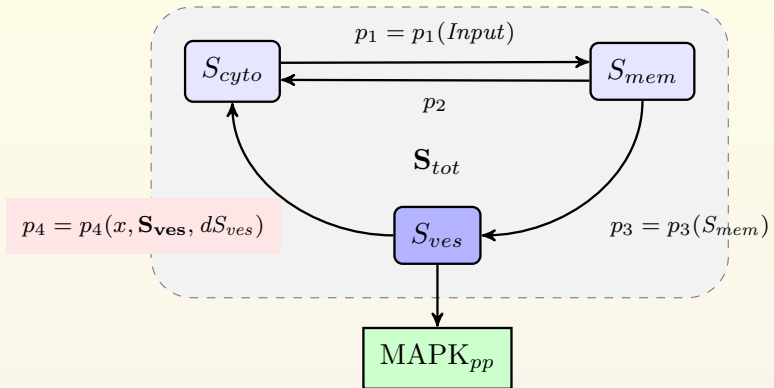
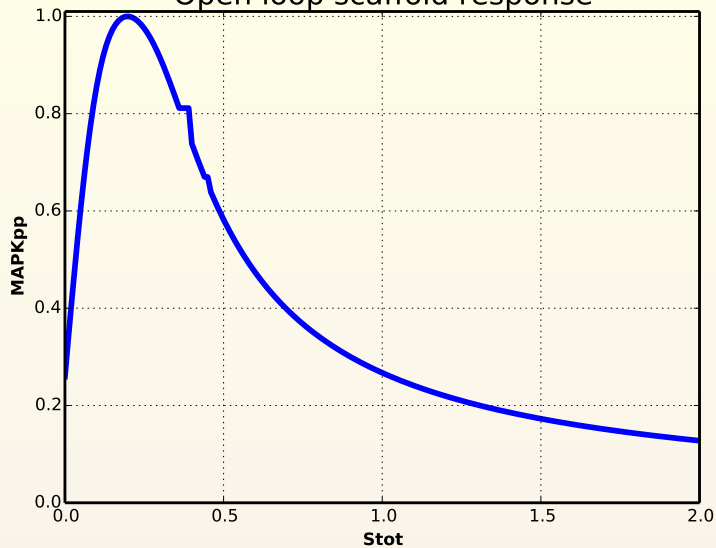
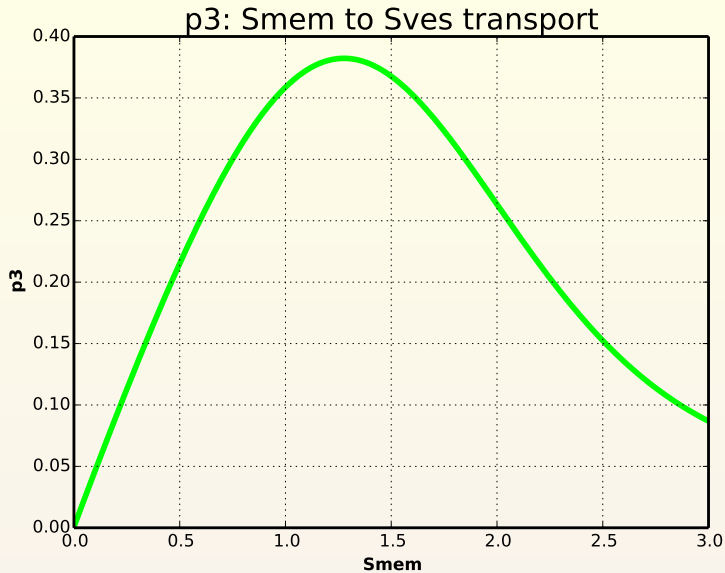


Model Schematic



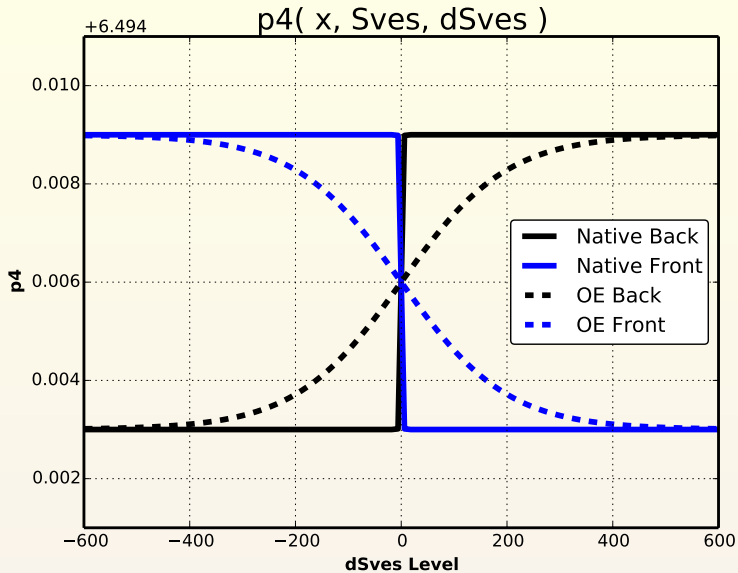
Open loop scaffold response



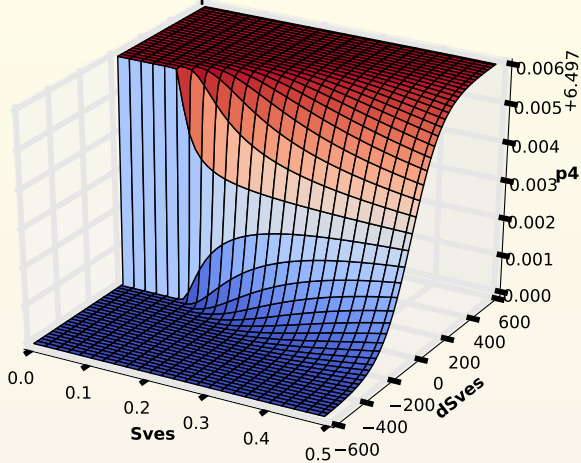


p4 as a function of Sves and dSves

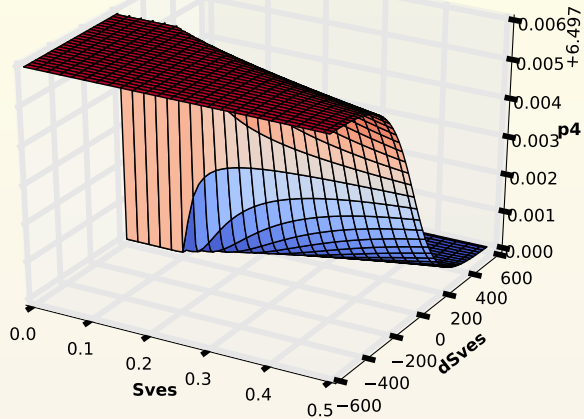
- Previously I've demonstrated why p4 had to be a function of dSves
- dSves serves as the polarity compass btw front and back of the cell
- Now I'm demonstrating why p4 needs to be a function of Sves as well
- Sves serves as sigmoidal strength factor
 - ▶ Low Sves: short transition range
 - ▶ High Sves: long transition range



p4 Back



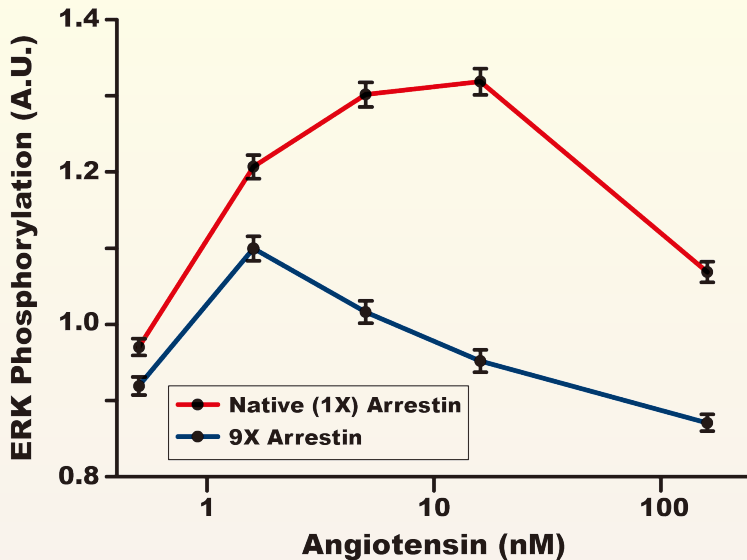
p4 Front



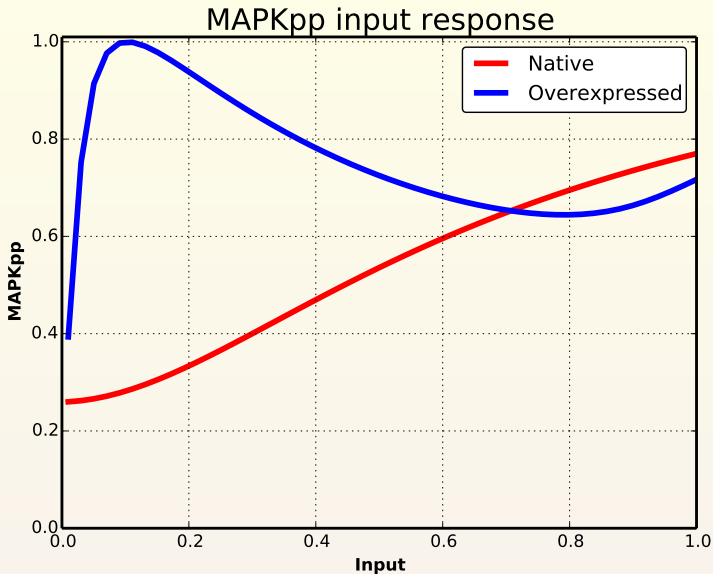
Comparison with experiments

MAPKpp Dose Response

D

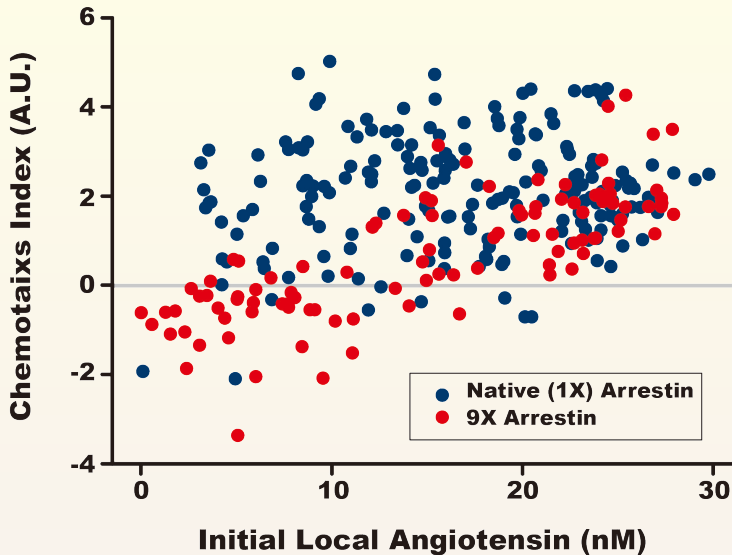


MAPKpp Dose Response

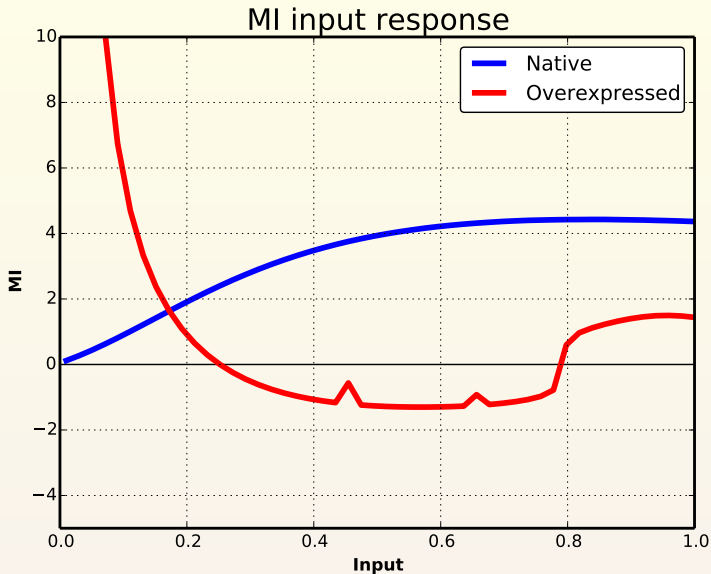


MI Dose Response

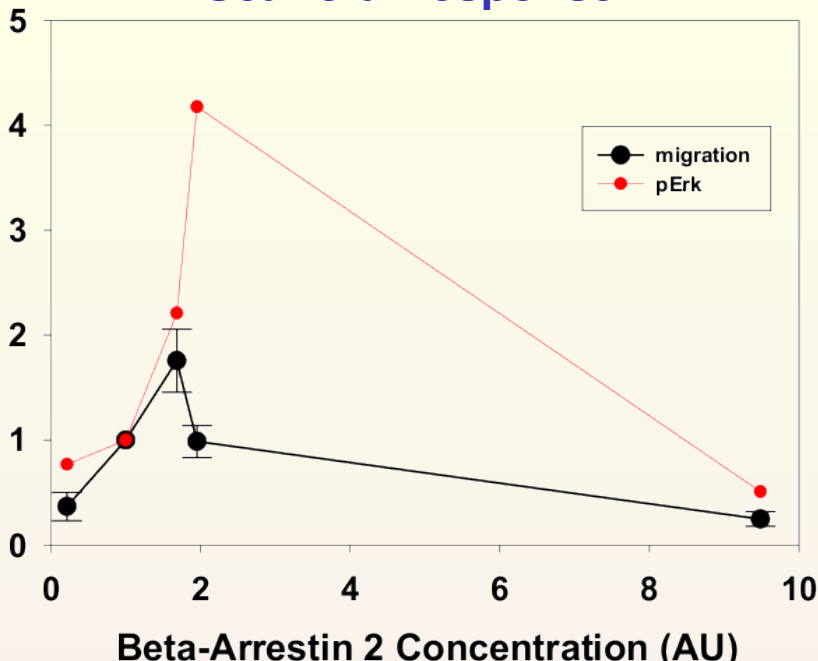
B



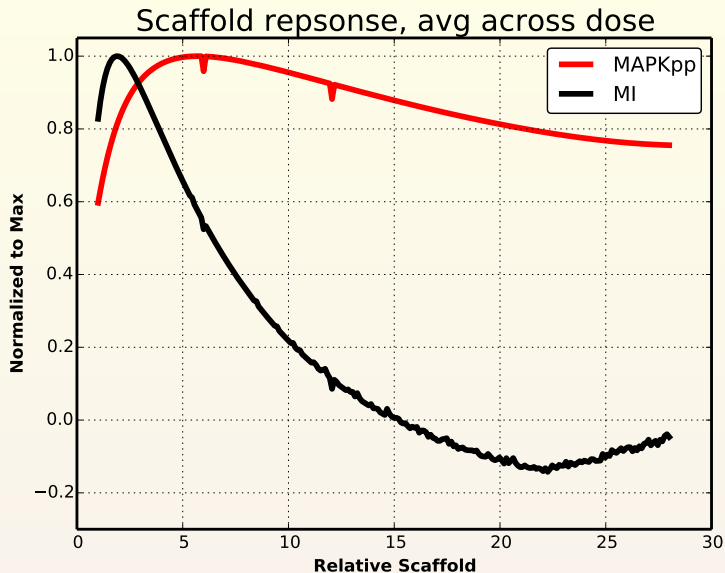
MI Dose Response



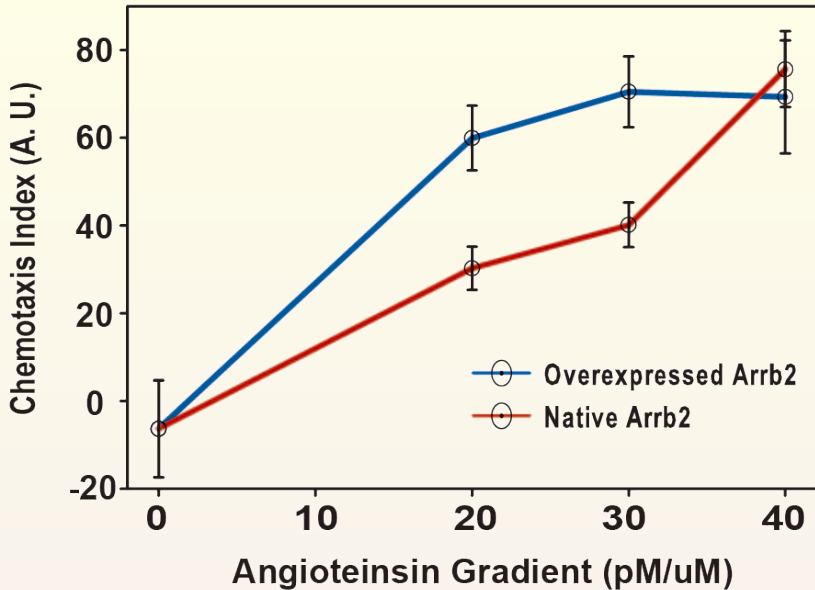
Scaffold Response



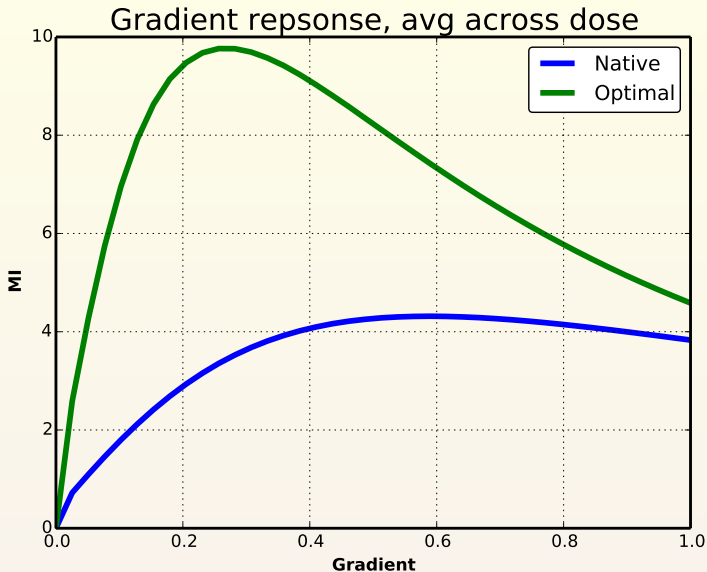
Scaffold Response



Gradient Response

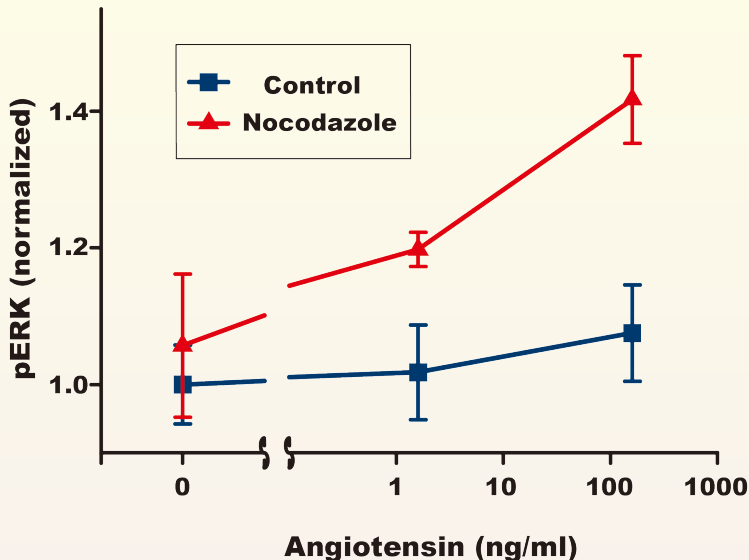


Gradient Response

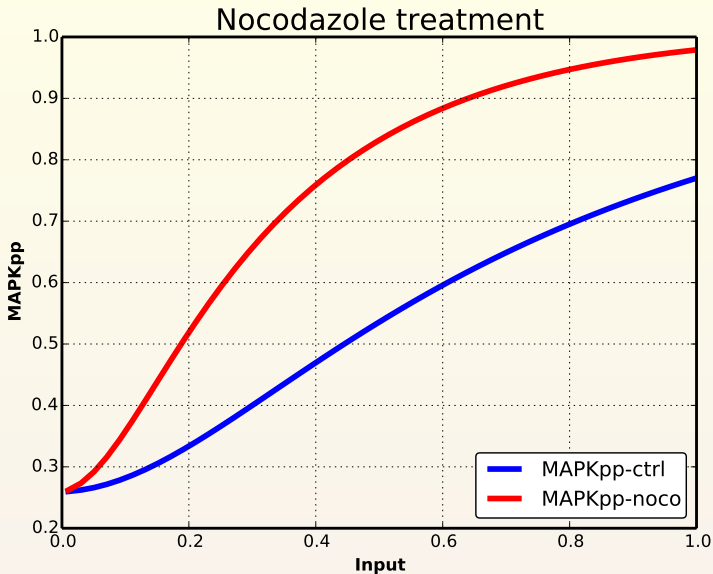


Nocodazole treatment

E

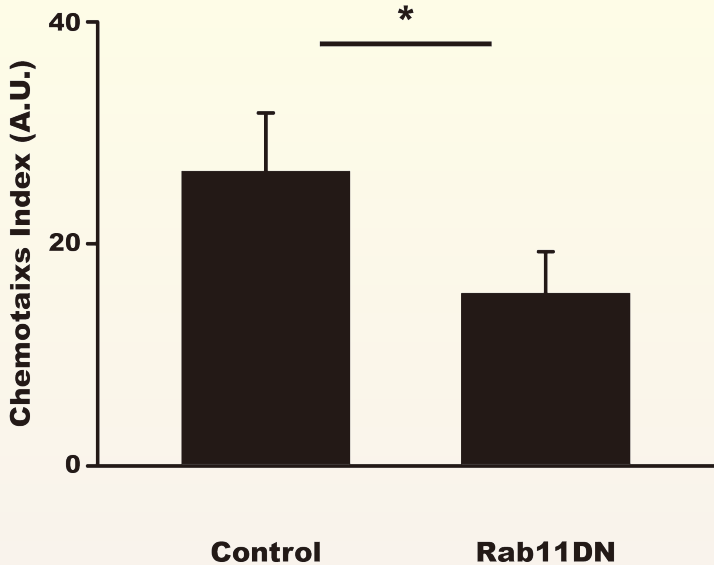


$$S_{ves} \rightarrow S_{cyto}, 20\%p_4$$



Rab11-DN

F



Rab11-DN

