

Accuracy	F1	Model	Dataset
0,59	0,53	Default algorithm	Small BP
0,67	0,62	Pre-trained CAE	Small BP
0,51	0,44	Default algorithm	Small BP
0,56	0,55	Pre-trained CAE	Small BP
0,61	0,57	Default algorithm	Small BP
0,70	0,69	Pre-trained CAE	Small BP
0,56	0,39	Default algorithm	Small BP
0,66	0,58	Pre-trained CAE	Small BP
0,57	0,59	Default algorithm	Small BP
0,63	0,65	Pre-trained CAE	Small BP
0,68	0,66	Default algorithm	BP
0,76	0,72	Pre-trained CAE	BP
0,65	0,66	Default algorithm	BP
0,69	0,71	Pre-trained CAE	BP
0,66	0,61	Default algorithm	BP
0,77	0,77	Pre-trained CAE	BP
0,71	0,65	Default algorithm	BP
0,81	0,81	Pre-trained CAE	BP
0,67	0,66	Default algorithm	BP
0,68	0,67	Pre-trained CAE	BP

Supplementary Table S6 - Classification performance (Accuracy and F1-score) of models trained on Small BrainPedia and BrainPedia test dataset in a 5-fold cross-validation scheme.