

$$\frac{\partial U}{\partial t} = f(U, \dots) + D_U \frac{\partial U}{\partial x^2}$$

$$f(U, \dots)$$

- Basal production (b)
- Regulated production (V, K)
- Degradation (μ)

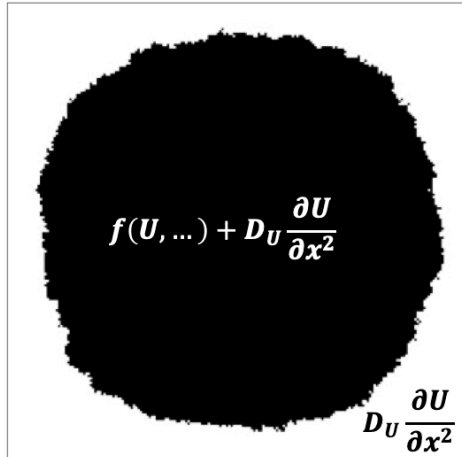
$$f(U, \dots) + D_U \frac{\partial U}{\partial x^2}$$

$$D_U \frac{\partial U}{\partial x^2}$$

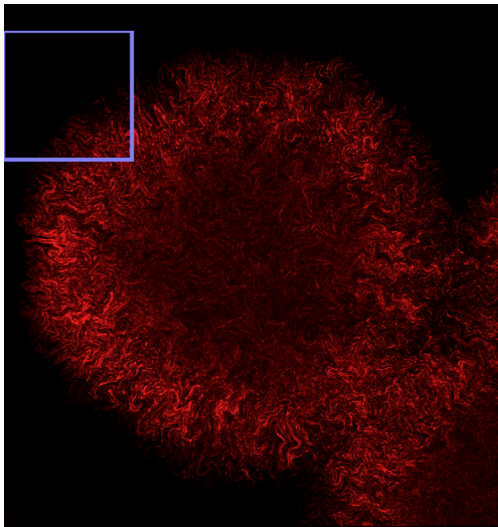
$$\frac{\partial U}{\partial t} = f(U, \dots) + D_U \frac{\partial U}{\partial x^2}$$

$$f(U, \dots)$$

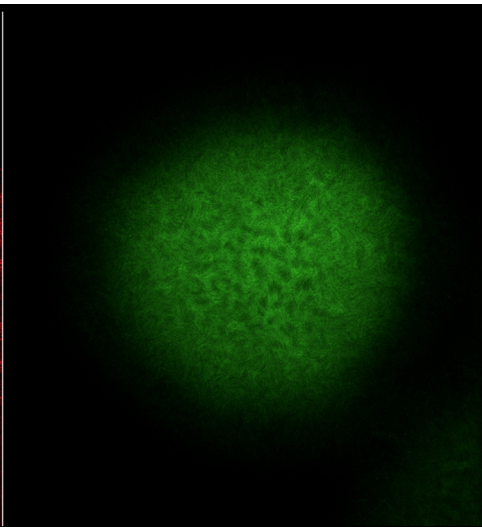
- Basal production (b)
- Regulated production (V, K)
- Degradation (μ)



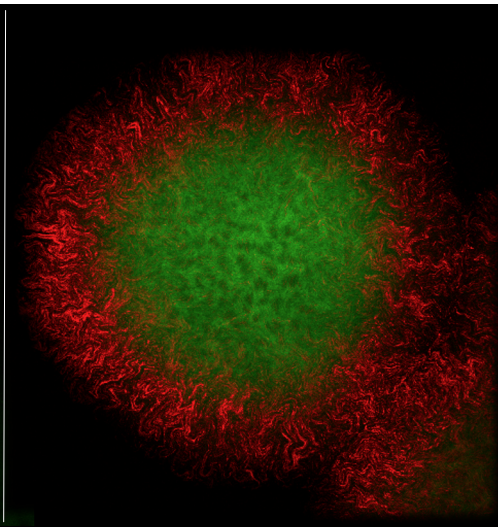
A) Red channel



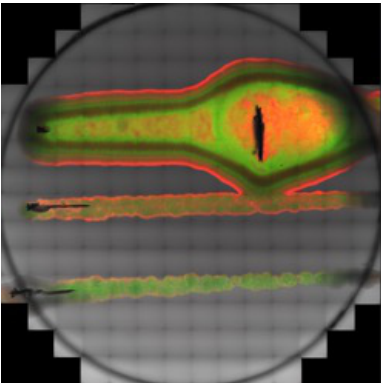
B) Green channel



C) Superposed RG channels



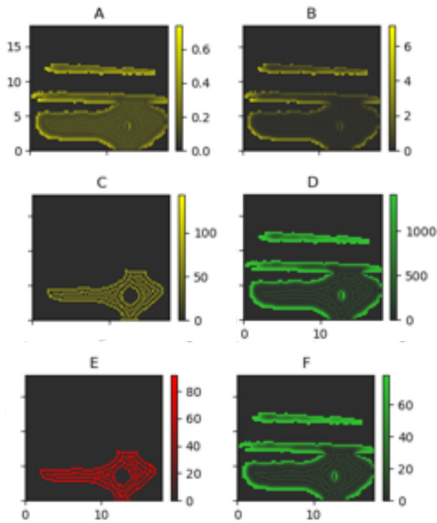
A) Confocal Microscopy



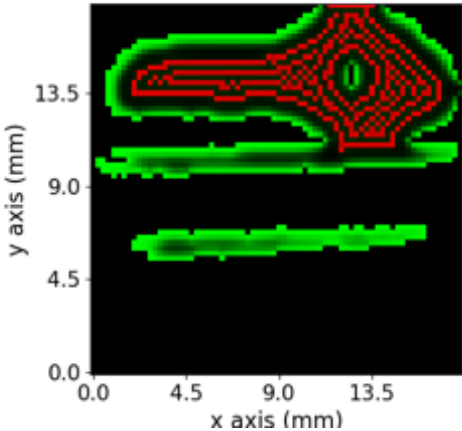
b) Boolean Shape Matrix



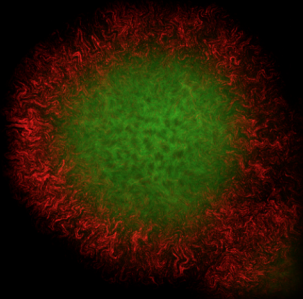
C) 6 species numerical solution



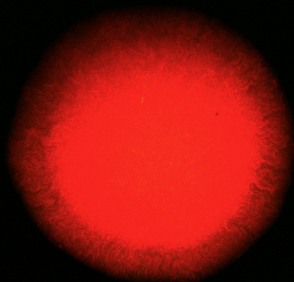
C) Red-Green superposed numerical solution



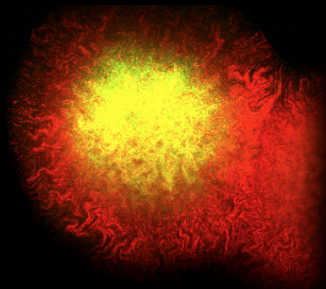
A) aTc tuning



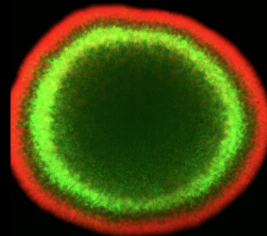
aTc \emptyset



aTc 10^{-1}

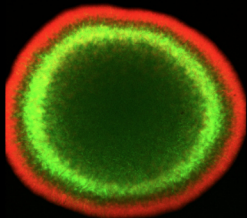


aTc 10^0

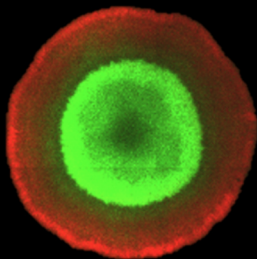


aTc 10^1

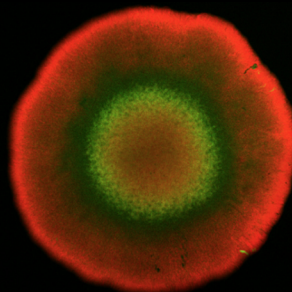
B) Time series of high aTc: $10^1 \mu\text{M}$



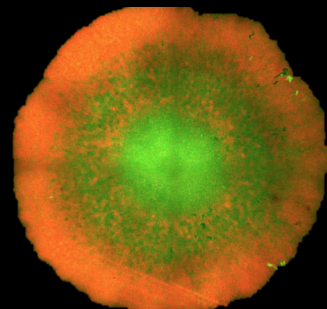
26h



38h

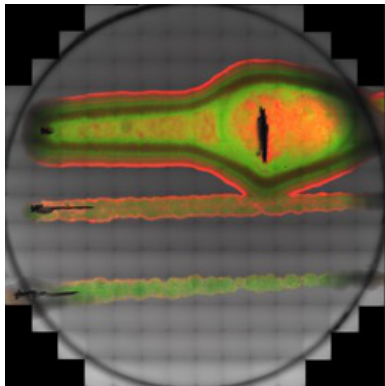


50h



64h

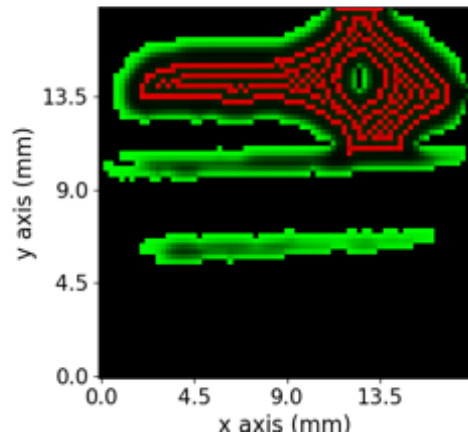
A) Confocal Microscopy



b) Shape Matrix



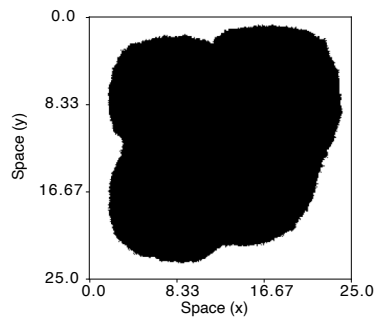
c) Numerical solution



Time

x

y



$$f(U, .) + D \frac{\partial U}{\partial x^2}$$

$$D \frac{\partial U}{\partial x^2}$$

