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Modelling planar polarised cell behaviours in epithelial tissues

Thursday 24 September 2020 10:00 (40 minutes)

Polarisation is one of the most basic levels of cell and tissue organisation. In developing epithelial tissues, planar polarisation is vital for coordinated cell behaviours during morphogenesis. Alongside experimental approaches, mathematical modelling offers a useful tool with which to unravel the underlying mechanisms. I will describe our recent efforts to model the planar polarised behaviours of cells in developing epithelial tissues, how these models have given new mechanistic insights into various aspects of Drosophila development, and the mathematical and computational challenges associated with this work.

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