



INIAstress Consortium Publications 2011

Alberts R, Chen H, Pommerenke C, Smit AB, Spijker S, Williams RW, Geffers R, Bruder D, Schughart K. Expression QTL mapping in regulatory and helper T cells from the BXD family of strains reveals novel cell-specific genes, gene-gene interactions and candidate genes for auto-immune disease. *BMC Genomics*. 2011 Dec 19;12:610. PMID: 22182475; PMCID: PMC3277499.

Alberts R, Lu L, Williams RW, Schughart K. Genome-wide analysis of the mouse lung transcriptome reveals novel molecular gene interaction networks and cell-specific expression signatures. *Respir Res*. 2011 May 2;12:61. Erratum in: *Respir Res*. 2012;13(1):5. PMID: 21535883; PMCID: PMC3105947.

Badanich KA, Doremus-Fitzwater TL, Mulholland PJ, Randall PK, Delpire E, Becker HC. NR2B-deficient mice are more sensitive to the locomotor stimulant and depressant effects of ethanol. *Genes Brain Behav*. 2011 Oct;10(7):805-816. doi:10.1111/j.1601-183X.2011.00720.x. Epub 2011 Aug 15. PubMed PMID: 21762461; PubMed Central PMCID: PMC4160738.

Becker HC. Animal Models of Excessive Ethanol Consumption in Rodents. In: Spanagel R and Sommer WH (Eds.) *Current Topics in Behavioral Neurosciences: Behavioral Neurobiology of Alcohol Addiction*. Springer, Heidelberg, Germany, 2012.

Becker HC. Neuroadaptive Changes that Result from Chronic Drug Exposure. In: Miller P (Ed.) *Encyclopedia of Addictive Behaviors*. Elsevier, Oxford, U.K., 2012.

Becker HC, Lopez MF, Doremus-Fitzwater TL. Effects of stress on alcohol drinking: a review of animal studies. *Psychopharmacology (Berl)*. 2011 Nov;218(1):131-56. doi: 10.1007/s00213-011-2443-9. Epub 2011 Aug 18. Review. PubMed PMID: 21850445; PubMed Central PMCID: PMC3247761.

Chen G, Cuzon Carlson VC, Wang J, Beck A, Heinz A, Ron D, Lovinger DM, Buck KJ. Striatal involvement in human alcoholism and alcohol consumption, and withdrawal in animal models. *Alcohol Clin Exp Res*. 2011 Oct;35(10):1739-48. doi: 0.1111/j.1530-0277.2011.01520.x. Epub 2011 May 25. Review. PubMed PMID: 21615425; PubMed Central PMCID: PMC3276303.

Cuzon Carlson VC, Seabold GK, Helms CM, Garg N, Odagiri M, Rau AR, Daunais J, Alvarez VA, Lovinger DM, Grant KA. Synaptic and morphological neuroadaptations in the putamen associated with long-term, relapsing alcohol drinking in primates. *Neuropsychopharmacology*. 2011 Nov;36(12):2513-28. PMID: 21796110; PMCID: PMC3194078.

Di Curzio DL, Goldowitz D. The genetic basis of adrenal gland weight and structure in BXD recombinant inbred mice. *Mamm Genome*. 2011 Apr;22(3-4):209-34. PMID: 21347846.

Freeman WM, Vanguilder HD, Guidone E, Krystal JH, Grant KA, Vrana KE. Plasma proteomic alterations in non-human primates and humans after chronic alcohol self-administration. *Int J Neuropsychopharmacol*. 2011 Aug;14(7):899-911. PMID: 21303580; PMCID: PMC3107900.

Gatti DM, Lu L, Williams RW, Sun W, Wright FA, Threadgill DW, Rusyn I. MicroRNA expression in the livers of inbred mice. *Mutat Res*. 2011 Sep 1;714(1-2):126-33. doi: 10.1016/j.mrfmmm.2011.05.007. Epub 2011 May 14. PubMed PMID: 21616085; PubMed Central PMCID: PMC3166582.

Helms CM, Grant KA. The effect of age on the discriminative stimulus effects of ethanol and its GABA(A) receptor mediation in cynomolgus monkeys *Psychopharmacology (Berl)*. 2011 Aug;216(3):333-43. PMID: 21340471; PMCID: PMC3134136.

Hoffman PL, Bennett B, Saba LM, Bhave SV, Carosone-Link PJ, Hornbaker CK, Kechris KJ, Williams RW, Tabakoff B. Using the Phenogen website for 'in silico' analysis of morphine-induced analgesia: identifying candidate genes. *Addict Biol*. 2011 Jul;16(3):393-404. doi: 10.1111/j.1369-1600.2010.00254.x. Epub 2010 Nov 4. PubMed PMID: 21054686; PubMed Central PMCID: PMC3115429.

Krebs J, Römer B, Overall RW, Fabel K, Babu H, Brandt MD, Williams RW, Jessberger S, Kempermann G. Adult Hippocampal Neurogenesis and Plasticity in the Infrapyramidal Bundle of the Mossy Fiber Projection: II. Genetic Covariation and Identification of Nos1 as Linking Candidate Gene. *Front Neurosci*. 2011 Sep 21;5:106. doi: 10.3389/fnins.2011.00106. eCollection 2011. PubMed PMID: 21960957; PubMed Central PMCID: PMC3177083.

Laughlin RE, Grant TL, Williams RW, Jentsch JD. Genetic dissection of behavioral flexibility: reversal learning in mice. *Biol Psychiatry*. 2011 Jun 1;69(11):1109-16. PMID: 21392734; PMCID: PMC3090526.

Lebold KM, Grant KA, Freeman WM, Wiren KM, Miller GW, Kiley C, Leonard SW, Traber MG. Individual differences in hyperlipidemia and vitamin E status in response to chronic alcohol self-administration in cynomolgus monkeys. *Clin Exp Res*. 2011 Mar;35(3):474-83. PMID: 21118275; PMCID:PMC3116096.

Lopez MF, Doremus-Fitzwater TL, and Becker HC. Chronic social isolation and chronic variable stress during early development induce later elevated ethanol intake in adult C57BL/6J mice. *Alcohol* 45:355-364, 2011. PMID: 20880662 PMCID: PMC3013234.

Lopez MF, Grahame NJ, Becker HC. Development of ethanol withdrawal-related sensitization and relapse drinking in mice selected for high- or low-ethanol preference. *Alcohol Clin Exp Res*. 2011 May;35(5):953-62. PMID: 21314693; PMCID: PMC3083457.

Lu H, Li L, Watson ER, Williams RW, Geisert EE, Jablonski MM, Lu L. Complex interactions of Tyrp1 in the eye. *Mol Vis*. 2011;17:2455-68. PMID: 21976956; PMCID: PMC3185026.

Lu H, Wang X, Pullen M, Guan H, Chen H, Sahu S, Zhang B, Chen H, Williams RW, Geisert EE, Lu L, Jablonski MM. Genetic dissection of the Gpnmb network in the eye. *Invest Ophthalmol Vis Sci*. 2011 Jun 13;52(7):4132-42. PMID: 21398278; PMCID: PMC3175941.

McLachlan SM, Aliesky HA, Chen CR, Williams RW, Rapoport B. Exceptional hyperthyroidism and a role for both major histocompatibility class I and class II genes in a murine model of Graves' disease. *PLoS One*. 2011;6(6):e21378. doi: 10.1371/journal.pone.0021378. Epub 2011 Jun 27. PubMed PMID: 21738647; PubMed Central PMCID: PMC3124500.

Mittleman G, Call SB, Cockroft JL, Goldowitz D, Matthews DB, Blaha CD. Dopamine dynamics associated with, and resulting from, schedule-induced alcohol self-administration: analyses in dopamine transporter knockout mice. *Alcohol*. 2011 Jun;45(4):325-39. PMID: 21354763; PMCID: PMC3095708.

Mulholland PJ, Becker HC, Woodward JJ, and Chandler LJ. Small conductance calcium-activated potassium type 2 channels regulate alcohol-associated plasticity of glutamatergic synapses. *Biological Psychiatry* 69:625-632, 2011. PMID: 21056409 PMCID: PMC3103782.

Mozhui K, Wang X, Chen J, Mulligan MK, Li Z, Ingles J, Chen X, Lu L, Williams RW. Genetic regulation of Nr1h1 [corrected] expression: an integrative cross-species analysis of schizophrenia candidate genes. *Transl Psychiatry*. 2011 Jul 26;1(7):e25. doi: 10.1038/tp.2011.24. Erratum in: *Transl Psychiatry*. 2011;1:e38. PMID: 22832527; PMCID: PMC3309521.

Pisu MG, Mostallino MC, Dore R, Maciocco E, Secci PP, Serra M. Effects of voluntary ethanol consumption on emotional state and stress responsiveness in socially isolated rats. *Eur Neuropsychopharmacol*. 2011 May;21(5):414-25. doi:10.1016/j.euroneuro.2010.07.006. Epub 2010 Nov 10. PubMed PMID: 21067904; PubMed Central PMCID: PMC3044778.

Poot M, Badea A, Williams RW, Kas MJ. Identifying human disease genes through cross-species gene mapping of evolutionary conserved processes. *PLoS One*. 2011 May 4;6(5):e18612. PMID: 21572526; PMCID: PMC3087714.

Porcu P, O'Buckley TK, Song SC, Harenza JL, Lu L, Wang X, Williams RW, Miles MF, Morrow AL. Genetic analysis of the neurosteroid deoxycorticosterone and its relation to alcohol phenotypes: identification of QTLs and downstream gene regulation. *PLoS One*. 2011 Apr 8;6(4):e18405. Erratum in: *PLoS One*. 2011;6(6). PMID: 21494628; PMCID: PMC3072994.

Schepis TS, Rao U, Yadav H, Adinoff B. The limbic-hypothalamic-pituitary-adrenal axis and the development of alcohol use disorders in youth. *Alcohol Clin Exp Res*. 2011 Apr;35(4):595-605. doi:10.1111/j.1530-0277.2010.01380.x. Epub 2011 Jan 11. Review. PubMed PMID: 21223300; PubMed Central PMCID: PMC3074933.

Sokoloff G, Parker CC, Lim JE, Palmer AA. Anxiety and fear in a cross of C57BL/6J and DBA/2J mice: mapping overlapping and independent QTL for related traits. *Genes Brain Behav*. 2011 Jul;10(5):604-14. doi: 10.1111/j.1601-183X.2011.00699.x. Epub 2011 May 31. PubMed PMID: 21554534; PubMed Central PMCID: PMC3756832.

Stolerman IP, Childs E, Ford MM, Grant KA. Role of training dose in drug discrimination: a review. *Behav Pharmacol*. 2011 Sep;22(5-6):415-29. PMID: 21808191; PMCID: PMC3155633.

Wang CC, Held RG, Chang SC, Yang L, Delpire E, Ghosh A, Hall BJ. A critical role for GluN2B-containing NMDA receptors in cortical development and function. *Neuron*. 2011 Dec 8;72(5):789-805. doi: 10.1016/j.neuron.2011.09.023. PubMed PMID: 22153375.

Welsh JP, Han VZ, Rossi DJ, Mohr C, Odagiri M, Daunais JB, Grant KA. Bidirectional plasticity in the primate inferior olive induced by chronic ethanol intoxication and sustained abstinence. *Proc Natl Acad Sci U S A*. 2011 Jun 21;108(25):10314-9. PMID:21642533; PMCID: PMC3121872.

Wolstenholme, J.T., Warner, J.A., Capparuccini, M.L., Archer, K.J., Shelton, K.L. and Miles, M.F. Genomic analysis of individual differences in ethanol drinking: Evidence for non-genetic factors in C57BL/6 mice. *PLoS One* 2011;6(6):e21100. PMID: 21698166 PMCID: PMC3116881.

Yorgason JT, España RA, Jones SR. Demon voltammetry and analysis software: analysis of cocaine-induced alterations in dopamine signaling using multiple kinetic measures. *J Neurosci Methods*. 2011 Nov 15;202(2):158-64. doi: 10.1016/j.jneumeth.2011.03.001. Epub 2011 Mar 8. PubMed PMID: 21392532; PubMed Central PMCID: PMC3149733.