<u>Enzyme kinetic mechanisms for derivation of rate equations:</u>

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

1B - Ordered with NADH binding first; Pyr inhibitor binds to all enzyme complexes with both catalytic sites occupied

1C - Random Order; Pyr inhibitor binds to all enzyme complexes that already have Pyr bound in the catalytic site

1D - Ordered with NADH binding first; Pyr inhibitor binds to all enzyme complexes that already have Pyr bound in the catalytic site

2A - Random Order; Pyr inhibitor binds to all enzyme complexes

2B - Ordered with Pyr binding first; Pyr inhibitor binds to all enzyme complexes with both catalytic sites occupied

2C - Random Order; Pyr inhibitor binds to all enzyme complexes with both catalytic sites occupied

2D - Ordered with Pyr binding first; Pyr inhibitor binds to all enzyme complexes