

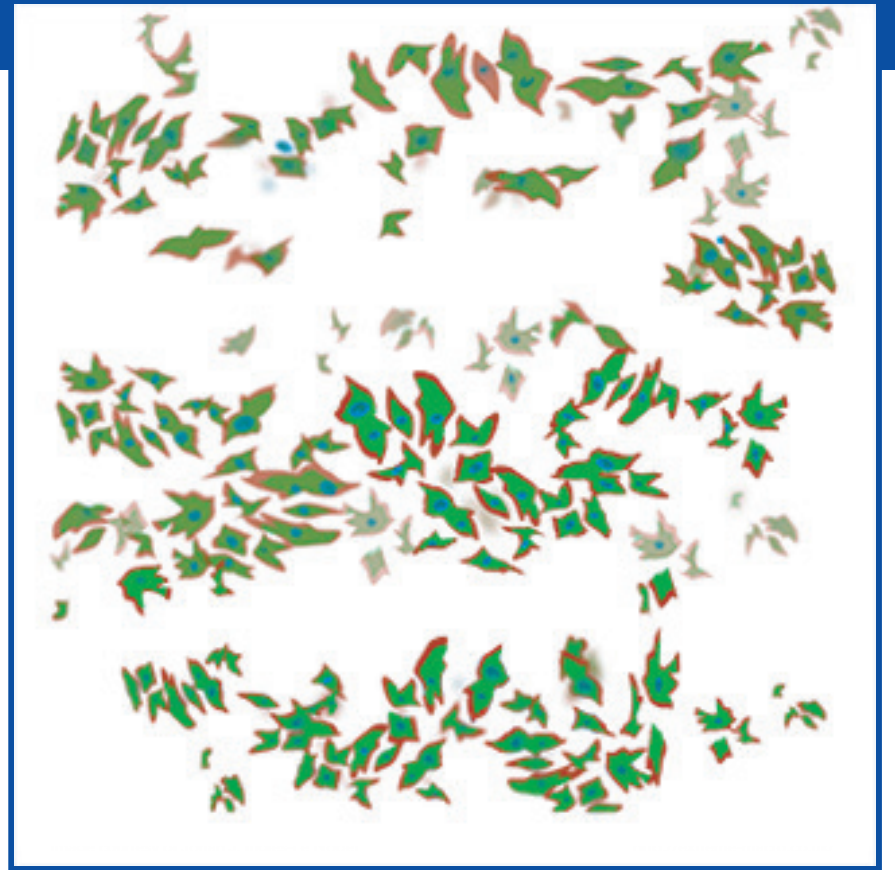


Image-based Modeling and Simulation of Morphogenesis

International Focus Workshop 13 - 15 March 2019

Progress in live imaging, image processing, as well as physical model development and scientific computing bring predictive simulations of morphogenesis within reach. This workshop aims to discuss the latest developments that bring these fields together through 2 focus areas:

- imaging and modeling of morphogenetic processes
- simulation of large-scale biological systems



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Topics:

- Image-based modeling of development
- Generative image-based modeling
- Computational morphodynamics
- Developmental biology at the molecular scale
- Intracellular morphogenesis and pattern formation
- Controlling dynamics and randomness
- Multiscale modeling for biological systems
- Simulation of developmental systems
- Active, self-driven systems

Invited speakers:

* keynote speaker

Marcos Gonzalez-Gaitan (CH)
 Andrew Goryachev (UK)
 Jan Huisken (US)
 Henrik Jönsson (UK)*
 Mustafa Khammash (CH)
 Martin Lenz (FR)
 Christian Müller (US)
 Robert Murphy (US)*
 Andrew Oates (CH)
 Alexis Pietak (US)
 Igor Pivkin (CH)
 James Sharpe (ES)*
 Jens Walther (DK)

Scientific coordinators:

Kyle I. S. Harrington
 Moscow, ID, USA

Ivo F. Sbalzarini
 Dresden, Germany

Organisation:

Mandy Lochar
 MPIPKS Dresden

Applications received before 20 November 2018 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 focus workshop is 140 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.

For further information please contact:

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