

Figure update

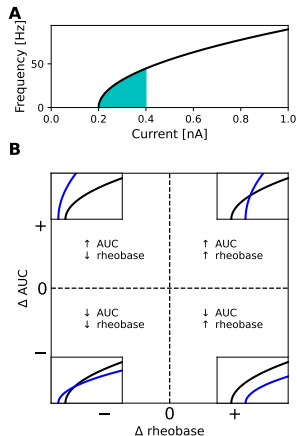
Nils Koch

Intro to org to Beamer

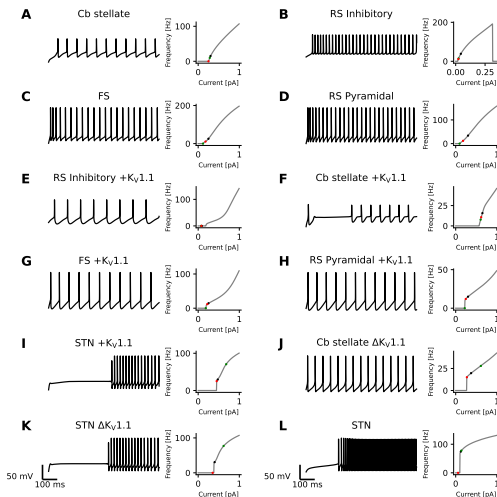
- This is not that visually appealing, but I haven't taken the time to set the colors and style to my liking in the Latex header
- I have tried to include as many examples of things I find useful as possible
 - ▶ sometimes this makes the slide not make much sense, but the example of how to do things is hopefully useful
- The only slight pain with using org for both Beamer and normal Latex pdf is:
 - ▶ you cannot have the pdf open in some pdf viewers and export to it (eg adobe)
 - ▶ I use Sumatra
(<https://www.sumatrapdfreader.org/free-pdf-reader>)
 - ★ can have your pdf open in sumatra, export to it and it will update the pdf to the new exported file while open

Firing Characterization

- Firing is a complicated phenomenon
- How to best characterize it?
 - ▶ rheobase
 - ▶ AUC



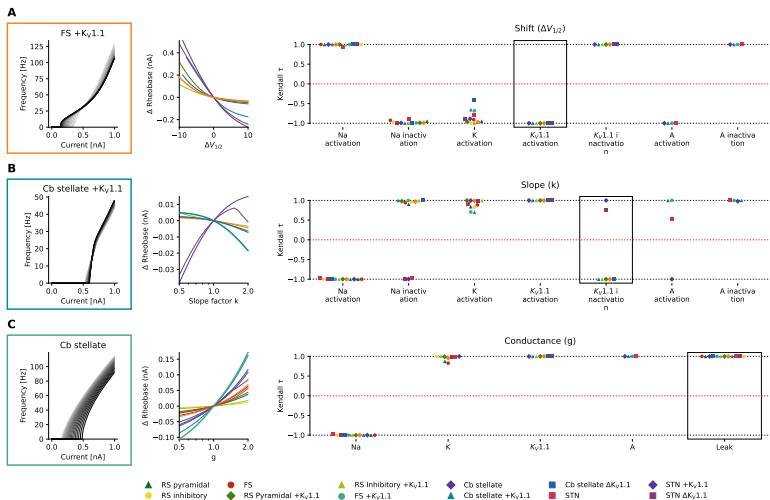
Diversity in Firing Properties of the Models



Sensitivity analysis: OFAT

- one factor at a time sensitivity analysis
 - simulate firing responses
 - ▶ compute fl curves
 - ★ get rheobase
 - ★ compute AUC

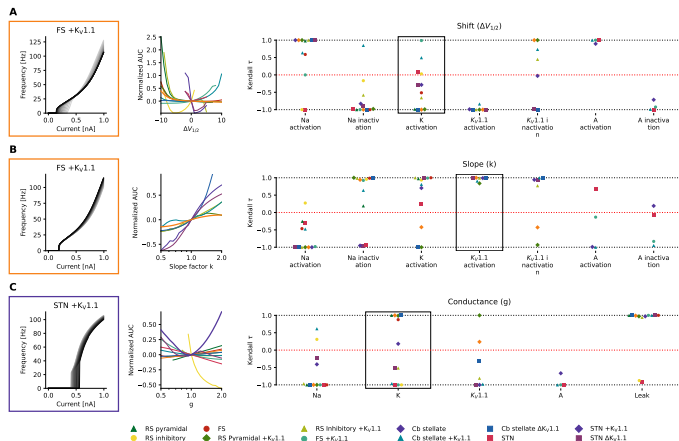
Rheobase sensitivity Analysis



Koch et al. 2022

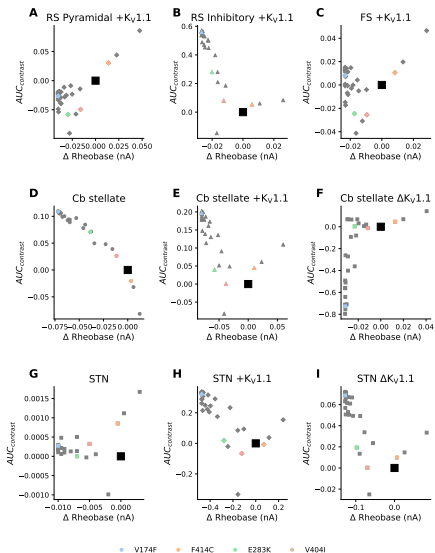
AUC Sensitivity Analysis

- AUC = area under the curve

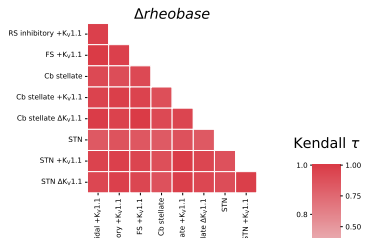


- AUC over the initial non-zero fl curve is a proxy for slope

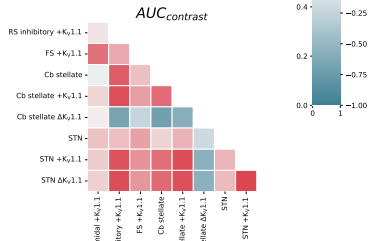
K_V1.1 Mutations



J



K



Ramp Firing

