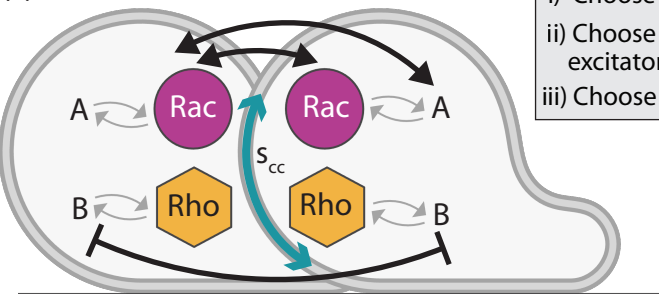


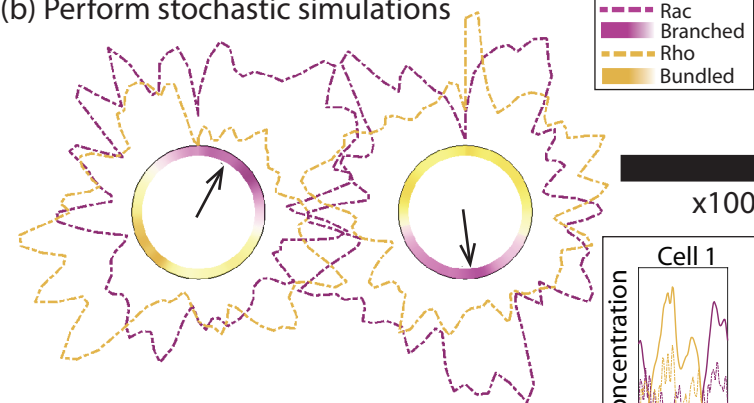
(a) Choose an interaction mechanism



- i) Choose a intercellular interaction
- ii) Choose an inhibitory (\neg) or excitatory (\rightarrow) effect of interaction
- iii) Choose an amplification factor

Intercellular region: $s_{cc} = 1/4 \int ds$

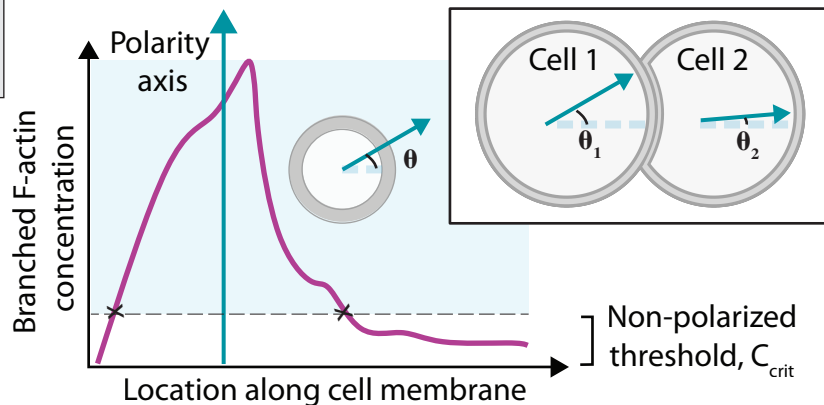
(b) Perform stochastic simulations



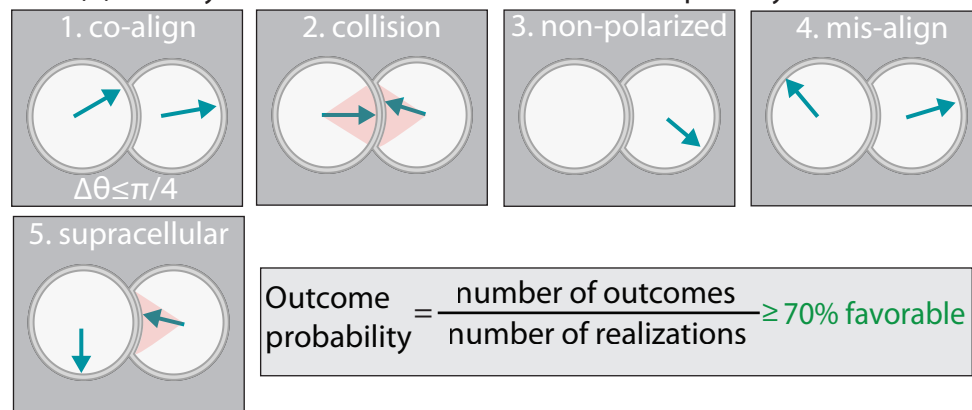
(e) Outcomes

	Single cell	Doublet
Spontaneous	92%	24.5%
External stimulus	97%	27.5%

(c) Identify polarity axes of both cells in doublet



(d) Classify outcomes based on orientation of polarity axes



$$\text{Outcome probability} = \frac{\text{number of outcomes}}{\text{number of realizations}} \geq 70\% \text{ favorable}$$