Biochemistry Honours 2017 – Computational Systems Biology

Enzyme kinetic mechanisms for derivation of rate equations:

1A – Ordered with NADH binding first; Pyr inhibitor binds to all enzyme complexes

2B – Random order; Pyr inhibitor binds to all enzyme complexes that already have Pyr bound in the catalytic site

3C – Ordered with NADH binding first; Pyr inhibitor binds to all enzyme complexes with both catalytic sites occupied

4D – Random order; Pyr inhibitor binds to all enzyme complexes

5A – Ordered with NADH binding first; Pyr inhibitor binds to all enzyme complexes that already have Pyr bound in the catalytic site

6B – Random Order; Pyr inhibitor binds to all enzyme complexes with both catalytic sites occupied