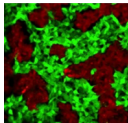


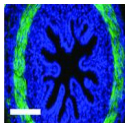
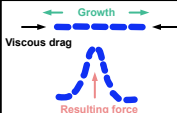
A) Physical-based mechanisms

Phase separation



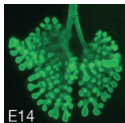
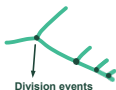
Mammalian cells with differential adhesion (Cachat et al. 2016)

Mechanical instability



Villi formation in chick gut cells (Shyer 2013)

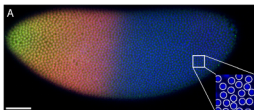
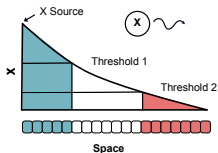
Branching



Mouse lung cells (Metzger 2008)

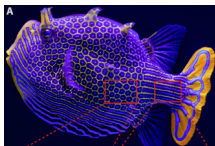
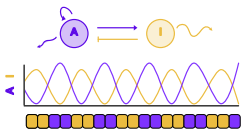
B) Diffusion-based mechanisms

French Flag Model



Drosophila early embryo lung cells (Gregor 2007)

Turing model



Ornate boxfish (Alessio 2023)