

Supplementary table 2.1 (network structure):

Optimizer = Adam, learning rate = 0.001

Normalizer
Dense (256), elu activation, 0.001 regularisation
Dropout (0.4)
Dense (256), elu activation, 0.001 regularisation
Dropout (0.4)
Dense (128), elu activation, 0.001 regularisation
Dropout (0.4)
Dense (128), elu activation, 0.001 regularisation
Dropout (0.4)
Dense (1)

Supplementary table 2.2 (network results):

GSE87571 human blood sliding window dataset

loss	mean_absolute_error	mean_absolute_percentage_error	mean_squared_error	mean_squared_logarithmic_error	
	3.278847	2.49334	5.781902	14.78427	0.007394
	2.910811	2.146641	4.316648	9.887054	0.002963
	2.789407	2.030376	4.284602	7.567978	0.002919
	3.96432	3.213025	9.093208	25.352938	0.022354
	3.265279	2.485748	4.974205	12.412249	0.004005
	3.054671	2.323184	6.811276	22.292887	0.018142
	3.49524	2.72506	5.633029	13.04577	0.004682
	3.123314	2.383826	5.058978	13.843047	0.006119
	2.879027	2.099964	4.697271	7.068963	0.003028
	2.801393	2.052816	5.083001	7.088758	0.004939

GSE41826 human brain sliding window dataset

loss	mean_absolute_error	mean_absolute_percentage_error	mean_squared_error	mean_squared_logarithmic_error	
	6.499018	5.538018	13.792947	56.430656	0.026553
	4.526168	3.565236	9.850774	22.084307	0.013651
	4.742898	3.774138	11.075229	26.10886	0.018946
	4.930711	3.980876	11.641271	27.958364	0.020088
	4.528511	3.575025	10.189425	19.763241	0.014108
	4.905636	3.943056	11.787901	22.967678	0.018282
	4.244316	3.281458	8.75231	19.262445	0.01164
	7.277723	6.318108	16.905029	77.715202	0.044579
	5.968963	5.008518	13.219999	48.412685	0.025884
	6.409532	5.46239	11.937749	52.96394	0.01888

GSE87571 human blood ranked dataset

loss	mean_absolute_error	mean_absolute_percentage_error	mean_squared_error	mean_squared_logarithmic_error	
	2.806146	1.990457	4.464902	8.621114	0.003668
	3.777213	2.985807	6.346775	19.10166	0.008602
	3.022134	2.228419	5.82268	7.766428	0.005536
	3.797386	3.012566	8.278977	31.108824	0.022955
	4.463407	3.692132	7.345172	34.811459	0.010868
	3.233589	2.428051	5.272555	11.317239	0.00451
	3.7384	2.932013	6.420062	16.755358	0.009854
	3.985407	3.194638	7.950692	20.701326	0.014227
	3.456521	2.651514	5.858628	13.930508	0.006335
	3.421491	2.635275	6.420143	12.805676	0.006371

GSE41826 human brain ranked dataset

loss	mean_absolute_error	mean_absolute_percentage_error	mean_squared_error	mean_squared_logarithmic_error	
	7.058796	6.092673	14.992749	58.813419	0.032072
	5.162893	4.194484	11.599635	29.919556	0.020083
	4.402566	3.438444	10.672811	16.382401	0.015853
	5.440671	4.477244	13.087822	26.685974	0.021866
	4.407511	3.451558	9.466867	18.307917	0.013008
	4.019556	3.062629	9.440925	13.215676	0.010728
	6.586806	5.624051	14.127192	47.741512	0.025925
	5.140876	4.190904	10.513003	28.663975	0.013623
	6.985198	6.026913	14.87104	83.877747	0.034321
	6.700014	5.747361	13.423739	73.267311	0.027034