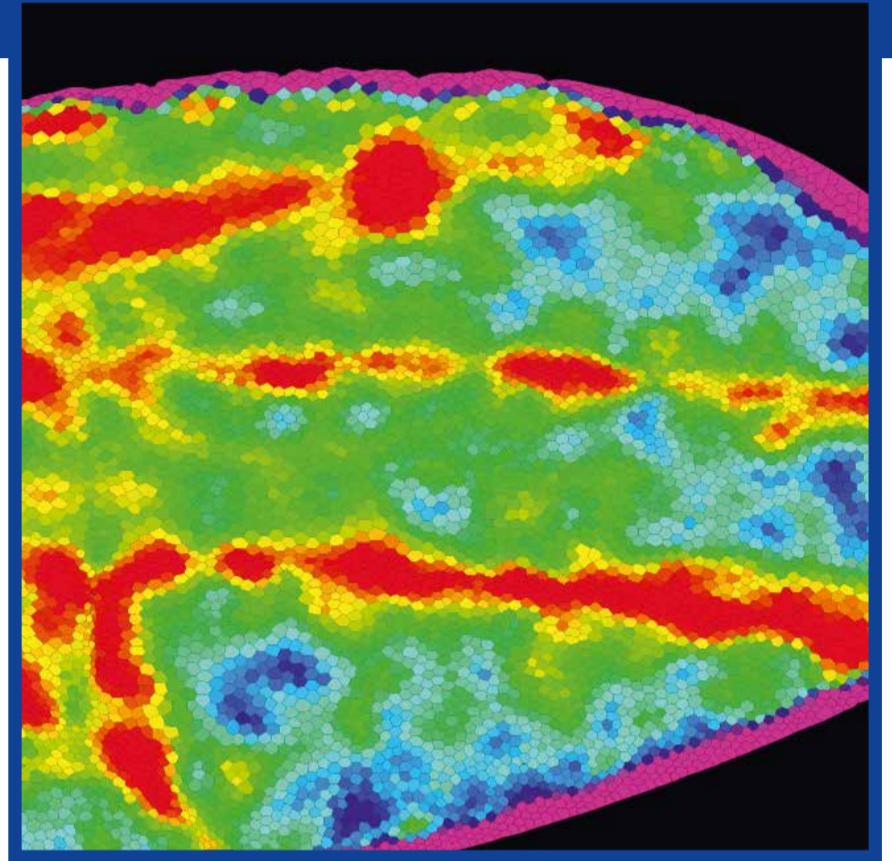




Physical Biology of Tissue Morphogenesis - Mechanics, Metabolism, and Signaling

International Workshop 17 - 21 October 2016

The aim of this workshop is to discuss recent progress to understand the collective organization of cells during morphogenesis. Important questions are how the shape and size of tissues emerges from cellular processes and chemical signals. The role of active mechanical processes and the interplay of metabolism and morphogenesis will also be discussed.



Topics

- Morphogenesis
- Active matter
- Metabolism
- Tissue dynamics
- Signaling pathways
- Tissue mechanics
- Cell polarity
- Metabolic networks

Invited speakers

Jérôme Bibette (FR)
 F. Brochard-Wyart (FR)
 Giovanni Cappello (FR)
 Jaume Casademunt (ES)
 Guillaume Charras (UK)
 Paola Chiarugi (IT)
 Jens Elgeti (DE)
 Erwin Frey (DE)
 M. Gonzalez-Gaitan (CH)
 Oskar Hallatschek (US)
 Rebecca Heald (US)
 Kenneth D. Irvine (US)
 Laura Johnston (US)
 Helena Khaliullina (UK)
 Allon Klein (US)
 Pierre Léopold (FR)
 L. Mahadevan (US)
 Helen McNeill (CA)
 Andrew Oates (UK)

Olivier Pourquié (US)
 Guillaume Salbreux (UK)
 Nathalie Spassky (FR)
 Aurelio Teleman (DE)
 Craig B. Thompson (US)
 David A. Weitz (US)

Scientific coordinators

Yohanns Bellaïche
 Paris, France
 Suzanne Eaton
 Dresden, Germany
 Jean-François Joanny
 Paris, France
 Frank Jülicher
 Dresden, Germany

Organisation

Katrin Lantsch
 MPIPKS Dresden

Applications received before 31 July 2016 are considered preferentially.

Applications are welcome and should be made by using the application form on the event's web page. The number of attendees is limited. The registration fee for the international workshop is 120 Euro and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

For further information please contact:

Visitors Program – Katrin Lantsch
 MPI for the Physics of Complex Systems
 Nöthnitzer Str. 38, D-01187 Dresden
 Tel: +49-351-871-1931
 Fax: +49-351-871-2199
 tismor16@pks.mpg.de
 www.pks.mpg.de/tismor16/