

NetPRS: SNP interaction aware network-based polygenic risk score for Alzheimer's disease

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SUPPLEMENTARY MATERIAL

TABLE S1

RESULTS FOR PERFORMANCE COMPARISON ON ADNI DATASET

Method	Level 1	Level 2	Level 3
wPRS	0.5439	0.5766	0.6391
PRSice2	0.5993	0.6381	0.6833
EBPRS	0.6036	0.6352	0.6946
ERS	0.6441	0.7260	0.6152
PRSi	0.6526	0.7364	0.6282
hiPRS	0.6594	0.7372	0.6323
NetPRS	0.7319	0.7561	0.7281

TABLE S3

RESULTS FOR ABLATION STUDY ON ADNI DATASET

Model	Level 1	Level 2	Level 3
I	0.6928	0.7162	0.7070
P	0.7194	0.7373	0.7158
G	0.7212	0.7325	0.7085
I + P	0.7293	0.7438	0.7184
I + G	0.7301	0.7394	0.7139
P + G	0.7299	0.7460	0.7204
NetPRS	0.7319	0.7561	0.7281

TABLE S2

RESULTS FOR PERFORMANCE COMPARISON ON BICWALZS DATASET

Method	Level 1	Level 2	Level 3
wPRS	0.5018	0.5235	0.6040
PRSice2	0.5271	0.5395	0.6282
EBPRS	0.5451	0.5546	0.6354
ERS	0.6262	0.6830	0.6137
PRSi	0.6432	0.6904	0.6280
hiPRS	0.6418	0.7079	0.6337
NetPRS	0.7084	0.7342	0.7045

TABLE S4

RESULTS FOR ABLATION STUDY ON BICWALZS DATASET

Method	Level 1	Level 2	Level 3
I	0.6706	0.6955	0.6841
P	0.6962	0.7160	0.6925
G	0.6980	0.7113	0.6855
I + P	0.7058	0.7223	0.6951
I + G	0.7066	0.7180	0.6908
P + G	0.7064	0.7244	0.6970
NetPRS	0.7084	0.7342	0.7045