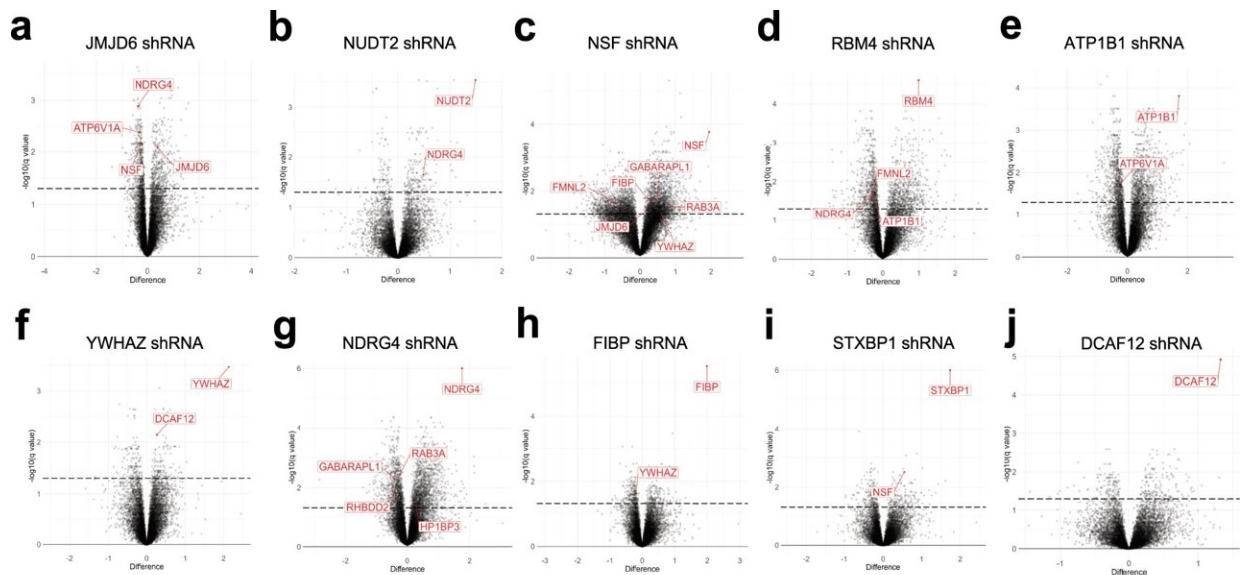


# Scientists use AI to identify likely drug targets in search for Alzheimer's cure

May 16 2023, by Anna C. Christensen

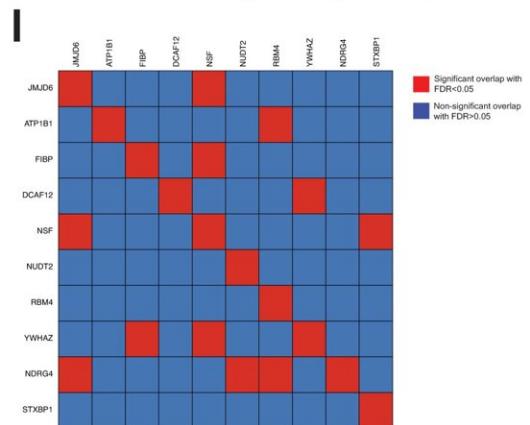


• Prioritized gene with q-value < 0.05

**k**

	NUDT2	YWHAZ	ATP1B1	NSF	DCAF12	FIBP	JMJD6	STXBP1
MAYO-Neuron-BayesNet-Seed-1	2.37e-02	1.42e-03	2.53e-02	1.98e-02			3.02e-02	
MAYO-Neuron-BayesNet-Seed-2		8.99e-04			2.12e-02			
MAYO-Neuron-PredNet-Expanded-1	2.55e-02		3.09e-02				3.97e-02	4.46e-02
MAYO-Neuron-PredNet-Expanded-2	2.28e-02	6.82e-03				4.21e-02	7.09e-03	4.53e-02
MAYO-Neuron-PredNet-Expanded-3					4.55e-02	1.76e-02		4.56e-02
MAYO-Neuron-PredNet-Seed-1	4.16e-02	1.42e-03	4.10e-02	4.19e-02				
MAYO-Neuron-PredNet-Seed-2		8.99e-04			2.12e-02			
ROSMAP-Neuron-BayesNet-Seed-1			1.95e-03	8.19e-03				
ROSMAP-Neuron-BayesNet-Seed-2		4.19e-02	3.39e-02	1.18e-02				
ROSMAP-Neuron-PredNet-Expanded-1	3.46e-02			1.54e-02		1.06e-02		
ROSMAP-Neuron-PredNet-Expanded-2	3.46e-02	1.40e-02						

**p-value**  

Gene expression changes following knockdown of the 10 validated targets in human iPSC-derived neurons. a–j RNAseq analysis showing significantly up- and down-regulated DE genes after shRNA-mediated knockdown of each of the

10 validated targets. Significance was assessed using the two-stage linear step-up procedure of Benjamini, Krieger, and Yekutieli with q-value

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