

## Supplementary Material

Studies included in data analyses

### Pre-natal exposure

#### Cocaine

Roussotte F, et al.	J Neurodev Disord	2012
Rando K, et al.	Biol Psychiatry	2013
Yip SW, et al.	Neuropsychopharmacology	2014
Liu J, et al.	JAMA Pediatr	2013
Sheinkopf SJ, et al.	Dev Neurosci	2009
Hurt H, et al.	J Pediatr	2008
Avants BB, et al.	Pediatr Neurol	2007

#### Nicotine

Longo CA, et al.	Drug and Alcohol Dependence	2014
Holz E, et al.	JAMA PsychiatrN	2014
Muller KU, et al.	JAMA Psychiatry	2013
Longo CA, et al.	Neurotoxicol Teratol	2013
Bennett DS, et al.	Neurotoxicol Teratol	2009
Bennett DS, et al.	Brain Imaging Behav	2013
El Marroun H, et al.	Neuropsychopharmacology	2014
Gautam P, et al.	Dev Cogn Neurosci	2015
Toro R, et al.	Neuropsychopharmacology	2008

#### Cannabis

El Marroun H, et al.	Biol Psychiatry	2016
Smith AM, et al.	Neurotoxicol Teratol	2004
Smith AM, et al.	Neurotoxicol Teratol	2006

#### Opioids

Walhovd KB, et al.	Neuroimage	2007
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#### Alcohol

Astley SJ, et al.	Alcohol Clin Exp Res	2009
Astley SJ, et al.	J Neurodev Disord	2009
Bjorkquist OA, et al.	Psychiatry Res	2010
Eckstrand KL, et al.	Alcohol Clin Exp Res	2012
Fryer SL, et al.	Alcohol Clin Exp Res	2007
Infante MA, et al.	Brain Res	2015
Lebel C, et al.	Alcohol Clin Exp Res	2008
Rajaprakash M, et al.	Brain Behav	2014
Sowell ER, et al.	Cereb Cortex	2008
Treit S, et al.	Hum Brain Mapp	2014
Willford J, et al.	Neurotoxicol Teratol	2010
Yang Y, et al.	Cereb Cortex	2012
Zhou D, et al.	Neuroimage	2011

## Adolescent/adult exposure

### Cocaine

Alia-Klein N, et al.	Arch Gen Psychiatry	2011
Barros-Loscertales A, et al.	Psychiatry Res	2011
Barros-Loscertales A, et al.	Neuroimage	2011
Bustamante JC, et al.	Brain Res	2011
Ide JS, et al.	Drug Alcohol Depend	2014
Kelly C, et al.	Biol Psychiatry	2011
Kufahl PR, et al.	Neuroimage	2005
Makris N, et al.	Neuron	2004
Makris N, et al.	Biol Psychiatry	2008
Matochik JA, et al.	Neuroimage	2003
Moreno-Lopez L, et al.	Drug Alcohol Depend	2012
Parvaz MA, et al.	Addict Biol	2016
Rando K, et al.	Addict Biol	2013
Sim ME, et al.	Neuropsychopharmacology	2007
Tanabe J, et al.	AJNR Am J Neuroradiol	2013
Xu J, et al.	Drug Alcohol Depend	2014

### Nicotine

Brody AL, et al.	Biol Psychiatry	2004
Das D, et al.	Addict Biol	2012
Durazzo TC, et al.	Int J Environ Res Public Health	2015
Fritz HC, et al.	Neuropsychopharmacology	2014
Gallinat J, et al.	Eur J Neurosci	2006
Huang W, et al.	PLoS One	2013
Hudkins M, et al.	Psychopharmacology (Berl)	2012
Li Y, et al.	Drug Alcohol Depend	2015
Liao Y, et al.	Addict Biol	2012
Wang K, et al.	PLoS One	2014
Zhang X, et al.	Neuroimage	2011

### Cannabis

Ashtari M, et al.	J Psychiatr Res	2011
Battistella G, et al.	Neuropsychopharmacology	2014
Churchwell JC, et al.	Front Psychol	2010
Demirakca T, et al.	Drug Alcohol Depend	2011
Epstein KA and S Kumra	Schizophr Res	2015
Filbey FM, et al.	Dev Cogn Neurosci	2015
Lopez-Larson MP, et al.	Behav Brain Res	2011
Mashhoon Y, et al.	Drug Alcohol Depend	2015
Schacht JP, et al.	Neuropsychopharmacology	2012
Sneider JT, et al.	Exp Clin Psychopharmacol	2006
Sneider JT, et al.	Eur Neuropsychopharmacol	2008
Yucel M, et al.	Arch Gen Psychiatry	2008

### Opioids

Li M, et al.	Neuroimage	2014
Liu H, et al.	Psychiatry Clin Neurosci	2009
Liu H, et al.	Am J Drug Alcohol Abuse	2008
Lyoo IK, et al.	Psychopharmacology (Berl)	2006
Qiu YW, et al.	Radiology	2011
Qiu YW, et al.	Neurosci Lett	2013
Seifert CL, et al.	Eur Arch Psychiatry Clin Neurosci	2015
Wang X, et al.	Drug Alcohol Depend	2012
Yuan Y, et al.	Brain Cogn	2009

### Alcohol

Beresford TP, et al.	Alcohol Clin Exp Res	2006
Chanraud S, et al.	Neuropsychopharmacology	2007
De Bellis MD, et al.	Am J Psychiatry	2000

Doallo S, et al.	PLoS One	2014
Fein G, et al.	Psychiatry Res	2013
Grodin EN, et al.	Neuroimage Clin	2013
Harris GJ, et al.	Alcohol Clin Exp Res	2008
Howell NA, et al.	PLoS One	2013
Kvamme TL, et al.	Neuroimage Clin	2016
Luciana M, et al.	Am J Drug Alcohol Abuse	2013
Makris N, et al.	Biol Psychiatry	2008
Mechtcheriakov S, et al.	J Neurol Neurosurg Psychiatry	2007
Momenan R, et al.	Psychiatry Res	2012
Nagel BJ, et al.	Psychiatry Res	2005
Ozsoy S, et al.	Alcohol	2013
Senatorov VV, et al.	Brain	2015
Squeglia LM, et al.	Dev Cogn Neurosci	2014
Squeglia LM, et al.	Psychopharmacology (Berl)	2012
Thayer RE, et al.	Hum Brain Mapp	2016