

Workshop

The Biology and Physics of Left-Right Patterning



5 - 8 June 2022
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

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

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

Deadline: 3 December 2021

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

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