



# INIAstress Consortium

## Publications 2005

Adinoff B, Junghanns K, Kiefer F, Krishnan-Sarin S. Suppression of the HPA axis stress-response: implications for relapse. *Alcohol Clin Exp Res.* 2005 Jul;29(7):1351-5. PMID: 16088999, PMCID: PMC2584966.

Adinoff B, Krebaum SR, Chandler PA, Ye W, Brown MB, Williams MJ. Dissection of hypothalamic-pituitary-adrenal axis pathology in 1-month-abstinent alcohol-dependent men, part 2: response to ovine corticotropin-releasing factor and naloxone. *Alcohol Clin Exp Res.* 2005 Apr;29(4):528-37. PMID: 15834217, PMCID: PMC1906932.

Adinoff B, Krebaum SR, Chandler PA, Ye W, Brown MB, Williams MJ. Dissection of hypothalamic-pituitary-adrenal axis pathology in 1-month-abstinent alcohol-dependent men, part 1: adrenocortical and pituitary glucocorticoid responsiveness. *Alcohol Clin Exp Res.* 2005 Apr;29(4):517-27. PMID: 15834216, PMCID: PMC2584970.

Baldwin NE, Chesler EJ, Kirov S, Langston MA, Snoddy JR, Williams RW, Zhang B. Computational, integrative, and comparative methods for the elucidation of genetic coexpression networks. *J Biomed Biotechnol.* 2005 Jun 30;2005(2):172-80. PMID: 16046823, PMCID: PMC1184052.

Budygin EA, Mathews TA, Lapa GB, Jones SR. Local effects of acute ethanol on dopamine neurotransmission in the ventral striatum in C57BL/6 mice. *Eur J Pharmacol.* 2005 Oct 31;523(1-3):40-5. PMID: 16226738.

Carlborg De Koning D-J, Chesler EJ, Manly KM, Williams RW, Haley CS. Methodological aspects of the genetic dissection of gene expression. *Bioinformatics.* 2005 May 15;21(10):2383-93. PMID: 15613385.

Chen L, Cagniard B, Mathews T, Jones S, Koh HC, Ding Y, Carvey PM, Ling Z, Kang UJ, Zhuang X. Age-dependent motor deficits and dopaminergic dysfunction in DJ-1 null mice. *J Biol Chem.* 2005 Jun 3;280(22):21418-26. Epub 2005 Mar 30. PubMed PMID: 15799973.

Chesler EJ, Lu L, Shou S, Qu Y, Gu J, Wang J, Hsu HC, Mountz JD, Baldwin N, Langston MA, Threadgill DW, Manly KF, Williams RW (2005) Complex trait analysis of gene expression uncovers polygenic and pleiotropic networks that modulate nervous system function. *Nat Genet.* 2005 Mar;37(3):233-42. PMID: 15711545.

de Haan G, Williams RW. A genetic and genomic approach to identify longevity genes in mice. *Mech Ageing Dev.* 2005 Jan;126(1):133-8. Review. PubMed PMID: 15610771.

Egli RE, Kash T, Choo K, Matthews RT, Savchenko, V, Blakely R and Winder, DG. Norepinephrine modulates glutamatergic transmission in the bed nucleus of the stria terminalis. *Neuropsychopharmacology.* 2005 Apr;30(4):657-68. PMID: 15602500.

Follesa P, Mostallino MC, Biggio F, Gorini G, Caria S, Busonero F, Murru L, Mura ML, Sanna E, Biggio G. Distinct patterns of expression and regulation of GABA receptors containing the delta subunit in cerebellar granule and hippocampal neurons. *2005 J Neurochem.* Aug;94(3):659-71. PMID: 16000147.

Follesa P, Biggio F, Talani G, Murru L, Serra M, Sanna E, Biggio G. Neurosteroids, GABA(A) receptors, and ethanol dependence. *Psychopharmacology (Berl).* 2006 Jun;186(3):267-80. PMID: 16163526.

Grueter BA and Winder DG (2005) Group II and III metabotropic glutamate receptors suppress excitatory synaptic transmission in the anterolateral bed nucleus of the stria terminalis. *Neuropsychopharmacology*. 2005 Jul;30(7):1302-11. PMID: 15812571.

John CE and Jones SR (2005) Fast scan cyclic voltammetry of dopamine and serotonin in mouse brain slices, in: *Methods and New Frontiers in Neuroscience Series: Electrochemical Methods in Neuroscience* AC Michael and LM Borland, Eds., CRC Press LLC, Boca Raton, FL

Johnson DK, Rinchik EM, Moustaid-Moussa N, Miller DR, Williams RW, Michaud EJ, Jablonski MM, Elberger A, Hamre K, Smeyne R, Chesler EJ, Goldowitz D. Phenotype screening for genetically determined age-onset disorders and increased longevity in ENU-mutagenized mice. *Age*. 2005 27:75-90.

Kerns RT, Ravindranathan A, Hassan S, Cage MP, York T, Williams RW, Miles MF. Ethanol-responsive brain region expression networks: implications for behavioral responses to acute ethanol in DBA/2J versus C57BL/6J mice. *J Neurosci*. 2005 Mar 2;25(9):2255-66. PMID: 15745951; PubMed Central PMCID: PMC6726093.

Kirov SA, Peng X, Baker E, Schmoyer D, Zhang B, Snoddy J. GeneKeyDB: a lightweight, gene-centric, relational database to support data mining environments. *BMC Bioinformatics*. 2005 Mar 24;6:72. PMID: 15790402, PMCID: PMC1274265.

Kohen R, Kirov S, Navaja GP, Happe HK, Hamblin MW, Snoddy JR, Neumaier JF, Petty F. Gene expression profiling in the hippocampus of learned helpless and nonhelpless rats. *Pharmacogenomics J*. 2005;5(5):278-91. PMID: 16010284.

Lapa GB, Byrd GD, Lapa AA, Budygin EA, Childers SR, Jones SR, Harp JJ. The synthesis and biological evaluation of dopamine transporter inhibiting activity of substituted diphenylmethoxypiperidines. *Bioorg Med Chem Lett*. 2005 Nov 15;15(22):4915-8. PubMed PMID: 16165350.

Lapa GB, Mathews TA, Harp J, Budygin EA, Jones SR. Diphenylpyraline, a histamine H1 receptor antagonist, has psychostimulant properties. *Eur J Pharmacol*. 2005 Jan 4;506(3):237-40. Epub 2004 Dec 8. PubMed PMID: 15627433.

Li HQ, Lu L, Manly KF, Wang J, Zhou M, Williams RW, Cui Y. Inferring gene transcriptional modulatory relations: a genetical genomics approach. *Hum Mol Genet*. 2005 May 1;14(9):1119-25. PMID: 15772094.

Little HJ, Stephens DN, Ripley TL, Borlikova G, Duka T, Schubert M, Albrecht D, Becker HC, Lopez MF, Weiss F, Drummond C, Peoples M, Cunningham C. "Alcohol withdrawal and conditioning" *Alcohol Clin Exp Res*. 2005 Mar;29(3):453-64. PMID: 15770122.

Lopez MF and Becker HC (2005) Effect of pattern and number of chronic ethanol exposures on subsequent voluntary ethanol intake in C57BL/6J mice. *Psychopharmacology (Berl)*. 2005 Oct;181(4):688-96. PMID: 16001125.

Manly KF, Wang J, Williams RW (2005) Weighting by heritability for detection of quantitative trait loci with microarray estimates of gene expression. *Genome Biol*. 2005;6(3):R27. PMID: 15774028, PMCID: PMC1088946.

Mateo Y, Budygin EA, John CE, Banks ML and Jones SR. Voltammetric assessment of dopamine clearance in the absence of the dopamine transporter: no contribution of other transporters in core or shell of nucleus accumbens. *J Neurosci Methods*. 2004 Dec 30;140(1-2):183-7. PMID: 15589348.

Matthews DB, Bhave SV, Belknap JK, Brittingham C, Chesler EJ, Hitzemann RJ, Hoffmann PL, Lu L, McWeeney S, Miles MF, Tabakoff B, Williams RW. Complex genetics of interactions of alcohol and CNS function and behavior. *Alcohol Clin Exp Res*. 2005 Sep;29(9):1706-19. PubMed PMID: 16205371.

Porcu P, Grant KA, Green HL, Rogers LS, Morrow AL. Hypothalamic-pituitary-adrenal axis and ethanol modulation of deoxycorticosterone levels in cynomolgus monkeys. *Psychopharmacology (Berl)*. 2005 Aug 13;:1-9. PMID: 16133132.

Purdy RH, Valenzuela CF, Janak PH, Finn DA, Biggio G, Bäckström T. Neuroactive steroids and ethanol. *Alcohol Clin Exp Res*. 2005 Jul;29(7):1292-8. PubMed PMID:16088987.

Matthews DB, Bhave SV, Belknap JK, Brittingham C, Chesler EJ, Hitzemann RJ, Hoffman PL, Lu L, McWeeney S, Miles MF, Tabakoff B, Williams RW. Complex genetics of interactions of alcohol and CNS function and behavior. *Alcohol Clin Exp Res*. 2005 Sep;29(9):1706-19. PMID: 16205371.

Scott RE, White-Grindley E, Ruley HE, Chesler EJ, Williams RW. P2P-R expression is genetically coregulated with components of the translation machinery with PUM2, a translational repressor that associates with the P2P-R mRNA. *J Cell Physiol*. 2005 Jul;204(1):99-105. PMID: 15617101.

Shannon E, Porcu P, Purdy R, Grant K. Characterization of the discriminative stimulus effects of the neuroactive steroid pregnanolone in DBA/2J inbred mice. *J Pharmacol Exp Ther*. 2005 Aug;314(2):675-85. PMID: 15857945.

Sullivan EV, Sable HJ, Strother WN, Friedman DP, Davenport A, Tillman-Smith H, Kraft RA, Wyatt C, Szeliga KT, Buchheimer NC, Daunais JB, Adalsteinsson E, Pfefferbaum A, Grant KA. Neuroimaging of rodent and primate models of alcoholism: initial reports from the integrative neuroscience initiative on alcoholism. *Alcohol Clin Exp Res*. 2005 Feb;29(2):287-94. PubMed PMID: 15714052.

Tsaih, SW, Lu L, Airey DC, Williams RW, Churchill GA (2005) Quantitative trait mapping in a diallel cross of recombinant inbred lines. *Mammalian Genome* 16:344-355. PMID: 16104382.

Vazquez-Chona FR, Khan AN, Chan CK, Moore AN, Dash PK, Hernandez MR, Lu L, Chesler EJ, Manly KF, Williams RW, Geisert EE Jr. Genetic networks controlling retinal injury. *Mol Vis*. 2005 Nov 4;11:958-70. PubMed PMID: 16288200; PubMed Central PMCID: PMC2814057.

Veatch LM, Becker HC. Lorazepam and MK-801 effects on behavioral and electrographic indices of alcohol withdrawal sensitization. *Brain Res*. 2005 Dec 14;1065(1-2):92-106. PMID: 16313888.

Walker SJ, Wang Y, Chen F, Grant KA, Hellmann GM. Long versus short oligonucleotide arrays for the study of gene expression in nonhuman primates. 2005; *J Neurosci Methods*; Oct 24; . PMID: 16253343.

Weitlauf CW, Honse Y, Auberson Y, Mishina M, Lovinger DM and Winder DG. Activation of NR2A-containing NMDA receptors is not obligatory for NMDA-receptor dependent LTP. *J Neurosci*. 2005 Sep 14;25(37):8386-90. PMID: 16162920; PubMed Central PMCID: PMC6725680.

Woodward J, Ron D, Winder D, Roberto M. From blues states to upstates: ethanol regulation of NMDA receptor function. *Alcohol Clin Exp Res*. 2006 Feb;30(2):359-67. PMID: 16441285.

Zhang B, Kirov S, Snoddy J. WebGestalt: an integrated system for exploring gene sets in various biological contexts. *Nucleic Acids Res*. 2005 Jul 1;33(Web Server issue):W741-8. PMID: 15980575. PMCID: PMC1160236.

Zhang Y, Abu-Khzam FN, Baldwin NE, Chesler EJ, Langston MA, and Samatova NF. Genome-Scale Computational Approaches to Memory-Intensive Applications in Systems Biology. *Super Computing*, 2005.

Zou F, Gelfond JA, Airey DC, Lu L, Manly KF, Williams RW, Threadgill DW. Quantitative trait locus analysis using recombinant inbred intercrosses: theoretical and empirical considerations. *Genetics*. 2005 Jul;170(3):1299-311. PMID: 15879512, PMCID: PMC1451174.

