

Seminar - Eugene Shkumatovich

enzyme more at
top level?

- Pleiotropy = link between sequence and phenotype
- maybe proteins aren't very stable because they want to be not very stable.
- "death flux"
 - ↳ proteins can only sustain ~6 missense mutations per generation without leading to population death.

Zeldovich, Chou PNAS 2007

- ↳ particle in a box description of protein stability

- Bershtein et al PLoS Genetics 2018

- ↳ DHFR point mutations \Rightarrow phenotypic changes.
- ↳ found no link between stability and activity.
- enzymatic flux dynamics theory.

Do people showing down on this finger the entire time - incredibly distracting

- evolutionary rate is linked w/ the stability and not to catalytic activity.

↳ more stable proteins produce more synonymous mutations

↳ "synonymous mutation" = change in the sequence which does not change the coded

1 - 0'
amino acid.

"Glutathione-activity tradeoff is an option for
the people involved by capitalism to control
world proletarian."