BDR SEMINAR via Zoom

Takashi Hiiragi

Group Leader, EMBL Heidelberg, Germany

Thursday, September 3, 2020

15:30-16:30

Zoom meeting URL will be announced on the event day by e-mail.

※This seminar is open only to BDR members.

Multicellular coordination in context

Summary

A defining feature of living systems is the capacity to break symmetry and generate well-defined forms and patterns through self-organisation. Our group aims to understand the principle of multi-cellular self-organization, using early mammalian embryos as a model system. To this end, we have established an experimental framework that integrates biology, physics and mathematics. We aim to understand how molecular, cellular and physical signals are dynamically coupled across various spatio-temporal scales for self-organisation.

Dr. Hiiragi has been studying the fundamental aspects of early mammalian development. His research covers symmetry breaking of early embryos and the role of cell polarization and fluid dynamics in cell differentiation

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