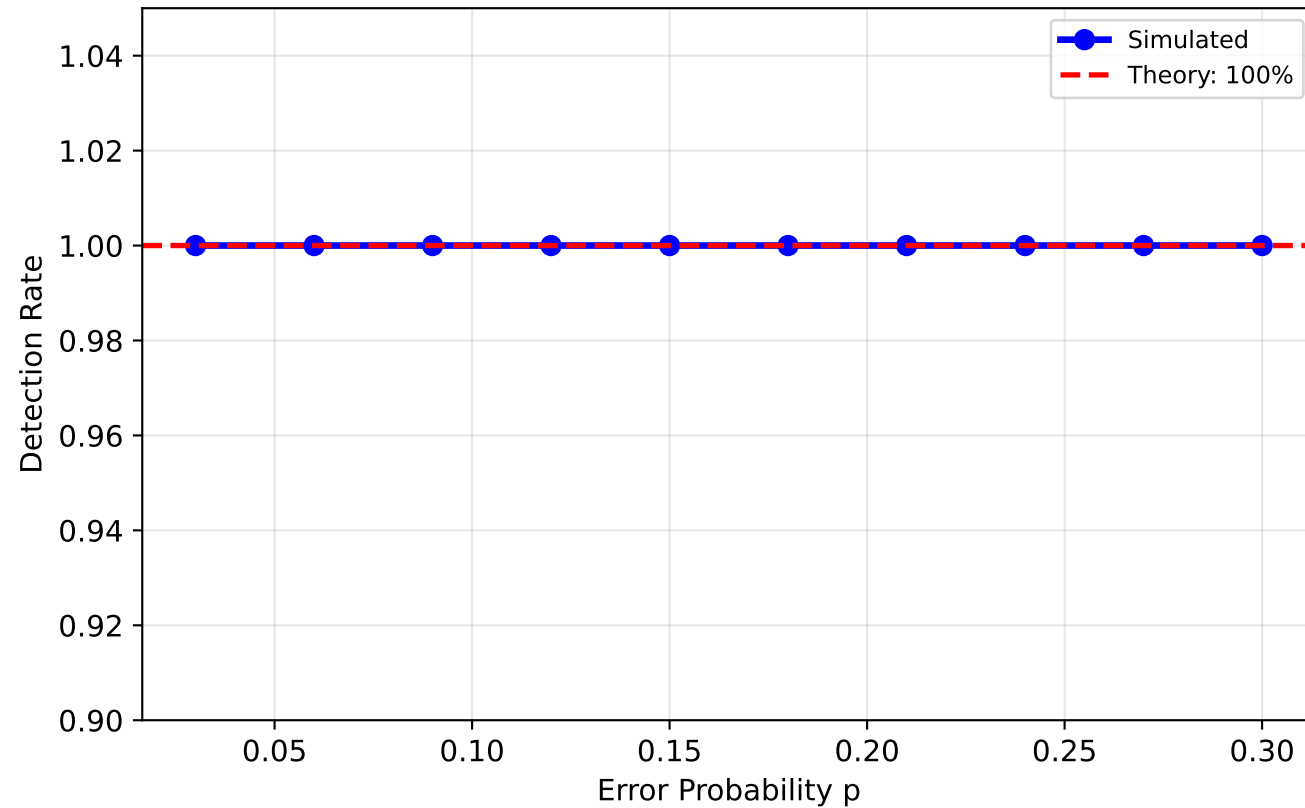
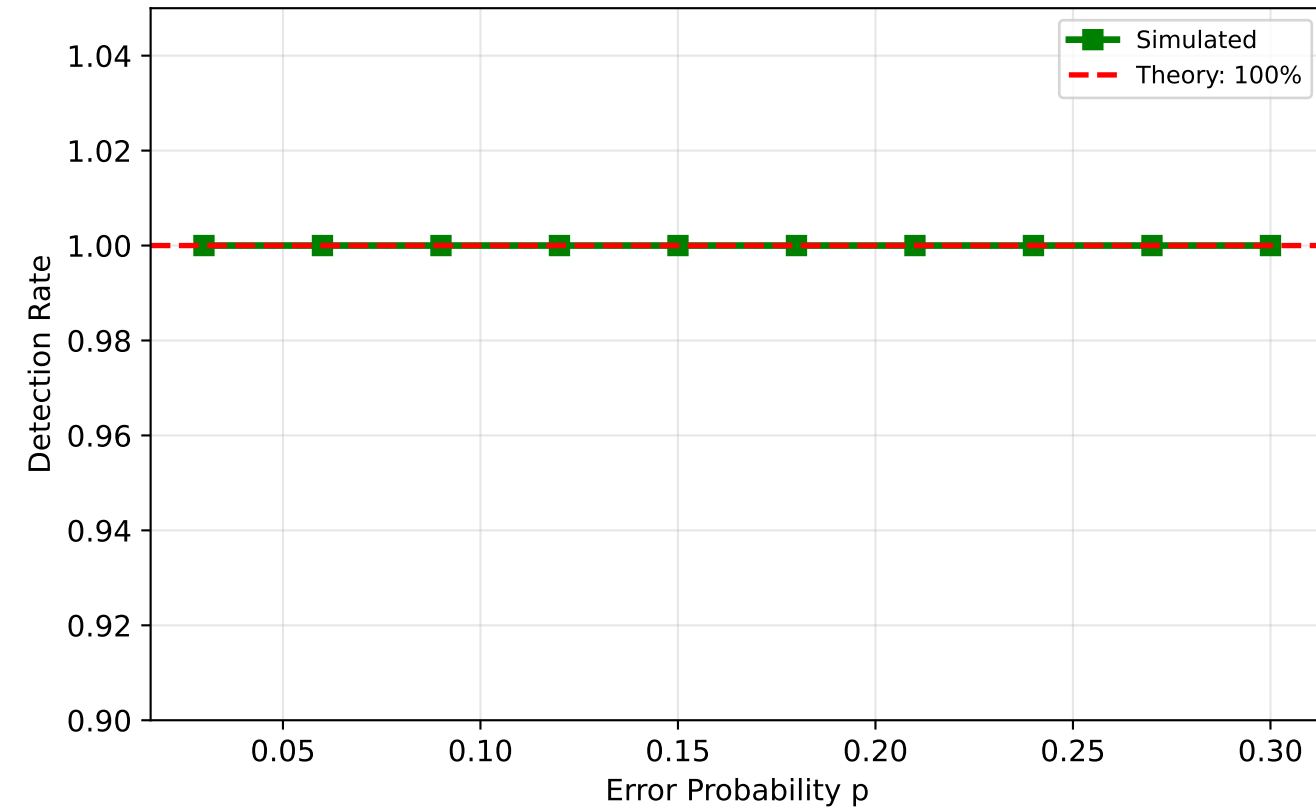


Fig. 2: Complete Biochemical Error Detection Framework

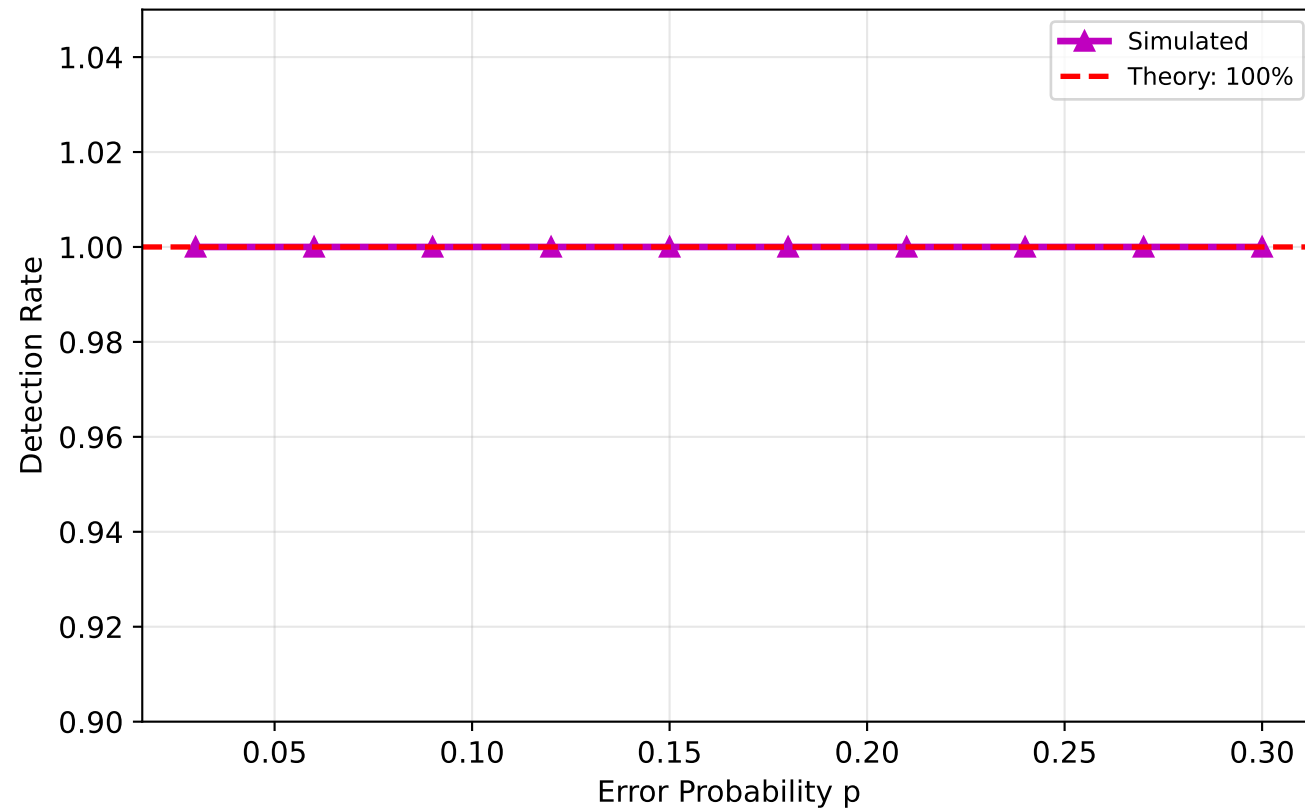
**(a) X-Error Detection
(Watson-Crick Complementarity)**



**(b) Y-Error Detection
(Purine/Pyrimidine Classification)**



**(c) Z-Error Detection
(Hydrogen Bonding)**



(d) Uncorrected Error Rate

