

Pavel Tomancak

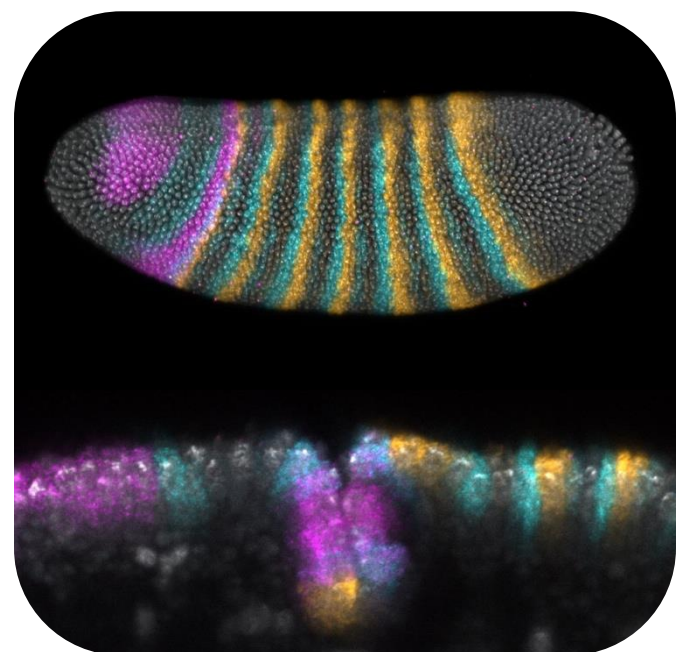
Max Planck Institute of
Molecular Cell Biology and Genetics

16 September 2025, 12pm
Barcelona, Charles Darwin – PRBB



Origins of mechano-chemical feedbacks in evolution and development

Feedback regulation is one of the overarching principles of biology, acting across scales from molecules to ecosystems. Mechano-chemical feedbacks are at the centre of attention of developmental biologists trying to understand the complex interplay between genome regulation and mechanical forces during morphogenesis. How such feedback is initiated remains an open question in many contexts. I will present two recent projects that aim to answer this question in evolution and in development, presenting evidence for the “mechanics first” hypothesis. The models we study are the flies and Hydra



Upcoming speakers

Tue, October 14 2025 – James Briscoe, Francis Crick Institute

Tue, November 18 2025 – Margherita Turco, Friedrich Miescher Institute

A seminar series inviting international researchers, organized by EMBL Barcelona postdocs, open to all

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