

# 33<sup>rd</sup> Ernst Klenk Symposium in Molecular Medicine

**CMMC** CENTER FOR  
MOLECULAR MEDICINE  
COLOGNE



October, 15-17, 2017 in Cologne

**Tissue regeneration, wound healing and fibrosis:  
Translating basic concepts into regenerative therapy.**

## Program

### Scientific Coordination

Sabine Werner ETH Zurich - Zurich, CH  
and Sabine Eming - Catherin Niemann - Thomas Krieg - Cologne, DE

### Cologne Ernst Klenk Symposium Committee 2017

Sabine Eming - Catherin Niemann - Thomas Krieg (Chairs)  
Carien M Niessen - Matthias Hammerschmidt - Claus Cursiefen - Bernhard Schermer - Debra Grosskopf-Kroiher  
Thomas Benzing

### Organized by:

Center for Molecular Medicine Cologne (CMMC) - University of Cologne - [www.cmmc-uni-koeln.de](http://www.cmmc-uni-koeln.de)

### In cooperation with

[CECAD Cologne - Cluster of Excellence](#) • [Clinical Trials Centre Cologne \(ZKS Köln\)](#) • [CRC 829](#) • [FOR 2240](#) • [CRC 670](#)  
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**Participation in the meeting is free of charge – free registration required.**

Further information and free registration:  
<http://www.cmmc-uni-koeln.de/de/events/ernst-klenk-symposium/ernst-klenk-symposium-2017/>

Invitation: Poster Presentation Klenk Symposium 2017  
Call for submission of poster abstracts - deadline Aug. 30, 2017

Sunday – Oct. 15, 2017

### 12.50 p.m. Welcome Address

Thomas Krieg Dean - Medical Faculty, University of Cologne

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

[Sabine Werner](#) - Sabine Eming - Catherin Niemann - Thomas Krieg

Scientific Coordinators - Ernst Klenk Symposium 2017

### Session I Exploring molecular concepts of cell renewal and stem cell function in tissue maintenance and repair

#### 1.00 - 1.30 p.m. Rejuvenation of muscle stem cell regenerative function

[Helen M Blau](#) - Stanford Medical School - Stanford, US

#### 1.30 - 2.00 p.m. Reprogramming epigenetic memory in regeneration and cancer

[Renato Paro](#) - ETH Zurich, Zurich and Faculty of Science, University of Basel - Basel CH

#### 2.00 - 2.30 p.m. From planarians to parasites: stem cells and developmental plasticity in flatworms

[Phillip A Newmark](#) - University of Wisconsin-Madison - Madison, US

#### 2.30 - 3.00 a.m. Coffee Break

#### 3.00 - 3.30 p.m. Stem cells and epithelial homeostasis in mammary gland development

[Ian G Macara](#) - Vanderbilt University School of Medicine - Nashville, US

#### 3.30 - 4.00 p.m. Exploring stem cell fate regulation through synthetic extracellular matrices

[Matthias P Lutolf](#) - School of Basic Science, École Polytechnique Fédérale de Lausanne - Lausanne, CH

#### 4.00 - 4.30 p.m. The retinoblastoma tumor suppressor in cancer initiation and regeneration

[Julien Sage](#) - Stanford University Medical Center - Stanford, US

#### 4.30 - 5.00 p.m. Coffee Break

#### 5.00 - 8.30 p.m. Poster session during the Welcome Get-Together (free finger food and drinks)

Selection of three posters for the Poster Awards

### Poster Presentation - Klenk Symposium 2017

Call for submission of poster abstracts - deadline Aug. 30, 2017

We are pleased to announce the submission for poster abstracts related to following topics:

- A Exploring molecular concepts of cell renewal & stem cell function in tissue maintenance & repair
- B Mechanisms of cellular communication in tissue regeneration, repair and fibrosis
- C New strategies of targeting the immune response in tissue remodeling
- D Challenges and perspectives for translating scientific discoveries in regenerative medicine

The poster track is intended as a forum that provides an opportunity for the authors to present ongoing research activities /results and thereby promoting scientific interaction. For further information, please visit:

<http://www.cmmc-uni-koeln.de/events/ernst-klenk-symposium/ernst-klenk-symposium-2017/poster-presentation/>

### Poster Award

The Klenk Poster Award 2017 of the Center for Molecular Medicine Cologne (CMMC) will be awarded to the presenting author of the three most outstanding poster contributions. The awardees of the poster prizes are invited to give a short presentation (10 min.) during the last session on Tuesday, Oct. 17, 2017.

Monday - Oct. 16, 2017

**Session II** Mechanisms of cellular communication in tissue regeneration, repair and fibrosis

- 9.00 - 9.30 a.m. Scar Wars: fibroblast lineages and fibrosis  
[Michael T Longaker](#) - Stanford University School of Medicine - Stanford, US
- 9.30 - 10.00 a.m. Mechanotransduction and cell-matrix interaction regulates collective cell migration  
[Joachim P Spatz](#) - Max-Planck-Institute for Medical Research - Heidelberg, DE
- 10.00 - 10.30 a.m. Muscle stem cell regenerative decline with aging  
[Pura Munoz-Canoves](#) - ICREA and Pompeu Fabra University - Barcelona, ES
- 10.30 - 11.00 a.m. *Coffee Break*
- 11.00 - 11.30 a.m. Do fibroblast growth factors regulate fibrosis?  
[David M Ornitz](#) - Washington University School of Medicine - St. Louis, US
- 11.30 - 12.00 a.m. To be announced  
[Raffaella Sordella](#) - Cold Spring Harbor Laboratory - Cold Spring Harbor, US
- 12.00 - 12.30 p.m. Multistep cancer stromal cell activation and evolution  
[Gian-Paolo Dotto](#) - University of Lausanne - Lausanne, CH
- 12.30 - 2.00 p.m. *Lunch Break with Poster Presentation (free soup and sandwiches for all participants)*

**Session III** New strategies of targeting the immune response in tissue remodeling

- 2.00 - 2.30 p.m. Live imaging good and bad aspects of the wound inflammatory response  
[Paul Martin](#) - School of Medical Sciences, University of Bristol - Bristol, UK
- 2.30 - 3.00 p.m. Type 2 immunity in tissue regeneration and fibrosis  
[Thomas A Wynn](#) - National Institute of Allergy and Infectious Diseases, National Institute of Health - Bethesda, US
- 3.00 - 3.30 p.m. To be announced  
[Edward J Pearce](#) - Max-Planck-Institut für Immunbiologie und Epigenetik - Freiburg, DE
- 3.30 - 3.50 p.m. *Coffee Break*
- 3.50 - 4.00 p.m. Announcement of the Poster Awards - Sabine Eming and Catherin Niemann
- 4.00 - 4.30 p.m. Tumor associated macrophages: From mechanism to therapy  
[Jeffrey W Pollard](#) - University of Edinburgh - Edinburgh, UK
- 4.30 - 5.00 p.m. To be announced  
[Nadia A Rosenthal](#) - The Jackson Laboratory - Bar Harbor, US
- 5.00 - 5.30 p.m. To be announced  
[Mathias Heikenwälder](#) - German Cancer Research Center (DKFZ) - Heidelberg, DE
- 5.30 - 6.00 p.m. *Coffee Break*

6.00 - 7.00 p.m. Ernst Klenk Lecture:  
How to control your neighbor – stromal epithelial cross-talk in tissue repair and inflammatory disease  
Sabine Werner - Institute for Molecular Health Sciences, ETH Zurich - Zurich, CH  
Laudation: Sabine Eming and Catherin Niemann

Tuesday - Oct. 17, 2017

**Session IV** Challenges and perspectives for translating scientific discoveries in regenerative medicine

- 9.00 - 9.30 a.m. Cell and tissue therapy. Advances in science and practice  
[Robert S Kirsner](#) - University of Miami Miller School of Medicine - Miami, US
- 9.30 - 10.00 a.m. Developing induced pluripotent stem (iPS) cell-based therapy for inherited skin diseases  
[Dennis R Roop](#) - School of Medicine, University of Colorado Anschutz Medical Campus - Aurora, US
- 10.00 - 10.30 a.m. GPS: Navigating the pathway for regenerative therapy  
[Robert Sackstein](#) - Brigham and Women's Hospital and Harvard Medical School - Boston, US
- 10.30 - 11.00 a.m. *Coffee Break*
- 11.00 - 11.30 a.m. Development of hepatoprotective and pro-regenerative strategies: learning from nature  
[Matias A Avila](#) - Center for Applied Medical Research, University of Navarra - Pamplona, ES
- 11.30 - 12.00 p.m. To be announced  
[Jeroen Bakkers](#) - Hubrecht Institute, University Medical Centre Utrecht - Utrecht, NL
- 12.00 - 12.30 p.m. CRISPR-Cas9 genome editing, from mechanism to therapy  
[Jacob E Corn](#) - Dept. of Molecular and Cell Biology and Innovative Genomics Institute, University of California - Berkeley, US
- 12.30 - 1.00 p.m. **Short presentation of the three poster awardees (3 x 10 min. short talk)**
- 1.00 - 1.15 p.m. Summary, open questions, concluding remarks  
Sabine Werner - Sabine Eming - Catherin Niemann - Thomas Krieg

**General Information**

The meeting is open and no registration or attendance fee is required.  
Participation is free of charge - free registration is required.

Childcare is provided by Spielland, University Hospital Cologne.

If you require an official invitation letter for travel refunding or visa issues, please contact  
Debora Grosskopf-Kroiher - [debora.grosskopf-kroiher@uni-koeln.de](mailto:debora.grosskopf-kroiher@uni-koeln.de)

Center for Molecular Medicine Cologne (CMMC), Univ. of Cologne  
CMMC Research Building, Robert-Koch-Str. 21, 50931 Cologne, Germany

**Venue**

Main Lecture Hall, Faculty of Medicine, University of Cologne  
Access only possible from Joseph-Stelzmann-Str. 26 - please follow the yellow Klenk signs.  
<http://www.cmmc-uni-koeln.de/events/ernst-klenk-symposium/ernst-klenk-symposium-2017/venue/>

We gratefully acknowledge support by following partners (current state Feb. 2017):

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