

Curriculum Vitae Petri Hyytiä

Degree: 1993 PhD degree at the University of Helsinki

Education and positions:

- 1993 – 1994 Postdoctoral fellow at Dr. George F. Koob's group at the Department of Neuropharmacology, The Scripps Research Institute, La Jolla, USA
- 1996 - 2008 Senior Scientist, Department of Mental Health and Alcohol Research, National Public Health Institute, Helsinki, Finland
- 2008 - 2010 Senior Scientist, Department of Alcohol, Drugs and Addiction, National Institute for Health and Welfare, Helsinki
- Since 2011 University Investigator, Department of Pharmacology, Faculty of Medicine, University of Helsinki

Role in the Project:

The main research interests of the Dr. Hyytiä include elucidation of the neural systems underlying addiction-like behaviours, their pharmacological modulation, and drug-induced persistent functional and structural plasticity. As research methodology, he has employed a wide variety of animal models of drug addiction, pharmacological tools, and recently manganese-enhanced magnetic resonance imaging. Dr. Hyytiä has had a pioneering role in the development and characterization of the genetic high-alcohol drinking rat lines that have played an important role in the preclinical evaluation of novel pharmacological treatments for alcohol use disorders.

Selected publications:

- Dudek M, Canals S, Sommer WH, **Hyytiä P**. Modulation of nucleus accumbens connectivity by alcohol drinking and naltrexone in alcohol-preferring rats: A manganese-enhanced magnetic resonance imaging study. *Eur Neuropsychopharmacol.* 26:445-55, 2016
- Dudek M, Abo-Ramadan U, Hermann D, Brown M, Canals S, Sommer WH, **Hyytiä, P**. Brain activation induced by voluntary alcohol and saccharin drinking in rats assessed with manganese-enhanced magnetic resonance imaging. *Addiction Biology* Aug 22. doi: 10.1111/adb.12179, 2014
- Björk K, Rimondini R, Hansson AC, Terasmaa A, **Hyytiä P**, Heilig M, Sommer WH. Modulation of voluntary ethanol consumption by beta-arrestin 2. *FASEB J* 22:2552-60, 2008
- Hansson AC, Bermudez-Silva FJ, Malinen H, **Hyytiä P**, Sanchez-Vera I, Rimondini R, Rodriguez de Fonseca F, Kunos G, Sommer WH, Heilig M. Genetic impairment of frontocortical endocannabinoid degradation and high alcohol preference. *Neuropsychopharmacology* 32: 117-26, 2007.
- Bäckström P, Bachteler D, Koch S, **Hyytiä P**, Spanagel R. mGluR5 antagonist MPEP reduces ethanol-seeking and relapse behavior. *Neuropsychopharmacology* 29:921-28, 2004.