30th Ernst Klenk Symposium in Molecular Medicine of the Center for Molecular Medicine Cologne (CMMC)

DNA Damage Response and Repair Mechanisms in Aging and Disease

Sept. 21 - 23, 2014

Program

Scientific Coordinator

Jan H. J. Hoeijmakers
Dept. of Genetics, Erasmus Medical Center - Rotterdam, NL

Cologne Ernst Klenk Symposium Board 2014

Björn Schumacher (Chair) - Thomas Benzing - Michael Hallek - Thorsten Hoppe Catherin Niemann - Carien Niessen - H. Christian Reinhardt - Bernd Wollnik

in collaboration with

CECAD Cologne • ITN CodeAge • Clinical Trials Centre Cologne (ZKS Köln)
University Hospital Cologne • CRC 829 • CRC 670
BioRiver - Life Science im Rheinland e.V.

Participation in the meeting is free of charge.

Further information and free registration:

www.zmmk.uni-koeln.de/events/ernst_klenk_symposium/klenk_2014

Venue

Main Lecture Hall of the Centers for Biochemistry and Physiology Medical Faculty, University of Cologne Joseph-Stelzmann-Str. 52, 50931 Cologne

Organized by

Center for Molecular Medicine Cologne (CMMC), University of Cologne Debora Grosskopf-Kroiher and the CMMC Team in collaboration with Cologne Convention Bureau

We gratefully acknowledge support by:

Ewald Innovationstechnik GmbH • LMS Consult (status quo December 2013)

Sunday - Sept. 21, 2014

12.50 p.m. Welcome Address

Axel Freimuth

Rector University of Cologne

	Thomas Benzing Chair – Center for Molecular Medicine Cologne (CMMC)
Session I	DNA repair mechanisms
	pending DNA-Protein Crosslink Repair Stefan Jentsch Max Planck Institute of Biochemistry, Martinsried - Germany
1.30 – 2.00 p.m.	Responses to replication stress and DNA DSBs: Mechanisms and relevance to cancer Jiri Bartek The Danish Cancer Society Research Center, Copenhagen - Denmark
2.00 – 2.30 p.m.	Ubiquitin-dependent degradation at the chromatin Thorsten Hoppe CECAD Cluster of Excellence in Aging Research (CECAD), Cologne - Germany
2.30 – 3.00 p.m.	Coffee Break
3.00 – 3.30 p.m.	Structural mechanisms of sensing and signaling DNA double-strand breaks Karl-Peter Hopfner Ludwig-Maximilians-University Munich - Germany
3.30 – 4.00 p.m.	Metabolic pathways influencing the DNA damage response Marco Foiani Fondazione Istituto FIRC di Oncologia Molecolare, Milan - Italy
4.00 – 4.30 p.m.	Coffee Break
4.30 – 5.00 p.m.	Chromatin assembly from nucleosome to heterochromatin: the issue of DNA damage Genevieve Almouzni Institut Curie Research Centre, Paris - France
5.00 - 5.30 p.m.	Mechanisms and DNA structures mediating replication of damaged chromosomes Dana Branzei Fondazione Istituto FIRC di Oncologia Molecolare, Milan - Italy

5.30 - 8.00 p.m. Poster Session (incl. Selection of three Posters for the Poster Awards)

Welcome Get-Together with Fingerfood for all Participants

Monday – Sept. 22, 2014		
Session II	DNA Damage Repair in aging and cancer	
Chair	pending	
9.00 – 9.30 a.m.	The Multifaceted Mismatch Repair Josef Jiricny University of Zurich - Switzerland	
9.30 – 10.00 a.m.	Genomic instability and altered DNA damage responses in progeria syndromes Bernd Wollnik Center for Molecular Medicine Cologne, Univ. of Cologne - Germany	
10.00 – 10.30 a.m.	Exploring the role of replicative stress in cancer and aging Óscar Fernández-Capetillo Spanish National Research Cancer Centre, Madrid - Spain	
10.30 – 11.00 a.m.	Coffee Break	
11.00 – 11.30 a.m.	Delineating DNA damage pathways in telomere shortening induced aging Karl Lenhard Rudolph Leibniz Institute for Age Research, Fritz Lipmann Institute, Jena - Germany	
11.30 – 12.00 p.m.	The common hallmarks of aging and cancer: messages from the nuclear envelope Carlos Lopez-Otin Universidad de Oviedo - Spain	
12.00 – 12.30 p.m.	TORC2 controls genome stability following zeocin- or ionizing radiation-induced damage Susan M. Gasser	

ession III	Systemic DNA response and immunity
Chair	Pending
2.00 – 2.30 p.m.	Starvation, nutrient signaling, and DNA damage Valter Longo University of Southern California, Los Angeles - USA
2.30 – 3.00 p.m.	title pending Michael T. Hemann The Koch Institute Kendall Square, Cambridge - USA
3.00 – 3.30 p.m.	title pending Lars Zender University Hospital Tuebingen - Germany
3.30 – 3.50 p.m.	Coffee Break
3.50 – 4.00 p.m.	Presentation of the Poster Awards
4.00 – 4.30 p.m.	Systemic DNA damage responses Björn Schumacher CECAD Cluster of Excellence in Aging Research (CECAD), Cologne - Germany
4.30 – 5.00 p.m.	Control of innate immune homeostasis and regeneration by stress signaling Heinrich Jasper Buck Institute for Research on Aging, Novato - USA
5.00 – 5.30 p.m.	DNA-damage induced differentiation as an anti-cancer barrier Andre Nussenzweig Laboratory of Genome Integrity, National Institute of Health, Bethesda - USA
5.30 – 6.00 p.m.	Coffee Break with Snacks

Friedrich Miescher Institute for Biomedical Research, Basel - Switzerland

12.30 - 2.00 p.m. Lunch Break (Soup and Sausages for all participants at the venue)

6.00 – 7.00 p.m. Laudation: Björn Schumacher - CMMC & CECAD Cologne, Univ. of Cologne

Ernst Klenk
DNA damage and its impact on aging: getting aging

Lecture
in mice largely under control
Jan H. J. Hoeijmakers - Erasmus MC, Rotterdam, NL

Tuesday - Sept. 23, 2014

Session IV Targeting DNA repair and cancer therapy

Chair pending

9.00 - 9.30 a.m. Exploiting Synthetic lethality approaches in treating cancer

Christopher J. Lord

Institute of Cancer Research, London - UK

9.30 - 10.00 a.m. Targeting the Fanconi Anemia/BRCA Pathway in cancer therapy

Alan D'Andrea

Dana-Farber Cancer Institute, Boston - USA

10.00 - 10.30 a.m. Breaking bad: Causes and consequences of genomic instability

Steven Elledge

Harvard Medical School, Boston - USA

10.30 - 11.00 a.m. Coffee Break

11.00 - 11.30 a.m. Unraveling therapy response and resistance in mouse models of BRCA1-

deficient breast cancer

Jos Jonkers

The Netherlands Cancer Institute, Amsterdam - The Netherlands

11.30 - 12.00 p.m. Sanitizing the damaged dNTP pool for replication fidelity, basic science to

cancer treatment

Thomas Helleday

Karolinska Institutet, Stockholm - Sweden

12.00 - 12.30 p.m. Targeting defects in the DNA damage response for personalized

cancer therapy

H. Christian Reinhardt

CECAD Cluster of Excellence in Aging Research (CECAD), Cologne - Germany

12.30 - 12.45 p.m. Summary, open questions, concluding remarks

Jan H. J. Hoeijmakers and Björn Schumacher

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Contact

Dr. Debora Grosskopf-Kroiher

Center for Molecular Medicine of the University of Cologne (CMMC)

CMMC Research Building, Robert-Koch-Str. 21, 50931 Cologne, Germany

Phone: +49 (0)221 478 5552, Fax: +49 (0)221 478 4833

E-mail: debora.grosskopf-kroiher@uni-koeln.de

Childcare is provided by Spielland, University of Cologne.

Registration is required, please contact Debora Grosskopf-Kroiher.

For directions please visit: http://www.medizin.uni-koeln.de/zb/zik/anfahrt

status quo: Feb. 14, 2014

