



**D**

Method	SCZ	BPD	ASD	AVG (SCZ+BPD+ASD)	GEN	ETH	AGE
LR-gen	54.6% ( 0.5%)	56.7% ( 2.5%)	50.0% ( 0.0%)	53.8% ( 1.0%)	50.0%	99.0%	61.9%
LR-trans	63.0% ( 4.8%)	63.3% ( 6.3%)	51.7% ( 1.8%)	59.3% ( 4.3%)	69.7%	86.0%	81.2%
cRBM	67.1% (16.0%)	65.6% ( 7.6%)	56.7% ( 3.8%)	63.1% ( 9.1%)	67.4%	85.7%	81.5%
DSPN-Input	56.4% ( 1.2%)	61.7% ( 5.4%)	62.5% ( 2.6%)	60.2% ( 3.1%)			
DSPN	67.9% (16.3%)	66.1% (30.0%)	68.3% (14.4%)	67.4% (20.2%)	69.7%	92.7%	83.9%

Unbracketed figures show test-set performance accuracy, with chance at 50%; bracketed figures show variance explained on liability scale

Colors: genotype predictors, increasing model complexity

transcriptome predictors, increasing model complexity

constant model complexity, genotype->transcriptome predictors increasing complexity, genotype->transcriptome predictors