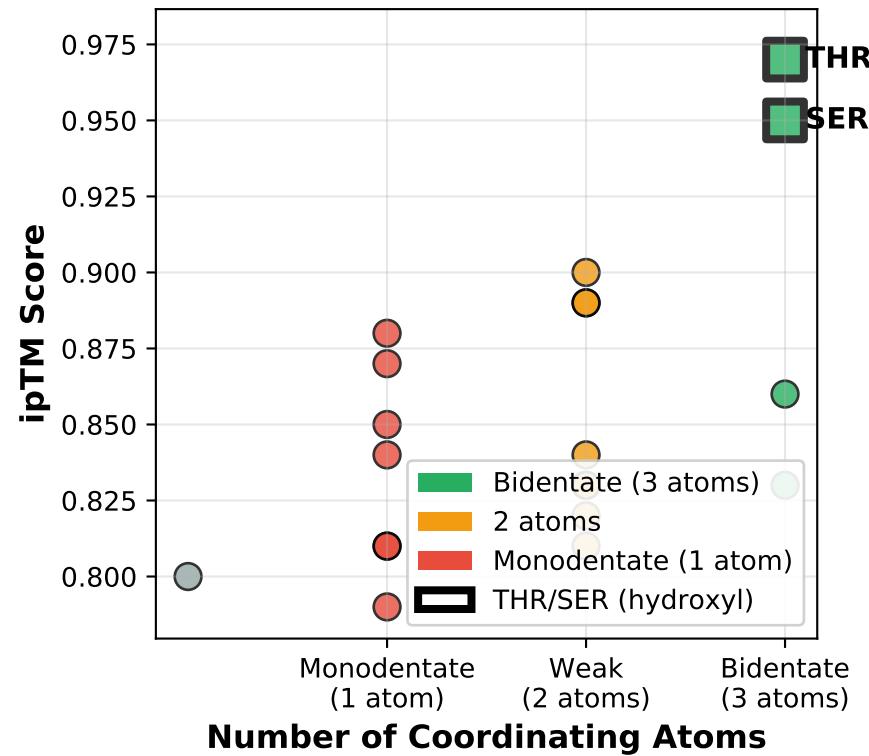
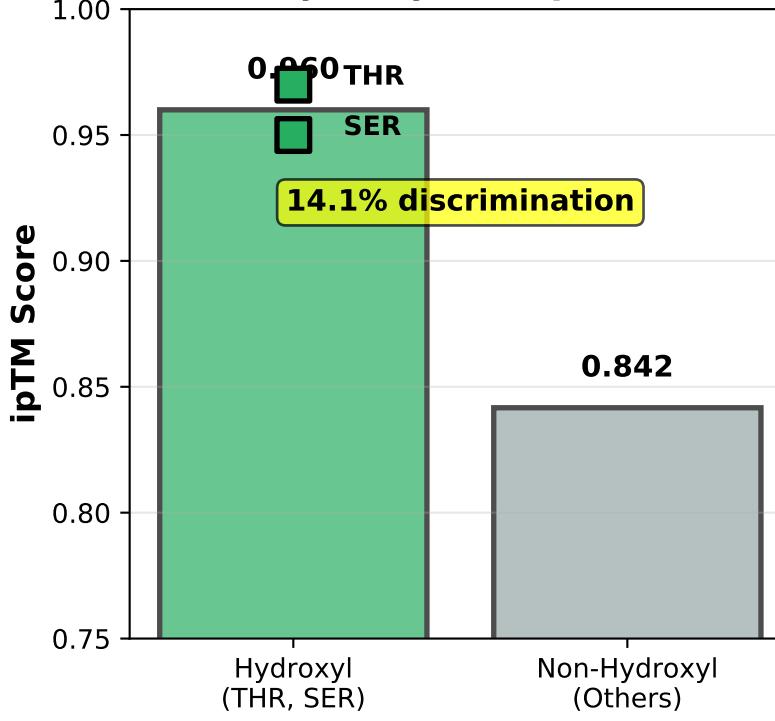


The Hydroxyl Mechanism: -OH Groups Enable Bidentate Zn^{2+} Coordination

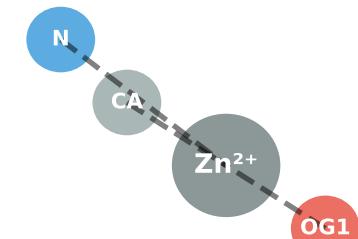
A. Bidentate vs Monodentate Coordination



B. Hydroxyl Group Effect



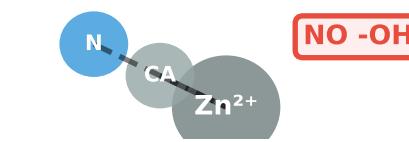
THR: Bidentate Coordination



ipTM: 0.97

3 coordinating atoms

ILE: Monodentate Coordination



NO -OH

C. ipTM Score vs Number of Coordinating Atoms

D. All Amino Acids Ranked by ipTM (Modern ThrRS + Zn)

