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An oscillating dynamic model of collective cells in a monolayer

Shao-Zhen Lin , Shi-Lei Xue , Bo Li , Xi-Qiao Feng

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Highlights

- Spontaneous oscillation of collective cells induced by Hopf bifurcation.
- Oscillating cytodynamic model integrating coupled chemical and mechanical mechanisms.
- Chemomechanical feedback between RhoA effector signaling pathway and cell deformation.
- External forces modulate the polarization and oscillation intensity of cells.

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