[XGBoost] Hypergeometric test: Collapsing analysis vs mantis-ml predictions primary vs shuffle p-value:9.943153708113499e-234 >> Focusing on significant area only: primary -- area: 17.55 synonymous -- area: 115.72 common -- area: 1.29 shuffle -- area: 0.0 > primary / synonymous ratio: 0.15 > primary / shuffle ratio: NA 50 >> Entire area: primary -- area: 329.54 synonymous -- area: 483.34 common -- area: 220.76 shuffle -- area: 32.4 Phred score from hypergeometric test (significance increasing in positive direction)  $\overset{\aleph}{\sim}$ > primary / synonymous ratio: 0.68 > primary / shuffle ratio: 10.17 10 -40 10 30 Top 5.0% mantis-ml predicted genes

