Table 1: MOCA performance when labeled data are available. Each entry represents the mean AUC ± S.E.M. from 5 fold cross validation using data from unique scientific challenges.

Challenges	sMOCA-greedy	sMOCA	uMOCA	WOC	Best Individual Classifier
D2: BCL6 Transcription Factor Target Prediction	0.835±0.029	0.906±0.022	0.892±0.025	0.733±0.029	0.767±0.047
D5: Epitope Prediction	0.898±0.004	0.900±0.003	0.874±0.005	0.872±0.003	0.892±0.001
D5: *In silico* network inference	0.849±0.005	0.856±0.003	0.753±0.002	0.763±0.006	0.816±0.002
D5: *E. coli* network inference	0.731±0.005	0.742±0.004	0.582±0.005	0.586±0.007	0.669±0.010
D5: *S. cerevisiae* network inference	0.544±0.005	0.563±0.005	0.507±0.005	0.517±0.004	0.539±0.007
D8: NIEHS-NCATS-UNC Toxicogenetics	0.904±0.002	0.905±0.001	0.904±0.002	0.903±0.002	0.904±0.001
D8: HPN Network Inference SC1B	0.736±0.021	0.793±0.023	0.478±0.023	0.535±0.034	0.702±0.021
D9.5: Prostate cancer prediction	0.643±0.022	0.687±0.017	0.685±0.035	0.665±0.032	0.559±0.040