



UNIVERSITÀ  
DEGLI STUDI  
DI MILANO



Fondazione  
CARIPLO



# LAKE COMO SCHOOL OF ADVANCED STUDIES

## From Cells to Tissues: Models, Analysis and Applications 10-14 June 2024

### Lecturers

**Jocelyn Etienne** (Centre National de la Recherche Scientifique)

*How dynamic prestress governs the shape of living systems, from the subcellular to tissue scale*

**Dagmar Iber** (ETH Zürich)

*Epithelial Morphogenesis – from 3D cell shapes to 3D tissue shapes*

**Luigi Preziosi** (Politecnico di Torino)

*Multi-level mathematical models for cell migration in dense fibrous environments*

**Elisabetta Rocca** (Università di Pavia)

*Optimal control and asymptotics of diffuse interface tumour growth models*

**Juan Velázquez** (Universität Bonn)

*PDE models with free boundaries and kinetic equations in mathematical biology*

### Organising Committee

Luís Almeida (Centre National de la Recherche Scientifique)

Pasquale Ciarletta (Politecnico di Milano)

Tommaso Lorenzi (Politecnico di Torino)

Benoît Perthame (Sorbonne Université)

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**Politecnico  
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Dipartimento di Scienze  
Matematiche "G. L. Lagrange"



**POLITECNICO  
MILANO 1863**

DIPARTIMENTO DI MATEMATICA  
DEPARTMENT OF EXCELLENCE 2023-2027



**ESMTB**

European Society for Mathematical  
and Theoretical Biology



**FONDAZIONE  
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