

26. Ernst Klenk Symposium in Molecular Medicine

NOX Family NADPH Oxidases as Therapeutic Targets

November 04 – 06, 2010

Program including Poster Presentation

Scientific Organizers

Karl-Heinz Krause (Geneva, CH) - Martin Krönke (Cologne, DE)

Certified with a total of 15 points by the
Nordrheinische Akademie für ärztliche Fort- und Weiterbildung, Düsseldorf

Venue

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

Participation in the meeting is free of charge.

Further information and free registration:

www.zmmk.uni-koeln.de

Organization

Center for Molecular Medicine Cologne (CMMC)

We gratefully acknowledge support from:

BioCampus Cologne • Bayer Schering Pharma AG
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Thursday – November 04, 2010

1.00 p.m.	Welcome Address Axel Freimuth Rector – University of Cologne Martin Krönke Chairman – Center for Molecular Medicine Cologne (CMMC)
Session I: NOX Inhibitors	
Chair:	Robert A. Clark – University of Texas, San Antonio – USA
1.10 – 1.50 p.m.	Introductory Lecture Why Do We Need (New) NOX Inhibitors? J. David Lambeth Emory University, Atlanta – USA
1.50 – 2.10 p.m.	NOX Inhibitors: Potential On-Target Side Effects Vincent Jaquet University of Geneva, Geneva – Switzerland
2.10 – 2.30 p.m.	Short Presentation – pending –
2.30 – 3.10 p.m.	NADPH Oxidase (NOX) Inhibitors for the Reactive Oxygen driven Tumor Jack L. Arbiser Emory University, Atlanta – USA
3.10 – 3.40 p.m.	<i>Coffee Break</i>
Chair:	Helmut Acker – University of Duisburg-Essen – Germany
3.40 – 4.20 p.m.	Specific NOX Inhibition and Validated Targets Harald H. W. Schmidt Maastricht University, Maastricht – The Netherlands
4.20 – 5.00 p.m.	GKT NOX Inhibitors Cédric Szyndralewicz GenKyoTex S. A., Geneva – Switzerland
5.00 – 5.40 p.m.	Identification of a Novel Nox1 Inhibitor by High-Throughput Screening of Chemical Libraries Davide Gianni Scripps Research Institute, La Jolla – USA
5.40 – 6.20 p.m.	A Decade of Discovery, from Nox2dS to HTS Patrick J. Pagano University of Pittsburgh, Pittsburgh – USA
6.20 p.m.	Welcome Get-Together with Fingerfood for all Participants and Poster Presentation

Friday – November 05, 2010

Session II: From NOX Activators to Myeloperoxidase Inhibitors

- Chair:** Beat A. Imhof – University of Geneva, Geneva – Switzerland
- 9.00 – 9.40 a.m.** **NOX Activators: Potential Use in Autoimmune Disease**
Rikard Holmdahl
Karolinska Institute, Stockholm – Sweden
- 9.40 – 10.20 a.m.** **Myeloperoxidase - Specific Inhibitors: Do They Exist and what are Possible Indications?**
William M. Nauseef
University of Iowa, Iowa City – USA
- 10.20 – 10.40 a.m.** *Coffee Break*

Session III: Potential Indications for NOX Inhibitors

- Chair:** J. David Lambeth – Emory University, Atlanta – USA
- 10.40 – 11.20 a.m.** **NADPH Oxidase as a Therapeutic Target in Hypertension and Stroke**
Ralf P. Brandes
University of Frankfurt, Frankfurt – Germany
- 11.20 – 12.00 a.m.** **Isoform-Specific NOX Inhibition in Heart Failure**
Ajay M. Shah
King's College London, London – Great Britain
- 12.00 – 2.00 p.m.** *Lunch Break*
- 2.00 – 2.40 p.m.** **NOX Inhibitors as New Tools to Inhibit Angiogenesis**
Beat A. Imhof
University of Geneva, Geneva - Switzerland
- 2.40 – 3.20 p.m.** **RNAi Approaches Targeting NOX4 in Pulmonary Fibrosis**
Victor J. Thannickal
University of Alabama at Birmingham, Birmingham – USA
- 3.20 – 3.50 p.m.** *Coffee Break*
- 3.50 – 4.30 p.m.** **NOX Inhibition and Male Fertility**
Robert A. Clark
University of Texas, San Antonio – USA
- 4.30 – 4.50 p.m.** **Short Presentation**
– pending –
- 4:50 – 5:10 p.m.** **Short Presentation**
– pending –
- 5.10 – 6.00 p.m.** **Poster Presentation** *with Coffee and Snacks*

- 6.00 – 7.00 p.m.** **Laudation: Martin Krönke, University of Cologne**
Ernst Klenk Lecture
NOX Family NADPH Oxidases:
from Cellular ROS Production to Pathophysiology and New Treatment Concepts
Karl-Heinz Krause
University of Geneva, Geneva – Switzerland

Saturday – November 06, 2010

Session IV: NOX Inhibition and Diseases of the Central Nervous System

- Chair:** Ralf P. Brandes – University of Frankfurt, Frankfurt – Germany
- 9.00 – 9.40 a.m.** **NADPH Oxidase Inhibition to Prevent Neuronal Cell Death**
Raymond A. Swanson
University of California, San Francisco – USA
- 9.40 – 10.20 a.m.** **NADPH Oxidase as a Therapeutic Target in Alzheimer's and Parkinson's Disease**
Michelle L. Block
University of Virginia, Richmond – USA
- 10.20 – 10.40 a.m.** *Coffee Break*
- 10.40 – 11.20 a.m.** **NOX Inhibition as a Therapeutic Concept in Psychosis**
Silvia Sorce
University of Geneva, Geneva – Switzerland
- 11.20 – 12.00 a.m.** **siRNA-Mediated Knock-Down of NOX3: Therapy for Hearing Loss?**
Leonard P. Rybak
Southern Illinois University, Springfield – USA
- 12.00 – 12.30 p.m.** **Summary, Open Questions, Concluding Remarks**

General Information

The meeting is open and no registration or attendance fee is required.

Invitation to the Klenk 2010 - poster presentation
Abstract submission by September 30, 2010

Further information: www.zmmk.uni-koeln.de

Free registration at: klenk-symposium@uni-koeln.de

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.

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

For a site map please visit:
http://www.zmmk.uni-koeln.de/common/klenk_2010/lageplan_klenk_2010.pdf

For selected hotels with pre-reservations for the 26. Ernst Klenk Symposium please visit: http://www.zmmk.uni-koeln.de/common/klenk_2010/hotelliste_klenk_2010.pdf