

**Wednesday, 11.05.2016**

09:00 Registration  
10:45 Welcome Remarks

**Session 1 Immunology**

11:00 NETs: the second function of chromatin  
**Arturo Zychlinsky** (Berlin, Germany)  
11:30 Retroviruses, envelopes, receptors and metabolic markers  
**Marc Sitbon** (Montpellier, France)  
12:00 Mammalian sterile 20-like kinase 1a: an important player for neutrophil transmigration  
**Markus Sperandio** (München, Germany)

12:30 Lunch Break

**Session 2 Cell Biology**

14:00 Establishing new tools for manipulating alternative model organisms in the study of the evolution of developmental processes  
**Cassandra Extavour** (Boston, USA)  
14:30 Extracellular matrix and its role in biomedical research  
**Katja Schenke-Layland** (Stuttgart, Germany)  
15:00 Deconstructing cell migration  
**Matthieu Piel** (Paris, France)  
15:30 Innate immune cell dynamics at sites of inflammation and infection  
**Tim Lämmermann** (Freiburg, Germany)

16:00 Coffee Break

**Session 3 Young Scientist Talks**

16:30 Wound-induced signals and positional cues cooperate to initiate regeneration in the planarian *S. mediterranea*  
**Suthira Owlarn** (Münster, Germany)  
16:50 Regulation of bone vascularization and osteogenesis during mouse development  
**Urs H. Langen** (Münster, Germany)  
17:10 A nanotechnological approach reveals the role of alpha 2 beta 1 integrin in collagen-induced platelet aggregation  
**Augusto Martins Lima** (Münster, Germany)  
17:30 Plasma membrane organization in Zebrafish Primordial Germ Cells (PGCs) bleb  
**Mohammad Goudarzi** (Münster, Germany)

18:30 Guided City Tour and Dinner (for speakers only)

**Thursday, 12.05.2016**

**Session 4 Developmental Biology**

09:00 Regeneration of hematopoietic stem cells from endothelial cells  
**Dhvanit Shah** (Boston, USA)  
09:30 Notch regulates BMP responsiveness and lateral branching in vessel networks via SMAD6  
**Victoria L. Bautch** (Chapel Hill, USA)  
10:00 Molecular regulation of endothelial barrier properties in the central nervous system  
**Stefan Liebner** (Frankfurt, Germany)  
10:30 CNS neuronal progenitors regulate vascular patterning in adjacent mesodermal tissues  
**Didier Stainier** (Bad Nauheim, Germany)

11:00 Coffee Break

**Keynote lecture**

11:30 The development of colour patterns in fishes: towards an understanding of the evolution of beauty  
**Christiane Nüsslein-Volhard** (Tübingen, Germany)

12:30 Lunch Break

**Session 5 Applied Mathematics**

14:00 Aspects of cell swimming motility  
**Eamonn Gaffney** (Oxford, UK)  
14:30 Mathematical modeling of mechano-chemical pattern formation  
**Anna Marciniak-Czochra** (Heidelberg, Germany)  
15:00 Identification of mammary stem cells and their dynamics during branching morphogenesis  
**Edouard Hannezo** (Cambridge, UK)

15:30 Coffee Break

**16:00 Poster Session**

18:30 Meeting Dinner

19:30 Party

**Friday, 13.05.2016**

**Session 6 Genomics and Systems Biology**

09:00 Towards a true isoform biology: deep long read sequencing reveals molecular co-association of distant splicing events in the human brain  
**Hagen Tilgner** (Stanford, USA)  
09:30 Epigenomic establishment of macrophage tolerance and trained immunity  
**Henk Stunnenberg** (Nijmegen, The Netherlands)  
10:00 Establishment and maintenance of mammalian heterochromatin  
**Thomas Jenuwein** (Freiburg, Germany)

10:30 Coffee Break

**Session 7 Drug Design**

11:00 Controlling biological activity with photopharmacology  
**Dirk Trauner** (München, Germany)  
11:30 Tools to probe the epigenetic code  
**Manfred Jung** (Freiburg, Germany)  
12:00 Highly selective JAK3-inhibitors with a covalent-reversible binding mode targeting a nitrile induced arginine pocket  
**Stefan Laufer** (Tübingen, Germany)

12:30 Lunch Break

**Session 8 Neuroscience**

14:00 Large protein and nanoparticle transport across the blood-brain barrier (BBB), with implications for drug delivery  
**N. Joan Abbott** (London, UK)  
14:30 Glial glycogen and brain energy metabolism: new insights  
**Bruce R. Ransom** (Washington, USA)  
15:00 The interaction of genes and epigenes: a chromatin loop conferring an increased risk to develop Alzheimer's disease  
**Johannes Gräff** (Lausanne, Switzerland)

15:30 Closing remarks and Poster prize