

Workshop

The Biology and Physics of Left-Right Patterning



17 - 20 February 2021
Buxted Park
East Sussex
UK



Funded places for early-career researchers

Our understanding of how asymmetries between the left and right sides of animal bodies emerge during development-and how mechanisms governing asymmetry change over evolution- has significantly progressed over the last 25 years.

This workshop will unite researchers taking different approaches, from genetics and cell biology to mathematical modelling and physics, to tackle the critical questions in the field of left-right asymmetry.

Topics for discussion include:

- Symmetry breaking events: roles for cytoskeletal elements, cilia and fluid flows
- Factors and principles that govern the asymmetric patterning of the embryo downstream of symmetry-breaking events
- Asymmetric morphogenesis of the organs: genetic and mechanical control
- Left-right asymmetry across evolution: conserved and divergent mechanisms

Organisers

Gonca Erdemci-Tandogan
Daniel T. Grimes

Speakers

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|---------------------|-------------------------|--------------------|
| • Jeffrey Amack | • Natasza Kurpios | • Stéphane Noselli |
| • Martin Blum | • Susana Lopes | • David Smith |
| • Martina Brueckner | • Sigolène Meilhac | • Clifford Tabin |
| • Hiroshi Hamada | • Nanette Nascone-Yoder | • Julien Vermot |
| • Frank Jülicher | • Dominic Norris | • Joseph Yost |

Secure your place alongside leading experts and other early-career researchers. Applicants from diverse scientific backgrounds are encouraged.

Deadline: 10 July 2020



To find out more or apply online visit workshops.biologists.com

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