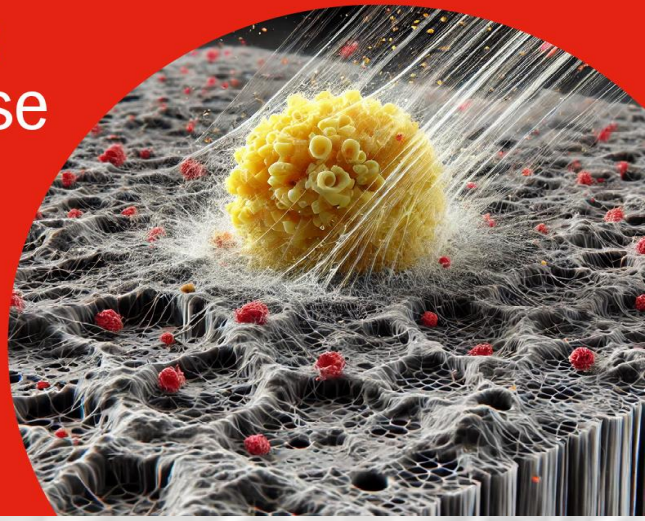


# Mechanobiology Shaping Life: development, ageing, and disease

4–5 December 2024

Institute of Physics, London, UK



## Conference Overview

The event will bring together leading scientists and researchers in mechanobiology to explore the critical role of mechanical forces in life processes, including development, ageing, and disease. It will serve as a platform for the **European mechanobiology community** to convene, exchange insights, and shape the future direction of the field. By addressing both normal and aberrant mechanical influences, the conference will emphasize the importance of mechanics in cellular function and its impact on tissue health and disease progression. The conference is expecting **140 attendees**, creating a vibrant environment for networking and collaboration.

A broad audience of biologists, medical researchers, and bioengineers will attend, focusing on two primary themes: **(i) how mechanical forces and stimuli influence development and disease progression, and (ii) how this understanding can be applied to slow or reverse disease processes.** The event will also provide a translational perspective, evaluating how scientific discoveries in mechanobiology could lead to novel approaches in disease treatment and health management, contributing to the growing field of "**mechanomedicine.**"

The conference is organized by the **University of Glasgow** in collaboration with the **Institute of Physics**, thanks to the support of the European Partnerships in Ageing Science ("**EuroAgeNet**").

Looking forward to meeting you in London and discuss how mechanobiology research can support the development of advanced therapeutic strategies and solutions in healthcare.

### The Organising Team

Massimo Vassalli (University of Glasgow)  
Shaima Maliha Riha (University of Glasgow)  
Claire Garland (Institute of Physics)

Upcoming website: <https://iop.eventsair.com/msl2025>



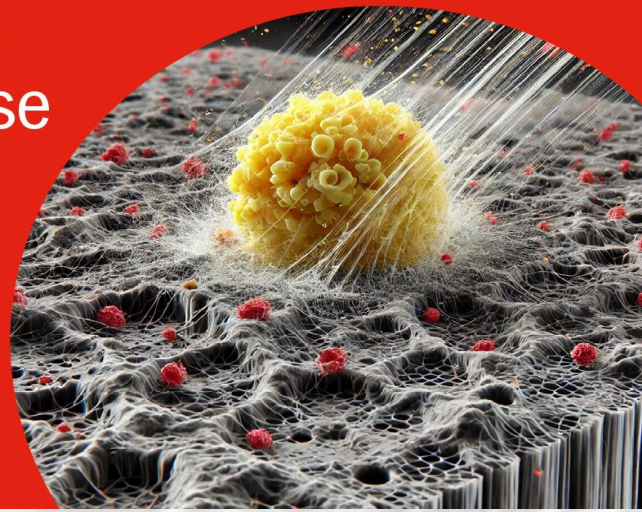
University  
of Glasgow



# Mechanobiology Shaping Life: development, ageing, and disease

4–5 December 2024

Institute of Physics, London, UK



## Scientific Committee

- **Alba Diz-Munoz**, European Molecular Biology Laboratory (EMBL), Germany
- **David Beech**, University of Leeds, United Kingdom
- **Emad Moeendarbary**, University College London (UCL), United Kingdom
- **Jacopo Di Russo**, RWTH Aachen University, Germany
- **Laoise McNamara**, University of Galway, Ireland
- **Silvia Caponi**, Consiglio Nazionale delle Ricerche (CNR), Italy

## Confirmed Invited Speakers

- **Alba Diz-Munoz**, European Molecular Biology Laboratory (EMBL), Germany
- **Boris Martinac**, Victor Chang Cardiac Research Centre, Sydney, Australia
- **David Beech**, University of Leeds, United Kingdom
- **Elizabeth Jones**, KU Leuven, Belgium
- **Ellie Tzima**, University of Oxford, United Kingdom
- **Emad Moeendarbary**, University College London (UCL), United Kingdom
- **Giorgio Scita**, International Foundation of Medicine (IFOM), Italy
- **Joe Swift**, The University of Manchester, United Kingdom
- **Johanna Ivaska**, University of Turku (UTU), Finland
- **Julien Vermot**, Imperial College London, United Kingdom
- **Laoise McNamara**, University of Galway, Ireland
- **Manuel Salmeron-Sanchez**, University of Glasgow, United Kingdom
- **Sylvain Gabriele**, University of Mons, Belgium
- **Vito Conte**, Eindhoven University of Technology, Netherlands
- **Xavier Trepat**, Institute of Bioengineering of Catalonia (IBEC), Spain

Upcoming website: <https://iop.eventsair.com/msl2025>