

11TH BERLIN LATE  
SUMMER MEETING 2018

# GRAND BIMSB OPENING SYMPOSIUM

## DAY 1: THURSDAY OCTOBER 25

- 08:30 am – 09:00 am Registration & Breakfast
- 09:00 am – 09:10 am Welcoming Address  
**Martin Lohse** (Scientific Director, MDC)  
**Peter Frensch** (Vice President for Research, HU Berlin)  
**Karl Max Einhäupl** (Chief Executive Officer, Charité – Universitätsmedizin Berlin)
- 09:10 am – 09:25 am Introduction by **Nikolaus Rajewsky** (Scientific Head, BIMSB)

### SESSION 1: GENE REGULATION DURING DEVELOPMENT / Chair: Robert Zinzen

- 09:25 am – 10:10 am **Christiane Nüsslein-Volhard** (MPI for Developmental Biology, Tübingen, Germany)  
*How fish colour their skin: A paradigm for development and evolution of adult patterns*
- 10:10 am – 10:30 am Coffee Break
- 10:30 am – 11:15 am **Jürgen Knoblich** (IMBA, Vienna, Austria)  
*Cerebral organoids: modelling human brain development and tumorigenesis in stem cell derived 3D culture*
- 11:15 am – 12:00 pm **Claude Desplan** (NYU Biology, New York, USA)  
*The development of the Drosophila motion vision circuit*
- 12:00 pm – 03:00 pm Lunch Break & Poster Session  
*Guided Tours of the New BIMSB Building*

### SESSION 2: PLURIPOTENCY AND DIFFERENTIATION / Chair: Ana Pombo

- 03:00 pm – 03:45 pm **Edith Heard** (Institut Curie, Paris, France)  
*Exploring the dynamic relationship between gene expression and chromosome organisation during X-chromosome inactivation*
- 03:45 pm – 04:00 pm **Manuel Irimia** (Centre for Genomic Regulation, Barcelona, Spain)  
*Amphioxus functional genomics reveals the evolution of vertebrate regulatory traits*
- 04:00 pm – 04:45 pm **Ruth Lehmann** (NYU School of Medicine, New York, USA)  
*Protecting Immortality: Germ granule organization by phase transition*
- 04:45 pm – 05:15 pm Coffee Break
- 05:15 pm – 06:00 pm **Amanda Fisher** (MRC LMS, London, UK)  
*Epigenetics and inheritance*
- 06:00 pm – 06:15 pm **Leonie Ringrose** (IRI Lifesciences, Humboldt University Berlin, Germany)  
*Comprehensive theoretical analysis of the Polycomb – Trithorax system predicts that poised chromatin is robustly bistable and minimally bivalent*
- 06:15 pm – 07:00 pm **Bing Ren** (UCSD School of Medicine, San Diego, USA)  
*Remodeling of Chromatin Architecture during Human Cardiomyocyte Differentiation*

## LOCATIONS

**Registration, All Talks, Poster Sessions & Lunches:**  
Langenbeck-Virchow-Haus @ Luisenstr. 58/59

**Guided Tours:**  
New BIMSB Building @ Hannoversche Str. 28

**Party:**  
Kalkscheune @ Johannisstr. 2



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## DAY 2: FRIDAY OCTOBER 26

08:30 am – 09:00 am Registration & Breakfast

### SESSION 3: MOLECULAR MECHANISMS OF GENE REGULATION IN HEALTH AND DISEASE 1 / Chair: Marina Chekulaeva

09:00 am – 09:45 am **Patrick Cramer** (MPI for Biophysical Chemistry, Göttingen, Germany)

*A molecular mechanism for RNA polymerase II activation*

09:45 am – 10:45 am BIMSB PI Presentation

10:45 am – 11:15 am Coffee Break

11:15 am – 12:00 pm **Lior Pachter** (Caltech, Pasadena, USA)

*Computational and experimental foundations for single-cell genomics*

12:00 pm – 12:45 pm **Charles Swanton** (The Francis Crick Institute, London, UK)

*Cancer Evolution and Immune Escape: TRACERx*

12:45 pm – 01:00 pm Group Photo

01:00 pm – 04:00 pm Lunch Break & Poster Session

*Guided Tours of the New BIMSB Building*

### SESSION 4: MOLECULAR MECHANISMS OF GENE REGULATION IN HEALTH AND DISEASE 2 / Chair: Roland Schwarz

04:00 pm – 04:45 pm **Mike Levine** (Princeton University, Princeton, USA)

*A high-resolution view of gene activity during development*

04:45 pm – 05:00 pm **Jane Reznick** (MDC, Berlin, Germany)

*A switch to fructose metabolism under extreme hypoxia in the naked mole-rat*

05:00 pm – 05:30 pm Coffee Break

05:30 pm – 06:15 pm **Hans Clevers** (Hubrecht Institute, Utrecht, The Netherlands)

*Lgr5 Stem Cell-based organoids in human disease*

06:15 pm – 06:30 pm **Giuseppe Testa** (University of Milan and European Institute of Oncology, Milan, Italy)

*A novel computational approach to single-cell transcriptomics uncovers the dynamics of tumor stem cells in ovarian cancer organoids*

06:30 pm – 07:15 pm **Peter Lichter** (DKFZ, Heidelberg, Germany)

*Newly emerging mechanisms of genomic instability and their impact on tumor evolution*

07:15 pm – 07:30 pm *Walk to Kalkscheune*

07:30 pm – 12:00 am **BIG PARTY** with Hot Live Music, Food, Drinks & Dancing

(featuring live band MR ŽARKO followed by DJ Auflegewitsch)

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# GRAND BIMSB OPENING SYMPOSIUM

## DAY 3: SATURDAY OCTOBER 27

08:30 am – 09:00 am Registration & Breakfast

### SESSION 5: SINGLE-CELL APPROACHES TO MOLECULAR MECHANISMS AND FUNCTION / Chair: Baris Tursun

- 09:00 am – 09:45 am **Ido Amit** (Weizmann Institute of Science, Rehovot, Israel)  
*Single-cell genomics: a stepping stone for future immunology discoveries*
- 09:45 am – 10:00 am **Nikolaos Karaiskos** (BIMSB/MDC, Berlin, Germany)  
*De novo spatial reconstruction of single-cell gene expression*
- 10:00 am – 10:45 am **Eileen Furlong** (EMBL, Heidelberg, Germany)  
*Understanding enhancer usage during embryonic development at a single cell level*
- 10:45 am – 11:15 am Coffee Break
- 11:15 am – 11:30 am **Florian Erhard** (Julius-Maximilians-Universität Würzburg, Germany)  
*Record-seq reveals core features of transcription dynamics in single cells*
- 11:30 am – 12:15 pm **Phil Sharp** (MIT, Cambridge, USA)  
*RNA regulates transcription through phase transitions?*
- 12:15 pm – 12:30 pm **Walter Birchmeier** (MDC, Berlin, Germany)  
TBA
- 12:30 pm – 01:00 pm Meeting Wrap-Up & Surprise Performance
- 01:00 pm Farewell Lunch

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