Table 10. Candidate genes in our dataset encoding for targets of existing pharmacological agents

Accession Number	Symbol – Description	Brain Region (Drug-Category) Fold Change	No. of lines of evidence	Family	Drug
U60150	VAMP2 - vesicle-associated membrane protein 2 (synaptobrevin 2)	**AMY** (VPA-III) 0.71/ 0.5 **CP** (VPA-IV) 1.74/ 6.06	4/6		botulism toxin
J04192	CHRM1 - cholinergic receptor, muscarinic 1	**CP** (VPA-IV) 1.52/ 3.03	3/6	Ion channel	ipratropium, olanzapine, tolterodine
AJ238309	DAT1 – (SLC6A3) - solute carrier family 6 (neurotransmitter transporter, dopamine), member 3	**VT** (METH-IV) 1.41/ 1.74	3/6	transporter	amphetamine, modafinil, sibutramine, venlafaxine
U32329	EDNRB - endothelin receptor type B	**CP** (METH-III) 1.52/ 1.41	2/6	G-protein coupled receptor	bosentan
U14420	GABRB3 - gamma-aminobutyric acid (GABA) A receptor, beta 3	**CP** (VPA-IV) 1.41/ 14.9	2/6	Ion channel	lorazepam, olanzapine, sevoflurane, zaleplon, zolpidem
M62374	GABRG2 - gamma-aminobutyric acid (GABA) A receptor, gamma 2	**CP** (VPA-IV) 1.23/ 1.52	2/6	Ion channel	lorazepam, olanzapine, sevoflurane, zaleplon, zolpidem
M63685	5HTR2C - 5-hydroxytryptamine (serotonin) receptor 2C	**CP** (METH-IV) 1.23/ 10.56	2/6	G-protein coupled receptor	mirtazapine, nefazodone, olanzapine, quetiapine, risperidone, ziprasidone

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Paragraph A - Descriptions of Ingenuity Pathways Analysis
"This data is generated through the use of Ingenuity Pathways Analysis, a web-delivered application that enables biologists to discover, visualize and explore therapeutically relevant networks significant to their experimental results, such as gene expression array data sets. For a detailed description of Ingenuity Pathways Analysis, visit www.Ingenuity.com."