

PROGRAM

13-15 February 2012

Monday February 13

- 15:00 Registration
- 15:40-15:50 **Hernán LÓPEZ-SCHIER**
CRG, Barcelona, ES
Opening remarks
- 15:50-16:30 **Xavier TREPAT**
Universitat de Barcelona, ES
"The forces behind collective cell migration"
- 16:30-16:50 **Julio M. Belmonte**
Indiana University, USA
"Multi-Cell, Multi-Scale Model of Vertebrate Somitogenesis"
- 16:50-17:10 **Ana Hocevar**
Jozef Stefan Institute, SI
"A model of epithelial invagination driven by collective mechanics of identical cells"
- 17:10-18:00 **James A. GLAZIER**
Indiana University, USA
"Multicell Modeling of Embryonic Development and Developmental Diseases"

Tuesday February 14

09:30-10:00 Welcome Coffee

10:00-10:40 **Richard ADAMS**
University of Cambridge, UK
TBA

10:40-11:20 **Julien VERMOT**
IGBMC, Strasbourg, FR
“Quantitative approaches to address the roles of biological flows in the embryo”

11:20-11:40 **Nicole GORFINKIEL**
Centro de Biología Molecular-CSIC, Madrid, ES
“Insights into the mechanical properties of epithelial cells during morphogenesis”

11:40-12:20 **Mathieu PIEL**
Institut Curie, Paris, FR
“Life under confinement: cell division and migration when space is limited”

12:20-13:00 **Ewa PALUCH**
Max Planck Institute, Dresden, DE
“Actin cortex mechanics and cell shape control in cytokinesis”

13:00-15:00 Lunch (Free Time & Poster Session)

15:10-15:50 **Benoit AIGOUE**
Max Planck Institute, Dresden, DE
“Organizing planar polarity in the developing wing disc”

15:50-16:30 **Nathan W. GOEHRING**
Max Planck Institute, Dresden, DE
“Design principles of a cell polarity network”

16:30-17:10 **Thomas LECUIT**
IBDM, Marseille, FR
“Regulation of cell mechanics during morphogenesis”

17:10-18:00 **Paul JANMEY**
University of Pennsylvania, USA
“Mechanosensing through multiple types of transmembrane receptors”

18:00-20:00 Pica-pica & Poster session

Wednesday February 15

09:30-10:30 Welcome Coffee & Poster session

10:30-11:10 **James SHARPE**

CRG, Barcelona, ES

"In-silico Organogenesis: A computer model of vertebrate limb morphogenesis"

11:10-11:50 **Jan HUISKEN**

Max Planck Institute, Dresden, DE

"Real-time developmental biology with high-speed SPIM"

11:50-12:20 **Julien COMPAGNON**

IST Austria, Vienna, AU

"Origin of Asymmetric Morphogenesis of the Zebrafish Laterality Organ"

12:20-13:00 **Alfonso MARTINEZ-ARIAS**

University of Cambridge, UK

"Structure and dynamics of embryonic stem cell populations"

13:00-15:30 Lunch (Free Time & Poster Session)

15:30-15:50 **Anna Kicheva**

MRC National Institute for Medical Research, UK

"Coordination of patterning and growth in the spinal cord"

15:50-16:30 **Lukas PELKMANS**

ETH, Zurich, CH

"The origins of cell-to-cell variability in endocytic pathways"

16:30-17:00 **Yohanns Bellaïche**

Institut Curie, FR

"Mechanical control of tissue morphogenesis by the Fat/Dachsous/Four-jointed planar cell polarity pathway"

17:00-17:50 **Marcos GONZÁLEZ-GAITÁN**

University of Geneva, CH

"Growth control by the Dpp morphogen"

17:50-18:00 **Marcos GONZÁLEZ-GAITÁN**

University of Geneva, CH

Closing remarks and comments about the following Workshop