

Workshop

Integrating Multi-Modal, Multi-Scale Models of Cardiovascular Disease Mechanisms



8 – 11 November 2026
Buxted Park,
East Sussex, UK



Funded places for early-career researchers

The Workshop will bring together interdisciplinary researchers spanning *in vitro* and *in vivo* cardiovascular disease models to patient level clinical data. It aims to foster dialogue on the strengths of different scales and types of experimental data and discuss a roadmap for how complementary, multi-modal data types and models can be integrated *in silico* to produce integrative knowledge greater than could be discovered from one data stream or model alone.

A key feature of this workshop is that we have invited bioengineers, biologists, and clinicians to stimulate cross-model conversations and further the utility of non-animal models in disease mechanism research.

Each session will span *in vitro* and *in vivo* research to anchor dialogue on the challenges and opportunities for integrating multi-scale, multi-modal data from different models and systems.

We will have sessions dedicated to methodologies and applications for:

- Unravelling phenotypes and mechanisms of disease at the cellular level
- Multi-scale mechanobiology of cardiac physiology and pathology
- Sex differences in cardiac disease
- Mapping genotypes to phenotypes

Organisers

Jennifer Davis
Christine Mummery
Beth Pruitt

Speakers

Milena Bellin
Claudia Crocini
Sharlene Day
Timothy Downing
Thomas Eschenhagen
Leslie Leinwand

Joost Lumens
Steven Niederer
Brenda Ogle
Michael Regnier
Eva van Rooij
Sanjay Sinha

Yuji Shiba
Jil Tardiff
Sarah Teichmann
Jolanda van der Velden
Viola Vogel

Secure your place* alongside leading experts and other early-career researchers from a diverse range of scientific backgrounds.

Deadline: 8 May 2026

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

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