

Publication outcomes reported between April 2013-2014

Journal articles

- Bazov, I., O. Kononenko, et al. (2013). "The endogenous opioid system in human alcoholics: molecular adaptations in brain areas involved in cognitive control of addiction." *Addict Biol* **18**(1): 161-169.
- Bhandage, A. K., Z. Jin, et al. (2014). "GABA-A and NMDA receptor subunit mRNA expression is altered in the caudate but not the putamen of the postmortem brains of alcoholics." *Front Cell Neurosci* **8**: 415.
- Bleasel, J. M., J. H. Hsiao, et al. (2013). "Increased expression of ABCA8 in multiple system atrophy brain is associated with changes in pathogenic proteins." *J Parkinsons Dis* **3**(3): 331-339.
- Booth Depaz, I. M., F. Toselli, et al. (2013). "Differential expression of human cytochrome P450 enzymes from the CYP3A subfamily in the brains of alcoholic subjects and drug-free controls." *Drug Metab Dispos* **41**(6): 1187-1194.
- Catts, V. S., J. Wong, et al. (2014). "Increased expression of astrocyte markers in schizophrenia: Association with neuroinflammation." *Aust N Z J Psychiatry* **48**(8): 722-734.
- Cheshire, P., K. Bertram, et al. (2014). "Influence of single nucleotide polymorphisms in COMT, MAO-A and BDNF genes on dyskinesias and levodopa use in Parkinson's disease." *Neurodegener Dis* **13**(1): 24-28.
- Coupland, K. G., G. D. Mellick, et al. (2014). "DNA methylation of the MAPT gene in Parkinson's disease cohorts and modulation by vitamin E in vitro." *Mov Disord* **29**(13): 1606-1614.
- Couttas TA, Kain N, et al (2014) Loss of the neuroprotective factor Sphingosine 1-phosphate early in Alzheimer's disease pathogenesis.*Acta Neuropathol Commun.* **2014** Jan 23;2:9
- Crews, F. T. and R. P. Vetreno (2014). "Neuroimmune basis of alcoholic brain damage." *Int Rev Neurobiol* **118**: 315-357.
- Davies, K. M., S. Bohic, et al. (2014). "Copper pathology in vulnerable brain regions in Parkinson's disease." *Neurobiol Aging* **35**(4): 858-866.
- Davies, K. M., D. J. Hare, et al. (2013). "Localization of copper and copper transporters in the human brain." *Metallomics* **5**(1): 43-51.
- Deng, C. and B. Dean (2013). "Mapping the pathophysiology of schizophrenia: interactions between multiple cellular pathways." *Front Cell Neurosci* **7**: 238.
- Dennis, C. V., P. J. Sheahan, et al. (2014). "Microglial proliferation in the brain of chronic alcoholics with hepatic encephalopathy." *Metab Brain Dis* **29**(4): 1027-1039.
- Erdozain, A. M., M. Rubio, et al. (2014). "The endocannabinoid system is altered in the post-mortem prefrontal cortex of alcoholic subjects." *Addict Biol*.
- Farris, S. P., D. Arasappan, et al. (2014). "Transcriptome organization for chronic alcohol abuse in human brain." *Mol Psychiatry*.
- Farris, S. P. and R. D. Mayfield (2014). "RNA-Seq reveals novel transcriptional reorganization in human alcoholic brain." *Int Rev Neurobiol* **116**: 275-300.
- Fernandez-Enright, F., J. L. Andrews, et al. (2014). "Novel implications of Lingo-1 and its signaling partners in schizophrenia." *Transl Psychiatry* **4**: e348.
- Fung, S. J., S. G. Fillman, et al. (2014). "Schizophrenia and bipolar disorder show both common and distinct changes in cortical interneuron markers." *Schizophr Res* **155**(1-3): 26-30.
- Geddes, A. E., X. F. Huang, et al. (2014). "GluN2B protein deficits in the left, but not the right, hippocampus in schizophrenia." *BMC Psychiatry* **14**: 274.
- Gorg, B., H. J. Bidmon, et al. (2013). "Gene expression profiling in the cerebral cortex of patients with cirrhosis with and without hepatic encephalopathy." *Hepatology* **57**(6): 2436-2447.
- Gorini, G., R. A. Harris, et al. (2014). "Proteomic approaches and identification of novel therapeutic targets for alcoholism." *Neuropsychopharmacology* **39**(1): 104-130.
- Hsiao, J. H., Y. Fu, et al. (2013). "Elevation in sphingomyelin synthase activity is associated with increases in amyloid-beta peptide generation." *PLoS One* **8**(8): e74016.
- Janeczek, P., R. K. MacKay, et al. (2014). "Reduced expression of alpha-synuclein in alcoholic brain: influence of SNCA-Rep1 genotype." *Addict Biol* **19**(3): 509-515.
- Jin, Z., A. K. Bhandage, et al. (2014). "Expression of specific ionotropic glutamate and GABA-A receptor subunits is decreased in central amygdala of alcoholics." *Front Cell Neurosci* **8**: 288.

- Jin, Z., A. K. Bhandage, et al. (2014). "Selective increases of AMPA, NMDA, and kainate receptor subunit mRNAs in the hippocampus and orbitofrontal cortex but not in prefrontal cortex of human alcoholics." *Front Cell Neurosci* **8**: 11.
- Joshi, D., J. M. Fullerton, et al. (2014). "Elevated ErbB4 mRNA is related to interneuron deficit in prefrontal cortex in schizophrenia." *J Psychiatr Res* **53**: 125-132.
- Lee, C., R. A. Harris, et al. (2013). "RNaseIII and T4 polynucleotide Kinase sequence biases and solutions during RNA-seq library construction." *Biol Direct* **8**: 16.
- Lee, C., R. D. Mayfield, et al. (2014). "Altered gamma-aminobutyric acid type B receptor subunit 1 splicing in alcoholics." *Biol Psychiatry* **75**(10): 765-773.
- Matosin, N. and K. A. Newell (2013). "Metabotropic glutamate receptor 5 in the pathology and treatment of schizophrenia." *Neurosci Biobehav Rev* **37**(3): 256-268.
- Mills JD, Kavanagh T, et al (2013) Unique transcriptome patterns of the white and grey matter corroborate structural and functional heterogeneity in the human frontal lobe. *PloS one* 2013; **8**(10): e78480
- Muratore, C. R., N. W. Hodgson, et al. (2013). "Age-dependent decrease and alternative splicing of methionine synthase mRNA in human cerebral cortex and an accelerated decrease in autism." *PLoS One* **8**(2): e56927.
- Murphy KE, Cottle L, Gysbers AM, Cooper AA, Halliday GM (2013) ATP13A2 (PARK9) protein levels are reduced in brain tissue of cases with Lewy bodies. *Acta neuropathologica communications* 2013; **1**(1): 11
- Newell, K. A. and N. Matosin (2014). "Rethinking metabotropic glutamate receptor 5 pathological findings in psychiatric disorders: implications for the future of novel therapeutics." *BMC Psychiatry* **14**: 23.
- Oh, D. H., D. Oh, et al. (2014). "An association between the reduced levels of SLC1A2 and GAD1 in the dorsolateral prefrontal cortex in major depressive disorder: possible involvement of an attenuated RAF/MEK/ERK signaling pathway." *J Neural Transm* **121**(7): 783-792.
- Pamphlett, R. and S. Kum Jew (2013). "Heavy metals in locus ceruleus and motor neurons in motor neuron disease." *Acta Neuropathol Commun* **1**(1): 81.
- Rahman T, Davies DS, et al (2014). Cofilin rods and aggregates occur with tau pathology and the development of Alzheimer's disease. *J Alzheimers Dis* **42**(4):1443-60.
- Ray, M. T., C. Shannon Weickert, et al. (2014). "Decreased BDNF and TrkB mRNA expression in multiple cortical areas of patients with schizophrenia and mood disorders." *Transl Psychiatry* **4**: e389.
- Reyes S, Cottam V, et al (2013) Variability in neuronal expression of dopamine receptors and transporters in the substantia nigra. *Movement disorders:official journal of the Movement Disorder Society* 2013; **28**(10): 1351-9
- Reyes S, Fu Y, et al (2013) Trophic factors differentiate dopamine neurons vulnerable to Parkinson's disease. *Neurobiology of aging* 2013; **34**(3): 873-86
- Sinclair, D., S. G. Fillman, et al. (2013). "Dysregulation of glucocorticoid receptor co-factors FKBP5, BAG1 and PTGES3 in prefrontal cortex in psychotic illness." *Sci Rep* **3**: 3539.
- Sutherland, G. T., B. Chami, et al. (2013). "Oxidative stress in Alzheimer's disease: Primary villain or physiological by-product?" *Redox Rep* **18**(4): 134-141.
- Sutherland, G. T., D. Sheedy, et al. (2014). "Using autopsy brain tissue to study alcohol-related brain damage in the genomic age." *Alcohol Clin Exp Res* **38**(1): 1-8.
- Sutherland, G. T., D. Sheedy, et al. (2014). "Comorbidities, confounders, and the white matter transcriptome in chronic alcoholism." *Alcohol Clin Exp Res* **38**(4): 994-1001.
- Uhrig, S., N. Hirth, et al. (2014). "Evidence for a Hyperdopaminergic State During Abstinence in Alcohol Dependent Humans and Rats."
- Umeda-Yano, S., R. Hashimoto, et al. (2014). "Expression analysis of the genes identified in GWAS of the postmortem brain tissues from patients with schizophrenia." *Neurosci Lett* **568**: 12-16.
- Wang J, Gouda-Vossos A, et al (2013) DNA extraction from fresh-frozen and formalin-fixed, paraffin-embedded human brain tissue. *Neuroscience bulletin* 2013; **29**(5): 649-54
- Weickert, C. S., S. J. Fung, et al. (2013). "Molecular evidence of N-methyl-D-aspartate receptor hypofunction in schizophrenia." *Mol Psychiatry* **18**(11): 1185-1192.
- Weickert, C. S., T. W. Weickert, et al. (2013). "Biomarkers in schizophrenia: a brief conceptual consideration." *Dis Markers* **35**(1): 3-9.

- Wu, W., J. A. Nicolazzo, et al. (2013). "Expression of tryptophan 2,3-dioxygenase and production of kynurenine pathway metabolites in triple transgenic mice and human Alzheimer's disease brain." *PLoS One* **8**(4): e59749.
- Xu, H., F. Wang, et al. (2014). "Sex-biased methylome and transcriptome in human prefrontal cortex." *Hum Mol Genet* **23**(5): 1260-1270.
- Zhang, H., F. Wang, et al. (2014). "Differentially co-expressed genes in postmortem prefrontal cortex of individuals with alcohol use disorders: influence on alcohol metabolism-related pathways." *Hum Genet* **133**(11): 1383-1394.

Oral presentations

- Bakalkin, G. (2013). Shift in Epigenetic Mechanisms in Human Brain: Dysregulation of the Opioid Genes in Alcoholics. *World Congress of Psychiatric Genetics*, Boston, Massachusetts, USA.
- Bakalkin, G. (2014). Brain Area-Specific Dysregulation of the Dynomorph / Kappa-Opioid Receptor System in Human Alcoholics: Implications for Pathogenesis. *37th Annual Scientific Meeting of the Research Society on Alcoholism, 17th Congress of the International Society for Biomedical Research on Alcoholism*, Bellevue, Washington.
- Chami, B. (2013). Oxidative damage in the early stages of Alzheimer's Disease. *Society for Free Radical Research Australasia*, Sydney.
- Chami, B. (2013). Oxidative damage in the early stages of Alzheimer's Disease. *Australian Society of Medical Research National Scientific Conference*, Ballarat.
- Farris, S. (2014). Defining Genetic Networks from Human Postmortem Brain Tissue. *37th Annual Scientific Meeting of the Research Society on Alcoholism, 17th Congress of the International Society for Biomedical Research on Alcoholism*, Bellevue, Washington.
- Farris, S., R. A. Harris, et al. (2014) Defining genetic networks from human postmortem brain tissue. *Research Society on Alcoholism*, Bellevue, Washington., USA.
- Goate, A. M. (2013). Functional Studies Implicate Common and Rare Variation in Nicotinic Receptors in Risk for Nicotine Dependence. *World Congress of Psychiatric Genetics*, Boston, Massachusetts.
- Hansson, A. C. (2014). Translational Studies on Mu-Opioid Receptor in Alcohol Dependence. *37th Annual Scientific Meeting of the Research Society on Alcoholism, 17th Congress of the International Society for Biomedical Research on Alcoholism*, Bellevue, Washington.
- Leshchyn'ska, I. (2013). Cell adhesion molecules' role in synaptic transmission: offering new insight into brain disorder mechanisms. *BABS Research Symposium: Improving tomorrow through science*, Sydney.
- Niedermayer, G., J. Kril, et al. (2013). Immunoglobulins in Frontotemporal Lobar Degeneration. *Australian Neuroscience Society Meeting*. Melbourne.
- Stevens C, Lewis S, and Halliday GM(2013) Variability in α - and β -synuclein in Parkinson's disease and multiple system atrophy. *Australian Neuroscience Society Meeting*, Melbourne
- Sutherland, G. T., C. V. Dennis, et al. (2014). Microglial Proliferation but not Neurogenesis in Alcohol-Related Brain Damage. *11th Annual Conference of the Society of Brain Mapping and Therapeutics*, Sydney.
- Sytnyk, V. (2013). Mechanisms of abnormal synaptic adhesion in Alzheimer's disease. *7th A+PD Symposium*, Queensland Brain Institute.
- Sytnyk, V. (2013). NCAM2-mediated synaptic adhesion in the maintenance of glutamatergic synapses. *The Hunter Meeting*, Pokolbin, NSW.
- Virachit, S., E. Werry, et al. (2014). Growth factors are altered in neurogenic regions of the Parkinson's disease brain. *Dementia, Ageing and Neurodegenerative Diseases group*, Adelaide, Australia.
- Wang G, Huang Y, et al (2013) Relationships between non-motor symptoms in Parkinson's disease, and their genetic and pathological basis. *17th international congress of Parkinson's disease and movement disorders*, Sydney
- Zhang, H. (2013). Profiling of methylomic and transcriptomic alterations in postmortem prefrontal cortex of individuals with alcohol use disorders. *The 2nd International Conference and Exhibition on Addiction Research & Therapy Las Vegas*, USA

Poster presentations

- Andrews, J. L., K. A. Newell, et al. (2014). Novel Implications of Lingo-1 Signaling in the Post-Mortem Schizophrenia Brain. Society of Biological Psychiatry's 69th Annual Meeting. New York.
- Bleasel, J. M., J. H. Hsiao, et al. (2013). Altered expression of ABCA8 in multiple system atrophy brain. International conference on alpha-synuclein in Parkinson's disease & related neurodegenerative diseases. Dubai, Unites Arab Emirates.
- Britton A, McGinley C, et al (2013) Neuronal loss and pathology in language-associated regions of logopenic variant of progressive aphasia. 12th National Conference of Emerging Researchers in Ageing, Sydney
- Dennis, C. V., P. J. Sheahan, et al. (2014). Sydney. 31st Australasian Winter Conference on Brain Research (AWCBBR). Queenstown, New Zealand
- Dennis, C. V., L. S. Suh, et al. (2014). Cell proliferation in alcohol-related brain damage. Australasian Neuroscience Society. Adelaide.
- Dennis, C. V., G. T. Sutherland, et al. Microglial proliferation in chronic alcoholics with hepatic encephalopathy and cirrhosis. Australian Society for Medical Research. Sydney.
- Garcia-Gutierrez, M. S., F. Navarrete, et al. (2013). Cannabinoid CB2 receptor gene expression alterations in the dorsolateral prefrontal cortex and nucleus accumbens of alcoholic patients III International Congress on Dual Disorders. Barcelona (Spain).
- Halliday, G. and S. Kim (2013). Evidence for lipid dystrophy in multiple system atrophy brain. XX World Congress on Parkinson's Disease and Related Disorders. Geneva, Switzerland.
- Halliday, G. and S. Kim (2013). Potential role of ABCA8 in oligodendrocyte. Australian Neuroscience Society 33rd Annual Meeting. Melbourne, Australia.
- Hirth, N., S. Uhrig, et al. (2014). Alcoholism Induced Decreased of Mu-Opioid Receptors: A Combined Human Post-Mortem and Animal Study. 37th Annual Scientific Meeting of the Research Society on Alcoholism
17th Congress of the International Society for Biomedical Research on Alcoholism. Bellevue, Washington.
- Kim S & Halliday GM (2013) Evidence for lipid dystrophy in multiple system atrophy brain. XX World Congress on Parkinson's Disease and Related Disorders, Geneva, Switzerland
- Kim S & Halliday GM (2013) Potential role of ABCA8 in oligodendrocyte. Australian Neuroscience Society Meeting, Melbourne
- Laroche, G., D. Khatri, et al. (2014). Ethanol and CB2 Cannabinoid Receptor Interaction in the Regulation of Creb Phosphorylation and Neurogenesis in Adult Brain. 37th Annual Scientific Meeting of the Research Society on Alcoholism, 17th Congress of the International Society for Biomedical Research on Alcoholism. Bellevue, Washington.
- Mills, J. D., T. Kavanagh, et al. (2013). Unique transcriptome patterns of grey and white matter corroborate structural and functional heterogeneity in the human frontal lobe. XX World Congress on Parkinson's Disease and Related Disorders. Geneva, Switzerland.
- Mills, J. D., S. Kim, et al. (2013). Differential isoform expression of the alpha- and beta-synuclein genes in multiple system atrophy brain. 34th Lorne Genome Conference. Lorne, Australia.
- Murphy, K., A. A. Cooper, et al. (2014). A subcellular organelle isolation method for frozen post-mortem human brain tissue. 2013 meeting of the Australian Neuroscience Society. Adelaide.
- Murphy, K., A. A. Cooper, et al. (2013). Decreased lysosomal autophagy rather than lysosomal degeneration associates with α -synuclein pathology in Parkinson's disease. Alpha-synuclein in Parkinson's disease and related neurodegenerative diseases: from mechanisms to therapeutic strategies. Dubai, UAE.
- Robinson, G., O. Ponomarev, et al. (2014). Investigating the Neuroimmune Effects of Chronic Ethanol Consumption: Changes in the MYD88 Dependent Pathway. 37th Annual Scientific Meeting of the Research Society on Alcoholism 17th Congress of the International Society for Biomedical Research on Alcoholism.
- Sheedy, D., T. McCrossin, et al. (2014). Clinical, Pathological and Demographic Correlations in DSM-IV Alcohol Abuse and Alcohol Dependence. 37th Annual Scientific Meeting of the Research Society on Alcoholism
17th Congress of the International Society for Biomedical Research on Alcoholism. Bellevue, Washington.

- Sutherland, G. T., C. V. Dennis, et al. (2013). Adult neurogenesis in the human subventricular zone of alcoholics with hepatic encephalopathy. 36th Annual Scientific Meeting of the Research Society on Alcoholism. Orlando, Florida.
- Uhrig, S., N. Hirth, et al. (2014). "Evidence for a Hyperdopaminergic State During Abstinence in Alcohol Dependent Humans and Rats."
- Virachit, S., E. Werry, et al. (2014). Growth factors are altered in neurogenic regions of the Parkinson's disease brain. Australian Neuroscience Society Conference. Adelaide, Australia.
- Virachit, S., E. Werry, et al. (2014). Growth factors are altered in neurogenic regions of the Parkinson's disease brain. XX World Congress on Parkinson's disease and related disorders. Geneva, Switzerland.
- Virachit, S., E. Werry, et al. (2014). Levels of growth factors are altered in the hippocampus of the Parkinson's disease brain. Brain Sciences Symposium. University of New South Wales.
- Yang, Y., C. Shepherd, et al. (2014). Hippocampal glia are affected more than neurons in the very elderly without significant neuropathologies.
- Zhou, J., Y. Huang, et al. (2013). Changes in α -synuclein phosphorylation and associated kinases in Parkinson's disease. The International Conference on α -synuclein in Parkinson's Disease & Related Neurodegenerative Diseases. Dubai, United Arab Emirates.
- Zhou, J., Y. Huang, et al. (2013). Increasing α -synuclein Ser129 phosphorylation in Parkinson's disease is associated with increasing kinase levels. The 11th International Conference On Alzheimer's & Parkinson's Disease. Florence, Italy.

Book chapters

- Sutherland GT, Sheedy D, Kril JJ. (2014) Neuropathology of alcoholism. Alcohol and the Nervous System in Handbook Clinical Neurology. edited by Edith V. Sullivan and Adolf Pfefferbaum Chapter 35 pages 603-15.