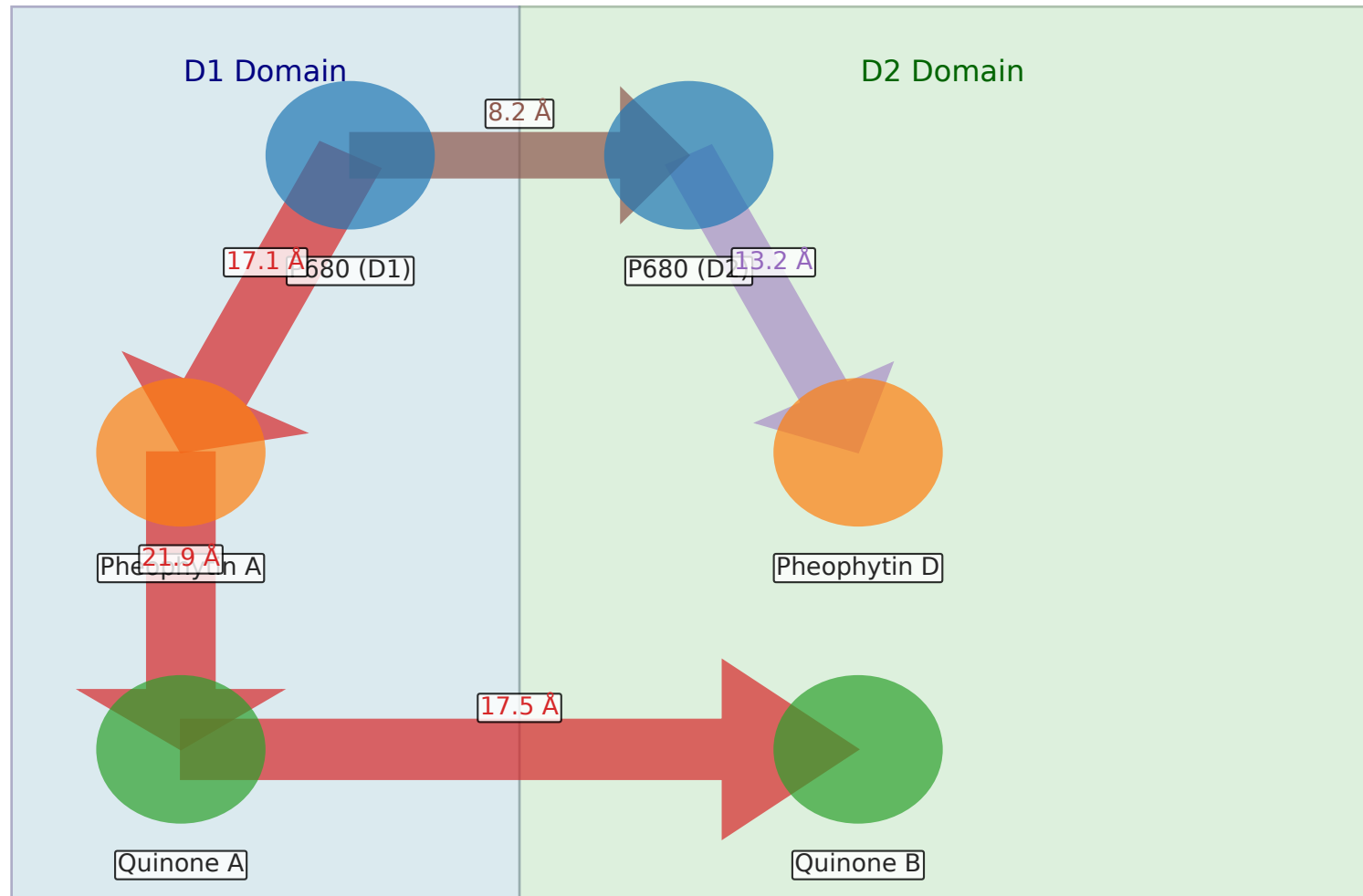


Electron Transfer Cofactors in Photosystem II



Distances between 4-14Å support quantum tunneling effects
Highly conserved residues maintain optimal cofactor arrangements

Primary Electron Transfer Path (D1) Secondary Path (D2) Excitonic Coupling