

66. Gastrulation signaling and morphogenesis in *Drosophila*
1 unit, Jen Zallen, December 5, 2025

Breaking cellular symmetry in epithelial cells

Actomyosin contractility and force generation during morphogenesis

Regulation of cell behavior during convergent extension and at compartment boundaries

How cells sense and response to mechanical forces

Discussion paper:

Lyu C, Li Z, Xu C, Kalai J, Luo L. Rewiring an olfactory circuit by altering cell-surface combinatorial code. Nature. 2025 Nov 19. doi: 10.1038/s41586-025-09769-3. Epub ahead of print. PMID: 41261128.

Background papers (optional):

Cellular, molecular, and biophysical control of epithelial cell intercalation
Pare AC and Zallen JA
Curr Top Dev Biol 136, 167-193 (2020)

Coming to consensus: A unifying model emerges for convergent extension
Huebner RJ and Wallingford JB
Developmental Cell 46, 389-396 (2018)

Tricellular junctions: how to build junctions at the TRICKiest points of epithelial cells
Higashi T and Miller AL
Molecular Biology of the Cell 28, 2023-2034 (2017)