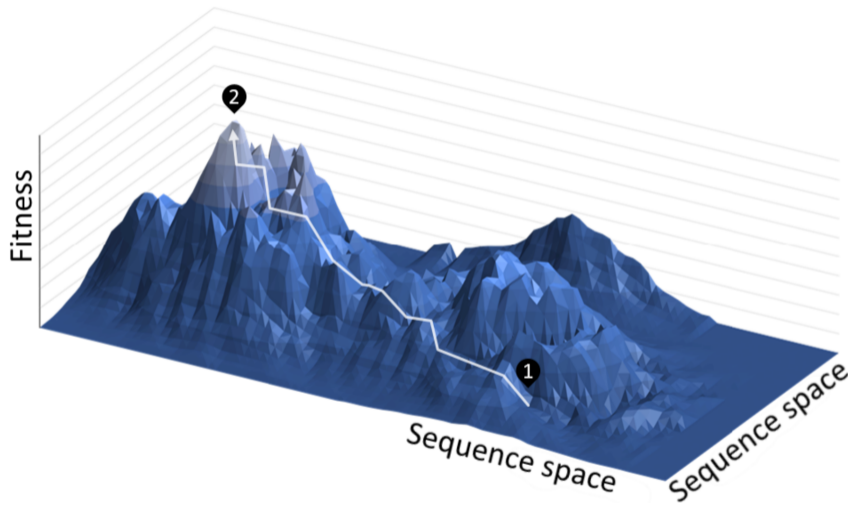


Proximal Exploration for Model-guided Protein Sequence Design

Zhizhou Ren *, Jiahan Li *, Fan Ding, Yuan Zhou, Jianzhu Ma, Jian Peng

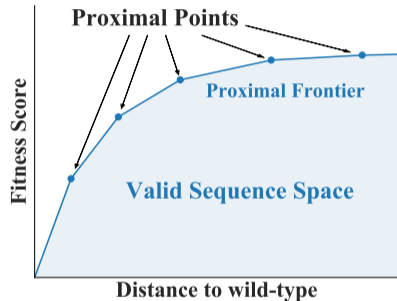
ICML 2022

(Model-guided) Directed Evolution

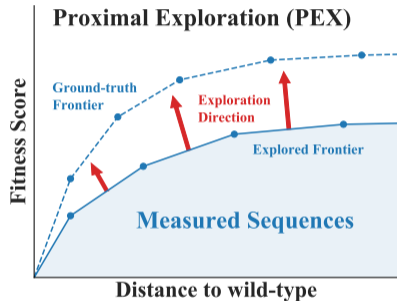


(figure from wikipedia)

Proximal Exploration (PEX)

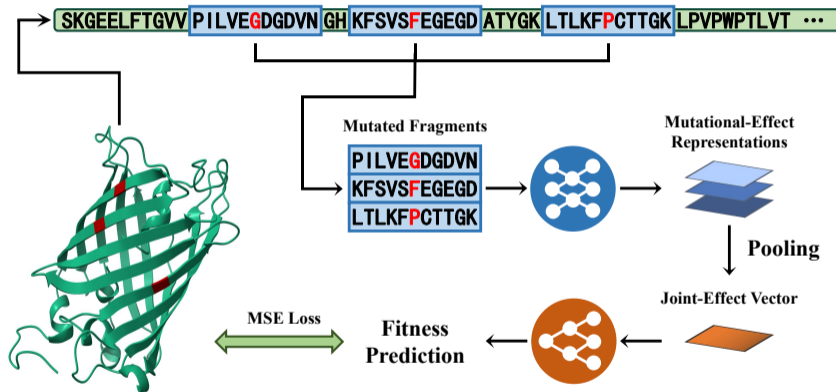


(a) Frontier of Proximal Points

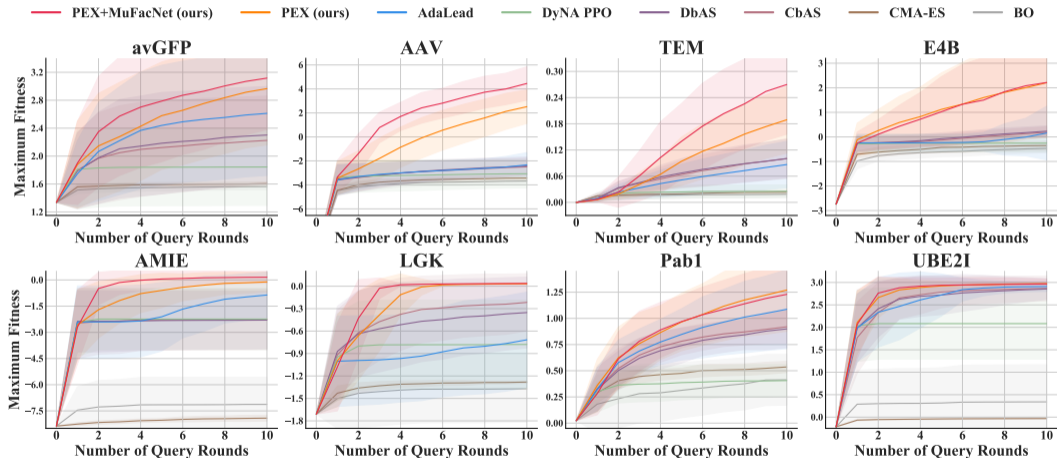


(b) Proximal Exploration

Mutation Factorization Network (MuFacNet)



Experiments



Thanks for Listening