

Table S4. Salivary proteins from Table 2 that overlap with proteins that are modulated in brain tissues by drugs of abuse (adapted from Wang et al. 2011)¹

UniProt	Protein name	Gene symbol	Drugs	Brain tissues (ref)
Q13509	Tubulin, beta 3 class III	TUBB3	Marijuana/ Morphine	Rat hippocampus ² /rat primary striatal neuronal cell cultures ³
O75083	WD repeat domain 1	WDR1	Morphine	Rat cerebral cortex, hippocampus, and striatum ⁴
Q96ML2	Vimentin	VIM	Morphine	African Green Monkey CSF ⁵
P15104	Glutamate-ammonia ligase	GLUL	MA/Cocaine/ Morphine	Rat amygdala ⁶ /rhesus monkey nucleus accumbens ⁷ /mouse hippocampus ⁸
P26641	Eukaryotic translation elongation factor 1 gamma	EEF1G	MA/Cocaine	Rat cortex ⁹ /human astrocyte cultures ¹⁰
P02042	Hemoglobin, delta	HBD	Morphine	African Green Monkey CSF ⁵
P29401	Transketolase	TKT	Cocaine/Morphine/ Nicotine	Rat nucleus accumbens ¹¹ /rat brains ¹² /rat brains ¹³
P08238	Heat shock protein 90kDa alpha (cytosolic), class B member 1	HSP90AB1	MA/Morphine	Rat cortex ⁹ /rat primary striatal neuronal cell cultures ³
Q549N7	Hemoglobin subunit beta	HBB	Morphine	African Green Monkey CSF ⁵

Abbreviations: MA = methamphetamine/amphetamine, CSF = cerebrospinal fluid

1. Wang, J., Yuan, W. & Li, M.D. Genes and pathways co-associated with the exposure to multiple drugs of abuse, including alcohol, amphetamine/methamphetamine, cocaine, marijuana, morphine, and/or nicotine: a review of proteomics analyses. *Molecular neurobiology* **44**, 269-286 (2011).
2. Quinn, H.R., et al. Adolescent rats find repeated Delta(9)-THC less aversive than adult rats but display greater residual cognitive deficits and changes in hippocampal protein expression following exposure. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology* **33**, 1113-1126 (2008).
3. Bodzon-Kulakowska, A., et al. Proteomic analysis of striatal neuronal cell cultures after morphine administration. *Journal of separation science* **32**, 1200-1210 (2009).
4. Bierzynska-Krzysik, A., et al. Proteomic analysis of rat cerebral cortex, hippocampus and striatum after exposure to morphine. *International journal of molecular medicine* **18**, 775-784 (2006).
5. Brown, J.N., et al. Morphine produces immunosuppressive effects in nonhuman primates at the proteomic and cellular levels. *Molecular & cellular proteomics : MCP* **11**, 605-618 (2012).
6. Iwazaki, T., McGregor, I.S. & Matsumoto, I. Protein expression profile in the amygdala of rats with methamphetamine-induced behavioral sensitization. *Neuroscience letters* **435**, 113-119 (2008).

7. Tannu, N.S., Howell, L.L. & Hemby, S.E. Integrative proteomic analysis of the nucleus accumbens in rhesus monkeys following cocaine self-administration. *Molecular psychiatry* **15**, 185-203 (2010).
8. Moron, J.A., *et al.* Morphine administration alters the profile of hippocampal postsynaptic density-associated proteins: a proteomics study focusing on endocytic proteins. *Molecular & cellular proteomics : MCP* **6**, 29-42 (2007).
9. Kobeissy, F.H., *et al.* Psychoproteomic analysis of rat cortex following acute methamphetamine exposure. *Journal of proteome research* **7**, 1971-1983 (2008).
10. Reynolds, J.L., *et al.* Proteomic analysis of the effects of cocaine on the enhancement of HIV-1 replication in normal human astrocytes (NHA). *Brain research* **1123**, 226-236 (2006).
11. del Castillo, C., *et al.* Proteomic analysis of the nucleus accumbens of rats with different vulnerability to cocaine addiction. *Neuropharmacology* **57**, 41-48 (2009).
12. Kim, S.Y., *et al.* Proteomic analysis of phosphotyrosyl proteins in morphine-dependent rat brains. *Brain research. Molecular brain research* **133**, 58-70 (2005).
13. Hwang, Y.Y. & Li, M.D. Proteins differentially expressed in response to nicotine in five rat brain regions: identification using a 2-DE/MS-based proteomics approach. *Proteomics* **6**, 3138-3153 (2006).