

BDR SEMINAR (Kobe & online hybrid)

Mechanobiology Seminar Series presents

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Wellcome Trust / Cancer Research UK Gurdon Institute,
University of Cambridge

Thursday, May 29, 2025

15:00-16:00

8F Hall, Integrated Innovation Building (IIB) / Broadcast online via Zoom

*This seminar is open only for BDR members.

Please contact the seminar host for participation.

A general role of mechanical pre-patterning in tissue shape formation in embryos

Summary

Embryo tissues are active soft matter that self-organize into various shapes (morphogenesis). In this view, they may execute morphogenetic programmes by spatial-temporally regulating either tissue stresses (moulding a playdough), or tissue mechanical properties (pre-patterning an origami). Which strategy do embryonic tissues prefer? What constraints could determine how these strategies evolve? Using recent examples in our lab, I hope to facilitate a discussion on these questions.



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