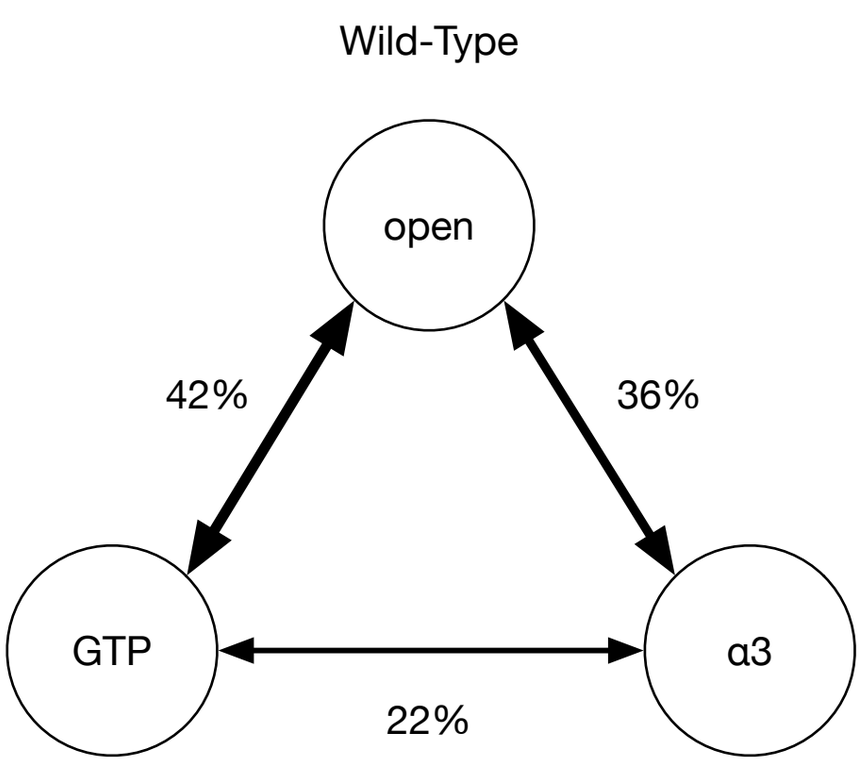
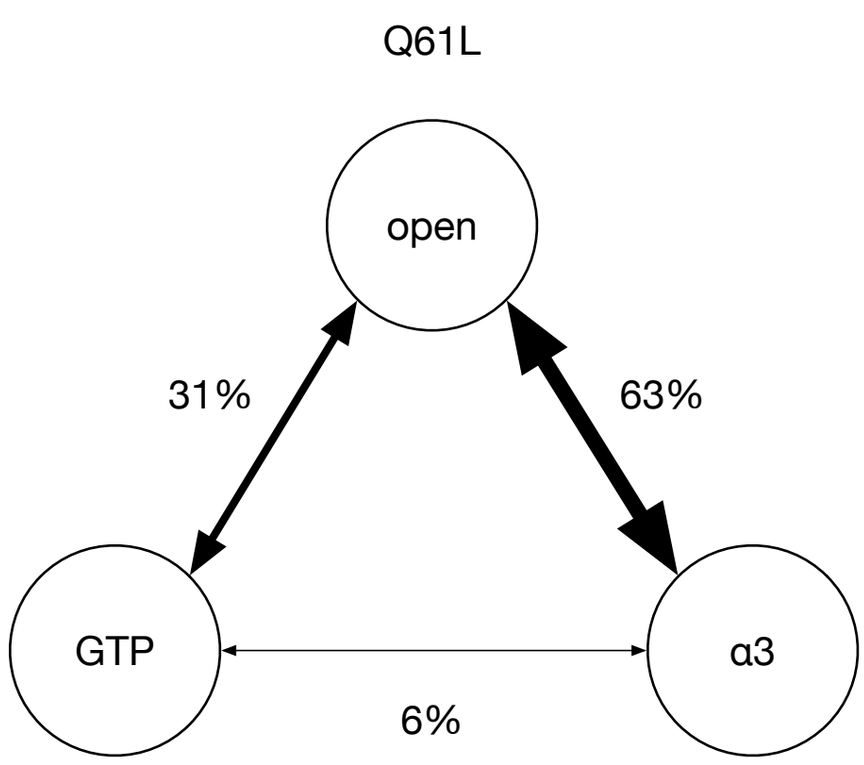
KRas: Channel Probabilities

Determine channel probability based number of switches between channels and number of steps spent in channel.

$$P_i = \frac{1}{\sum_{j \neq i} n_{ji}} \sum_{j \neq i} \frac{n_{ij} + n_{ji}}{\frac{1}{P_i} + \frac{1}{P_j} \frac{t_j}{t_i}}$$

cf Stelzl & Hummer, JCTC 2017





Roet, Hooft, Bolhuis, DWHS, Vreede. bioRxiv 2020.

Why 2 different methods?

Approach used on DNA based on 2 channels, only switching one way. Not valid for KRas.

Approach used on KRas requires that every trajectory be in one of the channels. Not valid for DNA!