

SYMPOSIUM

DEVELOPMENTAL PATTERNING IN SPACE AND TIME

SEPTEMBER 1, 2025

Langenbeck-von Virchow-Haus, Luisenstraße 58/59, 10117 Berlin (Mitte)

This symposium will explore how cells coordinate behavior across tissues, how patterns emerge from molecular signals, and how developmental blueprints adapt over evolutionary time. Using research from plants and animals, we will explore how gene-regulatory programmes, mechanical signals and environmental cues shape developmental patterns.

09:00 Arrival and registration

09:15 Welcome

09:30 **Kerstin Kaufmann, Humboldt-Universität zu Berlin**
The floral ground plan as a developmental model system

10:00 **Caroline Gutjahr, MPI-MP Potsdam**

Rooted Connections: The Development of Plant-Fungal Symbioses

10:30 Break (30 minutes)

11:00 **Arun Sampathkumar, MPI-MP Potsdam**

Cytoskeleton and cell wall-based regulation of floral morphogenesis

11:30 **Elias Barriga, TU Dresden (PoL)**

Forced into shape

12:00 Lunch Break (90 minutes)

13:30 **Jan Philipp Juncker, BIMS**

Time-resolved single-cell transcriptomics via high-throughput lineage tracing and RNA metabolic labeling

14:00 **Nikolaus Rajewsky, BIMS**

Molecular mechanisms from spatial omics

14:30 Coffee Break (30 minutes)

15:00 **Francisca Martinez Real, MPI-MG and CAPB (Spain)**

Elucidating the molecular basis of mammalian flight.

15:30 **Teng Zhang, University of Helsinki (Finland)**

Diversification of floral ground plans in angiosperms: insights from floral patterning in the woodland strawberry.

16:00 Final Discussion and Wrap-Up

Simply come and join us – no registration required, and it's free!

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