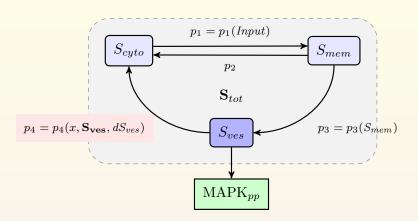
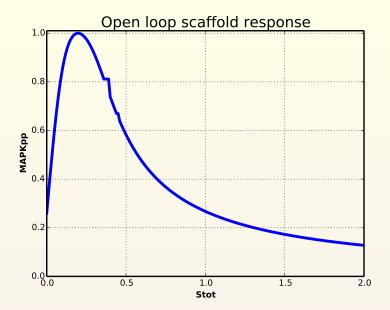
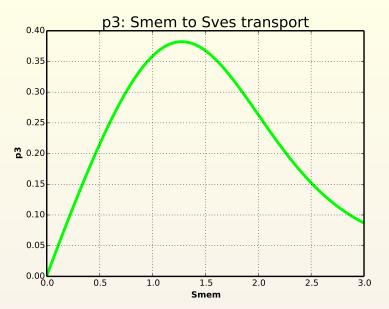
Model Schematic







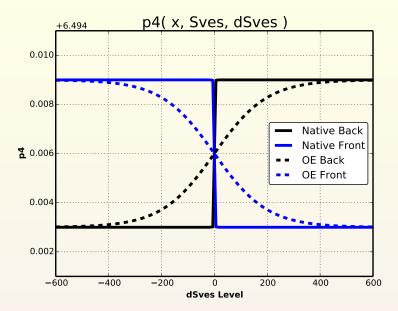
p4 as a function of Sves and dSves

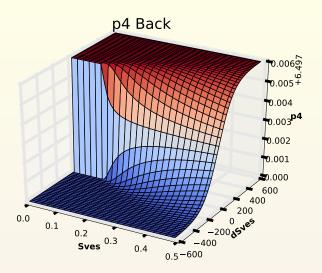
Previously I've demonstrated why p4 had to be a function of dSves

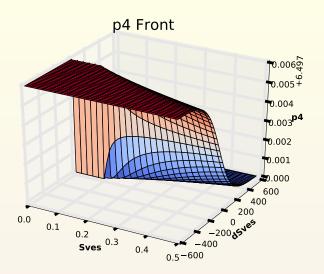
 dSves serves as the polarity compass btw front and back of the cell

 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



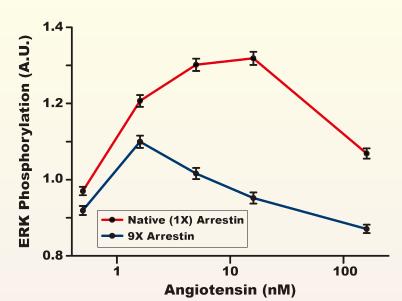




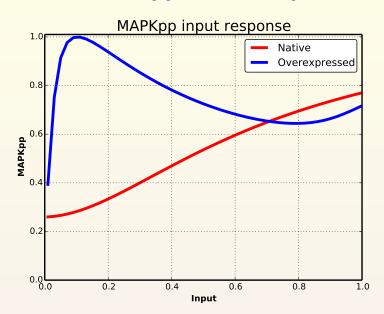
Comparison with experiments

MAPKpp Dose Response

D

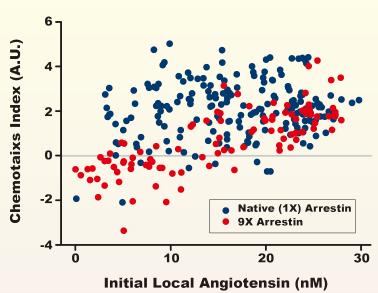


MAPKpp Dose Response

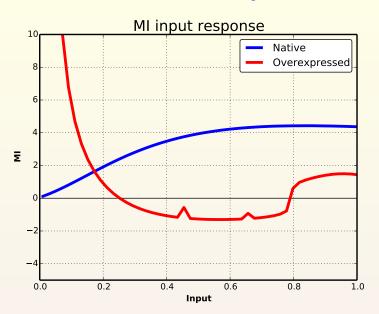


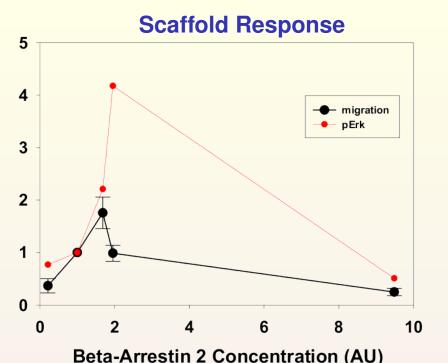
MI Dose Response

B

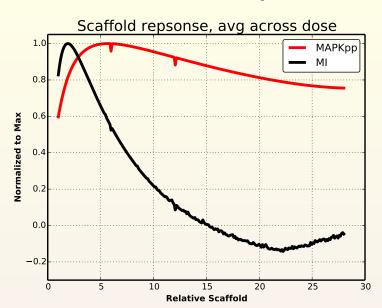


MI Dose Response

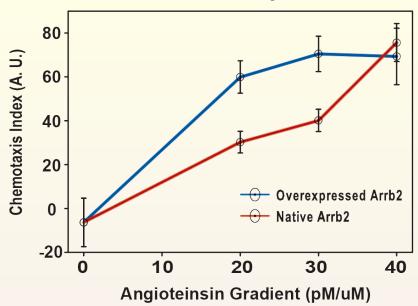




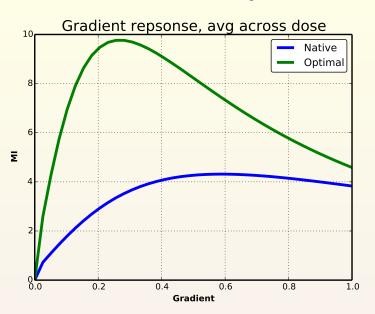
Scaffold Response



Gradient Response

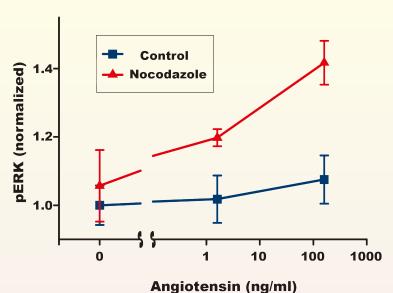


Gradient Response

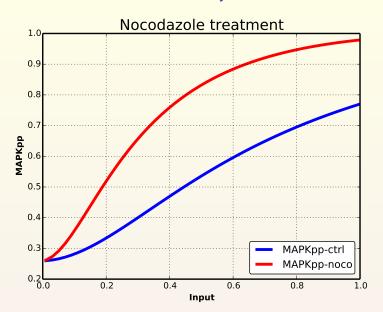


Nocodazole treatment

E

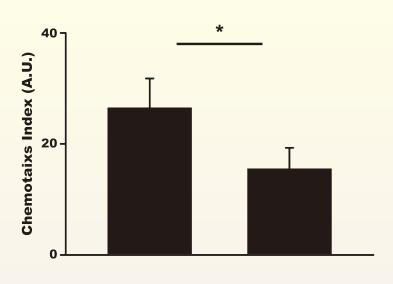


$S_{\textit{ves}} ightarrow S_{\textit{cyto}}, 20\% p_4$



Rab11-DN





Control

Rab11DN

Rab11-DN

