11.00 a.m.	Somatic mutations in normal tissues (tentative) Sir Mike Stratton - Wellcome Sanger Institute Cambridge, GB
11.00 - 11.30 a.m.	Mapping childhood brain tumors onto normal cerebellar development Stefan Pfister - University Hospital Heidelberg - Heidelberg, DE
11.30 - 12.30 p.m.	Break with Poster Presentation
Session III	Precision Medicine in Cancer Treatment
Chairs	Thomas Benzing and Christiane J Bruns - Cologne, DE
12.30 - 12.40 p.m.	Introduction of the research field
12.40 - 1.10 p.m.	The role of stress signaling in cancer and cancer treatment <u>Michael B Yaffe</u> - MIT and Koch Institute for Integrative Cancer Research - Cambridge, US
1.10 - 1.40 p.m.	Exploiting synthetic lethality in the treatment of cancer Chris J Lord - Breast Cancer Now Toby Robins Research Centre - London, GB
1.40 - 2.10 p.m.	The making of diffuse large B cell lymphoma <u>Laura Pasqualucci</u> - Institute for Cancer Genetics, Columbia University - New York, US
2.10 - 2.30 p.m.	Break
2.30 - 3.00 p.m.	Lymphoma epigenetics Ari M Melnick - Weill Cornell Medicine - New York, US
3.00 - 3.30 p.m.	10 years checkpoint blockade – what have we learned? <u>Dirk Schadendorf</u> - Dept. of Dermatology, Univ. Hospital Essen, Univ. Duisburg - Essen, DE
3.30 - 4.00 p.m.	Break
Session IV	Infectious Diseases
Chairs	Martin Krönke - Cologne, DE and Ulrike Protzer - Munich, DE
4.00 - 4.10 p.m.	Introduction of the research field Ralf Bartenschlager - Dept. of Infectious Diseases, University Hospital Heidelberg - Heidelberg, DE
4.10 - 4.40 p.m.	Towards a curative therapy for Hepatitis B and D co-infected patients Stephan Urban - Dept. of Infectious Diseases, Univ. Hospital Heidelberg - Heidelberg, DE
4.40 - 5.10 p.m.	Monoclonal antibodies to prevent and treat viral infections Florian Klein - Institute for Virology, University of Cologne - Cologne, DE
5.10 - 5.30 p.m.	Break
5.30 - 6.00 p.m.	Respiratory virus pathogenicity in high-risk groups <u>Gülsah Gabriel</u> - Heinrich-Pette-Institute, Leibniz Inst. for Experimental Virology - Hamburg, DE
6.00 - 6.30 p.m.	Vaccines and monoclonals to regain our freedom Rino Rappuoli - Research and Development (R&D) at GlaxoSmithKline Vaccines - Siena, IT
6.30 - 7.00 p.m.	Survival strategies of malaria parasites in the dry season Silvia Portugal - Max Planck Institute for Infection Biology - Berlin, DE

Tuesday - Sept. 28, 2021

Session V Neuroplasticity and Neurodegeneration

Chairs	Tatiana Korotkova and Wilhelm Stoffel - Cologne, DE
9.00 - 9.10 a.m.	Introduction of the research field
9.10 - 9.40 a.m.	Dynamic control of presynaptic function in health and disease Nils Brose - Max Planck Institute for Experimental Medicine - Goettingen, DE
9.40 - 10.10 a.m.	Neuronal correlates of emotion states in mice Nadine Gogolla - Max Planck Institute of Neurobiology - Munich, DE
10.10 - 10.40 a.m.	Tau toxicity at the synapse Patrik Verstreken - VIB-KU Leuven Center for Brain & Disease Research - Leuven, BE
10.40 - 11.00 a.m.	Break
11.00 - 11.30 a.m.	Negative feedback control of neuronal activity by microglia <u>Anne Schaefer</u> - Icahn School of Medicine at Mount Sinai - New York, US
11.30 - 12.00 p.m.	Mechanisms for fast dopamine signaling Pascal S Kaeser - Department of Neurobiology, Harvard Medical School - Boston, US
12.00 - 1.00 p.m.	Break

Session VI Metabolism and Aging

Chairs	Sabine Eming and Aleksandra Trifunovic - Cologne, DE
1.00 - 1.10 p.m.	Introduction of the research field
1.10 - 1.40 p.m.	CNS-dependent control of metabolism <u>Jens C Brüning</u> - Max Planck Institute for Metabolism Research, Univ. Hospital Cologne - Cologne, DE
1.40 - 2.10 p.m.	Hormone sensing in astrocytes for the control of systemic metabolism Cristina García Cáceres - Helmholtz Zentrum München - Neuherberg, DE
2.10 - 2.30 p.m.	Break
2.30 - 3.00 p.m.	Title to be announced Lora Heisler - The Rowett Institute, Univ. of Aberdeen - Aberdeen, GB
3.00 - 3.30 p.m.	Mechanisms of stem cell aging and rejuvenation <u>Anne Brunet</u> - Stanford University School of Medicine - Stanford, US
3.30 - 4.00 p.m.	Title to be announced Andrew Dillin - Dept. of Molecular and Cell Biology, Univ. of California Berkeley - Berkeley, US
4.00 - 4:10 p.m.	Summary, open questions, concluding remarks

General Information: The meeting is open and no registration or attendance fee is required. Participation is free of charge - free registration is required. Please sign up here.

Venue: Main Lecture Hall, Faculty of Medicine, University of Cologne Access only possible from Joseph-Stelzmann-Str. 26 - please follow the yellow CMMC Symposium signs.

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