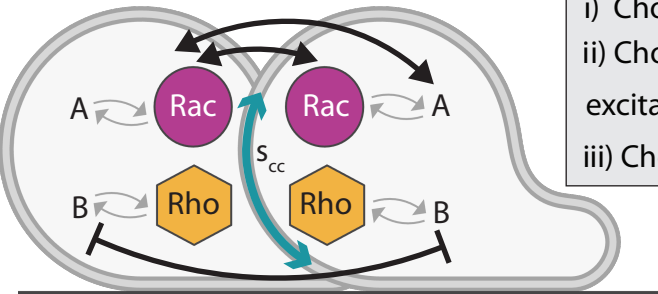
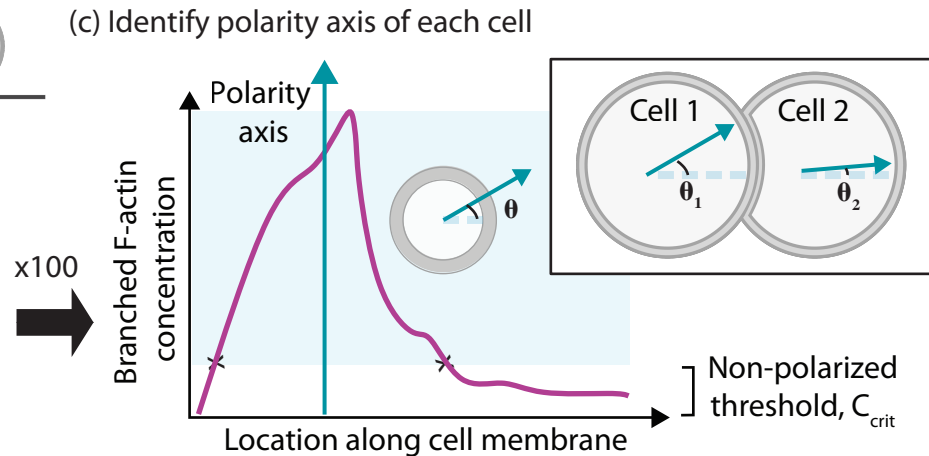


(a) Choose an interaction mechanism

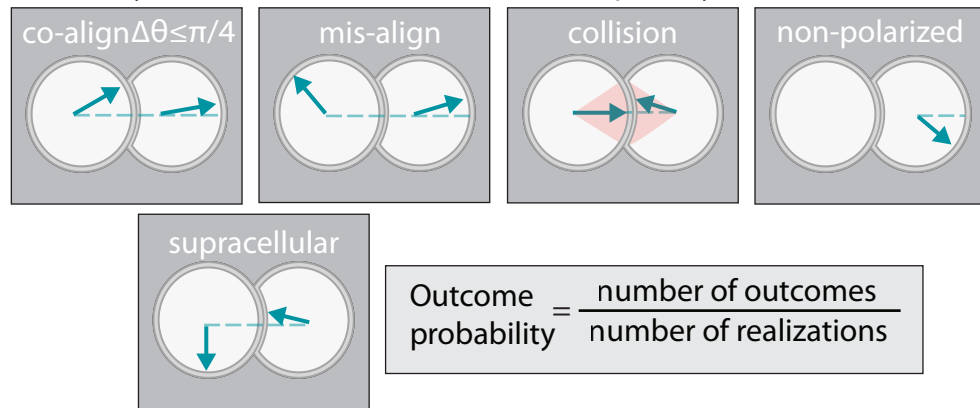


- i) Choose a intercellular interaction
- ii) Choose an inhibitory (\dashv) or excitatory (\rightarrow) effect of the interaction
- iii) Choose an amplification factor

Intercellular region: $s_{cc} = 1/4 \int ds$
 (b) Perform stochastic simulations



(d) Classify outcomes based on orientation of polarity axes



(e)

	Single cell	Doublet
Spontaneous	92%	24.5%
Ext. stimulus	97%	27.5%

$$\text{Outcome probability} = \frac{\text{number of outcomes}}{\text{number of realizations}}$$