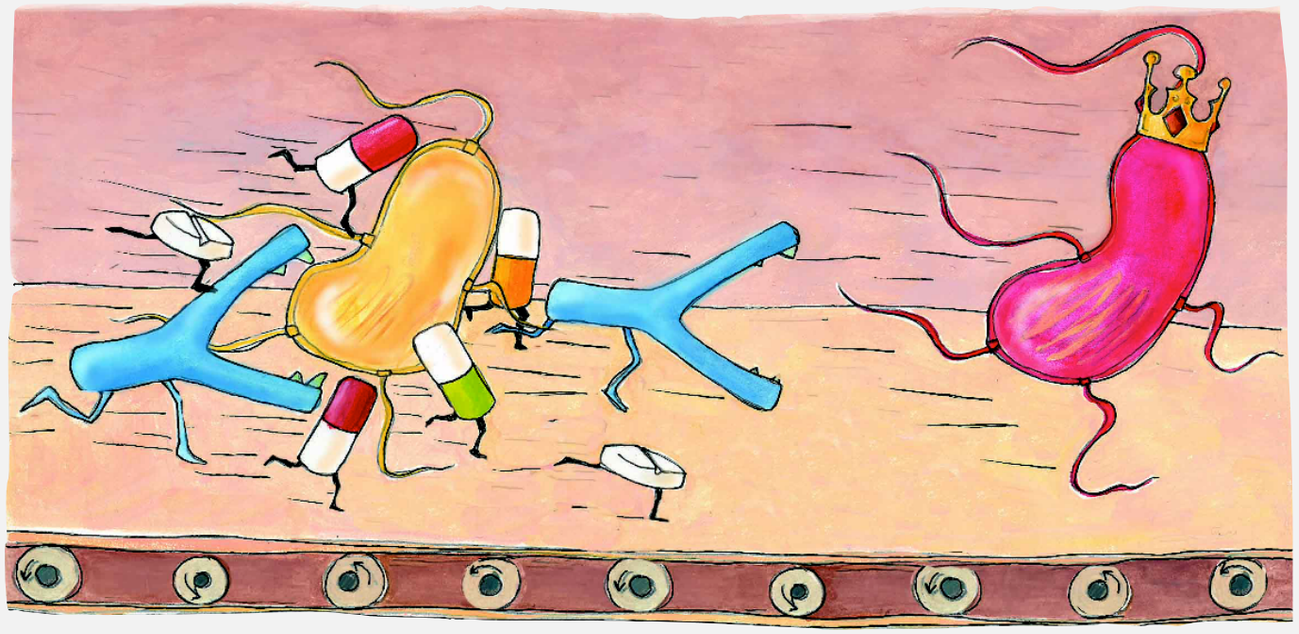
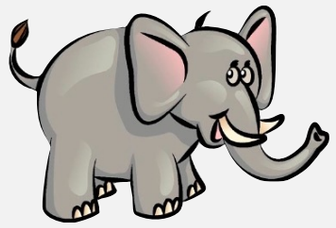


Antoine Frénoy - TB

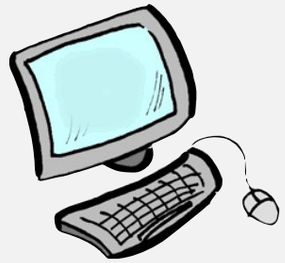
I ♥ provocative, paradigm shift hypotheses

Studied mathematical logics, cognitive sciences & animal behaviour in a previous life



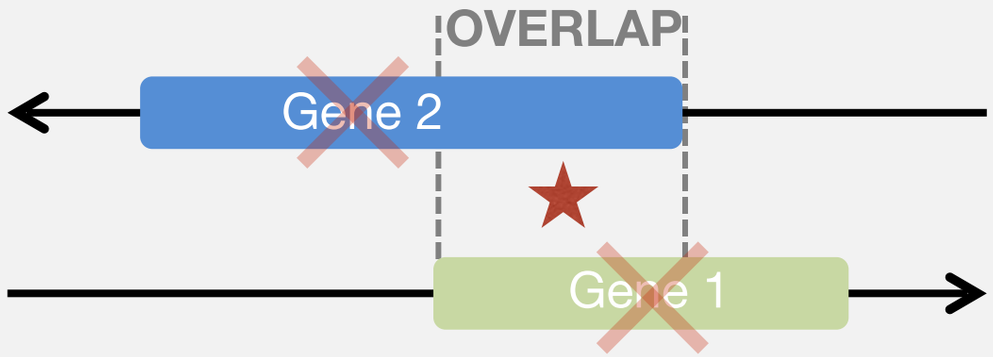
Scientific background: second-order traits in microbial evolution, traits impacting organism's ability to evolve

eg mutation rate, DNA repair, evolvability suppression and contingency loci...

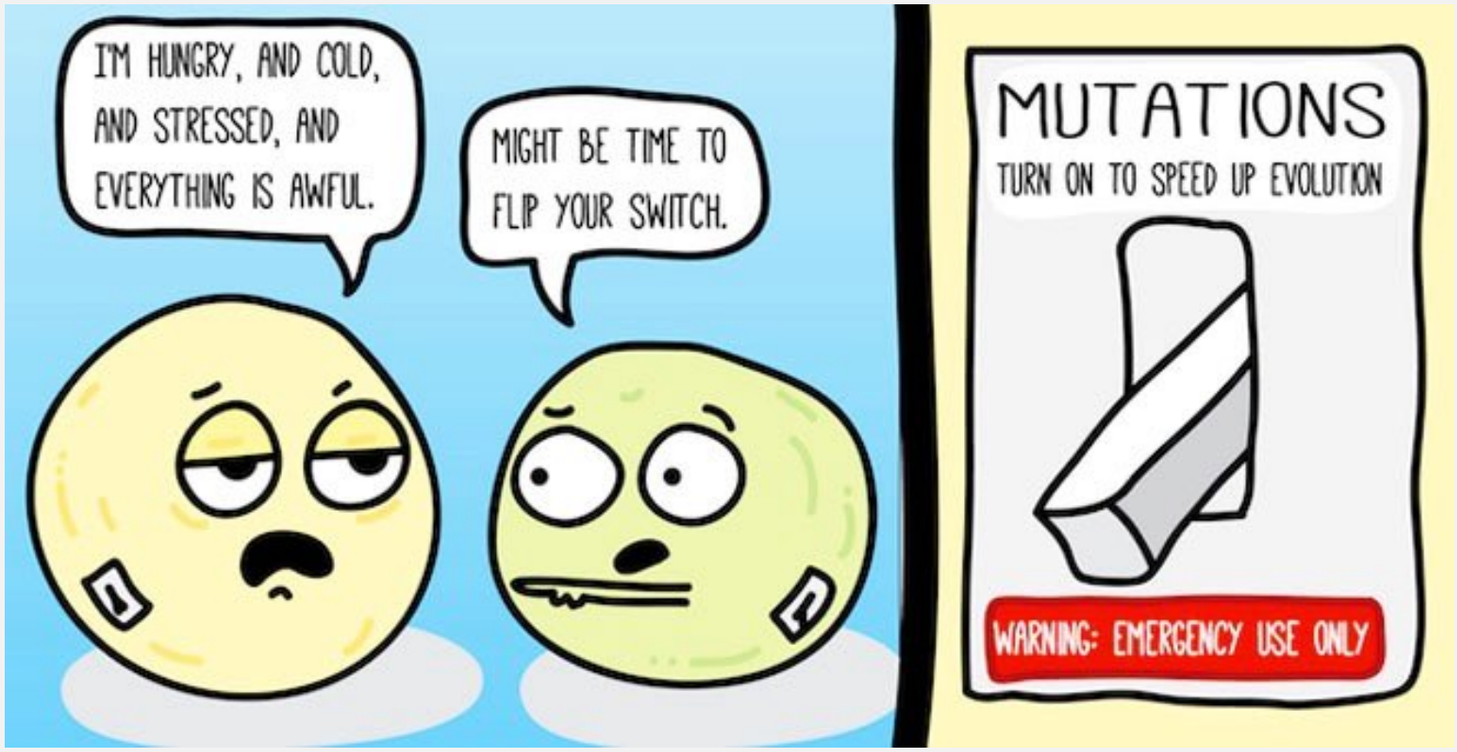


Generally ok with computing & data analysis

Evolvability suppression: organisms restricting their own evolutionary potential, eg preventing loss of cooperation or cancer



Regulation of evolvability: mutation rate plasticity

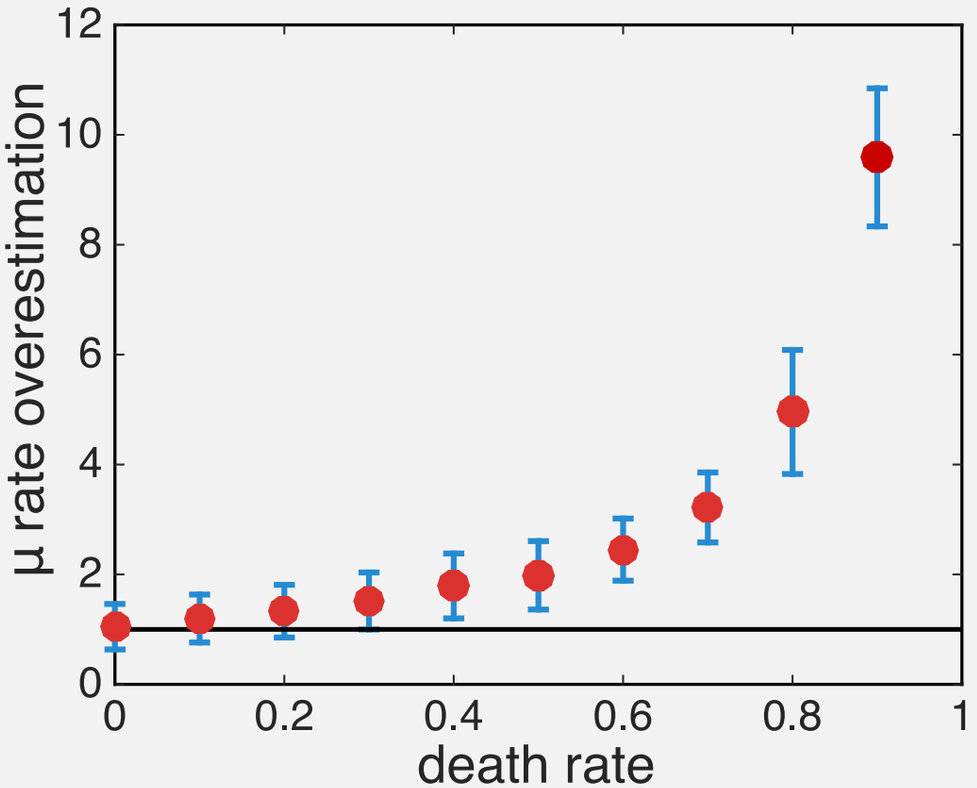


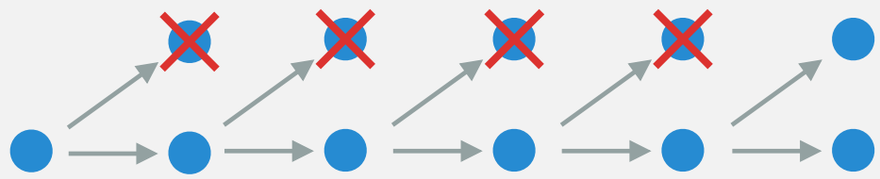
Stress-induced mutagenesis: one of the most fascinating recent development of evolutionary theory.

Unfortunately all experimental evidences are bullshit.

The Future

- Selfish genetic elements (insertion sequences & plasmids)
- Locus specific selection pressures / rates and modes of adaptation





Death = hidden divisions if looking only at net growth rate -> **systematic over-estimation of mutation rate**

We need to know real population dynamics!