

Publications by TCIN PIs 2011-2013

Arun Bokde

1. Fischer, F. U., Scheurich, A., Wegrzyn, M., Schermuly, I., Bokde, A. L., Kloppel, S., Pouwels, P. J., Teipel, S., Yakushev, I., Fellgiebel, A., Bede, P., Bokde, A. L., Byrne, S., Elamin, M., Fagan, A. J., Hardiman, O., Byrne, S., Elamin, M., Bede, P., Shatunov, A., Walsh, C., Corr, B., Heverin, M., Jordan, N., Kenna, K., Lynch, C., McLaughlin, R. L., Iyer, P. M., O'Brien, C., Phukan, J., Wynne, B., Bokde, A. L., Bradley, D. G., Pender, N., Al-Chalabi, A., and Hardiman, O. (2012) Automated tractography of the cingulate bundle in Alzheimer's disease: a multicenter DTI study. *J Magn Reson Imaging* 36, 84-91.
2. Balsters, J. H., O'Connell, R. G., Galli, A., Nolan, H., Greco, E., Kilcullen, S. M., Bokde, A. L., Lai, R., Upton, N., and Robertson, I. H. (2013) Changes in resting connectivity with age: a simultaneous electroencephalogram and functional magnetic resonance imaging investigation, *Neurobiol Aging* 34, 2194-2207.
3. Byrne, S., Elamin, M., Bede, P., Shatunov, A., Walsh, C., Corr, B., Heverin, M., Jordan, N., Kenna, K., Lynch, C., McLaughlin, R. L., Iyer, P. M., O'Brien, C., Phukan, J., Wynne, B., Bokde, A. L., Bradley, D. G., Pender, N., Al-Chalabi, A., and Hardiman, O. (2012) Cognitive and clinical characteristics of patients with amyotrophic lateral sclerosis carrying a C9orf72 repeat expansion: a population-based cohort study, *Lancet neurology* 11, 232-240.
4. Koch, W., Teipel, S., Mueller, S., Benninghoff, J., Wagner, M., Bokde, A. L., Hampel, H., Coates, U., Reiser, M., and Meindl, T. (2012) Diagnostic power of default mode network resting state fMRI in the detection of Alzheimer's disease, *Neurobiol Aging* 33, 466-478.
5. Frodl, T., Scheuerecker, J., Schoepf, V., Linn, J., Koutsouleris, N., Bokde, A. L., Hampel, H., Moller, H. J., Bruckmann, H., Wiesmann, M., and Meisenzahl, E. (2011) Different effects of mirtazapine and venlafaxine on brain activation: an open randomized controlled fMRI study, *J Clin Psychiatry* 72, 448-457.
6. Frodl, T., Scheuerecker, J., Schoepf, V., Linn, J., Koutsouleris, N., Bokde, A. L., Hampel, H., Moller, H. J., Bruckmann, H., Wiesmann, M., Meisenzahl, E., Koch, W., Teipel, S., Mueller, S., Benninghoff, J., Wagner, M., Bokde, A. L., Hampel, H., Coates, U., Reiser, M., and Meindl, T. (2011) Different effects of mirtazapine and venlafaxine on brain activation: an open randomized controlled fMRI study. *J Clin Psychiatry* 72, 448-457.
7. Balsters, J. H., O'Connell, R. G., Martin, M. P., Galli, A., Cassidy, S. M., Kilcullen, S. M., Delmonte, S., Brennan, S., Meaney, J. F., Fagan, A. J., Bokde, A. L., Upton, N., Lai, R., Laruelle, M., Lawlor, B., and Robertson, I. H. (2011) Donepezil impairs memory in healthy older subjects: behavioural, EEG and simultaneous EEG/fMRI biomarkers, *PLoS One* 6, e24126.
8. Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., and

- Donohoe, G. (2012) The effect of the neurogranin schizophrenia risk variant rs12807809 on brain structure and function, *Twin research and human genetics : the official journal of the International Society for Twin Studies* 15, 296-303.
9. Carballedo, A., Scheuerecker, J., Meisenzahl, E., Schoepf, V., Bokde, A., Moller, H. J., Doyle, M., Wiesmann, M., and Frodl, T. (2011) Functional connectivity of emotional processing in depression, *Journal of affective disorders* 134, 272-279.
 10. Prvulovic, D., Bokde, A. L., Faltraco, F., and Hampel, H. (2011) Functional magnetic resonance imaging as a dynamic candidate biomarker for Alzheimer's disease, *Prog Neurobiol* 95, 557-569.
 12. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H., Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., and Hardiman, O. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging study of ALS motor phenotype heterogeneity and cortical focality, *J Neurol Neurosurg Psychiatry* 84, 766-773.
 13. Bartley, M., Bokde, A. L., and O'Neill, D. (2011) Mild cognitive impairment, *N Engl J Med* 365, 1357-1358; author reply 1358-1359.
 14. Bede, P., Bokde, A. L., Byrne, S., Elamin, M., McLaughlin, R. L., Kenna, K., Fagan, A. J., Pender, N., Bradley, D. G., and Hardiman, O. (2013) Multiparametric MRI study of ALS stratified for the C9orf72 genotype, *Neurology* 81, 361-369.
 15. O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, D. R., Coughlan, T., Prvulovic, D., and Hampel, H. (2011) Multiple indices of diffusion identifies white matter damage in mild cognitive impairment and Alzheimer's disease, *PLoS One* 6, e21745.
 16. Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The NOS1 variant rs6490121 is associated with variation in prefrontal function and grey matter density in healthy individuals, *NeuroImage* 60, 614-622.
 17. Kehoe, E. G., Toomey, J. M., Balsters, J. H., and Bokde, A. L. (2011) Personality modulates the effects of emotional arousal and valence on brain activation, *Soc Cogn Affect Neurosci*.
 18. Teipel, S. J., Sabri, O., Grothe, M., Barthel, H., Prvulovic, D., Buerger, K., Bokde, A. L., Ewers, M., Hoffmann, W., Hampel, H. (2013) Perspectives for multimodal neurochemical and imaging biomarkers in Alzheimer's disease. *J Alzheimers Dis* 33 Suppl 1, S329-347.
 19. Ewers, M., Walsh, C., Trojanowski, J. Q., Shaw, L. M., Petersen, R. C., Jack, C. R., Jr., Feldman, H. H., Bokde, A. L., Alexander, G. E., Scheltens, P., Vellas, B., Dubois, B., Weiner, M., Hampel, H., and North American Alzheimer's Disease Neuroimaging, I. (2012) Prediction of conversion from mild cognitive impairment to Alzheimer's disease dementia based upon biomarkers and neuropsychological test performance, *Neurobiol Aging* 33, 1203-1214 e1202.

20. Hampel, H., Prvulovic, D., Teipel, S. J., and Bokde, A. L. (2011) Recent developments of functional magnetic resonance imaging research for drug development in Alzheimer's disease, *Prog Neurobiol* 95, 570-578.
21. Hampel, H., Prvulovic, D., Teipel, S. J., Bokde, A. L., Carballedo, A., Scheuerecker, J., Meisenzahl, E., Schoepf, V., Bokde, A., Moller, H. J., Doyle, M., Wiesmann, M., Frodl, T., O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, D. R., Coughlan, T., Prvulovic, D., and Hampel, H. (2011) Recent developments of functional magnetic resonance imaging research for drug development in Alzheimer's disease. *Prog Neurobiol* 95, 570-578.
22. Dyrba, M., Ewers, M., Wegrzyn, M., Kilimann, I., Plant, C., Oswald, A., Meindl, T., Pievani, M., Bokde, A. L., Fellgiebel, A., Filippi, M., Hampel, H., Kloppel, S., Hauenstein, K., Kirste, T., and Teipel, S. J. (2013) Robust automated detection of microstructural white matter degeneration in Alzheimer's disease using machine learning classification of multicenter DTI data, *PLoS One* 8, e64925.
23. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R., Upton, N., and Robertson, I. H. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect, *Neurobiol Aging* 33, 2448-2461.
24. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R., Upton, N., Robertson, I. H. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect. *Neurobiol Aging* 33, 2448-2461.
25. Bede, P., Bokde, A. L., Byrne, S., Elamin, M., Fagan, A. J., and Hardiman, O. (2012) Spinal cord markers in ALS: diagnostic and biomarker considerations, *Amyotrophic lateral sclerosis : official publication of the World Federation of Neurology Research Group on Motor Neuron Diseases* 13, 407-415.
26. O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, D. R., Coughlan, T., Prvulovic, D., and Hampel, H. (2011) Using diffusion tensor imaging and mixed-effects models to investigate primary and secondary white matter degeneration in Alzheimer's disease and mild cognitive impairment, *J Alzheimers Dis* 26, 667-682.
27. Bede, P., Bokde, A. L., Byrne, S. C., Elamin, M., Walsh, R. J., and Hardiman, O. (2011) Waterskier's Hirayama syndrome, *Journal of neurology* 258, 2078-2079.

Sabina Brennan

1. Balsters, J. H., O'Connell, R. G., Martin, M. P., Galli, A., Cassidy, S. M., Kilcullen, S. M., Delmonte, S., Brennan, S., Meaney, J. F., Fagan, A. J., Bokde, A. L., Upton, N., Lai, R., Laruelle, M., Lawlor, B., and Robertson, I. H. (2011) Donepezil impairs memory in healthy older subjects: behavioural, EEG and simultaneous EEG/fMRI biomarkers, *PLoS One* 6, e24126.
2. McAvinue, L. P., Golemme, M., Castorina, M., Tatti, E., Pigni, F. M., Salomone, S., Brennan, S., and Robertson, I. H. (2013) An evaluation of a working memory training scheme in older adults, *Frontiers in aging neuroscience* 5, 20.

3. Downer, E. J., Jones, R. S., McDonald, C. L., Greco, E., Brennan, S., Connor, T. J., Robertson, I. H., and Lynch, M. A. (2013) Identifying early inflammatory changes in monocyte-derived macrophages from a population with IQ-discrepant episodic memory, *PLoS One* 8, e63194.
4. Anney, R., Klei, L., Pinto, D., Almeida, J., Bacchelli, E., Baird, G., Bolshakova, N., Bolte, S., Bolton, P. F., Bourgeron, T., Brennan, S., Brian, J., Casey, J., Conroy, J., Correia, C., Corsello, C., Crawford, E. L., de Jonge, M., Delorme, R., Duketis, E., Duque, F., Estes, A., Farrar, P., Fernandez, B. A., Folstein, S. E., Fombonne, E., Gilbert, J., Gillberg, C., Glessner, J. T., Green, A., Green, J., Guter, S. J., Heron, E. A., Holt, R., Howe, J. L., Hughes, G., Hus, V., Iglizzi, R., Jacob, S., Kenny, G. P., Kim, C., Kolevzon, A., Kustanovich, V., Lajonchere, C. M., Lamb, J. A., Law-Smith, M., Leboyer, M., Le Couteur, A., Leventhal, B. L., Liu, X. Q., Lombard, F., Lord, C., Lotspeich, L., Lund, S. C., Magalhaes, T. R., Mantoulan, C., McDougle, C. J., Melhem, N. M., Merikangas, A., Minshew, N. J., Mirza, G. K., Munson, J., Noakes, C., Nygren, G., Papanikolaou, K., Pagnamenta, A. T., Parrini, B., Paton, T., Pickles, A., Posey, D. J., Poustka, F., Ragoussis, J., Regan, R., Roberts, W., Roeder, K., Roge, B., Rutter, M. L., Schlitt, S., Shah, N., Sheffield, V. C., Soorya, L., Sousa, I., Stoppioni, V., Sykes, N., Tancredi, R., Thompson, A. P., Thomson, S., Tryfon, A., Tsiantis, J., Van Engeland, H., Vincent, J. B., Volkmar, F., Vorstman, J. A., Wallace, S., Wing, K., Wittmeyer, K., Wood, S., Zurawiecki, D., Zwaigenbaum, L., Bailey, A. J., Battaglia, A., Cantor, R. M., Coon, H., Cuccaro, M. L., Dawson, G., Ennis, S., Freitag, C. M., Geschwind, D. H., Haines, J. L., Klauck, S. M., McMahon, W. M., Maestrini, E., Miller, J., Monaco, A. P., Nelson, S. F., Nurnberger, J. I., Jr., Oliveira, G., Parr, J. R., Pericak-Vance, M. A., Piven, J., Schellenberg, G. D., Scherer, S. W., Vicente, A. M., Wassink, T. H., Wijsman, E. M., Betancur, C., Buxbaum, J. D., Cook, E. H., Gallagher, L., Gill, M., Hallmayer, J., Paterson, A. D., Sutcliffe, J. S., Szatmari, P., Vieland, V. J., Hakonarson, H., and Devlin, B. (2012) Individual common variants exert weak effects on the risk for autism spectrum disorders, *Human molecular genetics* 21, 4781-4792.
5. Casey, J. P., Magalhaes, T., Conroy, J. M., Regan, R., Shah, N., Anney, R., Shields, D. C., Abrahams, B. S., Almeida, J., Bacchelli, E., Bailey, A. J., Baird, G., Battaglia, A., Berney, T., Bolshakova, N., Bolton, P. F., Bourgeron, T., Brennan, S., Cali, P., Correia, C., Corsello, C., Coutanche, M., Dawson, G., de Jonge, M., Delorme, R., Duketis, E., Duque, F., Estes, A., Farrar, P., Fernandez, B. A., Folstein, S. E., Foley, S., Fombonne, E., Freitag, C. M., Gilbert, J., Gillberg, C., Glessner, J. T., Green, J., Guter, S. J., Hakonarson, H., Holt, R., Hughes, G., Hus, V., Iglizzi, R., Kim, C., Klauck, S. M., Kolevzon, A., Lamb, J. A., Leboyer, M., Le Couteur, A., Leventhal, B. L., Lord, C., Lund, S. C., Maestrini, E., Mantoulan, C., Marshall, C. R., McConachie, H., McDougle, C. J., McGrath, J., McMahon, W. M., Merikangas, A., Miller, J., Minopoli, F., Mirza, G. K., Munson, J., Nelson, S. F., Nygren, G., Oliveira, G., Pagnamenta, A. T., Papanikolaou, K., Parr, J. R., Parrini, B., Pickles, A., Pinto, D., Piven, J., Posey, D. J., Poustka, A., Poustka, F., Ragoussis, J., Roge, B., Rutter, M. L., Sequeira, A. F., Soorya, L., Sousa, I., Sykes, N., Stoppioni, V., Tancredi, R., Tauber, M., Thompson, A. P., Thomson, S., Tsiantis, J., Van Engeland, H., Vincent, J. B., Volkmar, F., Vorstman, J. A., Wallace, S., Wang, K., Wassink, T. H., White, K., Wing, K., Wittmeyer, K., Yaspan, B. L., Zwaigenbaum, L., Betancur, C., Buxbaum, J. D., Cantor, R. M., Cook, E. H., Coon, H.,

- Cuccaro, M. L., Geschwind, D. H., Haines, J. L., Hallmayer, J., Monaco, A. P., Nurnberger, J. I., Jr., Pericak-Vance, M. A., Schellenberg, G. D., Scherer, S. W., Sutcliffe, J. S., Szatmari, P., Vieland, V. J., Wijsman, E. M., Green, A., Gill, M., Gallagher, L., Vicente, A., and Ennis, S. (2012) A novel approach of homozygous haplotype sharing identifies candidate genes in autism spectrum disorder, *Human genetics* 131, 565-579.
6. Delmonte, S., Balsters, J. H., McGrath, J., Fitzgerald, J., Brennan, S., Fagan, A. J., and Gallagher, L. (2012) Social and monetary reward processing in autism spectrum disorders, *Molecular autism* 3, 7.

Ruth Byrne

1. Espino, O., and Byrne, R. M. (2013) The compatibility heuristic in non-categorical hypothetical reasoning: inferences between conditionals and disjunctions, *Cogn Psychol* 67, 98-129.
2. Dixon, J. E., and Byrne, R. M. (2011) "If only" counterfactual thoughts about exceptional actions, *Mem Cognit* 39, 1317-1331.
3. Counterfactual reasoning in, editor(s)D.S. Dunn , *Oxford Bibliographies in Psychology*, New York, Oxford University Press, 2013, pponline - [Byrne, R.M.J.]
4. The development of the rational imagination. in, editor(s)Barouillet, P. & Gauffroy, C. , *The Development of Thinking.*, Hove UK, Psychology Press, 2013, pp34 - 48, [Meehan, J. & Byrne, R.M.J.]
5. Intentionality and choice. in, editor(s)M. Knauff, M., Pauen, N., Sebanz, & I. Wachsmuth , *Proceedings of the 35th Annual Conference of the Cognitive Science Society.*, Austin TX, Cognitive Science Society., 2013, pp1970 - 1975, [Ndubuisi, B. & Byrne, R.M.J.]
6. Murray, M.A. & Byrne, R.M.J. , Cognitive Change in Insight Problem-Solving: Initial Model Errors and Counterexamples., *Journal of Cognitive Psychology.* , 25, (2), 2013, p210 – 219
7. Egan, S. & Byrne, R.M.J., Inferences from counterfactual inducements, *Experimental Psychology*, 59, (4), 2012, 227 – 235
8. Johnson-Laird, P.N., Lotstein, M., & Byrne, R.M.J., The consistency of disjunctive assertions, *Memory & Cognition*, 40, 2012, p769 – 778
9. Frosch, C. & Byrne, R.M.J., Causal conditionals and counterfactuals, *Acta Psychologica*, 141 , (1), 2012, p54 – 66
10. Pereda, A., Garavan, H., & Byrne, R.M.J., Switching attention incurs a cost for counterfactual conditional inferences, *Irish Journal of Psychology*, 33, (2-3), 2012, p72 – 77
11. 'Counterfactual and causal thoughts about exceptional events' in, Hoerl, C., McCormack, T., & Beck, S.R. , *Understanding counterfactuals and causality*, Oxford, Oxford University Press, 2011, pp208 - 229, [Byrne, R.M.J.]

12. Pighin, S, Byrne, R.M.J., Ferrante, D., Gonzalez, M. & Girotto, V. , Counterfactual thoughts about experienced, observed, and narrated events., *Thinking and reasoning* , 17, (2), 2011, p197 – 211.
13. Dixon, J. & Byrne, R.M.J., Counterfactual thinking about exceptional actions, *Memory & Cognition*, 39, (7), 2011, p1317 – 1331.

Matthew Campbell

1. Rouine, J., Gobbo, O. L., Campbell, M., Gigliucci, V., Ogden, I., McHugh Smith, K., Duffy, P., Behan, B., Byrne, D., Kelly, M. E., Blau, C. W., Kerskens, C. M., and Harkin, A. (2013) MDMA 'ecstasy' increases cerebral cortical perfusion determined by bolus-tracking arterial spin labelling (btASL) MRI, *British journal of pharmacology* 169, 974-987.
2. Chadderton, N., Palfi, A., Millington-Ward, S., Gobbo, O., Overlack, N., Carrigan, M., O'Reilly, M., Campbell, M., Ehrhardt, C., Wolfrum, U., Humphries, P., Kenna, P. F., and Farrar, G. J. (2013) Intravitreal delivery of AAV-NDI1 provides functional benefit in a murine model of Leber hereditary optic neuropathy, *European journal of human genetics : EJHG* 21, 62-68.
3. Campbell, M., Humphries, M. M., and Humphries, P. (2013) Barrier modulation in drug delivery to the retina, *Methods in molecular biology (Clifton, N.J.)* 935, 371-380.
4. Campbell, M., and Doyle, S. L. (2013) An eye on the future of inflammasomes and drug development in AMD, *Journal of molecular medicine (Berlin, Germany)* 91, 1059-1070.
5. Tam, L. C., Kiang, A. S., Campbell, M., Keaney, J., Farrar, G. J., Humphries, M. M., Kenna, P. F., and Humphries, P. (2012) Protein misfolding and potential therapeutic treatments in inherited retinopathies, *Advances in experimental medicine and biology* 723, 567-572.
6. Nguyen, A. T., Campbell, M., Kenna, P. F., Kiang, A. S., Tam, L., Humphries, M. M., and Humphries, P. (2012) Calpain and photoreceptor apoptosis, *Advances in experimental medicine and biology* 723, 547-552.
7. Humphries, M. M., Kenna, P. F., Campbell, M., Tam, L. C., Nguyen, A. T., Farrar, G. J., Botto, M., Kiang, A. S., and Humphries, P. (2012) C1q enhances cone photoreceptor survival in a mouse model of autosomal recessive retinitis pigmentosa, *European journal of human genetics : EJHG* 20, 64-68.
8. Hanrahan, F., Campbell, M., Nguyen, A. T., Suzuki, M., Kiang, A. S., Tam, L. C., Gobbo, O. L., Dhubghaill, S. N., Humphries, M. M., Kenna, P. F., and Humphries, P. (2012) On further development of barrier modulation as a technique for systemic ocular drug delivery, *Advances in experimental medicine and biology* 723, 155-159.
9. Doyle, S. L., Campbell, M., Ozaki, E., Salomon, R. G., Mori, A., Kenna, P. F., Farrar, G. J., Kiang, A. S., Humphries, M. M., Lavelle, E. C., O'Neill, L. A., Hollyfield, J. G., and Humphries, P. (2012) NLRP3 has a protective role in age-related macular degeneration through the induction of IL-18 by drusen components, *Nature medicine* 18, 791-798.

10. Campbell, M., and Humphries, P. (2012) The blood-retina barrier: tight junctions and barrier modulation, *Advances in experimental medicine and biology* 763, 70-84.
11. Campbell, M., Hanrahan, F., Gobbo, O. L., Kelly, M. E., Kiang, A. S., Humphries, M. M., Nguyen, A. T., Ozaki, E., Keaney, J., Blau, C. W., Kerskens, C. M., Cahalan, S. D., Callanan, J. J., Wallace, E., Grant, G. A., Doherty, C. P., and Humphries, P. (2012) Targeted suppression of claudin-5 decreases cerebral oedema and improves cognitive outcome following traumatic brain injury, *Nature communications* 3, 849.
12. Keaney, J., Campbell, M., and Humphries, P. (2011) From RNA interference technology to effective therapy: how far have we come and how far to go?, *Therapeutic delivery* 2, 1395-1406.
13. Dagdan, E., Morris, D. W., Campbell, M., Hill, M., Rothermundt, M., Kastner, F., Hohoff, C., von Eiff, C., Krakowitzky, P., Gill, M., McKeon, P., and Roche, S. (2011) Functional assessment of a promoter polymorphism in S100B, a putative risk variant for bipolar disorder, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 156B, 691-699.
14. Campbell, M., Humphries, M. M., Kiang, A. S., Nguyen, A. T., Gobbo, O. L., Tam, L. C., Suzuki, M., Hanrahan, F., Ozaki, E., Farrar, G. J., Kenna, P. F., and Humphries, P. (2011) Systemic low-molecular weight drug delivery to pre-selected neuronal regions, *EMBO molecular medicine* 3, 235-245.

Veronica Campbell

1. Gowran, A., McKayed, K., and Campbell, V. A. (2013) The cannabinoid receptor type 1 is essential for mesenchymal stem cell survival and differentiation: implications for bone health, *Stem cells international* 2013, 796715.
2. Xue, F., Lennon, A. B., McKayed, K. K., Campbell, V. A., and Prendergast, P. J. (2013) Effect of membrane stiffness and cytoskeletal element density on mechanical stimuli within cells: an analysis of the consequences of ageing in cells, *Comput Methods Biomech Biomed Engin.*
3. Tanveer, R., Gowran, A., Noonan, J., Keating, S. E., Bowie, A. G., and Campbell, V. A. (2012) The endocannabinoid, anandamide, augments Notch-1 signaling in cultured cortical neurons exposed to amyloid-beta and in the cortex of aged rats, *The Journal of biological chemistry* 287, 34709-34721.
4. Murphy, N., Cowley, T. R., Blau, C. W., Dempsey, C. N., Noonan, J., Gowran, A., Tanveer, R., Olango, W. M., Finn, D. P., Campbell, V. A., and Lynch, M. A. (2012) The fatty acid amide hydrolase inhibitor URB597 exerts anti-inflammatory effects in hippocampus of aged rats and restores an age-related deficit in long-term potentiation, *Journal of neuroinflammation* 9, 79.
5. Gowran, A., Noonan, J., and Campbell, V. A. (2011) The multiplicity of action of cannabinoids: implications for treating neurodegeneration, *CNS neuroscience & therapeutics* 17, 637-644.

Richard Carson

1. Janssen, L., Steenbergen, B., and Carson, R. G. (2013) Anticipatory Planning Reveals Segmentation of Cortical Motor Output During Action Observation, *Cereb Cortex*.
2. Carson, R. G., Nelson, B. D., Buick, A. R., Carroll, T. J., Kennedy, N. C., Cann, R. M., Riek, S., Hinder, M. R., Carson, R. G., Barker, R. N., Brauer, S. G., Barry, B. K., Gill, T. J., Carson, R. G., Carson, R. G., and Ruddy, K. L. (2013) Characterizing changes in the excitability of corticospinal projections to proximal muscles of the upper limb. *Brain Stimul* 6, 760-768.
3. Brauer, S. G., Hayward, K. S., Carson, R. G., Cresswell, A. G., and Barker, R. N. (2013) The efficacy of SMART Arm training early after stroke for stroke survivors with severe upper limb disability: a protocol for a randomised controlled trial, *BMC neurology* 13, 71.
4. Carson, R. G., and Kennedy, N. C. (2013) Modulation of human corticospinal excitability by paired associative stimulation, *Front Hum Neurosci* 7, 823.
5. Ruddy, K. L., and Carson, R. G. (2013) Neural pathways mediating cross education of motor function, *Front Hum Neurosci* 7, 397.
6. Riek, S., Hinder, M. R., and Carson, R. G. (2012) Primary motor cortex involvement in initial learning during visuomotor adaptation, *Neuropsychologia* 50, 2515-2523.
7. Hayward, K. S., Barker, R. N., Brauer, S. G., Lloyd, D., Horsley, S. A., Carson, R. G., Brauer, S. G., Hayward, K. S., Carson, R. G., Cresswell, A. G., and Barker, R. N. (2013) SMART Arm with outcome-triggered electrical stimulation: a pilot randomized clinical trial. *Top Stroke Rehabil* 20, 289-298.
8. Barker, R. N., Brauer, S. G., Barry, B. K., Gill, T. J., and Carson, R. G. (2012) Training-induced modifications of corticospinal reactivity in severely affected stroke survivors, *Experimental brain research* 221, 211-221.
9. Carson, R. G., and Ruddy, K. L. (2012) Vision modulates corticospinal suppression in a functionally specific manner during movement of the opposite limb, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 646-652.
10. Woolley, D. G., de Rugy, A., Carson, R. G., and Riek, S. (2011) Visual target separation determines the extent of generalisation between opposing visuomotor rotations, *Experimental brain research* 212, 213-224.

Thomas Connor

1. Jones, R. S., Minogue, A. M., Connor, T. J., and Lynch, M. A. (2013) Amyloid-beta-induced astrocytic phagocytosis is mediated by CD36, CD47 and RAGE, *Journal of neuroimmune pharmacology : the official journal of the Society on NeuroImmune Pharmacology* 8, 301-311.

2. McCarthy, K. F., Connor, T. J., and McCrory, C. (2013) Cerebrospinal fluid levels of vascular endothelial growth factor correlate with reported pain and are reduced by spinal cord stimulation in patients with failed back surgery syndrome, *Neuromodulation : journal of the International Neuromodulation Society* 16, 519-522; discussion 522.
3. Ryan, K. J., Griffin, E. W., and Connor, T. J. (2011) Complementary anti-inflammatory actions of the beta(2)-adrenoceptor agonist clenbuterol and the glucocorticoid dexamethasone in rat brain, *Journal of neuroimmunology* 232, 209-216.
4. Collins, L. M., Toulouse, A., Connor, T. J., and Nolan, Y. M. (2012) Contributions of central and systemic inflammation to the pathophysiology of Parkinson's disease, *Neuropharmacology* 62, 2154-2168.
5. Pertl, M. M., Hevey, D., Boyle, N. T., Hughes, M. M., Collier, S., O'Dwyer, A. M., Harkin, A., Kennedy, M. J., and Connor, T. J. (2013) C-reactive protein predicts fatigue independently of depression in breast cancer patients prior to chemotherapy, *Brain Behav Immun* 34, 108-119.
6. Kelly, R. J., Minogue, A. M., Lyons, A., Jones, R. S., Browne, T. C., Costello, D. A., Denieffe, S., O'Sullivan, C., Connor, T. J., and Lynch, M. A. (2013) Glial Activation in AbetaPP/PS1 Mice is Associated with Infiltration of IFNgamma-Producing Cells, *J Alzheimers Dis*.
7. Downer, E. J., Jones, R. S., McDonald, C. L., Greco, E., Brennan, S., Connor, T. J., Robertson, I. H., and Lynch, M. A. (2013) Identifying early inflammatory changes in monocyte-derived macrophages from a population with IQ-discrepant episodic memory, *PLoS One* 8, e63194.
8. Beumer, W., Gibney, S. M., Drexhage, R. C., Pont-Lezica, L., Doorduyn, J., Klein, H. C., Steiner, J., Connor, T. J., Harkin, A., Versnel, M. A., and Drexhage, H. A. (2012) The immune theory of psychiatric diseases: a key role for activated microglia and circulating monocytes, *Journal of leukocyte biology* 92, 959-975.
9. Kerr, D. M., Burke, N. N., Ford, G. K., Connor, T. J., Harhen, B., Egan, L. J., Finn, D. P., and Roche, M. (2012) Pharmacological inhibition of endocannabinoid degradation modulates the expression of inflammatory mediators in the hypothalamus following an immunological stressor, *Neuroscience* 204, 53-63.
10. Gibney, S. M., McGuinness, B., Prendergast, C., Harkin, A., and Connor, T. J. (2013) Poly I:C-induced activation of the immune response is accompanied by depression and anxiety-like behaviours, kynurenine pathway activation and reduced BDNF expression, *Brain Behav Immun* 28, 170-181.
11. Ryan, K. J., Griffin, E., Yssel, J. D., Ryan, K. M., McNamee, E. N., Harkin, A., and Connor, T. J. (2013) Stimulation of central beta2-adrenoceptors suppresses NFkappaB activity in rat brain: a role for IkappaB, *Neurochemistry international* 63, 368-378.
12. Hughes, M. M., Carballedo, A., McLoughlin, D. M., Amico, F., Harkin, A., Frodl, T., and Connor, T. J. (2012) Tryptophan depletion in depressed patients occurs independent of kynurenine pathway activation, *Brain Behav Immun* 26, 979-987.

Aiden Corvin

1. Hill, M. J., Kenny, E., Roche, S., Morris, D. W., Corvin, A., Hawi, Z., Gill, M., and Anney, R. J. (2011) Allelic expression imbalance of the schizophrenia susceptibility gene *CHI3L1*: evidence of cis-acting variation and tissue specific regulation, *Psychiatr Genet* 21, 281-286.
2. Su, Z., Gay, L. J., Strange, A., Palles, C., Band, G., Whiteman, D. C., Lescai, F., Langford, C., Nanji, M., Edkins, S., van der Winkel, A., Levine, D., Sasieni, P., Bellenguez, C., Howarth, K., Freeman, C., Trudgill, N., Tucker, A. T., Pirinen, M., Peppelenbosch, M. P., van der Laan, L. J., Kuipers, E. J., Drenth, J. P., Peters, W. H., Reynolds, J. V., Kelleher, D. P., McManus, R., Grabsch, H., Prenen, H., Bisschops, R., Krishnadath, K., Siersema, P. D., van Baal, J. W., Middleton, M., Petty, R., Gillies, R., Burch, N., Bhandari, P., Paterson, S., Edwards, C., Penman, I., Vaidya, K., Ang, Y., Murray, I., Patel, P., Ye, W., Mullins, P., Wu, A. H., Bird, N. C., Dallal, H., Shaheen, N. J., Murray, L. J., Koss, K., Bernstein, L., Romero, Y., Hardie, L. J., Zhang, R., Winter, H., Corley, D. A., Panter, S., Risch, H. A., Reid, B. J., Sargeant, I., Gammon, M. D., Smart, H., Dhar, A., McMurtry, H., Ali, H., Liu, G., Casson, A. G., Chow, W. H., Rutter, M., Tawil, A., Morris, D., Nwokolo, C., Isaacs, P., Rodgers, C., Ragunath, K., MacDonald, C., Haigh, C., Monk, D., Davies, G., Wajed, S., Johnston, D., Gibbons, M., Cullen, S., Church, N., Langley, R., Griffin, M., Alderson, D., Deloukas, P., Hunt, S. E., Gray, E., Dronov, S., Potter, S. C., Tashakkori-Ghanbaria, A., Anderson, M., Brooks, C., Blackwell, J. M., Bramon, E., Brown, M. A., Casas, J. P., Corvin, A., Duncanson, A., Markus, H. S., Mathew, C. G., Palmer, C. N., Plomin, R., Rautanen, A., Sawcer, S. J., Trembath, R. C., Viswanathan, A. C., Wood, N., Trynka, G., Wijmenga, C., Cazier, J. B., Atherfold, P., Nicholson, A. M., Gellatly, N. L., Glancy, D., Cooper, S. C., Cunningham, D., Lind, T., Hapeshi, J., Ferry, D., Rathbone, B., Brown, J., Love, S., Attwood, S., MacGregor, S., Watson, P., Sanders, S., Ek, W., Harrison, R. F., Moayyedi, P., de Caestecker, J., Barr, H., Stupka, E., Vaughan, T. L., Peltonen, L., Spencer, C. C., Tomlinson, I., Donnelly, P., Jankowski, J. A., Esophageal Adenocarcinoma Genetics, C., and Wellcome Trust Case Control, C. (2012) Common variants at the MHC locus and at chromosome 16q24.1 predispose to Barrett's esophagus, *Nature genetics* 44, 1131-1136.
3. Leish, G. E. N. C., Wellcome Trust Case Control, C., Fakiola, M., Strange, A., Cordell, H. J., Miller, E. N., Pirinen, M., Su, Z., Mishra, A., Mehrotra, S., Monteiro, G. R., Band, G., Bellenguez, C., Dronov, S., Edkins, S., Freeman, C., Giannoulatou, E., Gray, E., Hunt, S. E., Lacerda, H. G., Langford, C., Pearson, R., Pontes, N. N., Rai, M., Singh, S. P., Smith, L., Sousa, O., Vukcevic, D., Bramon, E., Brown, M. A., Casas, J. P., Corvin, A., Duncanson, A., Jankowski, J., Markus, H. S., Mathew, C. G., Palmer, C. N., Plomin, R., Rautanen, A., Sawcer, S. J., Trembath, R. C., Viswanathan, A. C., Wood, N. W., Wilson, M. E., Deloukas, P., Peltonen, L., Christiansen, F., Witt, C., Jeronimo, S. M., Sundar, S., Spencer, C. C., Blackwell, J. M., and Donnelly, P. (2013) Common variants in the HLA-DRB1-HLA-DQA1 HLA class II region are associated with susceptibility to visceral leishmaniasis, *Nature genetics* 45, 208-213.

4. Aberg, K. A., Liu, Y., Bukszar, J., McClay, J. L., Khachane, A. N., Andreassen, O. A., Blackwood, D., Corvin, A., Djurovic, S., Gurling, H., Ophoff, R., Pato, C. N., Pato, M. T., Riley, B., Webb, T., Kendler, K., O'Donovan, M., Craddock, N., Kirov, G., Owen, M., Rujescu, D., St Clair, D., Werge, T., Hultman, C. M., Delisi, L. E., Sullivan, P., and van den Oord, E. J. (2013) A comprehensive family-based replication study of schizophrenia genes, *JAMA psychiatry* 70, 573-581.
5. Quinn, E. M., Cormican, P., Kenny, E. M., Hill, M., Anney, R., Gill, M., Corvin, A. P., and Morris, D. W. (2013) Development of strategies for SNP detection in RNA-seq data: application to lymphoblastoid cell lines and evaluation using 1000 Genomes data, *PLoS One* 8, e58815.
6. Vacic, V., McCarthy, S., Malhotra, D., Murray, F., Chou, H. H., Peoples, A., Makarov, V., Yoon, S., Bhandari, A., Corominas, R., Iakoucheva, L. M., Krastoshevsky, O., Krause, V., Larach-Walters, V., Welsh, D. K., Craig, D., Kelsoe, J. R., Gershon, E. S., Leal, S. M., Dell Aquila, M., Morris, D. W., Gill, M., Corvin, A., Insel, P. A., McClellan, J., King, M. C., Karayiorgou, M., Levy, D. L., DeLisi, L. E., and Sebat, J. (2011) Duplications of the neuropeptide receptor gene VIPR2 confer significant risk for schizophrenia, *Nature* 471, 499-503.
7. Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The effect of the neurogranin schizophrenia risk variant rs12807809 on brain structure and function, *Twin research and human genetics : the official journal of the International Society for Twin Studies* 15, 296-303.
8. Gilks, W. P., Hill, M., Gill, M., Donohoe, G., Corvin, A. P., and Morris, D. W. (2012) Functional investigation of a schizophrenia GWAS signal at the CDC42 gene, *The world journal of biological psychiatry : the official journal of the World Federation of Societies of Biological Psychiatry* 13, 550-554.
9. Bridges, M., Heron, E. A., O'Dushlaine, C., Segurado, R., Morris, D., Corvin, A., Gill, M., and Pinto, C. (2011) Genetic classification of populations using supervised learning, *PLoS One* 6.
10. Cross-Disorder Group of the Psychiatric Genomics, C., Lee, S. H., Ripke, S., Neale, B. M., Faraone, S. V., Purcell, S. M., Perlis, R. H., Mowry, B. J., Thapar, A., Goddard, M. E., Witte, J. S., Absher, D., Agartz, I., Akil, H., Amin, F., Andreassen, O. A., Anjorin, A., Anney, R., Anttila, V., Arking, D. E., Asherson, P., Azevedo, M. H., Backlund, L., Badner, J. A., Bailey, A. J., Banaschewski, T., Barchas, J. D., Barnes, M. R., Barrett, T. B., Bass, N., Battaglia, A., Bauer, M., Bayes, M., Bellivier, F., Bergen, S. E., Berrettini, W., Betancur, C., Bettecken, T., Biederman, J., Binder, E. B., Black, D. W., Blackwood, D. H., Bloss, C. S., Boehnke, M., Boomsma, D. I., Breen, G., Breuer, R., Bruggeman, R., Cormican, P., Buccola, N. G., Buitelaar, J. K., Bunney, W. E., Buxbaum, J. D., Byerley, W. F., Byrne, E. M., Caesar, S., Cahn, W., Cantor, R. M., Casas, M., Chakravarti, A., Chambert, K., Choudhury, K., Cichon, S., Cloninger, C. R., Collier, D. A., Cook, E. H., Coon, H., Cormand, B., Corvin, A., Coryell, W. H., Craig, D. W., Craig, I. W., Crosbie, J., Cuccaro, M. L., Curtis, D., Czamara, D., Datta, S., Dawson, G., Day, R., De Geus, E. J., Degenhardt, F., Djurovic, S., Donohoe, G. J., Doyle, A. E., Duan, J., Dudbridge, F.,

Duketis, E., Ebstein, R. P., Edenberg, H. J., Elia, J., Ennis, S., Etain, B., Fanous, A., Farmer, A. E., Ferrier, I. N., Flickinger, M., Fombonne, E., Foroud, T., Frank, J., Franke, B., Fraser, C., Freedman, R., Freimer, N. B., Freitag, C. M., Friedl, M., Frisen, L., Gallagher, L., Gejman, P. V., Georgieva, L., Gershon, E. S., Geschwind, D. H., Giegling, I., Gill, M., Gordon, S. D., Gordon-Smith, K., Green, E. K., Greenwood, T. A., Grice, D. E., Gross, M., Grozeva, D., Guan, W., Gurling, H., De Haan, L., Haines, J. L., Hakonarson, H., Hallmayer, J., Hamilton, S. P., Hamshere, M. L., Hansen, T. F., Hartmann, A. M., Hautzinger, M., Heath, A. C., Henders, A. K., Herms, S., Hickie, I. B., Hipolito, M., Hoefels, S., Holmans, P. A., Holsboer, F., Hoogendijk, W. J., Hottenga, J. J., Hultman, C. M., Hus, V., Ingason, A., Ising, M., Jamain, S., Jones, E. G., Jones, I., Jones, L., Tzeng, J. Y., Kahler, A. K., Kahn, R. S., Kandaswamy, R., Keller, M. C., Kennedy, J. L., Kenny, E., Kent, L., Kim, Y., Kirov, G. K., Klauck, S. M., Klei, L., Knowles, J. A., Kohli, M. A., Koller, D. L., Konte, B., Korszun, A., Krabbendam, L., Krasucki, R., Kuntsi, J., Kwan, P., Landen, M., Langstrom, N., Lathrop, M., Lawrence, J., Lawson, W. B., Leboyer, M., Ledbetter, D. H., Lee, P. H., Lencz, T., Lesch, K. P., Levinson, D. F., Lewis, C. M., Li, J., Lichtenstein, P., Lieberman, J. A., Lin, D. Y., Linszen, D. H., Liu, C., Lohoff, F. W., Loo, S. K., Lord, C., Lowe, J. K., Lucae, S., MacIntyre, D. J., Madden, P. A., Maestrini, E., Magnusson, P. K., Mahon, P. B., Maier, W., Malhotra, A. K., Mane, S. M., Martin, C. L., Martin, N. G., Mattheisen, M., Matthews, K., Mattingsdal, M., McCarroll, S. A., McGhee, K. A., McGough, J. J., McGrath, P. J., McGuffin, P., McInnis, M. G., McIntosh, A., McKinney, R., McLean, A. W., McMahan, F. J., McMahan, W. M., McQuillin, A., Medeiros, H., Medland, S. E., Meier, S., Melle, I., Meng, F., Meyer, J., Middeldorp, C. M., Middleton, L., Milanova, V., Miranda, A., Monaco, A. P., Montgomery, G. W., Moran, J. L., Moreno-De-Luca, D., Morken, G., Morris, D. W., Morrow, E. M., Moskvina, V., Muglia, P., Muhleisen, T. W., Muir, W. J., Muller-Myhsok, B., Murtha, M., Myers, R. M., Myin-Germeys, I., Neale, M. C., Nelson, S. F., Nievergelt, C. M., Nikolov, I., Nimgaonkar, V., Nolen, W. A., Nothen, M. M., Nurnberger, J. I., Nwulia, E. A., Nyholt, D. R., O'Dushlaine, C., Oades, R. D., Olincy, A., Oliveira, G., Olsen, L., Ophoff, R. A., Osby, U., Owen, M. J., Palotie, A., Parr, J. R., Paterson, A. D., Pato, C. N., Pato, M. T., Penninx, B. W., Pergadia, M. L., Pericak-Vance, M. A., Pickard, B. S., Pimm, J., Piven, J., Posthuma, D., Potash, J. B., Poustka, F., Propping, P., Puri, V., Quedsted, D. J., Quinn, E. M., Ramos-Quiroga, J. A., Rasmussen, H. B., Raychaudhuri, S., Rehnstrom, K., Reif, A., Ribases, M., Rice, J. P., Rietschel, M., Roeder, K., Roeyers, H., Rossin, L., Rothenberger, A., Rouleau, G., Ruderfer, D., Rujescu, D., Sanders, A. R., Sanders, S. J., Santangelo, S. L., Sergeant, J. A., Schachar, R., Schalling, M., Schatzberg, A. F., Scheftner, W. A., Schellenberg, G. D., Scherer, S. W., Schork, N. J., Schulze, T. G., Schumacher, J., Schwarz, M., Scolnick, E., Scott, L. J., Shi, J., Shilling, P. D., Shyn, S. I., Silverman, J. M., Slager, S. L., Smalley, S. L., Smit, J. H., Smith, E. N., Sonuga-Barke, E. J., St Clair, D., State, M., Steffens, M., Steinhausen, H. C., Strauss, J. S., Strohmaier, J., Stroup, T. S., Sutcliffe, J. S., Szatmari, P., Szelinger, S., Thirumalai, S., Thompson, R. C., Todorov, A. A., Tozzi, F., Treutlein, J., Uhr, M., van den Oord, E. J., Van Grootheest, G., Van Os, J., Vicente, A. M., Vieland, V. J., Vincent, J. B., Visscher, P. M., Walsh, C. A., Wassink, T. H., Watson, S. J., Weissman, M. M., Werge, T., Wienker, T. F., Wijsman, E. M., Willemsen, G., Williams, N., Willsey, A. J., Witt, S. H., Xu, W., Young, A. H., Yu, T. W., Zammit, S., Zandi, P.

- P., Zhang, P., Zitman, F. G., Zollner, S., International Inflammatory Bowel Disease Genetics, C., Devlin, B., Kelsoe, J. R., Sklar, P., Daly, M. J., O'Donovan, M. C., Craddock, N., Sullivan, P. F., Smoller, J. W., Kendler, K. S., and Wray, N. R. (2013) Genetic relationship between five psychiatric disorders estimated from genome-wide SNPs, *Nature genetics* 45, 984-994.
11. Ripke, S., O'Dushlaine, C., Chambert, K., Moran, J. L., Kahler, A. K., Akterin, S., Bergen, S. E., Collins, A. L., Crowley, J. J., Fromer, M., Kim, Y., Lee, S. H., Magnusson, P. K., Sanchez, N., Stahl, E. A., Williams, S., Wray, N. R., Xia, K., Bettella, F., Borglum, A. D., Bulik-Sullivan, B. K., Cormican, P., Craddock, N., de Leeuw, C., Durmishi, N., Gill, M., Golimbet, V., Hamshere, M. L., Holmans, P., Hougaard, D. M., Kendler, K. S., Lin, K., Morris, D. W., Mors, O., Mortensen, P. B., Neale, B. M., O'Neill, F. A., Owen, M. J., Milovancevic, M. P., Posthuma, D., Powell, J., Richards, A. L., Riley, B. P., Ruderfer, D., Rujescu, D., Sigurdsson, E., Silagadze, T., Smit, A. B., Stefansson, H., Steinberg, S., Suvisaari, J., Tosato, S., Verhage, M., Walters, J. T., Multicenter Genetic Studies of Schizophrenia, C., Levinson, D. F., Gejman, P. V., Kendler, K. S., Laurent, C., Mowry, B. J., O'Donovan, M. C., Owen, M. J., Pulver, A. E., Riley, B. P., Schwab, S. G., Wildenauer, D. B., Dudbridge, F., Holmans, P., Shi, J., Albus, M., Alexander, M., Campion, D., Cohen, D., Dikeos, D., Duan, J., Eichhammer, P., Godard, S., Hansen, M., Lerer, F. B., Liang, K. Y., Maier, W., Mallet, J., Nertney, D. A., Nestadt, G., Norton, N., O'Neill, F. A., Papadimitriou, G. N., Ribble, R., Sanders, A. R., Silverman, J. M., Walsh, D., Williams, N. M., Wormley, B., Psychosis Endophenotypes International, C., Arranz, M. J., Bakker, S., Bender, S., Bramon, E., Collier, D., Crespo-Facorro, B., Hall, J., Iyegbe, C., Jablensky, A., Kahn, R. S., Kalaydjieva, L., Lawrie, S., Lewis, C. M., Lin, K., Linszen, D. H., Mata, I., McIntosh, A., Murray, R. M., Ophoff, R. A., Powell, J., Rujescu, D., Van Os, J., Walshe, M., Weisbrod, M., Wiersma, D., Wellcome Trust Case Control, C., Donnelly, P., Barroso, I., Blackwell, J. M., Bramon, E., Brown, M. A., Casas, J. P., Corvin, A. P., Deloukas, P., Duncanson, A., Jankowski, J., Markus, H. S., Mathew, C. G., Palmer, C. N., Plomin, R., Rautanen, A., Sawcer, S. J., Trembath, R. C., Viswanathan, A. C., Wood, N. W., Spencer, C. C., Band, G., Bellenguez, C., Freeman, C., Hellenthal, G., Giannoulatou, E., Pirinen, M., Pearson, R. D., Strange, A., Su, Z., Vukcevic, D., Donnelly, P., Langford, C., Hunt, S. E., Eddins, S., Gwilliam, R., Blackburn, H., Bumpstead, S. J., Dronov, S., Gillman, M., Gray, E., Hammond, N., Jayakumar, A., McCann, O. T., Liddle, J., Potter, S. C., Ravindrarajah, R., Ricketts, M., Tashakkori-Ghanbaria, A., Waller, M. J., Weston, P., Widaa, S., Whittaker, P., Barroso, I., Deloukas, P., Mathew, C. G., Blackwell, J. M., Brown, M. A., Corvin, A. P., McCarthy, M. I., Spencer, C. C., Bramon, E., Corvin, A. P., O'Donovan, M. C., Stefansson, K., Scolnick, E., Purcell, S., McCarroll, S. A., Sklar, P., Hultman, C. M., and Sullivan, P. F. (2013) Genome-wide association analysis identifies 13 new risk loci for schizophrenia, *Nature genetics* 45, 1150-1159.
 12. International Stroke Genetics, C., Wellcome Trust Case Control, C., Bellenguez, C., Bevan, S., Gschwendtner, A., Spencer, C. C., Burgess, A. I., Pirinen, M., Jackson, C. A., Traylor, M., Strange, A., Su, Z., Band, G., Syme, P. D., Malik, R., Pera, J., Norrving, B., Lemmens, R., Freeman, C., Schanz, R., James, T., Poole, D., Murphy, L., Segal, H., Cortellini, L., Cheng, Y. C., Woo, D., Nalls, M. A., Muller-Myhsok, B., Meisinger, C., Seedorf, U., Ross-Adams, H., Boonen, S., Wloch-Kopec, D., Valant, V., Slark, J., Furie,

- K., Delavaran, H., Langford, C., Deloukas, P., Edkins, S., Hunt, S., Gray, E., Dronov, S., Peltonen, L., Gretarsdottir, S., Thorleifsson, G., Thorsteinsdottir, U., Stefansson, K., Boncoraglio, G. B., Parati, E. A., Attia, J., Holliday, E., Levi, C., Franzosi, M. G., Goel, A., Helgadottir, A., Blackwell, J. M., Bramon, E., Brown, M. A., Casas, J. P., Corvin, A., Duncanson, A., Jankowski, J., Mathew, C. G., Palmer, C. N., Plomin, R., Rautanen, A., Sawcer, S. J., Trembath, R. C., Viswanathan, A. C., Wood, N. W., Worrall, B. B., Kittner, S. J., Mitchell, B. D., Kissela, B., Meschia, J. F., Thijs, V., Lindgren, A., Macleod, M. J., Slowik, A., Walters, M., Rosand, J., Sharma, P., Farrall, M., Sudlow, C. L., Rothwell, P. M., Dichgans, M., Donnelly, P., and Markus, H. S. (2012) Genome-wide association study identifies a variant in HDAC9 associated with large vessel ischemic stroke, *Nature genetics* 44, 328-333.
13. Ripke, S., Sanders, A. R., Kendler, K. S., Levinson, D. F., Sklar, P., Holmans, P. A., Lin, D. Y., Duan, J., Ophoff, R. A., Andreassen, O. A., Scolnick, E., Cichon, S., St Clair, D., Corvin, A., Gurling, H., Werge, T., Rujescu, D., Blackwood, D. H., Pato, C. N., Malhotra, A. K., Purcell, S., Dudbridge, F., Neale, B. M., Rossin, L., Visscher, P. M., Posthuma, D., Ruderfer, D. M., Fanous, A., Stefansson, H., Steinberg, S., Mowry, B. J., Golimbet, V., De Hert, M., Jonsson, E. G., Bitter, I., Pietilainen, O. P., Collier, D. A., Tosato, S., Agartz, I., Albus, M., Alexander, M., Amdur, R. L., Amin, F., Bass, N., Bergen, S. E., Black, D. W., Borglum, A. D., Brown, M. A., Bruggeman, R., Buccola, N. G., Byerley, W. F., Cahn, W., Cantor, R. M., Carr, V. J., Catts, S. V., Choudhury, K., Cloninger, C. R., Cormican, P., Craddock, N., Danoy, P. A., Datta, S., de Haan, L., Demontis, D., Dikeos, D., Djurovic, S., Donnelly, P., Donohoe, G., Duong, L., Dwyer, S., Fink-Jensen, A., Freedman, R., Freimer, N. B., Friedl, M., Georgieva, L., Giegling, I., Gill, M., Glenthøj, B., Godard, S., Hamshere, M., Hansen, M., Hansen, T., Hartmann, A. M., Henskens, F. A., Hougaard, D. M., Hultman, C. M., Ingason, A., Jablensky, A. V., Jakobsen, K. D., Jay, M., Jurgens, G., Kahn, R. S., Keller, M. C., Kenis, G., Kenny, E., Kim, Y., Kirov, G. K., Konnerth, H., Konte, B., Krabbendam, L., Krasucki, R., Lasseter, V. K., Laurent, C., Lawrence, J., Lencz, T., Lerer, F. B., Liang, K. Y., Lichtenstein, P., Lieberman, J. A., Linszen, D. H., Lonnqvist, J., Loughland, C. M., Maclean, A. W., Maher, B. S., Maier, W., Mallet, J., Malloy, P., Mattheisen, M., Mattingsdal, M., McGhee, K. A., McGrath, J. J., McIntosh, A., McLean, D. E., McQuillin, A., Melle, I., Michie, P. T., Milanova, V., Morris, D. W., Mors, O., Mortensen, P. B., Moskvina, V., Muglia, P., Myin-Germeys, I., Nertney, D. A., Nestadt, G., Nielsen, J., Nikolov, I., Nordentoft, M., Norton, N., Nothen, M. M., O'Dushlaine, C. T., Olincy, A., Olsen, L., O'Neill, F. A., Orntoft, T. F., Owen, M. J., Pantelis, C., Papadimitriou, G., Pato, M. T., Peltonen, L., Petursson, H., Pickard, B., Pimm, J., Pulver, A. E., Puri, V., Queded, D., Quinn, E. M., Rasmussen, H. B., Rethelyi, J. M., Ribble, R., Rietschel, M., Riley, B. P., Ruggeri, M., Schall, U., Schulze, T. G., Schwab, S. G., Scott, R. J., Shi, J., Sigurdsson, E., Silverman, J. M., Spencer, C. C., Stefansson, K., Strange, A., Strengman, E., Stroup, T. S., Suvisaari, J., Terenius, L., Thirumalai, S., Thygesen, J. H., Timm, S., Toncheva, D., van den Oord, E., van Os, J., van Winkel, R., Veldink, J., Walsh, D., Wang, A. G., Wiersma, D., Wildenauer, D. B., Williams, H. J., Williams, N. M., Wormley, B., Zammit, S., Sullivan, P. F., O'Donovan, M. C., Daly, M. J., and Gejman, P. V. (2011) Genome-wide association study identifies five new schizophrenia loci, *Nature genetics* 43, 969-976.

14. Stein, J. L., Medland, S. E., Vasquez, A. A., Hibar, D. P., Senstad, R. E., Winkler, A. M., Toro, R., Appel, K., Bartecek, R., Bergmann, O., Bernard, M., Brown, A. A., Cannon, D. M., Chakravarty, M. M., Christoforou, A., Domin, M., Grimm, O., Hollinshead, M., Holmes, A. J., Homuth, G., Hottenga, J. J., Langan, C., Lopez, L. M., Hansell, N. K., Hwang, K. S., Kim, S., Laje, G., Lee, P. H., Liu, X., Loth, E., Lourdusamy, A., Mattingsdal, M., Mohnke, S., Maniega, S. M., Nho, K., Nugent, A. C., O'Brien, C., Pampmeyer, M., Putz, B., Ramasamy, A., Rasmussen, J., Rijpkema, M., Risacher, S. L., Roddey, J. C., Rose, E. J., Ryten, M., Shen, L., Sprooten, E., Strengman, E., Teumer, A., Trabzuni, D., Turner, J., van Eijk, K., van Erp, T. G., van Tol, M. J., Wittfeld, K., Wolf, C., Woudstra, S., Aleman, A., Alhusaini, S., Almasy, L., Binder, E. B., Brohawn, D. G., Cantor, R. M., Carless, M. A., Corvin, A., Czisch, M., Curran, J. E., Davies, G., de Almeida, M. A., Delanty, N., Depondt, C., Duggirala, R., Dyer, T. D., Erk, S., Fagerness, J., Fox, P. T., Freimer, N. B., Gill, M., Goring, H. H., Hagler, D. J., Hoehn, D., Holsboer, F., Hoogman, M., Hosten, N., Jahanshad, N., Johnson, M. P., Kasperaviciute, D., Kent, J. W., Jr., Kochunov, P., Lancaster, J. L., Lawrie, S. M., Liewald, D. C., Mandl, R., Matarin, M., Mattheisen, M., Meisenzahl, E., Melle, I., Moses, E. K., Muhleisen, T. W., Nauck, M., Nothen, M. M., Olvera, R. L., Pandolfo, M., Pike, G. B., Puls, R., Reinvang, I., Renteria, M. E., Rietschel, M., Roffman, J. L., Royle, N. A., Rujescu, D., Savitz, J., Schnack, H. G., Schnell, K., Seiferth, N., Smith, C., Steen, V. M., Valdes Hernandez, M. C., Van den Heuvel, M., van der Wee, N. J., Van Haren, N. E., Veltman, J. A., Volzke, H., Walker, R., Westlye, L. T., Whelan, C. D., Agartz, I., Boomsma, D. I., Cavalleri, G. L., Dale, A. M., Djurovic, S., Drevets, W. C., Hagoort, P., Hall, J., Heinz, A., Jack, C. R., Jr., Foroud, T. M., Le Hellard, S., Macciardi, F., Montgomery, G. W., Poline, J. B., Porteous, D. J., Sisodiya, S. M., Starr, J. M., Sussmann, J., Toga, A. W., Veltman, D. J., Walter, H., Weiner, M. W., Alzheimer's Disease Neuroimaging, I., Consortium, E., Consortium, I., Saguenay Youth Study, G., Bis, J. C., Ikram, M. A., Smith, A. V., Gudnason, V., Tzourio, C., Vernooij, M. W., Launer, L. J., DeCarli, C., Seshadri, S., Cohorts for, H., Aging Research in Genomic Epidemiology, C., Andreassen, O. A., Apostolova, L. G., Bastin, M. E., Blangero, J., Brunner, H. G., Buckner, R. L., Cichon, S., Coppola, G., de Zubicaray, G. I., Deary, I. J., Donohoe, G., de Geus, E. J., Espeseth, T., Fernandez, G., Glahn, D. C., Grabe, H. J., Hardy, J., Hulshoff Pol, H. E., Jenkinson, M., Kahn, R. S., McDonald, C., McIntosh, A. M., McMahon, F. J., McMahon, K. L., Meyer-Lindenberg, A., Morris, D. W., Muller-Myhsok, B., Nichols, T. E., Ophoff, R. A., Paus, T., Pausova, Z., Penninx, B. W., Potkin, S. G., Samann, P. G., Saykin, A. J., Schumann, G., Smoller, J. W., Wardlaw, J. M., Weale, M. E., Martin, N. G., Franke, B., Wright, M. J., Thompson, P. M., and Enhancing Neuro Imaging Genetics through Meta-Analysis, C. (2012) Identification of common variants associated with human hippocampal and intracranial volumes, *Nature genetics* 44, 552-561.
15. Guha, S., Rees, E., Darvasi, A., Ivanov, D., Ikeda, M., Bergen, S. E., Magnusson, P. K., Cormican, P., Morris, D., Gill, M., Cichon, S., Rosenfeld, J. A., Lee, A., Gregersen, P. K., Kane, J. M., Malhotra, A. K., Rietschel, M., Nothen, M. M., Degenhardt, F., Priebe, L., Breuer, R., Strohmaier, J., Ruderfer, D. M., Moran, J. L., Chambert, K. D., Sanders, A. R., Shi, J., Kendler, K., Riley, B., O'Neill, T., Walsh, D., Malhotra, D., Corvin, A., Purcell, S., Sklar, P., Iwata, N., Hultman, C. M., Sullivan, P. F., Sebat, J., McCarthy, S., Gejman, P. V., Levinson, D. F., Owen, M. J., O'Donovan, M. C., Lencz, T., Kirov, G.,

- Molecular Genetics of Schizophrenia, C., and Wellcome Trust Case Control, C. (2013) Implication of a rare deletion at distal 16p11.2 in schizophrenia, *JAMA psychiatry* 70, 253-260.
16. Corvin, A. P., Molinos, I., Little, G., Donohoe, G., Gill, M., Morris, D. W., and Tropea, D. (2012) Insulin-like growth factor 1 (IGF1) and its active peptide (1-3)IGF1 enhance the expression of synaptic markers in neuronal circuits through different cellular mechanisms, *Neuroscience letters* 520, 51-56.
 17. Sklar, P., Ripke, S., Scott, L. J., Andreassen, O. A., Cichon, S., Craddock, N., Edenberg, H. J., Nurnberger, J. I., Jr., Rietschel, M., Blackwood, D., Corvin, A., Flickinger, M., Guan, W., Mattingsdal, M., McQuillin, A., Kwan, P., Wienker, T. F., Daly, M., Dudbridge, F., Holmans, P. A., Lin, D., Burmeister, M., Greenwood, T. A., Hamshere, M. L., Muglia, P., Smith, E. N., Zandi, P. P., Nievergelt, C. M., McKinney, R., Shilling, P. D., Schork, N. J., Bloss, C. S., Foroud, T., Koller, D. L., Gershon, E. S., Liu, C., Badner, J. A., Scheftner, W. A., Lawson, W. B., Nwulia, E. A., Hipolito, M., Coryell, W., Rice, J., Byerley, W., McMahon, F. J., Schulze, T. G., Berrettini, W., Lohoff, F. W., Potash, J. B., Mahon, P. B., McInnis, M. G., Zollner, S., Zhang, P., Craig, D. W., Szlinger, S., Barrett, T. B., Breuer, R., Meier, S., Strohmaier, J., Witt, S. H., Tozzi, F., Farmer, A., McGuffin, P., Strauss, J., Xu, W., Kennedy, J. L., Vincent, J. B., Matthews, K., Day, R., Ferreira, M. A., O'Dushlaine, C., Perlis, R., Raychaudhuri, S., Ruderfer, D., Hyoun, P. L., Smoller, J. W., Li, J., Absher, D., Thompson, R. C., Meng, F. G., Schatzberg, A. F., Bunney, W. E., Barchas, J. D., Jones, E. G., Watson, S. J., Myers, R. M., Akil, H., Boehnke, M., Chambert, K., Moran, J., Scolnick, E., Djurovic, S., Melle, I., Morken, G., Gill, M., Morris, D., Quinn, E., Muhleisen, T. W., Degenhardt, F. A., Mattheisen, M., Schumacher, J., Maier, W., Steffens, M., Propping, P., Nothen, M. M., Anjorin, A., Bass, N., Gurling, H., Kandaswamy, R., Lawrence, J., McGhee, K., McIntosh, A., McLean, A. W., Muir, W. J., Pickard, B. S., Breen, G., St Clair, D., Caesar, S., Gordon-Smith, K., Jones, L., Fraser, C., Green, E. K., Grozeva, D., Jones, I. R., Kirov, G., Moskvina, V., Nikolov, I., O'Donovan, M. C., Owen, M. J., Collier, D. A., Elkin, A., Williamson, R., Young, A. H., Ferrier, I. N., Stefansson, K., Stefansson, H., Thornorgeirsson, T., Steinberg, S., Gustafsson, O., Bergen, S. E., Nimgaonkar, V., Hultman, C., Landen, M., Lichtenstein, P., Sullivan, P., Schalling, M., Osby, U., Backlund, L., Frisen, L., Langstrom, N., Jamain, S., Leboyer, M., Etain, B., Bellivier, F., Petursson, H., Sigur Sson, E., Muller-Mysok, B., Lucae, S., Schwarz, M., Schofield, P. R., Martin, N., Montgomery, G. W., Lathrop, M., Oskarsson, H., Bauer, M., Wright, A., Mitchell, P. B., Hautzinger, M., Reif, A., Kelsoe, J. R., and Purcell, S. M. (2011) Large-scale genome-wide association analysis of bipolar disorder identifies a new susceptibility locus near ODZ4, *Nature genetics* 43, 977-983.
 18. Ruderfer, D. M., Chambert, K., Moran, J., Talkowski, M., Chen, E. S., Gigeck, C., Gusella, J. F., Blackwood, D. H., Corvin, A., Gurling, H. M., Hultman, C. M., Kirov, G., Magnusson, P., O'Donovan, M. C., Owen, M. J., Pato, C., St Clair, D., Sullivan, P. F., Purcell, S. M., Sklar, P., and Ernst, C. (2013) Mosaic copy number variation in schizophrenia, *European journal of human genetics : EJHG* 21, 1007-1011.
 19. Kenny, E. M., Cormican, P., Gilks, W. P., Gates, A. S., O'Dushlaine, C. T., Pinto, C., Corvin, A. P., Gill, M., and Morris, D. W. (2011) Multiplex target enrichment using

- DNA indexing for ultra-high throughput SNP detection, *DNA Res* 18, 31-38.
20. Runker, A. E., O'Tuathaigh, C., Dunleavy, M., Morris, D. W., Little, G. E., Corvin, A. P., Gill, M., Henshall, D. C., Waddington, J. L., and Mitchell, K. J. (2011) Mutation of Semaphorin-6A disrupts limbic and cortical connectivity and models neurodevelopmental psychopathology, *PLoS One* 6, e26488.
 21. Rose, E. J., Morris, D. W., Hargreaves, A., Fahey, C., Greene, C., Garavan, H., Gill, M., Corvin, A., and Donohoe, G. (2013) Neural effects of the CSMD1 genome-wide associated schizophrenia risk variant rs10503253, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 162B, 530-537.
 22. Donohoe, G., Walters, J., Morris, D. W., Da Costa, A., Rose, E., Hargreaves, A., Maher, K., Hayes, E., Giegling, I., Hartmann, A. M., Moller, H. J., Muglia, P., Moskvina, V., Owen, M. J., O'Donovan, M. C., Gill, M., Corvin, A., and Rujescu, D. (2011) A neuropsychological investigation of the genome wide associated schizophrenia risk variant NRG1 rs12807809, *Schizophrenia research* 125, 304-306.
 23. Donohoe, G., Walters, J., Morris, D. W., Da Costa, A., Rose, E., Hargreaves, A., Maher, K., Hayes, E., Giegling, I., Hartmann, A. M., Moller, H. J., Muglia, P., Moskvina, V., Owen, M. J., O'Donovan, M. C., Gill, M., Corvin, A., and Rujescu, D. (2011) A neuropsychological investigation of the genome wide associated schizophrenia risk variant NRG1 rs12807809, *Schizophr Res.* 2011 Feb;125(2-3):304-6. Epub 2010 Nov 26.
 24. O'Donoghue, T., Morris, D. W., Fahey, C., Da Costa, A., Foxe, J. J., Hoerold, D., Tropea, D., Gill, M., Corvin, A., and Donohoe, G. (2012) A NOS1 variant implicated in cognitive performance influences evoked neural responses during a high density EEG study of early visual perception, *Human brain mapping* 33, 1202-1211.
 25. Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The NOS1 variant rs6490121 is associated with variation in prefrontal function and grey matter density in healthy individuals, *NeuroImage* 60, 614-622.
 26. Hargreaves, A., Anney, R., O'Dushlaine, C., Nicodemus, K. K., Schizophrenia Psychiatric Genome-Wide Association Study, C., Wellcome Trust Case Control, C., Gill, M., Corvin, A., Morris, D., and Donohoe, G. (2013) The one and the many: effects of the cell adhesion molecule pathway on neuropsychological function in psychosis, *Psychological medicine*, 1-11.
 27. Walters, J. T., Rujescu, D., Franke, B., Giegling, I., Vasquez, A. A., Hargreaves, A., Russo, G., Morris, D. W., Hoogman, M., Da Costa, A., Moskvina, V., Fernandez, G., Gill, M., Corvin, A., O'Donovan, M. C., Donohoe, G., and Owen, M. J. (2013) The role of the major histocompatibility complex region in cognition and brain structure: a schizophrenia GWAS follow-up, *The American journal of psychiatry* 170, 877-885.
 28. Corvin, A. (2013) Schizophrenia at a genetics crossroads: where to now?, *Schizophrenia*

bulletin 39, 490-495.

29. Donohoe, G., Duignan, A., Hargreaves, A., Morris, D. W., Rose, E., Robertson, D., Cummings, E., Moore, S., Gill, M., and Corvin, A. (2012) Social cognition in bipolar disorder versus schizophrenia: comparability in mental state decoding deficits, *Bipolar disorders* 14, 743-748.
30. Robertson, D. A., Hargreaves, A., Kelleher, E. B., Morris, D., Gill, M., Corvin, A., and Donohoe, G. (2013) Social dysfunction in schizophrenia: an investigation of the GAF scale's sensitivity to deficits in social cognition, *Schizophrenia research* 146, 363-365.
31. Donohoe, G., Rose, E., Frodl, T., Morris, D., Spoletini, I., Adriano, F., Bernardini, S., Caltagirone, C., Bossu, P., Gill, M., Corvin, A. P., and Spalletta, G. (2011) ZNF804A risk allele is associated with relatively intact gray matter volume in patients with schizophrenia, *NeuroImage* 54, 2132-2137.

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1. Skelly, D. T., Hennessy, E., Dansereau, M. A., and Cunningham, C. (2013) A systematic analysis of the peripheral and CNS effects of systemic LPS, IL-1Beta, TNF-alpha and IL-6 challenges in C57BL/6 mice, *PLoS One* 8, e69123.
3. Murray, C. L., Obiang, P., Bannerman, D., and Cunningham, C. (2013) Endogenous IL-1 in cognitive function and anxiety: a study in IL-1RI^{-/-} mice, *PLoS One* 8, e78385.
4. Maclullich, A. M., Anand, A., Davis, D. H., Jackson, T., Barugh, A. J., Hall, R. J., Ferguson, K. J., Meagher, D. J., and Cunningham, C. (2013) New horizons in the pathogenesis, assessment and management of delirium, *Age Ageing* 42, 667-674.
5. Hilton, K. J., Cunningham, C., Reynolds, R. A., and Perry, V. H. (2013) Early Hippocampal Synaptic Loss Precedes Neuronal Loss and Associates with Early Behavioural Deficits in Three Distinct Strains of Prion Disease, *PLoS One* 8, e68062.
6. Griffin, E. W., Skelly, D. T., Murray, C. L., and Cunningham, C. (2013) Cyclooxygenase-1-dependent prostaglandins mediate susceptibility to systemic inflammation-induced acute cognitive dysfunction, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 33, 15248-15258.
8. Cunningham, C., Maclullich, A. M., and Cunningham, C. (2013) At the extreme end of the psychoneuroimmunological spectrum: delirium as a maladaptive sickness behaviour response. *Brain Behav Immun* 28, 1-13.
9. Cunningham, C. (2013) Microglia and neurodegeneration: the role of systemic inflammation, *Glia* 61, 71-90.
10. Sanderson, D. J., Rawlins, J. N., Deacon, R. M., Cunningham, C., Barkus, C., and Bannerman, D. M. (2012) Hippocampal lesions can enhance discrimination learning

- despite normal sensitivity to interference from incidental information, *Hippocampus* 22, 1553-1566.
14. Murray, C., Sanderson, D. J., Barkus, C., Deacon, R. M., Rawlins, J. N., Bannerman, D. M., and Cunningham, C. (2012) Systemic inflammation induces acute working memory deficits in the primed brain: relevance for delirium, *Neurobiol Aging* 33, 603-616 e603.
 15. Mhaolain, A. M., Gallagher, D., Crosby, L., Ryan, D., Lacey, L., Coen, R. F., Coakley, D., Walsh, J. B., Cunningham, C., and Lawlor, B. (2012) Frailty and quality of life for people with Alzheimer's dementia and mild cognitive impairment, *American journal of Alzheimer's disease and other dementias* 27, 48-54.
 18. Field, R. H., Gossen, A., and Cunningham, C. (2012) Prior pathology in the basal forebrain cholinergic system predisposes to inflammation-induced working memory deficits: reconciling inflammatory and cholinergic hypotheses of delirium, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 6288-6294.
 22. Davis, D. H., Muniz Terrera, G., Keage, H., Rahkonen, T., Oinas, M., Matthews, F. E., Cunningham, C., Polvikoski, T., Sulkava, R., MacLulich, A. M., and Brayne, C. (2012) Delirium is a strong risk factor for dementia in the oldest-old: a population-based cohort study, *Brain : a journal of neurology* 135, 2809-2816.
 24. Cunningham, C., and Skelly, D. T. (2012) Non-steroidal anti-inflammatory drugs and cognitive function: are prostaglandins at the heart of cognitive impairment in dementia and delirium?, *Journal of neuroimmune pharmacology : the official journal of the Society on NeuroImmune Pharmacology* 7, 60-73.
 27. Ni Mhaolain, A. M., Gallagher, D., Crosby, L., Ryan, D., Lacey, L., Coen, R., Bruce, I., Walsh, J. B., Cunningham, C., and Lawlor, B. A. (2011) Correlates of frailty in Alzheimer's disease and mild cognitive impairment, *Age Ageing* 40, 630-633.
 28. Murray, C. L., Skelly, D. T., and Cunningham, C. (2011) Exacerbation of CNS inflammation and neurodegeneration by systemic LPS treatment is independent of circulating IL-1beta and IL-6, *Journal of neuroinflammation* 8, 50.
 29. Munster, B. C., Aronica, E., Zwinderman, A. H., Eikelenboom, P., Cunningham, C., and Rooij, S. E. (2011) Neuroinflammation in delirium: a postmortem case-control study, *Rejuvenation Res* 14, 615-622.
 30. MacLulich, A. M., Edelshain, B. T., Hall, R. J., de Vries, A., Howie, S. E., Pearson, A., Middleton, S. D., Gillies, F., Armstrong, I. R., White, T. O., Cunningham, C., de Rooij, S. E., and van Munster, B. C. (2011) Cerebrospinal fluid interleukin-8 levels are higher in people with hip fracture with perioperative delirium than in controls, *Journal of the American Geriatrics Society* 59, 1151-1153.
 31. Gallagher, D., Ni Mhaolain, A., Crosby, L., Ryan, D., Lacey, L., Coen, R. F., Walsh, C., Coakley, D., Walsh, J. B., Cunningham, C., and Lawlor, B. A. (2011) Dependence and

- caregiver burden in Alzheimer's disease and mild cognitive impairment, *American journal of Alzheimer's disease and other dementias* 26, 110-114.
32. Gallagher, D., Ni Mhaolain, A., Crosby, L., Ryan, D., Lacey, L., Coen, R. F., Walsh, C., Coakley, D., Walsh, J. B., Cunningham, C., and Lawlor, B. A. (2011) Determinants of the desire to institutionalize in Alzheimer's caregivers, *American journal of Alzheimer's disease and other dementias* 26, 205-211.
 33. Gallagher, D., Ni Mhaolain, A., Crosby, L., Ryan, D., Lacey, L., Coen, R. F., Walsh, C., Coakley, D., Walsh, J. B., Cunningham, C., and Lawlor, B. A. (2011) Self-efficacy for managing dementia may protect against burden and depression in Alzheimer's caregivers, *Aging & mental health* 15, 663-670.
 34. Gallagher, D., Coen, R., Kilroy, D., Belinski, K., Bruce, I., Coakley, D., Walsh, B., Cunningham, C., and Lawlor, B. A. (2011) Anxiety and behavioural disturbance as markers of prodromal Alzheimer's disease in patients with mild cognitive impairment, *International journal of geriatric psychiatry* 26, 166-172.
 37. Cunningham, C. (2011) Systemic inflammation and delirium: important co-factors in the progression of dementia, *Biochemical Society transactions* 39, 945-953.

Gavin Davey

1. Min, S., Meehan, J., Sullivan, L. M., Harte, N. P., Xie, Y., Davey, G. P., Svanborg, C., Brodkorb, A., and Mok, K. H. (2012) Alternatively folded proteins with unexpected beneficial functions, *Biochemical Society transactions* 40, 746-751.
2. Artemenko, N. V., McDonald, A. G., Davey, G. P., and Rudd, P. M. (2012) Databases and tools in glycobiology, *Methods in molecular biology (Clifton, N.J.)* 899, 325-350.
3. Heales, S. J., Menzes, A., and Davey, G. P. (2011) Depletion of glutathione does not affect electron transport chain complex activity in brain mitochondria: Implications for Parkinson disease and postmortem studies, *Free Radic Biol Med* 50, 899-902.
4. Kilbride, S. M., Gluchowska, S. A., Telford, J. E., O'Sullivan, C., and Davey, G. P. (2011) High-level inhibition of mitochondrial complexes III and IV is required to increase glutamate release from the nerve terminal, *Mol Neurodegener* 6, 53.
5. Tipton, K. F., Davey, G. P., and McDonald, A. G. (2011) Kinetic behavior and reversible inhibition of monoamine oxidases--enzymes that many want dead, *Int Rev Neurobiol* 100, 43-64.
6. Davey, G. P., Bolanos, J. P., Min, S., Meehan, J., Sullivan, L. M., Harte, N. P., Xie, Y., Davey, G. P., Svanborg, C., Brodkorb, A., Mok, K. H., Artemenko, N. V., McDonald, A. G., Davey, G. P., and Rudd, P. M. (2013) Peroxiredoxin 5 links mitochondrial redox signalling with calcium dynamics: impact on Parkinson's disease. *Journal of neurochemistry* 125, 332-333.

Kumlesh Dev

1. O'Sullivan, C., and Dev, K. K. (2013) The structure and function of the S1P1 receptor, *Trends in pharmacological sciences* 34, 401-412.
2. O'Connell, K., Thakore, J., and Dev, K. K. (2013) Levels of S100B are raised in female patients with schizophrenia, *BMC psychiatry* 13, 146.
3. Healy, L. M., Sheridan, G. K., Pritchard, A. J., Rutkowska, A., Mullershausen, F., and Dev, K. K. (2013) Pathway specific modulation of S1P1 receptor signalling in rat and human astrocytes, *British journal of pharmacology* 169, 1114-1129.
4. Frei, P., and Dev, K. K. (2013) Drug dealers: \$20 trillion of in-licensing payments, *Drug discovery today* 18, 1027-1029.
5. Doucet, M. V., Levine, H., Dev, K. K., and Harkin, A. (2013) Small-molecule inhibitors at the PSD-95/nNOS interface have antidepressant-like properties in mice, *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology* 38, 1575-1584.
6. Sheridan, G. K., and Dev, K. K. (2012) S1P1 receptor subtype inhibits demyelination and regulates chemokine release in cerebellar slice cultures, *Glia* 60, 382-392.
7. Doucet, M. V., Harkin, A., and Dev, K. K. (2012) The PSD-95/nNOS complex: new drugs for depression?, *Pharmacology & therapeutics* 133, 218-229.
8. Bolia, A., Gerek, Z. N., Keskin, O., Banu Ozkan, S., and Dev, K. K. (2012) The binding affinities of proteins interacting with the PDZ domain of PICK1, *Proteins* 80, 1393-1408.
9. Rieker, C., Dev, K. K., Lehnhoff, K., Barbieri, S., Ksiazek, I., Kauffmann, S., Danner, S., Schell, H., Boden, C., Ruegg, M. A., Kahle, P. J., van der Putten, H., and Shimshek, D. R. (2011) Neuropathology in mice expressing mouse alpha-synuclein, *PLoS One* 6, e24834.

Paul Dockree

1. O'Connell, R. G., Dockree, P. M., and Kelly, S. P. (2012) A supramodal accumulation-to-bound signal that determines perceptual decisions in humans, *Nature neuroscience* 15, 1729-1735.
2. Dockree, P. M., and Robertson, I. H. (2011) Electrophysiological markers of cognitive deficits in traumatic brain injury: a review, *International journal of psychophysiology : official journal of the International Organization of Psychophysiology* 82, 53-60.

Gary Donohue

1. Walters, J. T., Rujescu, D., Franke, B., Giegling, I., Vasquez, A. A., Hargreaves, A., Russo, G., Morris, D. W., Hoogman, M., Da Costa, A., Moskvina, V., Fernandez, G., Gill, M., Corvin, A., O'Donovan, M. C., Donohue, G., and Owen, M. J. (2013) The role of the major histocompatibility complex region in cognition and brain structure: a

- schizophrenia GWAS follow-up, *The American journal of psychiatry* 170, 877-885.
2. Thong, J. Y., Qiu, A., Sum, M. Y., Kuswanto, C. N., Tuan, T. A., Donohoe, G., Sitoh, Y. Y., and Sim, K. (2013) Effects of the neurogranin variant rs12807809 on thalamocortical morphology in schizophrenia, *PLoS One* 8, e85603.
 3. Rose, E. J., Morris, D. W., Hargreaves, A., Fahey, C., Greene, C., Garavan, H., Gill, M., Corvin, A., and Donohoe, G. (2013) Neural effects of the CSMD1 genome-wide associated schizophrenia risk variant rs10503253, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 162B, 530-537.
 4. Rose, E. J., and Donohoe, G. (2013) Brain vs behavior: an effect size comparison of neuroimaging and cognitive studies of genetic risk for schizophrenia, *Schizophrenia bulletin* 39, 518-526.
 5. Robertson, D. A., Hargreaves, A., Kelleher, E. B., Morris, D., Gill, M., Corvin, A., and Donohoe, G. (2013) Social dysfunction in schizophrenia: an investigation of the GAF scale's sensitivity to deficits in social cognition, *Schizophrenia research* 146, 363-365.
 6. Morris, M., Donohoe, G., Hennessy, M., and C, O. C. (2013) Pro forma: impact on communication skills?, *The clinical teacher* 10, 318-322.
 7. McCarthy, H., Skokauskas, N., Mulligan, A., Donohoe, G., Mullins, D., Kelly, J., Johnson, K., Fagan, A., Gill, M., Meaney, J., and Frodl, T. (2013) Attention network hypoconnectivity with default and affective network hyperconnectivity in adults diagnosed with attention-deficit/hyperactivity disorder in childhood, *JAMA psychiatry* 70, 1329-1337.
 8. Hargreaves, A., Anney, R., O'Dushlaine, C., Nicodemus, K. K., Schizophrenia Psychiatric Genome-Wide Association Study, C., Wellcome Trust Case Control, C., Gill, M., Corvin, A., Morris, D., and Donohoe, G. (2013) The one and the many: effects of the cell adhesion molecule pathway on neuropsychological function in psychosis, *Psychological medicine*, 1-11.
 9. Cross-Disorder Group of the Psychiatric Genomics, C., Lee, S. H., Ripke, S., Neale, B. M., Faraone, S. V., Purcell, S. M., Perlis, R. H., Mowry, B. J., Thapar, A., Goddard, M. E., Witte, J. S., Absher, D., Agartz, I., Akil, H., Amin, F., Andreassen, O. A., Anjorin, A., Anney, R., Anttila, V., Arking, D. E., Asherson, P., Azevedo, M. H., Backlund, L., Badner, J. A., Bailey, A. J., Banaschewski, T., Barchas, J. D., Barnes, M. R., Barrett, T. B., Bass, N., Battaglia, A., Bauer, M., Bayes, M., Bellivier, F., Bergen, S. E., Berrettini, W., Betancur, C., Bettecken, T., Biederman, J., Binder, E. B., Black, D. W., Blackwood, D. H., Bloss, C. S., Boehnke, M., Boomsma, D. I., Breen, G., Breuer, R., Bruggeman, R., Cormican, P., Buccola, N. G., Buitelaar, J. K., Bunney, W. E., Buxbaum, J. D., Byerley, W. F., Byrne, E. M., Caesar, S., Cahn, W., Cantor, R. M., Casas, M., Chakravarti, A., Chambert, K., Choudhury, K., Cichon, S., Cloninger, C. R., Collier, D. A., Cook, E. H., Coon, H., Cormand, B., Corvin, A., Coryell, W. H., Craig, D. W., Craig, I. W., Crosbie, J., Cuccaro, M. L., Curtis, D., Czamara, D., Datta, S., Dawson, G., Day, R., De Geus, E. J., Degenhardt, F., Djurovic, S., Donohoe, G. J., Doyle, A. E., Duan, J., Dudbridge, F., Duketis, E., Ebstein, R. P., Edenberg, H. J., Elia, J., Ennis, S., Etain, B., Fanous, A.,

Farmer, A. E., Ferrier, I. N., Flickinger, M., Fombonne, E., Foroud, T., Frank, J., Franke, B., Fraser, C., Freedman, R., Freimer, N. B., Freitag, C. M., Friedl, M., Frisen, L., Gallagher, L., Gejman, P. V., Georgieva, L., Gershon, E. S., Geschwind, D. H., Giegling, I., Gill, M., Gordon, S. D., Gordon-Smith, K., Green, E. K., Greenwood, T. A., Grice, D. E., Gross, M., Grozeva, D., Guan, W., Gurling, H., De Haan, L., Haines, J. L., Hakonarson, H., Hallmayer, J., Hamilton, S. P., Hamshere, M. L., Hansen, T. F., Hartmann, A. M., Hautzinger, M., Heath, A. C., Henders, A. K., Herms, S., Hickie, I. B., Hipolito, M., Hoefels, S., Holmans, P. A., Holsboer, F., Hoogendijk, W. J., Hottenga, J. J., Hultman, C. M., Hus, V., Ingason, A., Ising, M., Jamain, S., Jones, E. G., Jones, I., Jones, L., Tzeng, J. Y., Kahler, A. K., Kahn, R. S., Kandaswamy, R., Keller, M. C., Kennedy, J. L., Kenny, E., Kent, L., Kim, Y., Kirov, G. K., Klauck, S. M., Klei, L., Knowles, J. A., Kohli, M. A., Koller, D. L., Konte, B., Korszun, A., Krabbendam, L., Krasucki, R., Kuntsi, J., Kwan, P., Landen, M., Langstrom, N., Lathrop, M., Lawrence, J., Lawson, W. B., Leboyer, M., Ledbetter, D. H., Lee, P. H., Lencz, T., Lesch, K. P., Levinson, D. F., Lewis, C. M., Li, J., Lichtenstein, P., Lieberman, J. A., Lin, D. Y., Linszen, D. H., Liu, C., Lohoff, F. W., Loo, S. K., Lord, C., Lowe, J. K., Lucae, S., MacIntyre, D. J., Madden, P. A., Maestrini, E., Magnusson, P. K., Mahon, P. B., Maier, W., Malhotra, A. K., Mane, S. M., Martin, C. L., Martin, N. G., Mattheisen, M., Matthews, K., Mattingsdal, M., McCarroll, S. A., McGhee, K. A., McGough, J. J., McGrath, P. J., McGuffin, P., McInnis, M. G., McIntosh, A., McKinney, R., McLean, A. W., McMahon, F. J., McMahon, W. M., McQuillin, A., Medeiros, H., Medland, S. E., Meier, S., Melle, I., Meng, F., Meyer, J., Middeldorp, C. M., Middleton, L., Milanova, V., Miranda, A., Monaco, A. P., Montgomery, G. W., Moran, J. L., Moreno-De-Luca, D., Morken, G., Morris, D. W., Morrow, E. M., Moskvina, V., Muglia, P., Muhleisen, T. W., Muir, W. J., Muller-Myhsok, B., Murtha, M., Myers, R. M., Myin-Germeys, I., Neale, M. C., Nelson, S. F., Nievergelt, C. M., Nikolov, I., Nimgaonkar, V., Nolen, W. A., Nothen, M. M., Nurnberger, J. I., Nwulia, E. A., Nyholt, D. R., O'Dushlaine, C., Oades, R. D., Olincy, A., Oliveira, G., Olsen, L., Ophoff, R. A., Osby, U., Owen, M. J., Palotie, A., Parr, J. R., Paterson, A. D., Pato, C. N., Pato, M. T., Penninx, B. W., Pergadia, M. L., Pericak-Vance, M. A., Pickard, B. S., Pimm, J., Piven, J., Posthuma, D., Potash, J. B., Poustka, F., Propping, P., Puri, V., Quedsted, D. J., Quinn, E. M., Ramos-Quiroga, J. A., Rasmussen, H. B., Raychaudhuri, S., Rehnstrom, K., Reif, A., Ribases, M., Rice, J. P., Rietschel, M., Roeder, K., Roeyers, H., Rossin, L., Rothenberger, A., Rouleau, G., Ruderfer, D., Rujescu, D., Sanders, A. R., Sanders, S. J., Santangelo, S. L., Sergeant, J. A., Schachar, R., Schalling, M., Schatzberg, A. F., Scheftner, W. A., Schellenberg, G. D., Scherer, S. W., Schork, N. J., Schulze, T. G., Schumacher, J., Schwarz, M., Scolnick, E., Scott, L. J., Shi, J., Shilling, P. D., Shyn, S. I., Silverman, J. M., Slager, S. L., Smalley, S. L., Smit, J. H., Smith, E. N., Sonuga-Barke, E. J., St Clair, D., State, M., Steffens, M., Steinhausen, H. C., Strauss, J. S., Strohmaier, J., Stroup, T. S., Sutcliffe, J. S., Szatmari, P., Szelinger, S., Thirumalai, S., Thompson, R. C., Todorov, A. A., Tozzi, F., Treutlein, J., Uhr, M., van den Oord, E. J., Van Grootheest, G., Van Os, J., Vicente, A. M., Vieland, V. J., Vincent, J. B., Visscher, P. M., Walsh, C. A., Wassink, T. H., Watson, S. J., Weissman, M. M., Werge, T., Wienker, T. F., Wijsman, E. M., Willemsen, G., Williams, N., Willsey, A. J., Witt, S. H., Xu, W., Young, A. H., Yu, T. W., Zammit, S., Zandi, P. P., Zhang, P., Zitman, F. G., Zollner, S., International Inflammatory Bowel Disease

- Genetics, C., Devlin, B., Kelsoe, J. R., Sklar, P., Daly, M. J., O'Donovan, M. C., Craddock, N., Sullivan, P. F., Smoller, J. W., Kendler, K. S., and Wray, N. R. (2013) Genetic relationship between five psychiatric disorders estimated from genome-wide SNPs, *Nature genetics* 45, 984-994.
10. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H., Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., Hardiman, O., Teipel, S. J., Wegrzyn, M., Meindl, T., Frisoni, G., Bokde, A. L., Fellgiebel, A., Filippi, M., Hampel, H., Kloppel, S., Hauenstein, K., Ewers, M., Kehoe, E. G., Toomey, J. M., Balsters, J. H., Bokde, A. L., Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., Donohoe, G., O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, R., Coughlan, T., Prvulovic, D., and Hampel, H. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging study of ALS motor phenotype heterogeneity and cortical focality. *J Neurol Neurosurg Psychiatry* 84, 766-773.
 11. Stein, J. L., Medland, S. E., Vasquez, A. A., Hibar, D. P., Senstad, R. E., Winkler, A. M., Toro, R., Appel, K., Bartecek, R., Bergmann, O., Bernard, M., Brown, A. A., Cannon, D. M., Chakravarty, M. M., Christoforou, A., Domin, M., Grimm, O., Hollinshead, M., Holmes, A. J., Homuth, G., Hottenga, J. J., Langan, C., Lopez, L. M., Hansell, N. K., Hwang, K. S., Kim, S., Laje, G., Lee, P. H., Liu, X., Loth, E., Lourdusamy, A., Mattingsdal, M., Mohnke, S., Maniega, S. M., Nho, K., Nugent, A. C., O'Brien, C., Papmeyer, M., Putz, B., Ramasamy, A., Rasmussen, J., Rijpkema, M., Risacher, S. L., Roddey, J. C., Rose, E. J., Ryten, M., Shen, L., Sprooten, E., Strengman, E., Teumer, A., Trabzuni, D., Turner, J., van Eijk, K., van Erp, T. G., van Tol, M. J., Wittfeld, K., Wolf, C., Woudstra, S., Aleman, A., Alhusaini, S., Almasy, L., Binder, E. B., Brohawn, D. G., Cantor, R. M., Carless, M. A., Corvin, A., Cizsch, M., Curran, J. E., Davies, G., de Almeida, M. A., Delanty, N., Depondt, C., Duggirala, R., Dyer, T. D., Erk, S., Fagerness, J., Fox, P. T., Freimer, N. B., Gill, M., Goring, H. H., Hagler, D. J., Hoehn, D., Holsboer, F., Hoogman, M., Hosten, N., Jahanshad, N., Johnson, M. P., Kasperaviciute, D., Kent, J. W., Jr., Kochunov, P., Lancaster, J. L., Lawrie, S. M., Liewald, D. C., Mandl, R., Matarin, M., Mattheisen, M., Meisenzahl, E., Melle, I., Moses, E. K., Muhleisen, T. W., Nauck, M., Nothen, M. M., Olvera, R. L., Pandolfo, M., Pike, G. B., Puls, R., Reinvang, I., Renteria, M. E., Rietschel, M., Roffman, J. L., Royle, N. A., Rujescu, D., Savitz, J., Schnack, H. G., Schnell, K., Seiferth, N., Smith, C., Steen, V. M., Valdes Hernandez, M. C., Van den Heuvel, M., van der Wee, N. J., Van Haren, N. E., Veltman, J. A., Volzke, H., Walker, R., Westlye, L. T., Whelan, C. D., Agartz, I., Boomsma, D. I., Cavalleri, G. L., Dale, A. M., Djurovic, S., Drevets, W. C., Hagoort, P., Hall, J., Heinz, A., Jack, C. R., Jr., Foroud, T. M., Le Hellard, S., Macciardi, F., Montgomery, G. W., Poline, J. B., Porteous, D. J., Sisodiya, S. M., Starr, J. M., Sussmann, J., Toga, A. W., Veltman, D. J., Walter, H., Weiner, M. W., Alzheimer's Disease Neuroimaging, I., Consortium, E., Consortium, I., Saguenay Youth Study, G., Bis, J. C., Ikram, M. A., Smith, A. V., Gudnason, V., Tzourio, C., Vernooij, M. W., Launer, L. J., DeCarli, C., Seshadri, S., Cohorts for, H., Aging Research in Genomic Epidemiology, C., Andreassen, O. A., Apostolova, L. G., Bastin, M. E., Blangero, J., Brunner, H. G., Buckner, R. L., Cichon, S., Coppola, G., de Zubicaray, G. I., Deary, I. J., Donohoe, G., de Geus, E. J., Espeseth,

- T., Fernandez, G., Glahn, D. C., Grabe, H. J., Hardy, J., Hulshoff Pol, H. E., Jenkinson, M., Kahn, R. S., McDonald, C., McIntosh, A. M., McMahon, F. J., McMahon, K. L., Meyer-Lindenberg, A., Morris, D. W., Muller-Myhsok, B., Nichols, T. E., Ophoff, R. A., Paus, T., Pausova, Z., Penninx, B. W., Potkin, S. G., Samann, P. G., Saykin, A. J., Schumann, G., Smoller, J. W., Wardlaw, J. M., Weale, M. E., Martin, N. G., Franke, B., Wright, M. J., Thompson, P. M., and Enhancing Neuro Imaging Genetics through Meta-Analysis, C. (2012) Identification of common variants associated with human hippocampal and intracranial volumes, *Nature genetics* 44, 552-561.
12. Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The effect of the neurogranin schizophrenia risk variant rs12807809 on brain structure and function, *Twin research and human genetics : the official journal of the International Society for Twin Studies* 15, 296-303.
 13. Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The NOS1 variant rs6490121 is associated with variation in prefrontal function and grey matter density in healthy individuals, *NeuroImage* 60, 614-622.
 14. Pertl, M. M., Hevey, D., Donohoe, G., and Collier, S. (2012) Assessing patients' beliefs about their cancer-related fatigue: validation of an adapted version of the Illness Perception Questionnaire, *Journal of clinical psychology in medical settings* 19, 293-307.
 15. O'Donoghue, T., Morris, D. W., Fahey, C., Da Costa, A., Foxe, J. J., Hoerold, D., Tropea, D., Gill, M., Corvin, A., and Donohoe, G. (2012) A NOS1 variant implicated in cognitive performance influences evoked neural responses during a high density EEG study of early visual perception, *Human brain mapping* 33, 1202-1211.
 16. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R., Upton, N., Robertson, I. H., Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., Donohoe, G., Bartley, M., Bokde, A. L., O'Neill, D., Kehoe, E. G., Toomey, J. M., Balsters, J. H., and Bokde, A. L. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect. *Neurobiol Aging* 33, 2448-2461.
 17. Mothersill, O., Kelly, S., Rose, E. J., and Donohoe, G. (2012) The effects of psychosis risk variants on brain connectivity: a review, *Frontiers in psychiatry* 3, 18.
 18. Gilks, W. P., Hill, M., Gill, M., Donohoe, G., Corvin, A. P., and Morris, D. W. (2012) Functional investigation of a schizophrenia GWAS signal at the CDC42 gene, *The world journal of biological psychiatry : the official journal of the World Federation of Societies of Biological Psychiatry* 13, 550-554.
 19. Donohoe, G., Duignan, A., Hargreaves, A., Morris, D. W., Rose, E., Robertson, D., Cummings, E., Moore, S., Gill, M., and Corvin, A. (2012) Social cognition in bipolar disorder versus schizophrenia: comparability in mental state decoding deficits, *Bipolar disorders* 14, 743-748.

20. Corvin, A. P., Molinos, I., Little, G., Donohoe, G., Gill, M., Morris, D. W., and Tropea, D. (2012) Insulin-like growth factor 1 (IGF1) and its active peptide (1-3)IGF1 enhance the expression of synaptic markers in neuronal circuits through different cellular mechanisms, *Neuroscience letters* 520, 51-56.
21. Bermingham, R., Carballedo, A., Lisiecka, D., Fagan, A., Morris, D., Fahey, C., Donohoe, G., Meaney, J., Gill, M., and Frodl, T. (2012) Effect of genetic variant in BICC1 on functional and structural brain changes in depression, *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology* 37, 2855-2862.
22. Ripke, S., Sanders, A. R., Kendler, K. S., Levinson, D. F., Sklar, P., Holmans, P. A., Lin, D. Y., Duan, J., Ophoff, R. A., Andreassen, O. A., Scolnick, E., Cichon, S., St Clair, D., Corvin, A., Gurling, H., Werge, T., Rujescu, D., Blackwood, D. H., Pato, C. N., Malhotra, A. K., Purcell, S., Dudbridge, F., Neale, B. M., Rossin, L., Visscher, P. M., Posthuma, D., Ruderfer, D. M., Fanous, A., Stefansson, H., Steinberg, S., Mowry, B. J., Golimbet, V., De Hert, M., Jonsson, E. G., Bitter, I., Pietilainen, O. P., Collier, D. A., Tosato, S., Agartz, I., Albus, M., Alexander, M., Amdur, R. L., Amin, F., Bass, N., Bergen, S. E., Black, D. W., Borglum, A. D., Brown, M. A., Bruggeman, R., Buccola, N. G., Byerley, W. F., Cahn, W., Cantor, R. M., Carr, V. J., Catts, S. V., Choudhury, K., Cloninger, C. R., Cormican, P., Craddock, N., Danoy, P. A., Datta, S., de Haan, L., Demontis, D., Dikeos, D., Djurovic, S., Donnelly, P., Donohoe, G., Duong, L., Dwyer, S., Fink-Jensen, A., Freedman, R., Freimer, N. B., Friedl, M., Georgieva, L., Giegling, I., Gill, M., Glenthøj, B., Godard, S., Hamshere, M., Hansen, M., Hansen, T., Hartmann, A. M., Henskens, F. A., Hougaard, D. M., Hultman, C. M., Ingason, A., Jablensky, A. V., Jakobsen, K. D., Jay, M., Jurgens, G., Kahn, R. S., Keller, M. C., Kenis, G., Kenny, E., Kim, Y., Kirov, G. K., Konnerth, H., Konte, B., Krabbendam, L., Krasucki, R., Lasseter, V. K., Laurent, C., Lawrence, J., Lencz, T., Lerer, F. B., Liang, K. Y., Lichtenstein, P., Lieberman, J. A., Linszen, D. H., Lonnqvist, J., Loughland, C. M., Maclean, A. W., Maher, B. S., Maier, W., Mallet, J., Malloy, P., Mattheisen, M., Mattingsdal, M., McGhee, K. A., McGrath, J. J., McIntosh, A., McLean, D. E., McQuillin, A., Melle, I., Michie, P. T., Milanova, V., Morris, D. W., Mors, O., Mortensen, P. B., Moskvina, V., Muglia, P., Myin-Germeys, I., Nertney, D. A., Nestadt, G., Nielsen, J., Nikolov, I., Nordentoft, M., Norton, N., Nothen, M. M., O'Dushlaine, C. T., Olincy, A., Olsen, L., O'Neill, F. A., Orntoft, T. F., Owen, M. J., Pantelis, C., Papadimitriou, G., Pato, M. T., Peltonen, L., Petursson, H., Pickard, B., Pimm, J., Pulver, A. E., Puri, V., Queded, D., Quinn, E. M., Rasmussen, H. B., Rethelyi, J. M., Ribble, R., Rietschel, M., Riley, B. P., Ruggeri, M., Schall, U., Schulze, T. G., Schwab, S. G., Scott, R. J., Shi, J., Sigurdsson, E., Silverman, J. M., Spencer, C. C., Stefansson, K., Strange, A., Strengman, E., Stroup, T. S., Suvisaari, J., Terenius, L., Thirumalai, S., Thygesen, J. H., Timm, S., Toncheva, D., van den Oord, E., van Os, J., van Winkel, R., Veldink, J., Walsh, D., Wang, A. G., Wiersma, D., Wildenauer, D. B., Williams, H. J., Williams, N. M., Wormley, B., Zammit, S., Sullivan, P. F., O'Donovan, M. C., Daly, M. J., and Gejman, P. V. (2011) Genome-wide association study identifies five new schizophrenia loci, *Nature genetics* 43, 969-976.
23. Donohoe, G., Walters, J., Morris, D. W., Da Costa, A., Rose, E., Hargreaves, A., Maher,

- K., Hayes, E., Giegling, I., Hartmann, A. M., Moller, H. J., Muglia, P., Moskvina, V., Owen, M. J., O'Donovan, M. C., Gill, M., Corvin, A., and Rujescu, D. (2011) A neuropsychological investigation of the genome wide associated schizophrenia risk variant *NRGN rs12807809*, *Schizophr Res.* 2011 Feb;125(2-3):304-6. Epub 2010 Nov 26.
24. Donohoe, G., Walters, J., Morris, D. W., Da Costa, A., Rose, E., Hargreaves, A., Maher, K., Hayes, E., Giegling, I., Hartmann, A. M., Moller, H. J., Muglia, P., Moskvina, V., Owen, M. J., O'Donovan, M. C., Gill, M., Corvin, A., and Rujescu, D. (2011) A neuropsychological investigation of the genome wide associated schizophrenia risk variant *NRGN rs12807809*, *Schizophrenia research* 125, 304-306.
25. Donohoe, G., Rose, E., Frodl, T., Morris, D., Spoletini, I., Adriano, F., Bernardini, S., Caltagirone, C., Bossu, P., Gill, M., Corvin, A. P., and Spalletta, G. (2011) *ZNF804A* risk allele is associated with relatively intact gray matter volume in patients with schizophrenia, *NeuroImage* 54, 2132-2137.

Jane Farrar

1. Morgan, C. P., Allen, D. S., Millington-Ward, S., O'Dwyer, G. E., Palfi, A., and Farrar, G. J. (2013) A mutation-independent therapeutic strategy for dominant dystrophic epidermolysis bullosa, *The Journal of investigative dermatology* 133, 2793-2796.
2. Farrar, G. J., Chadderton, N., Kenna, P. F., and Millington-Ward, S. (2013) Mitochondrial disorders: aetiologies, models systems, and candidate therapies, *Trends in genetics : TIG* 29, 488-497.
3. Egan, C. M., Nyman, U., Skotte, J., Streubel, G., Turner, S., O'Connell, D. J., Rrakli, V., Dolan, M. J., Chadderton, N., Hansen, K., Farrar, G. J., Helin, K., Holmberg, J., and Bracken, A. P. (2013) *CHD5* is required for neurogenesis and has a dual role in facilitating gene expression and polycomb gene repression, *Developmental cell* 26, 223-236.
4. Chadderton, N., Palfi, A., Millington-Ward, S., Gobbo, O., Overlack, N., Carrigan, M., O'Reilly, M., Campbell, M., Ehrhardt, C., Wolfrum, U., Humphries, P., Kenna, P. F., and Farrar, G. J. (2013) Intravitreal delivery of AAV-NDI1 provides functional benefit in a murine model of Leber hereditary optic neuropathy, *European journal of human genetics : EJHG* 21, 62-68.
5. Tam, L. C., Kiang, A. S., Campbell, M., Keaney, J., Farrar, G. J., Humphries, M. M., Kenna, P. F., and Humphries, P. (2012) Protein misfolding and potential therapeutic treatments in inherited retinopathies, *Advances in experimental medicine and biology* 723, 567-572.
6. Palfi, A., Chadderton, N., McKee, A. G., Blanco Fernandez, A., Humphries, P., Kenna, P. F., and Farrar, G. J. (2012) Efficacy of codelivery of dual AAV2/5 vectors in the murine retina and hippocampus, *Human gene therapy* 23, 847-858.
7. Humphries, M. M., Kenna, P. F., Campbell, M., Tam, L. C., Nguyen, A. T., Farrar, G. J., Botto, M., Kiang, A. S., and Humphries, P. (2012) *C1q* enhances cone photoreceptor

- survival in a mouse model of autosomal recessive retinitis pigmentosa, *European journal of human genetics : EJHG* 20, 64-68.
8. Farrar, G. J., Millington-Ward, S., Chadderton, N., Humphries, P., and Kenna, P. F. (2012) Gene-based therapies for dominantly inherited retinopathies, *Gene therapy* 19, 137-144.
 9. Doyle, S. L., Campbell, M., Ozaki, E., Salomon, R. G., Mori, A., Kenna, P. F., Farrar, G. J., Kiang, A. S., Humphries, M. M., Lavelle, E. C., O'Neill, L. A., Hollyfield, J. G., and Humphries, P. (2012) NLRP3 has a protective role in age-related macular degeneration through the induction of IL-18 by drusen components, *Nature medicine* 18, 791-798.
 10. Millington-Ward, S., Chadderton, N., O'Reilly, M., Palfi, A., Goldmann, T., Kilty, C., Humphries, M., Wolfrum, U., Bennett, J., Humphries, P., Kenna, P. F., and Farrar, G. J. (2011) Suppression and replacement gene therapy for autosomal dominant disease in a murine model of dominant retinitis pigmentosa, *Molecular therapy : the journal of the American Society of Gene Therapy* 19, 642-649.
 11. Campbell, M., Humphries, M. M., Kiang, A. S., Nguyen, A. T., Gobbo, O. L., Tam, L. C., Suzuki, M., Hanrahan, F., Ozaki, E., Farrar, G. J., Kenna, P. F., and Humphries, P. (2011) Systemic low-molecular weight drug delivery to pre-selected neuronal regions, *EMBO molecular medicine* 3, 235-245.
 12. Bowne, S. J., Humphries, M. M., Sullivan, L. S., Kenna, P. F., Tam, L. C., Kiang, A. S., Campbell, M., Weinstock, G. M., Koboldt, D. C., Ding, L., Fulton, R. S., Sodergren, E. J., Allman, D., Millington-Ward, S., Palfi, A., McKee, A., Blanton, S. H., Slifer, S., Konidari, I., Farrar, G. J., Daiger, S. P., and Humphries, P. (2011) A dominant mutation in RPE65 identified by whole-exome sequencing causes retinitis pigmentosa with choroidal involvement, *European journal of human genetics : EJHG* 19, 1074-1081.

Thomas Frodl

1. Skokauskas, N., Hitoshi, K., Shuji, H., and Frodl, T. (2013) Neuroimaging markers for the prediction of treatment response to Methylphenidate in ADHD, *European journal of paediatric neurology : EJPN : official journal of the European Paediatric Neurology Society* 17, 543-551.
2. O'Neill, A., D'Souza, A., Carballedo, A., Joseph, S., Kerskens, C., and Frodl, T. (2013) Magnetic resonance imaging in patients with borderline personality disorder: a study of volumetric abnormalities, *Psychiatry Res* 213, 1-10.
3. McCarthy, H., Skokauskas, N., Mulligan, A., Donohoe, G., Mullins, D., Kelly, J., Johnson, K., Fagan, A., Gill, M., Meaney, J., and Frodl, T. (2013) Attention network hypoconnectivity with default and affective network hyperconnectivity in adults diagnosed with attention-deficit/hyperactivity disorder in childhood, *JAMA psychiatry* 70, 1329-1337.
4. Lisiecka, D. M., Carballedo, A., Fagan, A. J., Ferguson, Y., Meaney, J., and Frodl, T. (2013) Recruitment of the left hemispheric emotional attention neural network in risk for and protection from depression, *Journal of psychiatry & neuroscience : JPN* 38, 117-128.

5. Koutsouleris, N., Davatzikos, C., Borgwardt, S., Gaser, C., Bottlender, R., Frodl, T., Falkai, P., Riecher-Rossler, A., Moller, H. J., Reiser, M., Pantelis, C., and Meisenzahl, E. (2013) Accelerated Brain Aging in Schizophrenia and Beyond: A Neuroanatomical Marker of Psychiatric Disorders, *Schizophrenia bulletin*.
6. Frodl, T., and O'Keane, V. (2013) How does the brain deal with cumulative stress? A review with focus on developmental stress, HPA axis function and hippocampal structure in humans, *Neurobiology of disease* 52, 24-37.
7. Carballedo, A., Morris, D., Zill, P., Fahey, C., Reinhold, E., Meisenzahl, E., Bondy, B., Gill, M., Moller, H. J., and Frodl, T. (2013) Brain-derived neurotrophic factor Val66Met polymorphism and early life adversity affect hippocampal volume, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 162B, 183-190.
8. Skokauskas, N., Gallagher, L., Frodl, T., and Gill, M. (2012) Assessing problem based learning in child and adolescent psychiatry at the trinity college dublin, ireland, *Oman medical journal* 27, 168-169.
9. Saleh, K., Carballedo, A., Lisiecka, D., Fagan, A. J., Connolly, G., Boyle, G., and Frodl, T. (2012) Impact of family history and depression on amygdala volume, *Psychiatry Res* 203, 24-30.
10. Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The NOS1 variant rs6490121 is associated with variation in prefrontal function and grey matter density in healthy individuals, *NeuroImage* 60, 614-622.
11. O'Neill, A., and Frodl, T. (2012) Brain structure and function in borderline personality disorder, *Brain structure & function* 217, 767-782.
12. O'Keane, V., Frodl, T., and Dinan, T. G. (2012) A review of Atypical depression in relation to the course of depression and changes in HPA axis organization, *Psychoneuroendocrinology* 37, 1589-1599.
13. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R., Upton, N., Robertson, I. H., Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., Donohoe, G., Bartley, M., Bokde, A. L., O'Neill, D., Kehoe, E. G., Toomey, J. M., Balsters, J. H., and Bokde, A. L. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect.
14. Murphy, M. L., Carballedo, A., Fagan, A. J., Morris, D., Fahey, C., Meaney, J., and Frodl, T. (2012) Neurotrophic tyrosine kinase polymorphism impacts white matter connections in patients with major depressive disorder, *Biological psychiatry* 72, 663-670.
15. Lisiecka, D. M., Carballedo, A., Fagan, A. J., Connolly, G., Meaney, J., and Frodl, T. (2012) Altered inhibition of negative emotions in subjects at family risk of major depressive disorder, *Journal of psychiatric research* 46, 181-188.

16. Hughes, M. M., Carballedo, A., McLoughlin, D. M., Amico, F., Harkin, A., Frodl, T., and Connor, T. J. (2012) Tryptophan depletion in depressed patients occurs independent of kynurenine pathway activation, *Brain Behav Immun* 26, 979-987.
17. Everaerd, D., Gerritsen, L., Rijpkema, M., Frodl, T., van Oostrom, I., Franke, B., Fernandez, G., and Tendolkar, I. (2012) Sex modulates the interactive effect of the serotonin transporter gene polymorphism and childhood adversity on hippocampal volume, *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology* 37, 1848-1855.
18. Carballedo, A., Lisiecka, D., Fagan, A., Saleh, K., Ferguson, Y., Connolly, G., Meaney, J., and Frodl, T. (2012) Early life adversity is associated with brain changes in subjects at family risk for depression, *The world journal of biological psychiatry : the official journal of the World Federation of Societies of Biological Psychiatry* 13, 569-578.
19. Bermingham, R., Carballedo, A., Lisiecka, D., Fagan, A., Morris, D., Fahey, C., Donohoe, G., Meaney, J., Gill, M., and Frodl, T. (2012) Effect of genetic variant in BICC1 on functional and structural brain changes in depression, *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology* 37, 2855-2862.
20. Amico, F., Carballedo, A., Lisiecka, D., Fagan, A. J., Boyle, G., and Frodl, T. (2012) Functional anomalies in healthy individuals with a first degree family history of major depressive disorder, *Biology of mood & anxiety disorders* 2, 1.
21. Skokauskas, N., McNicholas, F., Masaud, T., and Frodl, T. (2011) Complementary medicine for children and young people who have attention deficit hyperactivity disorder, *Curr Opin Psychiatry* 24, 291-300.
22. Samson, A. C., Meisenzahl, E., Scheuerecker, J., Rose, E., Schoepf, V., Wiesmann, M., and Frodl, T. (2011) Brain activation predicts treatment improvement in patients with major depressive disorder, *Journal of psychiatric research* 45, 1214-1222.
23. Murphy, M. L., and Frodl, T. (2011) Meta-analysis of diffusion tensor imaging studies shows altered fractional anisotropy occurring in distinct brain areas in association with depression, *Biology of mood & anxiety disorders* 1, 3.
24. Lisiecka, D., Meisenzahl, E., Scheuerecker, J., Schoepf, V., Whitty, P., Chaney, A., Moeller, H. J., Wiesmann, M., and Frodl, T. (2011) Neural correlates of treatment outcome in major depression, *Int J Neuropsychopharmacol* 14, 521-534.
25. Juckel, G., Mergl, R., Brune, M., Villeneuve, I., Frodl, T., Schmitt, G., Zetsche, T., Born, C., Hahn, K., Reiser, M., Moller, H. J., Bar, K. J., Hegerl, U., and Meisenzahl, E. M. (2011) Is evaluation of humorous stimuli associated with frontal cortex morphology? A pilot study using facial micro-movement analysis and MRI, *Cortex; a journal devoted to the study of the nervous system and behavior* 47, 569-574.
26. Hampel, H., Prvulovic, D., Teipel, S. J., Bokde, A. L., Carballedo, A., Scheuerecker, J., Meisenzahl, E., Schoepf, V., Bokde, A., Moller, H. J., Doyle, M., Wiesmann, M., Frodl, T., O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, D. R., Coughlan, T., Prvulovic, D., and

- Hampel, H. (2011) Recent developments of functional magnetic resonance imaging research for drug development in Alzheimer's disease. *Prog Neurobiol* 95, 570-578.
27. Frodl, T., Scheuerecker, J., Schoepf, V., Linn, J., Koutsouleris, N., Bokde, A. L., Hampel, H., Moller, H. J., Bruckmann, H., Wiesmann, M., Meisenzahl, E., Koch, W., Teipel, S., Mueller, S., Benninghoff, J., Wagner, M., Bokde, A. L., Hampel, H., Coates, U., Reiser, M., and Meindl, T. (2011) Different effects of mirtazapine and venlafaxine on brain activation: an open randomized controlled fMRI study. *J Clin Psychiatry* 72, 448-457.
 28. Frodl, T., Scheuerecker, J., Schoepf, V., Linn, J., Koutsouleris, N., Bokde, A. L., Hampel, H., Moller, H. J., Bruckmann, H., Wiesmann, M., and Meisenzahl, E. (2011) Different effects of mirtazapine and venlafaxine on brain activation: an open randomized controlled fMRI study, *J Clin Psychiatry* 72, 448-457.
 29. Finke, K., Schwarzkopf, W., Muller, U., Frodl, T., Muller, H. J., Schneider, W. X., Engel, R. R., Riedel, M., Moller, H. J., and Hennig-Fast, K. (2011) Disentangling the adult attention-deficit hyperactivity disorder endophenotype: parametric measurement of attention, *J Abnorm Psychol* 120, 890-901.
 30. Donohoe, G., Rose, E., Frodl, T., Morris, D., Spoletini, I., Adriano, F., Bernardini, S., Caltagirone, C., Bossu, P., Gill, M., Corvin, A. P., and Spalletta, G. (2011) ZNF804A risk allele is associated with relatively intact gray matter volume in patients with schizophrenia, *NeuroImage* 54, 2132-2137.
 31. Carballo, A., Scheuerecker, J., Meisenzahl, E., Schoepf, V., Bokde, A., Moller, H. J., Doyle, M., Wiesmann, M., and Frodl, T. (2011) Functional connectivity of emotional processing in depression, *Journal of affective disorders* 134, 272-279.
 32. Amico, F., Stauber, J., Koutsouleris, N., and Frodl, T. (2011) Anterior cingulate cortex gray matter abnormalities in adults with attention deficit hyperactivity disorder: a voxel-based morphometry study, *Psychiatry Res* 191, 31-35.
 33. Amico, F., Meisenzahl, E., Koutsouleris, N., Reiser, M., Moller, H. J., and Frodl, T. (2011) Structural MRI correlates for vulnerability and resilience to major depressive disorder, *Journal of psychiatry & neuroscience : JPN* 36, 15-22.

Louise Gallagher

1. Vorstman, J. A., Anney, R. J., Derks, E. M., Gallagher, L., Gill, M., de Jonge, M. V., van Engeland, H., Kahn, R. S., Ophoff, R. A., and Autism Genome Project, t. I. S. C. (2013) No evidence that common genetic risk variation is shared between schizophrenia and autism, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 162B, 55-60.
2. McGrath, J., Johnson, K., O'Hanlon, E., Garavan, H., Leemans, A., and Gallagher, L. (2013) Abnormal functional connectivity during visuospatial processing is associated with disrupted organisation of white matter in autism, *Front Hum Neurosci* 7, 434.

3. McGrath, J., Johnson, K., O'Hanlon, E., Garavan, H., Gallagher, L., and Leemans, A. (2013) White matter and visuospatial processing in autism: a constrained spherical deconvolution tractography study, *Autism research : official journal of the International Society for Autism Research* 6, 307-319.
4. Elamin, M., Bede, P., Byrne, S., Jordan, N., Gallagher, L., Wynne, B., O'Brien, C., Phukan, J., Lynch, C., Pender, N., and Hardiman, O. (2013) Cognitive changes predict functional decline in ALS: a population-based longitudinal study, *Neurology* 80, 1590-1597.
5. Delmonte, S., Gallagher, L., O'Hanlon, E., McGrath, J., and Balsters, J. H. (2013) Functional and structural connectivity of frontostriatal circuitry in Autism Spectrum Disorder, *Front Hum Neurosci* 7, 430.
6. Cross-Disorder Group of the Psychiatric Genomics, C., Lee, S. H., Ripke, S., Neale, B. M., Faraone, S. V., Purcell, S. M., Perlis, R. H., Mowry, B. J., Thapar, A., Goddard, M. E., Witte, J. S., Absher, D., Agartz, I., Akil, H., Amin, F., Andreassen, O. A., Anjorin, A., Anney, R., Anttila, V., Arking, D. E., Asherson, P., Azevedo, M. H., Backlund, L., Badner, J. A., Bailey, A. J., Banaschewski, T., Barchas, J. D., Barnes, M. R., Barrett, T. B., Bass, N., Battaglia, A., Bauer, M., Bayes, M., Bellivier, F., Bergen, S. E., Berrettini, W., Betancur, C., Bettecken, T., Biederman, J., Binder, E. B., Black, D. W., Blackwood, D. H., Bloss, C. S., Boehnke, M., Boomsma, D. I., Breen, G., Breuer, R., Bruggeman, R., Cormican, P., Buccola, N. G., Buitelaar, J. K., Bunney, W. E., Buxbaum, J. D., Byerley, W. F., Byrne, E. M., Caesar, S., Cahn, W., Cantor, R. M., Casas, M., Chakravarti, A., Chambert, K., Choudhury, K., Cichon, S., Cloninger, C. R., Collier, D. A., Cook, E. H., Coon, H., Cormand, B., Corvin, A., Coryell, W. H., Craig, D. W., Craig, I. W., Crosbie, J., Cuccaro, M. L., Curtis, D., Czamara, D., Datta, S., Dawson, G., Day, R., De Geus, E. J., Degenhardt, F., Djurovic, S., Donohoe, G. J., Doyle, A. E., Duan, J., Dudbridge, F., Duketis, E., Ebstein, R. P., Edenberg, H. J., Elia, J., Ennis, S., Etain, B., Fanous, A., Farmer, A. E., Ferrier, I. N., Flickinger, M., Fombonne, E., Foroud, T., Frank, J., Franke, B., Fraser, C., Freedman, R., Freimer, N. B., Freitag, C. M., Friedl, M., Frisen, L., Gallagher, L., Gejman, P. V., Georgieva, L., Gershon, E. S., Geschwind, D. H., Giegling, I., Gill, M., Gordon, S. D., Gordon-Smith, K., Green, E. K., Greenwood, T. A., Grice, D. E., Gross, M., Grozeva, D., Guan, W., Gurling, H., De Haan, L., Haines, J. L., Hakonarson, H., Hallmayer, J., Hamilton, S. P., Hamshere, M. L., Hansen, T. F., Hartmann, A. M., Hautzinger, M., Heath, A. C., Henders, A. K., Herms, S., Hickie, I. B., Hipolito, M., Hoefels, S., Holmans, P. A., Holsboer, F., Hoogendijk, W. J., Hottenga, J. J., Hultman, C. M., Hus, V., Ingason, A., Ising, M., Jamain, S., Jones, E. G., Jones, I., Jones, L., Tzeng, J. Y., Kahler, A. K., Kahn, R. S., Kandaswamy, R., Keller, M. C., Kennedy, J. L., Kenny, E., Kent, L., Kim, Y., Kirov, G. K., Klauck, S. M., Klei, L., Knowles, J. A., Kohli, M. A., Koller, D. L., Konte, B., Korszun, A., Krabbendam, L., Krasucki, R., Kuntsi, J., Kwan, P., Landen, M., Langstrom, N., Lathrop, M., Lawrence, J., Lawson, W. B., Leboyer, M., Ledbetter, D. H., Lee, P. H., Lencz, T., Lesch, K. P., Levinson, D. F., Lewis, C. M., Li, J., Lichtenstein, P., Lieberman, J. A., Lin, D. Y., Linszen, D. H., Liu, C., Lohoff, F. W., Loo, S. K., Lord, C., Lowe, J. K., Lucae, S., MacIntyre, D. J., Madden, P. A., Maestrini, E., Magnusson, P. K., Mahon, P. B., Maier, W., Malhotra, A. K., Mane, S. M., Martin, C. L., Martin, N. G., Mattheisen, M.,

Matthews, K., Mattingsdal, M., McCarroll, S. A., McGhee, K. A., McGough, J. J., McGrath, P. J., McGuffin, P., McInnis, M. G., McIntosh, A., McKinney, R., McLean, A. W., McMahon, F. J., McMahon, W. M., McQuillin, A., Medeiros, H., Medland, S. E., Meier, S., Melle, I., Meng, F., Meyer, J., Middeldorp, C. M., Middleton, L., Milanova, V., Miranda, A., Monaco, A. P., Montgomery, G. W., Moran, J. L., Moreno-De-Luca, D., Morken, G., Morris, D. W., Morrow, E. M., Moskvina, V., Muglia, P., Muhleisen, T. W., Muir, W. J., Muller-Myhsok, B., Murtha, M., Myers, R. M., Myin-Germeys, I., Neale, M. C., Nelson, S. F., Nievergelt, C. M., Nikolov, I., Nimgaonkar, V., Nolen, W. A., Nothen, M. M., Nurnberger, J. I., Nwulia, E. A., Nyholt, D. R., O'Dushlaine, C., Oades, R. D., Olincy, A., Oliveira, G., Olsen, L., Ophoff, R. A., Osby, U., Owen, M. J., Palotie, A., Parr, J. R., Paterson, A. D., Pato, C. N., Pato, M. T., Penninx, B. W., Pergadia, M. L., Pericak-Vance, M. A., Pickard, B. S., Pimm, J., Piven, J., Posthuma, D., Potash, J. B., Poustka, F., Propping, P., Puri, V., Quedsted, D. J., Quinn, E. M., Ramos-Quiroga, J. A., Rasmussen, H. B., Raychaudhuri, S., Rehnstrom, K., Reif, A., Ribases, M., Rice, J. P., Rietschel, M., Roeder, K., Roeyers, H., Rossin, L., Rothenberger, A., Rouleau, G., Ruderfer, D., Rujescu, D., Sanders, A. R., Sanders, S. J., Santangelo, S. L., Sergeant, J. A., Schachar, R., Schalling, M., Schatzberg, A. F., Scheftner, W. A., Schellenberg, G. D., Scherer, S. W., Schork, N. J., Schulze, T. G., Schumacher, J., Schwarz, M., Scolnick, E., Scott, L. J., Shi, J., Shilling, P. D., Shyn, S. I., Silverman, J. M., Slager, S. L., Smalley, S. L., Smit, J. H., Smith, E. N., Sonuga-Barke, E. J., St Clair, D., State, M., Steffens, M., Steinhausen, H. C., Strauss, J. S., Strohmaier, J., Stroup, T. S., Sutcliffe, J. S., Szatmari, P., Szelinger, S., Thirumalai, S., Thompson, R. C., Todorov, A. A., Tozzi, F., Treutlein, J., Uhr, M., van den Oord, E. J., Van Grootheest, G., Van Os, J., Vicente, A. M., Vieland, V. J., Vincent, J. B., Visscher, P. M., Walsh, C. A., Wassink, T. H., Watson, S. J., Weissman, M. M., Werge, T., Wienker, T. F., Wijzman, E. M., Willemsen, G., Williams, N., Willsey, A. J., Witt, S. H., Xu, W., Young, A. H., Yu, T. W., Zammit, S., Zandi, P. P., Zhang, P., Zitman, F. G., Zollner, S., International Inflammatory Bowel Disease Genetics, C., Devlin, B., Kelsoe, J. R., Sklar, P., Daly, M. J., O'Donovan, M. C., Craddock, N., Sullivan, P. F., Smoller, J. W., Kendler, K. S., and Wray, N. R. (2013) Genetic relationship between five psychiatric disorders estimated from genome-wide SNPs, *Nature genetics* 45, 984-994.

7. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H., Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., Hardiman, O., Teipel, S. J., Wegrzyn, M., Meindl, T., Frisoni, G., Bokde, A. L., Fellgiebel, A., Filippi, M., Hampel, H., Kloppel, S., Hauenstein, K., Ewers, M., Kehoe, E. G., Toomey, J. M., Balsters, J. H., Bokde, A. L., Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., Donohoe, G., O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, R., Coughlan, T., Prvulovic, D., and Hampel, H. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging study of ALS motor phenotype heterogeneity and cortical focality. *J Neurol Neurosurg Psychiatry* 84, 766-773.
8. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H., Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., and Hardiman, O. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging

- study of ALS motor phenotype heterogeneity and cortical focality, *J Neurol Neurosurg Psychiatry* 84, 766-773.
9. Thevenon, J., Lopez, E., Keren, B., Heron, D., Mignot, C., Altuzarra, C., Beridexheimer, M., Bonnet, C., Magnin, E., Burglen, L., Minot, D., Vigneron, J., Morle, S., Anheim, M., Charles, P., Brice, A., Gallagher, L., Amiel, J., Haffen, E., Mach, C., Depienne, C., Doummar, D., Bonnet, M., Duplomb, L., Carmignac, V., Callier, P., Marle, N., Mosca-Boidron, A. L., Roze, V., Aral, B., Razavi, F., Jonveaux, P., Faivre, L., and Thauvin-Robinet, C. (2012) Intragenic CAMTA1 rearrangements cause non-progressive congenital ataxia with or without intellectual disability, *Journal of medical genetics* 49, 400-408.
 10. Skokauskas, N., Sweeny, E., Meehan, J., and Gallagher, L. (2012) Mental health problems in children with prader-willi syndrome, *Journal of the Canadian Academy of Child and Adolescent Psychiatry = Journal de l'Academie canadienne de psychiatrie de l'enfant et de l'adolescent* 21, 194-203.
 11. Skokauskas, N., Gallagher, L., Frodl, T., and Gill, M. (2012) Assessing problem based learning in child and adolescent psychiatry at the trinity college dublin, ireland, *Oman medical journal* 27, 168-169.
 12. Skokauskas, N., Doody, B., Gallagher, L., Lawlor, M., Moran, T., Fitzgerald, M., and Gill, M. (2012) Problem-based learning in child and adolescent psychiatry at Trinity College, Dublin, Ireland, *Academic psychiatry : the journal of the American Association of Directors of Psychiatric Residency Training and the Association for Academic Psychiatry* 36, 335-339.
 13. Phukan, J., Elamin, M., Bede, P., Jordan, N., Gallagher, L., Byrne, S., Lynch, C., Pender, N., and Hardiman, O. (2012) The syndrome of cognitive impairment in amyotrophic lateral sclerosis: a population-based study, *J Neurol Neurosurg Psychiatry* 83, 102-108.
 14. McGrath, J., Johnson, K., Ecker, C., O'Hanlon, E., Gill, M., Gallagher, L., and Garavan, H. (2012) Atypical visuospatial processing in autism: insights from functional connectivity analysis, *Autism research : official journal of the International Society for Autism Research* 5, 314-330.
 15. Holt, R., Sykes, N. H., Conceicao, I. C., Cazier, J. B., Anney, R. J., Oliveira, G., Gallagher, L., Vicente, A., Monaco, A. P., and Pagnamenta, A. T. (2012) CNVs leading to fusion transcripts in individuals with autism spectrum disorder, *European journal of human genetics : EJHG* 20, 1141-1147.
 16. Delmonte, S., Balsters, J. H., McGrath, J., Fitzgerald, J., Brennan, S., Fagan, A. J., and Gallagher, L. (2012) Social and monetary reward processing in autism spectrum disorders, *Molecular autism* 3, 7.
 17. Casey, J. P., Magalhaes, T., Conroy, J. M., Regan, R., Shah, N., Anney, R., Shields, D. C., Abrahams, B. S., Almeida, J., Bacchelli, E., Bailey, A. J., Baird, G., Battaglia, A., Berney, T., Bolshakova, N., Bolton, P. F., Bourgeron, T., Brennan, S., Cali, P., Correia, C., Corsello, C., Coutanche, M., Dawson, G., de Jonge, M., Delorme, R., Duketis, E., Duque, F., Estes, A., Farrar, P., Fernandez, B. A., Folstein, S. E., Foley, S., Fombonne,

- E., Freitag, C. M., Gilbert, J., Gillberg, C., Glessner, J. T., Green, J., Guter, S. J., Hakonarson, H., Holt, R., Hughes, G., Hus, V., Iglizzi, R., Kim, C., Klauck, S. M., Klevzon, A., Lamb, J. A., Leboyer, M., Le Couteur, A., Leventhal, B. L., Lord, C., Lund, S. C., Maestrini, E., Mantoulan, C., Marshall, C. R., McConachie, H., McDougle, C. J., McGrath, J., McMahon, W. M., Merikangas, A., Miller, J., Minopoli, F., Mirza, G. K., Munson, J., Nelson, S. F., Nygren, G., Oliveira, G., Pagnamenta, A. T., Papanikolaou, K., Parr, J. R., Parrini, B., Pickles, A., Pinto, D., Piven, J., Posey, D. J., Poustka, A., Poustka, F., Ragoussis, J., Roge, B., Rutter, M. L., Sequeira, A. F., Soorya, L., Sousa, I., Sykes, N., Stoppioni, V., Tancredi, R., Tauber, M., Thompson, A. P., Thomson, S., Tsiantis, J., Van Engeland, H., Vincent, J. B., Volkmar, F., Vorstman, J. A., Wallace, S., Wang, K., Wassink, T. H., White, K., Wing, K., Wittemeyer, K., Yaspan, B. L., Zwaigenbaum, L., Betancur, C., Buxbaum, J. D., Cantor, R. M., Cook, E. H., Coon, H., Cuccaro, M. L., Geschwind, D. H., Haines, J. L., Hallmayer, J., Monaco, A. P., Nurnberger, J. I., Jr., Pericak-Vance, M. A., Schellenberg, G. D., Scherer, S. W., Sutcliffe, J. S., Szatmari, P., Vieland, V. J., Wijsman, E. M., Green, A., Gill, M., Gallagher, L., Vicente, A., and Ennis, S. (2012) A novel approach of homozygous haplotype sharing identifies candidate genes in autism spectrum disorder, *Human genetics* 131, 565-579.
18. Anney, R., Klei, L., Pinto, D., Almeida, J., Bacchelli, E., Baird, G., Bolshakova, N., Bolte, S., Bolton, P. F., Bourgeron, T., Brennan, S., Brian, J., Casey, J., Conroy, J., Correia, C., Corsello, C., Crawford, E. L., de Jonge, M., Delorme, R., Duketis, E., Duque, F., Estes, A., Farrar, P., Fernandez, B. A., Folstein, S. E., Fombonne, E., Gilbert, J., Gillberg, C., Glessner, J. T., Green, A., Green, J., Guter, S. J., Heron, E. A., Holt, R., Howe, J. L., Hughes, G., Hus, V., Iglizzi, R., Jacob, S., Kenny, G. P., Kim, C., Klevzon, A., Kustanovich, V., Lajonchere, C. M., Lamb, J. A., Law-Smith, M., Leboyer, M., Le Couteur, A., Leventhal, B. L., Liu, X. Q., Lombard, F., Lord, C., Lotspeich, L., Lund, S. C., Magalhaes, T. R., Mantoulan, C., McDougle, C. J., Melhem, N. M., Merikangas, A., Minshew, N. J., Mirza, G. K., Munson, J., Noakes, C., Nygren, G., Papanikolaou, K., Pagnamenta, A. T., Parrini, B., Paton, T., Pickles, A., Posey, D. J., Poustka, F., Ragoussis, J., Regan, R., Roberts, W., Roeder, K., Roge, B., Rutter, M. L., Schlitt, S., Shah, N., Sheffield, V. C., Soorya, L., Sousa, I., Stoppioni, V., Sykes, N., Tancredi, R., Thompson, A. P., Thomson, S., Tryfon, A., Tsiantis, J., Van Engeland, H., Vincent, J. B., Volkmar, F., Vorstman, J. A., Wallace, S., Wing, K., Wittemeyer, K., Wood, S., Zurawiecki, D., Zwaigenbaum, L., Bailey, A. J., Battaglia, A., Cantor, R. M., Coon, H., Cuccaro, M. L., Dawson, G., Ennis, S., Freitag, C. M., Geschwind, D. H., Haines, J. L., Klauck, S. M., McMahon, W. M., Maestrini, E., Miller, J., Monaco, A. P., Nelson, S. F., Nurnberger, J. I., Jr., Oliveira, G., Parr, J. R., Pericak-Vance, M. A., Piven, J., Schellenberg, G. D., Scherer, S. W., Vicente, A. M., Wassink, T. H., Wijsman, E. M., Betancur, C., Buxbaum, J. D., Cook, E. H., Gallagher, L., Gill, M., Hallmayer, J., Paterson, A. D., Sutcliffe, J. S., Szatmari, P., Vieland, V. J., Hakonarson, H., and Devlin, B. (2012) Individual common variants exert weak effects on the risk for autism spectrum disorders, *Human molecular genetics* 21, 4781-4792.
19. Tansey, K. E., Hill, M. J., Cochrane, L. E., Gill, M., Anney, R. J., and Gallagher, L. (2011) Functionality of promoter microsatellites of arginine vasopressin receptor 1A (AVPR1A): implications for autism, *Molecular autism* 2, 3.

20. Skuse, D. H., and Gallagher, L. (2011) Genetic influences on social cognition, *Pediatr Res* 69, 85R-91R.
21. Heron, E. A., O'Dushlaine, C., Segurado, R., Gallagher, L., and Gill, M. (2011) Exploration of empirical Bayes hierarchical modeling for the analysis of genome-wide association study data, *Biostatistics* 12, 445-461.
22. Anney, R. J., Kenny, E. M., O'Dushlaine, C., Yaspan, B. L., Parkhomenka, E., Buxbaum, J. D., Sutcliffe, J., Gill, M., Gallagher, L., Buxbaum, J. D., Sutcliffe, J., Gill, M., and Gallagher, L. (2011) Gene-ontology enrichment analysis in two independent family-based samples highlights biologically plausible processes for autism spectrum disorders, *European journal of human genetics : EJHG* 19, 1082-1089.

Hugh Garavan

1. Whelan, R., and Garavan, H. (2013) Fractionating the impulsivity construct in adolescence, *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology* 38, 250-251.
2. Schilling, C., Kuhn, S., Romanowski, A., Banaschewski, T., Barbot, A., Barker, G. J., Bruhl, R., Buchel, C., Charlet, K., Conrod, P. J., Czech, K., Dalley, J. W., Flor, H., Hake, I., Ittermann, B., Ivanov, N., Mann, K., Ludemann, K., Martinot, J. L., Palafoux, C., Paus, T., Poline, J. B., Reuter, J., Rietschel, M., Robbins, T. W., Smolka, M. N., Strohle, A., Walaszek, B., Kathmann, N., Schumann, G., Heinz, A., Garavan, H., Gallinat, J., and consortium, I. (2013) Common structural correlates of trait impulsiveness and perceptual reasoning in adolescence, *Human brain mapping* 34, 374-383.
3. Rose, E. J., Morris, D. W., Hargreaves, A., Fahey, C., Greene, C., Garavan, H., Gill, M., Corvin, A., and Donohoe, G. (2013) Neural effects of the CSMD1 genome-wide associated schizophrenia risk variant rs10503253, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 162B, 530-537.
4. Melka, M. G., Gillis, J., Bernard, M., Abrahamowicz, M., Chakravarty, M. M., Leonard, G. T., Perron, M., Richer, L., Veillette, S., Banaschewski, T., Barker, G. J., Buchel, C., Conrod, P., Flor, H., Heinz, A., Garavan, H., Bruhl, R., Mann, K., Artiges, E., Lourdasamy, A., Lathrop, M., Loth, E., Schwartz, Y., Frouin, V., Rietschel, M., Smolka, M. N., Strohle, A., Gallinat, J., Struve, M., Lattka, E., Waldenberger, M., Schumann, G., Pavlidis, P., Gaudet, D., Paus, T., and Pausova, Z. (2013) FTO, obesity and the adolescent brain, *Human molecular genetics* 22, 1050-1058.
5. McGrath, J., Johnson, K., O'Hanlon, E., Garavan, H., Leemans, A., and Gallagher, L. (2013) Abnormal functional connectivity during visuospatial processing is associated with disrupted organisation of white matter in autism, *Front Hum Neurosci* 7, 434.
6. McGrath, J., Johnson, K., O'Hanlon, E., Garavan, H., Gallagher, L., and Leemans, A. (2013) White matter and visuospatial processing in autism: a constrained spherical deconvolution tractography study, *Autism research : official journal of the International Society for Autism Research* 6, 307-319.

7. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H., Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., Hardiman, O., Teipel, S. J., Wegrzyn, M., Meindl, T., Frisoni, G., Bokde, A. L., Fellgiebel, A., Filippi, M., Hampel, H., Kloppel, S., Hauenstein, K., Ewers, M., Kehoe, E. G., Toomey, J. M., Balsters, J. H., Bokde, A. L., Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., Donohoe, G., O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, R., Coughlan, T., Prvulovic, D., and Hampel, H. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging study of ALS motor phenotype heterogeneity and cortical focality. *J Neurol Neurosurg Psychiatry* 84, 766-773.
8. Whelan, R., Conrod, P. J., Poline, J. B., Lourdasamy, A., Banaschewski, T., Barker, G. J., Bellgrove, M. A., Buchel, C., Byrne, M., Cummins, T. D., Fauth-Buhler, M., Flor, H., Gallinat, J., Heinz, A., Ittermann, B., Mann, K., Martinot, J. L., Lalor, E. C., Lathrop, M., Loth, E., Nees, F., Paus, T., Rietschel, M., Smolka, M. N., Spanagel, R., Stephens, D. N., Struve, M., Thyreau, B., Vollstaedt-Klein, S., Robbins, T. W., Schumann, G., Garavan, H., and Consortium, I. (2012) Adolescent impulsivity phenotypes characterized by distinct brain networks, *Nature neuroscience* 15, 920-925.
9. Tahmasebi, A. M., Artiges, E., Banaschewski, T., Barker, G. J., Bruehl, R., Buchel, C., Conrod, P. J., Flor, H., Garavan, H., Gallinat, J., Heinz, A., Ittermann, B., Loth, E., Mareckova, K., Martinot, J. L., Poline, J. B., Rietschel, M., Smolka, M. N., Strohle, A., Schumann, G., Paus, T., and Consortium, I. (2012) Creating probabilistic maps of the face network in the adolescent brain: a multicentre functional MRI study, *Human brain mapping* 33, 938-957.
10. Schneider, S., Peters, J., Bromberg, U., Brassens, S., Miedl, S. F., Banaschewski, T., Barker, G. J., Conrod, P., Flor, H., Garavan, H., Heinz, A., Ittermann, B., Lathrop, M., Loth, E., Mann, K., Martinot, J. L., Nees, F., Paus, T., Rietschel, M., Robbins, T. W., Smolka, M. N., Spanagel, R., Strohle, A., Struve, M., Schumann, G., Buchel, C., and Consortium, I. (2012) Risk taking and the adolescent reward system: a potential common link to substance abuse, *The American journal of psychiatry* 169, 39-46.
11. Schneider, S., Brassens, S., Bromberg, U., Banaschewski, T., Conrod, P., Flor, H., Gallinat, J., Garavan, H., Heinz, A., Martinot, J. L., Nees, F., Rietschel, M., Smolka, M. N., Strohle, A., Struve, M., Schumann, G., Buchel, C., and Consortium, I. (2012) Maternal interpersonal affiliation is associated with adolescents' brain structure and reward processing, *Translational psychiatry* 2, e182.
12. Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The effect of the neurogranin schizophrenia risk variant rs12807809 on brain structure and function, *Twin research and human genetics : the official journal of the International Society for Twin Studies* 15, 296-303.
13. Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The NOS1 variant rs6490121 is associated with

- variation in prefrontal function and grey matter density in healthy individuals, *NeuroImage* 60, 614-622.
14. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R., Upton, N., Robertson, I. H., Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., Donohoe, G., Bartley, M., Bokde, A. L., O'Neill, D., Kehoe, E. G., Toomey, J. M., Balsters, J. H., and Bokde, A. L. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect. *Neurobiol Aging* 33, 2448-2461.
 15. Nees, F., Vollstadt-Klein, S., Fauth-Buhler, M., Steiner, S., Mann, K., Poustka, L., Banaschewski, T., Buchel, C., Conrod, P. J., Garavan, H., Heinz, A., Ittermann, B., Artiges, E., Paus, T., Pausova, Z., Rietschel, M., Smolka, M. N., Struve, M., Loth, E., Schumann, G., Flor, H., and Consortium, I. (2012) A target sample of adolescents and reward processing: same neural and behavioral correlates engaged in common paradigms?, *Experimental brain research* 223, 429-439.
 16. Nees, F., Tzschoppe, J., Patrick, C. J., Vollstadt-Klein, S., Steiner, S., Poustka, L., Banaschewski, T., Barker, G. J., Buchel, C., Conrod, P. J., Garavan, H., Heinz, A., Gallinat, J., Lathrop, M., Mann, K., Artiges, E., Paus, T., Poline, J. B., Robbins, T. W., Rietschel, M., Smolka, M. N., Spanagel, R., Struve, M., Loth, E., Schumann, G., Flor, H., and Consortium, I. (2012) Determinants of early alcohol use in healthy adolescents: the differential contribution of neuroimaging and psychological factors, *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology* 37, 986-995.
 17. McGrath, J., Johnson, K., Ecker, C., O'Hanlon, E., Gill, M., Gallagher, L., and Garavan, H. (2012) Atypical visuospatial processing in autism: insights from functional connectivity analysis, *Autism research : official journal of the International Society for Autism Research* 5, 314-330.
 18. Kuhn, S., Romanowski, A., Schilling, C., Banaschewski, T., Barbot, A., Barker, G. J., Bruhl, R., Buchel, C., Conrod, P. J., Czech, K., Dalley, J. W., Flor, H., Garavan, H., Hake, I., Ittermann, B., Ivanov, N., Mann, K., Lathrop, M., Loth, E., Ludemann, K., Mallik, C., Martinot, J. L., Palafox, C., Poline, J. B., Reuter, J., Rietschel, M., Robbins, T. W., Smolka, M. N., Nees, F., Walaszek, B., Schumann, G., Heinz, A., Gallinat, J., and consortium, I. (2012) Manual dexterity correlating with right lobule VI volume in right-handed 14-year-olds, *NeuroImage* 59, 1615-1621.
 19. Garavan, H., and Weierstall, K. (2012) The neurobiology of reward and cognitive control systems and their role in incentivizing health behavior, *Preventive medicine* 55 Suppl, S17-23.
 20. Fauth-Buhler, M., de Rover, M., Rubia, K., Garavan, H., Abbott, S., Clark, L., Vollstadt-Klein, S., Mann, K., Schumann, G., and Robbins, T. W. (2012) Brain networks subserving fixed versus performance-adjusted delay stop trials in a stop signal task, *Behavioural brain research* 235, 89-97.
 21. Connolly, C. G., Foxe, J. J., Nierenberg, J., Shpaner, M., and Garavan, H. (2012) The

- neurobiology of cognitive control in successful cocaine abstinence, *Drug and alcohol dependence* 121, 45-53.
22. Bannbers, E., Gingnell, M., Engman, J., Morell, A., Comasco, E., Kask, K., Garavan, H., Wikstrom, J., and Sundstrom Poromaa, I. (2012) The effect of premenstrual dysphoric disorder and menstrual cycle phase on brain activity during response inhibition, *Journal of affective disorders* 142, 347-350.
 23. Braet, W., Johnson, K. A., Tobin, C. T., Acheson, R., McDonnell, C., Hawi, Z., Barry, E., Mulligan, A., Gill, M., Bellgrove, M. A., Robertson, I. H., and Garavan, H. (2011) fMRI activation during response inhibition and error processing: the role of the DAT1 gene in typically developing adolescents and those diagnosed with ADHD, *Neuropsychologia* 49, 1641-1650.

Michael Gill

1. Yang, L., Neale, B. M., Liu, L., Lee, S. H., Wray, N. R., Ji, N., Li, H., Qian, Q., Wang, D., Li, J., Faraone, S. V., Wang, Y., Psychiatric, G. C. A. S., Doyle, A. E., Reif, A., Rothenberger, A., Franke, B., Sonuga-Barke, E. J., Steinhausen, H. C., Buitelaar, J. K., Kuntsi, J., Biederman, J., Lesch, K. P., Kent, L., Asherson, P., Oades, R. D., Loo, S. K., Nelson, S. F., Faraone, S. V., Smalley, S. L., Banaschewski, T., Arias Vasquez, A., Todorov, A., Charach, A., Miranda, A., Warnke, A., Thapar, A., Neale, B. M., Cormand, B., Freitag, C., Mick, E., Mulas, F., Middleton, F., HakonarsonHakonarson, H., Palmason, H., Schafer, H., Roeyers, H., McGough, J. J., Romanos, J., Crosbie, J., Meyer, J., Ramos-Quiroga, J. A., Sergeant, J., Elia, J., Langely, K., Nisenbaum, L., Romanos, M., Daly, M. J., Ribases, M., Gill, M., O'Donovan, M., Owen, M., Casas, M., Bayes, M., Lambregts-Rommelse, N., Williams, N., Holmans, P., Anney, R. J., Ebstein, R. P., Schachar, R., Medland, S. E., Ripke, S., Walitza, S., Nguyen, T. T., Renner, T. J., and Hu, X. (2013) Polygenic transmission and complex neuro developmental network for attention deficit hyperactivity disorder: genome-wide association study of both common and rare variants, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 162B, 419-430.
2. Walters, J. T., Rujescu, D., Franke, B., Giegling, I., Vasquez, A. A., Hargreaves, A., Russo, G., Morris, D. W., Hoogman, M., Da Costa, A., Moskvina, V., Fernandez, G., Gill, M., Corvin, A., O'Donovan, M. C., Donohoe, G., and Owen, M. J. (2013) The role of the major histocompatibility complex region in cognition and brain structure: a schizophrenia GWAS follow-up, *The American journal of psychiatry* 170, 877-885.
3. Vorstman, J. A., Anney, R. J., Derks, E. M., Gallagher, L., Gill, M., de Jonge, M. V., van Engeland, H., Kahn, R. S., Ophoff, R. A., and Autism Genome Project, t. I. S. C. (2013) No evidence that common genetic risk variation is shared between schizophrenia and autism, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 162B, 55-60.
4. Schosser, A., Butler, A. W., Uher, R., Ng, M. Y., Cohen-Woods, S., Craddock, N., Owen, M. J., Korszun, A., Gill, M., Rice, J., Hauser, J., Henigsberg, N., Maier, W., Mors,

- O., Placentino, A., Rietschel, M., Souery, D., Preisig, M., Craig, I. W., Farmer, A. E., Lewis, C. M., and McGuffin, P. (2013) Genome-wide association study of co-occurring anxiety in major depression, *The world journal of biological psychiatry : the official journal of the World Federation of Societies of Biological Psychiatry* 14, 611-621.
5. Rose, E. J., Morris, D. W., Hargreaves, A., Fahey, C., Greene, C., Garavan, H., Gill, M., Corvin, A., and Donohoe, G. (2013) Neural effects of the CSMD1 genome-wide associated schizophrenia risk variant rs10503253, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 162B, 530-537.
 6. Robertson, D. A., Hargreaves, A., Kelleher, E. B., Morris, D., Gill, M., Corvin, A., and Donohoe, G. (2013) Social dysfunction in schizophrenia: an investigation of the GAF scale's sensitivity to deficits in social cognition, *Schizophrenia research* 146, 363-365.
 7. Ripke, S., O'Dushlaine, C., Chambert, K., Moran, J. L., Kahler, A. K., Akterin, S., Bergen, S. E., Collins, A. L., Crowley, J. J., Fromer, M., Kim, Y., Lee, S. H., Magnusson, P. K., Sanchez, N., Stahl, E. A., Williams, S., Wray, N. R., Xia, K., Bettella, F., Borglum, A. D., Bulik-Sullivan, B. K., Cormican, P., Craddock, N., de Leeuw, C., Durmishi, N., Gill, M., Golimbet, V., Hamshere, M. L., Holmans, P., Hougaard, D. M., Kendler, K. S., Lin, K., Morris, D. W., Mors, O., Mortensen, P. B., Neale, B. M., O'Neill, F. A., Owen, M. J., Milovancevic, M. P., Posthuma, D., Powell, J., Richards, A. L., Riley, B. P., Ruderfer, D., Rujescu, D., Sigurdsson, E., Silagadze, T., Smit, A. B., Stefansson, H., Steinberg, S., Suvisaari, J., Tosato, S., Verhage, M., Walters, J. T., Multicenter Genetic Studies of Schizophrenia, C., Levinson, D. F., Gejman, P. V., Kendler, K. S., Laurent, C., Mowry, B. J., O'Donovan, M. C., Owen, M. J., Pulver, A. E., Riley, B. P., Schwab, S. G., Wildenauer, D. B., Dudbridge, F., Holmans, P., Shi, J., Albus, M., Alexander, M., Campion, D., Cohen, D., Dikeos, D., Duan, J., Eichhammer, P., Godard, S., Hansen, M., Lerer, F. B., Liang, K. Y., Maier, W., Mallet, J., Nertney, D. A., Nestadt, G., Norton, N., O'Neill, F. A., Papadimitriou, G. N., Ribble, R., Sanders, A. R., Silverman, J. M., Walsh, D., Williams, N. M., Wormley, B., Psychosis Endophenotypes International, C., Arranz, M. J., Bakker, S., Bender, S., Bramon, E., Collier, D., Crespo-Facorro, B., Hall, J., Iyegbe, C., Jablensky, A., Kahn, R. S., Kalaydjieva, L., Lawrie, S., Lewis, C. M., Lin, K., Linszen, D. H., Mata, I., McIntosh, A., Murray, R. M., Ophoff, R. A., Powell, J., Rujescu, D., Van Os, J., Walshe, M., Weisbrod, M., Wiersma, D., Wellcome Trust Case Control, C., Donnelly, P., Barroso, I., Blackwell, J. M., Bramon, E., Brown, M. A., Casas, J. P., Corvin, A. P., Deloukas, P., Duncanson, A., Jankowski, J., Markus, H. S., Mathew, C. G., Palmer, C. N., Plomin, R., Rautanen, A., Sawcer, S. J., Trembath, R. C., Viswanathan, A. C., Wood, N. W., Spencer, C. C., Band, G., Bellenguez, C., Freeman, C., Hellenthal, G., Giannoulatou, E., Pirinen, M., Pearson, R. D., Strange, A., Su, Z., Vukcevic, D., Donnelly, P., Langford, C., Hunt, S. E., Eddins, S., Gwilliam, R., Blackburn, H., Bumpstead, S. J., Dronov, S., Gillman, M., Gray, E., Hammond, N., Jayakumar, A., McCann, O. T., Liddle, J., Potter, S. C., Ravindrarajah, R., Ricketts, M., Tashakkori-Ghanbaria, A., Waller, M. J., Weston, P., Widaa, S., Whittaker, P., Barroso, I., Deloukas, P., Mathew, C. G., Blackwell, J. M., Brown, M. A., Corvin, A. P., McCarthy, M. I., Spencer, C. C., Bramon, E., Corvin, A. P., O'Donovan, M. C., Stefansson, K., Scolnick, E., Purcell, S., McCarroll, S. A., Sklar, P., Hultman, C. M., and

- Sullivan, P. F. (2013) Genome-wide association analysis identifies 13 new risk loci for schizophrenia, *Nature genetics* 45, 1150-1159.
8. Quinn, E. M., Cormican, P., Kenny, E. M., Hill, M., Anney, R., Gill, M., Corvin, A. P., and Morris, D. W. (2013) Development of strategies for SNP detection in RNA-seq data: application to lymphoblastoid cell lines and evaluation using 1000 Genomes data, *PLoS One* 8, e58815.
 9. Power, R. A., Cohen-Woods, S., Ng, M. Y., Butler, A. W., Craddock, N., Korszun, A., Jones, L., Jones, I., Gill, M., Rice, J. P., Maier, W., Zobel, A., Mors, O., Placentino, A., Rietschel, M., Aitchison, K. J., Tozzi, F., Muglia, P., Breen, G., Farmer, A. E., McGuffin, P., Lewis, C. M., and Uher, R. (2013) Genome-wide association analysis accounting for environmental factors through propensity-score matching: application to stressful life events in major depressive disorder, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 162B, 521-529.
 10. Mota, N. R., Bau, C. H., Banaschewski, T., Buitelaar, J. K., Ebstein, R. P., Franke, B., Gill, M., Kuntsi, J., Manor, I., Miranda, A., Mulas, F., Oades, R. D., Roeyers, H., Rothenberger, A., Sergeant, J. A., Sonuga-Barke, E. J., Steinhausen, H. C., Faraone, S. V., and Asherson, P. (2013) Association between DRD2/DRD4 interaction and conduct disorder: a potential developmental pathway to alcohol dependence, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 162B, 546-549.
 11. McCarthy, H., Skokauskas, N., Mulligan, A., Donohoe, G., Mullins, D., Kelly, J., Johnson, K., Fagan, A., Gill, M., Meaney, J., and Frodl, T. (2013) Attention network hypoconnectivity with default and affective network hyperconnectivity in adults diagnosed with attention-deficit/hyperactivity disorder in childhood, *JAMA psychiatry* 70, 1329-1337.
 12. Johnson, K. A., Barry, E., Lambert, D., Fitzgerald, M., McNicholas, F., Kirley, A., Gill, M., Bellgrove, M. A., and Hawi, Z. (2013) Methylphenidate side effect profile is influenced by genetic variation in the attention-deficit/hyperactivity disorder-associated CES1 gene, *Journal of child and adolescent psychopharmacology* 23, 655-664.
 13. Hawi, Z., Matthews, N., Wagner, J., Wallace, R. H., Butler, T. J., Vance, A., Kent, L., Gill, M., and Bellgrove, M. A. (2013) DNA variation in the SNAP25 gene confers risk to ADHD and is associated with reduced expression in prefrontal cortex, *PLoS One* 8, e60274.
 14. Hargreaves, A., Anney, R., O'Dushlaine, C., Nicodemus, K. K., Schizophrenia Psychiatric Genome-Wide Association Study, C., Wellcome Trust Case Control, C., Gill, M., Corvin, A., Morris, D., and Donohoe, G. (2013) The one and the many: effects of the cell adhesion molecule pathway on neuropsychological function in psychosis, *Psychological medicine*, 1-11.
 15. Hamshere, M. L., Stergiakouli, E., Langley, K., Martin, J., Holmans, P., Kent, L., Owen, M. J., Gill, M., Thapar, A., O'Donovan, M., and Craddock, N. (2013) Shared polygenic contribution between childhood attention-deficit hyperactivity disorder and adult

schizophrenia, *The British journal of psychiatry : the journal of mental science* 203, 107-111.

16. Guha, S., Rees, E., Darvasi, A., Ivanov, D., Ikeda, M., Bergen, S. E., Magnusson, P. K., Cormican, P., Morris, D., Gill, M., Cichon, S., Rosenfeld, J. A., Lee, A., Gregersen, P. K., Kane, J. M., Malhotra, A. K., Rietschel, M., Nothen, M. M., Degenhardt, F., Priebe, L., Breuer, R., Strohmaier, J., Ruderfer, D. M., Moran, J. L., Chambert, K. D., Sanders, A. R., Shi, J., Kendler, K., Riley, B., O'Neill, T., Walsh, D., Malhotra, D., Corvin, A., Purcell, S., Sklar, P., Iwata, N., Hultman, C. M., Sullivan, P. F., Sebat, J., McCarthy, S., Gejman, P. V., Levinson, D. F., Owen, M. J., O'Donovan, M. C., Lencz, T., Kirov, G., Molecular Genetics of Schizophrenia, C., and Wellcome Trust Case Control, C. (2013) Implication of a rare deletion at distal 16p11.2 in schizophrenia, *JAMA psychiatry* 70, 253-260.
17. Cross-Disorder Group of the Psychiatric Genomics, C., Lee, S. H., Ripke, S., Neale, B. M., Faraone, S. V., Purcell, S. M., Perlis, R. H., Mowry, B. J., Thapar, A., Goddard, M. E., Witte, J. S., Absher, D., Agartz, I., Akil, H., Amin, F., Andreassen, O. A., Anjorin, A., Anney, R., Anttila, V., Arking, D. E., Asherson, P., Azevedo, M. H., Backlund, L., Badner, J. A., Bailey, A. J., Banaschewski, T., Barchas, J. D., Barnes, M. R., Barrett, T. B., Bass, N., Battaglia, A., Bauer, M., Bayes, M., Bellivier, F., Bergen, S. E., Berrettini, W., Betancur, C., Bettecken, T., Biederman, J., Binder, E. B., Black, D. W., Blackwood, D. H., Bloss, C. S., Boehnke, M., Boomsma, D. I., Breen, G., Breuer, R., Bruggeman, R., Cormican, P., Buccola, N. G., Buitelaar, J. K., Bunney, W. E., Buxbaum, J. D., Byerley, W. F., Byrne, E. M., Caesar, S., Cahn, W., Cantor, R. M., Casas, M., Chakravarti, A., Chambert, K., Choudhury, K., Cichon, S., Cloninger, C. R., Collier, D. A., Cook, E. H., Coon, H., Cormand, B., Corvin, A., Coryell, W. H., Craig, D. W., Craig, I. W., Crosbie, J., Cuccaro, M. L., Curtis, D., Czamara, D., Datta, S., Dawson, G., Day, R., De Geus, E. J., Degenhardt, F., Djurovic, S., Donohoe, G. J., Doyle, A. E., Duan, J., Dudbridge, F., Duketis, E., Eibstein, R. P., Edenberg, H. J., Elia, J., Ennis, S., Etain, B., Fanous, A., Farmer, A. E., Ferrier, I. N., Flickinger, M., Fombonne, E., Foroud, T., Frank, J., Franke, B., Fraser, C., Freedman, R., Freimer, N. B., Freitag, C. M., Friedl, M., Frisen, L., Gallagher, L., Gejman, P. V., Georgieva, L., Gershon, E. S., Geschwind, D. H., Giegling, I., Gill, M., Gordon, S. D., Gordon-Smith, K., Green, E. K., Greenwood, T. A., Grice, D. E., Gross, M., Grozeva, D., Guan, W., Gurling, H., De Haan, L., Haines, J. L., Hakonarson, H., Hallmayer, J., Hamilton, S. P., Hamshere, M. L., Hansen, T. F., Hartmann, A. M., Hautzinger, M., Heath, A. C., Henders, A. K., Herms, S., Hickie, I. B., Hipolito, M., Hoefels, S., Holmans, P. A., Holsboer, F., Hoogendijk, W. J., Hottenga, J. J., Hultman, C. M., Hus, V., Ingason, A., Ising, M., Jamain, S., Jones, E. G., Jones, I., Jones, L., Tzeng, J. Y., Kahler, A. K., Kahn, R. S., Kandaswamy, R., Keller, M. C., Kennedy, J. L., Kenny, E., Kent, L., Kim, Y., Kirov, G. K., Klauck, S. M., Klei, L., Knowles, J. A., Kohli, M. A., Koller, D. L., Konte, B., Korszun, A., Krabbendam, L., Krasucki, R., Kuntsi, J., Kwan, P., Landen, M., Langstrom, N., Lathrop, M., Lawrence, J., Lawson, W. B., Leboyer, M., Ledbetter, D. H., Lee, P. H., Lencz, T., Lesch, K. P., Levinson, D. F., Lewis, C. M., Li, J., Lichtenstein, P., Lieberman, J. A., Lin, D. Y., Linszen, D. H., Liu, C., Lohoff, F. W., Loo, S. K., Lord, C., Lowe, J. K., Lucae, S., MacIntyre, D. J., Madden, P. A., Maestrini, E., Magnusson, P. K., Mahon, P. B., Maier, W., Malhotra, A. K., Mane, S. M., Martin, C. L., Martin, N. G., Mattheisen, M.,

- Matthews, K., Mattingsdal, M., McCarroll, S. A., McGhee, K. A., McGough, J. J., McGrath, P. J., McGuffin, P., McInnis, M. G., McIntosh, A., McKinney, R., McLean, A. W., McMahon, F. J., McMahon, W. M., McQuillin, A., Medeiros, H., Medland, S. E., Meier, S., Melle, I., Meng, F., Meyer, J., Middeldorp, C. M., Middleton, L., Milanova, V., Miranda, A., Monaco, A. P., Montgomery, G. W., Moran, J. L., Moreno-De-Luca, D., Morken, G., Morris, D. W., Morrow, E. M., Moskvina, V., Muglia, P., Muhleisen, T. W., Muir, W. J., Muller-Myhsok, B., Murtha, M., Myers, R. M., Myin-Germeys, I., Neale, M. C., Nelson, S. F., Nievergelt, C. M., Nikolov, I., Nimgaonkar, V., Nolen, W. A., Nothen, M. M., Nurnberger, J. I., Nwulia, E. A., Nyholt, D. R., O'Dushlaine, C., Oades, R. D., Olincy, A., Oliveira, G., Olsen, L., Ophoff, R. A., Osby, U., Owen, M. J., Palotie, A., Parr, J. R., Paterson, A. D., Pato, C. N., Pato, M. T., Penninx, B. W., Pergadia, M. L., Pericak-Vance, M. A., Pickard, B. S., Pimm, J., Piven, J., Posthuma, D., Potash, J. B., Poustka, F., Propping, P., Puri, V., Quedsted, D. J., Quinn, E. M., Ramos-Quiroga, J. A., Rasmussen, H. B., Raychaudhuri, S., Rehnstrom, K., Reif, A., Ribases, M., Rice, J. P., Rietschel, M., Roeder, K., Roeyers, H., Rossin, L., Rothenberger, A., Rouleau, G., Ruderfer, D., Rujescu, D., Sanders, A. R., Sanders, S. J., Santangelo, S. L., Sergeant, J. A., Schachar, R., Schalling, M., Schatzberg, A. F., Scheftner, W. A., Schellenberg, G. D., Scherer, S. W., Schork, N. J., Schulze, T. G., Schumacher, J., Schwarz, M., Scolnick, E., Scott, L. J., Shi, J., Shilling, P. D., Shyn, S. I., Silverman, J. M., Slager, S. L., Smalley, S. L., Smit, J. H., Smith, E. N., Sonuga-Barke, E. J., St Clair, D., State, M., Steffens, M., Steinhausen, H. C., Strauss, J. S., Strohmaier, J., Stroup, T. S., Sutcliffe, J. S., Szatmari, P., Szeling, S., Thirumalai, S., Thompson, R. C., Todorov, A. A., Tozzi, F., Treutlein, J., Uhr, M., van den Oord, E. J., Van Grootheest, G., Van Os, J., Vicente, A. M., Vieland, V. J., Vincent, J. B., Visscher, P. M., Walsh, C. A., Wassink, T. H., Watson, S. J., Weissman, M. M., Werge, T., Wienker, T. F., Wijdsman, E. M., Willemsen, G., Williams, N., Willsey, A. J., Witt, S. H., Xu, W., Young, A. H., Yu, T. W., Zammit, S., Zandi, P. P., Zhang, P., Zitman, F. G., Zollner, S., International Inflammatory Bowel Disease Genetics, C., Devlin, B., Kelsoe, J. R., Sklar, P., Daly, M. J., O'Donovan, M. C., Craddock, N., Sullivan, P. F., Smoller, J. W., Kendler, K. S., and Wray, N. R. (2013) Genetic relationship between five psychiatric disorders estimated from genome-wide SNPs, *Nature genetics* 45, 984-994.
18. Carballedo, A., Morris, D., Zill, P., Fahey, C., Reinhold, E., Meisenzahl, E., Bondy, B., Gill, M., Moller, H. J., and Frodl, T. (2013) Brain-derived neurotrophic factor Val66Met polymorphism and early life adversity affect hippocampal volume, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 162B, 183-190.
19. Bralten, J., Franke, B., Waldman, I., Rommelse, N., Hartman, C., Asherson, P., Banaschewski, T., Ebstein, R. P., Gill, M., Miranda, A., Oades, R. D., Roeyers, H., Rothenberger, A., Sergeant, J. A., Oosterlaan, J., Sonuga-Barke, E., Steinhausen, H. C., Faraone, S. V., Buitelaar, J. K., and Arias-Vasquez, A. (2013) Candidate genetic pathways for attention-deficit/hyperactivity disorder (ADHD) show association to hyperactive/impulsive symptoms in children with ADHD, *Journal of the American Academy of Child and Adolescent Psychiatry* 52, 1204-1212 e1201.
20. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H.,

- Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., Hardiman, O., Teipel, S. J., Wegrzyn, M., Meindl, T., Frisoni, G., Bokde, A. L., Fellgiebel, A., Filippi, M., Hampel, H., Kloppel, S., Hauenstein, K., Ewers, M., Kehoe, E. G., Toomey, J. M., Balsters, J. H., Bokde, A. L., Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., Donohoe, G., O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, R., Coughlan, T., Prvulovic, D., and Hampel, H. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging study of ALS motor phenotype heterogeneity and cortical focality *J Neurol Neurosurg Psychiatry* 84, 766-773.
21. Williams, N. M., Franke, B., Mick, E., Anney, R. J., Freitag, C. M., Gill, M., Thapar, A., O'Donovan, M. C., Owen, M. J., Holmans, P., Kent, L., Middleton, F., Zhang-James, Y., Liu, L., Meyer, J., Nguyen, T. T., Romanos, J., Romanos, M., Seitz, C., Renner, T. J., Walitza, S., Warnke, A., Palmason, H., Buitelaar, J., Rommelse, N., Vasquez, A. A., Hawi, Z., Langley, K., Sergeant, J., Steinhausen, H. C., Roeyers, H., Biederman, J., Zaharieva, I., Hakonarson, H., Elia, J., Lionel, A. C., Crosbie, J., Marshall, C. R., Schachar, R., Scherer, S. W., Todorov, A., Smalley, S. L., Loo, S., Nelson, S., Shtir, C., Asherson, P., Reif, A., Lesch, K. P., and Faraone, S. V. (2012) Genome-wide analysis of copy number variants in attention deficit hyperactivity disorder: the role of rare variants and duplications at 15q13.3, *The American journal of psychiatry* 169, 195-204.
 22. Toplak, M. E., Sorge, G. B., Flora, D. B., Chen, W., Banaschewski, T., Buitelaar, J., Ebstein, R., Eisenberg, J., Franke, B., Gill, M., Miranda, A., Oades, R. D., Roeyers, H., Rothenberger, A., Sergeant, J., Sonuga-Barke, E., Steinhausen, H. C., Thompson, M., Tannock, R., Asherson, P., and Faraone, S. V. (2012) The hierarchical factor model of ADHD: invariant across age and national groupings?, *Journal of child psychology and psychiatry, and allied disciplines* 53, 292-303.
 23. Stergiakouli, E., Hamshere, M., Holmans, P., Langley, K., Zaharieva, I., de, C. G., Psychiatric, G. C., Hawi, Z., Kent, L., Gill, M., Williams, N., Owen, M. J., O'Donovan, M., and Thapar, A. (2012) Investigating the contribution of common genetic variants to the risk and pathogenesis of ADHD, *The American journal of psychiatry* 169, 186-194.
 24. Stein, J. L., Medland, S. E., Vasquez, A. A., Hibar, D. P., Senstad, R. E., Winkler, A. M., Toro, R., Appel, K., Bartecek, R., Bergmann, O., Bernard, M., Brown, A. A., Cannon, D. M., Chakravarty, M. M., Christoforou, A., Domin, M., Grimm, O., Hollinshead, M., Holmes, A. J., Homuth, G., Hottenga, J. J., Langan, C., Lopez, L. M., Hansell, N. K., Hwang, K. S., Kim, S., Laje, G., Lee, P. H., Liu, X., Loth, E., Lourdasamy, A., Mattingsdal, M., Mohnke, S., Maniega, S. M., Nho, K., Nugent, A. C., O'Brien, C., Pappmeyer, M., Putz, B., Ramasamy, A., Rasmussen, J., Rijpkema, M., Risacher, S. L., Roddey, J. C., Rose, E. J., Ryten, M., Shen, L., Sprooten, E., Strengman, E., Teumer, A., Trabzuni, D., Turner, J., van Eijk, K., van Erp, T. G., van Tol, M. J., Wittfeld, K., Wolf, C., Woudstra, S., Aleman, A., Alhusaini, S., Almasy, L., Binder, E. B., Brohawn, D. G., Cantor, R. M., Carless, M. A., Corvin, A., Czisch, M., Curran, J. E., Davies, G., de Almeida, M. A., Delanty, N., Depondt, C., Duggirala, R., Dyer, T. D., Erk, S., Fagerness, J., Fox, P. T., Freimer, N. B., Gill, M., Goring, H. H., Hagler, D. J., Hoehn, D., Holsboer, F., Hoogman, M., Hosten, N., Jahanshad, N., Johnson, M. P., Kasperaviciute, D., Kent, J.

- W., Jr., Kochunov, P., Lancaster, J. L., Lawrie, S. M., Liewald, D. C., Mandl, R., Matarin, M., Mattheisen, M., Meisenzahl, E., Melle, I., Moses, E. K., Muhleisen, T. W., Nauck, M., Nothen, M. M., Olvera, R. L., Pandolfo, M., Pike, G. B., Puls, R., Reinvang, I., Renteria, M. E., Rietschel, M., Roffman, J. L., Royle, N. A., Rujescu, D., Savitz, J., Schnack, H. G., Schnell, K., Seiferth, N., Smith, C., Steen, V. M., Valdes Hernandez, M. C., Van den Heuvel, M., van der Wee, N. J., Van Haren, N. E., Veltman, J. A., Volzke, H., Walker, R., Westlye, L. T., Whelan, C. D., Agartz, I., Boomsma, D. I., Cavalleri, G. L., Dale, A. M., Djurovic, S., Drevets, W. C., Hagoort, P., Hall, J., Heinz, A., Jack, C. R., Jr., Foroud, T. M., Le Hellard, S., Macciardi, F., Montgomery, G. W., Poline, J. B., Porteous, D. J., Sisodiya, S. M., Starr, J. M., Sussmann, J., Toga, A. W., Veltman, D. J., Walter, H., Weiner, M. W., Alzheimer's Disease Neuroimaging, I., Consortium, E., Consortium, I., Saguenay Youth Study, G., Bis, J. C., Ikram, M. A., Smith, A. V., Gudnason, V., Tzourio, C., Vernooij, M. W., Launer, L. J., DeCarli, C., Seshadri, S., Cohorts for, H., Aging Research in Genomic Epidemiology, C., Andreassen, O. A., Apostolova, L. G., Bastin, M. E., Blangero, J., Brunner, H. G., Buckner, R. L., Cichon, S., Coppola, G., de Zubicaray, G. I., Deary, I. J., Donohoe, G., de Geus, E. J., Espeseth, T., Fernandez, G., Glahn, D. C., Grabe, H. J., Hardy, J., Hulshoff Pol, H. E., Jenkinson, M., Kahn, R. S., McDonald, C., McIntosh, A. M., McMahon, F. J., McMahon, K. L., Meyer-Lindenberg, A., Morris, D. W., Muller-Myhsok, B., Nichols, T. E., Ophoff, R. A., Paus, T., Pausova, Z., Penninx, B. W., Potkin, S. G., Samann, P. G., Saykin, A. J., Schumann, G., Smoller, J. W., Wardlaw, J. M., Weale, M. E., Martin, N. G., Franke, B., Wright, M. J., Thompson, P. M., and Enhancing Neuro Imaging Genetics through Meta-Analysis, C. (2012) Identification of common variants associated with human hippocampal and intracranial volumes, *Nature genetics* 44, 552-561.
25. Skokauskas, N., Gallagher, L., Frodl, T., and Gill, M. (2012) Assessing problem based learning in child and adolescent psychiatry at the trinity college dublin, ireland, *Oman medical journal* 27, 168-169.
26. Skokauskas, N., Doody, B., Gallagher, L., Lawlor, M., Moran, T., Fitzgerald, M., and Gill, M. (2012) Problem-based learning in child and adolescent psychiatry at Trinity College, Dublin, Ireland, *Academic psychiatry : the journal of the American Association of Directors of Psychiatric Residency Training and the Association for Academic Psychiatry* 36, 335-339.
27. Sakrikar, D., Mazei-Robison, M. S., Mergy, M. A., Richtand, N. W., Han, Q., Hamilton, P. J., Bowton, E., Galli, A., Veenstra-Vanderweele, J., Gill, M., and Blakely, R. D. (2012) Attention deficit/hyperactivity disorder-derived coding variation in the dopamine transporter disrupts microdomain targeting and trafficking regulation, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 5385-5397.
28. Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The effect of the neurogranin schizophrenia risk variant rs12807809 on brain structure and function, *Twin research and human genetics : the official journal of the International Society for Twin Studies* 15, 296-303.
29. Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson,

- S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The NOS1 variant rs6490121 is associated with variation in prefrontal function and grey matter density in healthy individuals, *NeuroImage* 60, 614-622.
30. Proitsi, P., Lupton, M. K., Reeves, S. J., Hamilton, G., Archer, N., Martin, B. M., Iyegbe, C., Hollingworth, P., Lawlor, B., Gill, M., Brayne, C., Rubinsztein, D. C., Owen, M. J., Williams, J., Lovestone, S., and Powell, J. F. (2012) Association of serotonin and dopamine gene pathways with behavioral subphenotypes in dementia, *Neurobiol Aging* 33, 791-803.
 31. Proitsi, P., Lupton, M. K., Dudbridge, F., Tsolaki, M., Hamilton, G., Daniilidou, M., Pritchard, M., Lord, K., Martin, B. M., Johnson, J., Craig, D., Todd, S., McGuinness, B., Hollingworth, P., Harold, D., Kloszewska, I., Soininen, H., Mecocci, P., Velas, B., Gill, M., Lawlor, B., Rubinsztein, D. C., Brayne, C., Passmore, P. A., Williams, J., Lovestone, S., and Powell, J. F. (2012) Alzheimer's disease and age-related macular degeneration have different genetic models for complement gene variation, *Neurobiol Aging* 33, 1843 e1849-1817.
 32. Power, R. A., Keers, R., Ng, M. Y., Butler, A. W., Uher, R., Cohen-Woods, S., Ising, M., Craddock, N., Owen, M. J., Korszun, A., Jones, L., Jones, I., Gill, M., Rice, J. P., Hauser, J., Henigsberg, N., Maier, W., Zobel, A., Mors, O., Placentino, A. S., Rietschel, M., Souery, D., Kozel, D., Preisig, M., Lucae, S., Binder, E. B., Aitchison, K. J., Tozzi, F., Muglia, P., Breen, G., Craig, I. W., Farmer, A. E., Muller-Myhsok, B., McGuffin, P., and Lewis, C. M. (2012) Dissecting the genetic heterogeneity of depression through age at onset, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 159B, 859-868.
 33. O'Donoghue, T., Morris, D. W., Fahey, C., Da Costa, A., Foxe, J. J., Hoerold, D., Tropea, D., Gill, M., Corvin, A., and Donohoe, G. (2012) A NOS1 variant implicated in cognitive performance influences evoked neural responses during a high density EEG study of early visual perception, *Human brain mapping* 33, 1202-1211.
 34. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R., Upton, N., Robertson, I. H., Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., Donohoe, G., Bartley, M., Bokde, A. L., O'Neill, D., Kehoe, E. G., Toomey, J. M., Balsters, J. H., and Bokde, A. L. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect.. *Neurobiol Aging* 33, 2448-2461.
 35. McGrath, J., Johnson, K., Ecker, C., O'Hanlon, E., Gill, M., Gallagher, L., and Garavan, H. (2012) Atypical visuospatial processing in autism: insights from functional connectivity analysis, *Autism research : official journal of the International Society for Autism Research* 5, 314-330.
 36. Gill, M. (2012) Developmental psychopathology: the role of structural variation in the genome, *Development and psychopathology* 24, 1319-1334.
 37. Gilks, W. P., Hill, M., Gill, M., Donohoe, G., Corvin, A. P., and Morris, D. W. (2012)

- Functional investigation of a schizophrenia GWAS signal at the CDC42 gene, *The world journal of biological psychiatry : the official journal of the World Federation of Societies of Biological Psychiatry* 13, 550-554.
38. Gerrish, A., Russo, G., Richards, A., Moskvina, V., Ivanov, D., Harold, D., Sims, R., Abraham, R., Hollingworth, P., Chapman, J., Hamshere, M., Pahwa, J. S., Dowzell, K., Williams, A., Jones, N., Thomas, C., Stretton, A., Morgan, A. R., Lovestone, S., Powell, J., Proitsi, P., Lupton, M. K., Brayne, C., Rubinsztein, D. C., Gill, M., Lawlor, B., Lynch, A., Morgan, K., Brown, K. S., Passmore, P. A., Craig, D., McGuinness, B., Todd, S., Johnston, J. A., Holmes, C., Mann, D., Smith, A. D., Love, S., Kehoe, P. G., Hardy, J., Mead, S., Fox, N., Rossor, M., Collinge, J., Maier, W., Jessen, F., Kolsch, H., Heun, R., Schurmann, B., van den Bussche, H., Heuser, I., Kornhuber, J., Wiltfang, J., Dichgans, M., Frolich, L., Hampel, H., Hull, M., Rujescu, D., Goate, A. M., Kauwe, J. S., Cruchaga, C., Nowotny, P., Morris, J. C., Mayo, K., Livingston, G., Bass, N. J., Gurling, H., McQuillin, A., Gwilliam, R., Deloukas, P., Davies, G., Harris, S. E., Starr, J. M., Deary, I. J., Al-Chalabi, A., Shaw, C. E., Tsolaki, M., Singleton, A. B., Guerreiro, R., Muhleisen, T. W., Nothen, M. M., Moebus, S., Jockel, K. H., Klopp, N., Wichmann, H. E., Carrasquillo, M. M., Pankratz, V. S., Younkin, S. G., Jones, L., Holmans, P. A., O'Donovan, M. C., Owen, M. J., and Williams, J. (2012) The role of variation at AbetaPP, PSEN1, PSEN2, and MAPT in late onset Alzheimer's disease, *J Alzheimers Dis* 28, 377-387.
 39. Fliers, E. A., Vasquez, A. A., Poelmans, G., Rommelse, N., Altink, M., Buschgens, C., Asherson, P., Banaschewski, T., Ebstein, R., Gill, M., Miranda, A., Mulas, F., Oades, R. D., Roeyers, H., Rothenberger, A., Sergeant, J., Sonuga-Barke, E., Steinhausen, H. C., Faraone, S. V., Buitelaar, J. K., and Franke, B. (2012) Genome-wide association study of motor coordination problems in ADHD identifies genes for brain and muscle function, *The world journal of biological psychiatry : the official journal of the World Federation of Societies of Biological Psychiatry* 13, 211-222.
 40. Donohoe, G., Duignan, A., Hargreaves, A., Morris, D. W., Rose, E., Robertson, D., Cummings, E., Moore, S., Gill, M., and Corvin, A. (2012) Social cognition in bipolar disorder versus schizophrenia: comparability in mental state decoding deficits, *Bipolar disorders* 14, 743-748.
 41. Corvin, A. P., Molinos, I., Little, G., Donohoe, G., Gill, M., Morris, D. W., and Tropea, D. (2012) Insulin-like growth factor 1 (IGF1) and its active peptide (1-3)IGF1 enhance the expression of synaptic markers in neuronal circuits through different cellular mechanisms, *Neuroscience letters* 520, 51-56.
 42. Casey, J. P., Magalhaes, T., Conroy, J. M., Regan, R., Shah, N., Anney, R., Shields, D. C., Abrahams, B. S., Almeida, J., Bacchelli, E., Bailey, A. J., Baird, G., Battaglia, A., Berney, T., Bolshakova, N., Bolton, P. F., Bourgeron, T., Brennan, S., Cali, P., Correia, C., Corsello, C., Coutanche, M., Dawson, G., de Jonge, M., Delorme, R., Duketis, E., Duque, F., Estes, A., Farrar, P., Fernandez, B. A., Folstein, S. E., Foley, S., Fombonne, E., Freitag, C. M., Gilbert, J., Gillberg, C., Glessner, J. T., Green, J., Guter, S. J., Hakonarson, H., Holt, R., Hughes, G., Hus, V., Iglizoi, R., Kim, C., Klauck, S. M., Kolevzon, A., Lamb, J. A., Leboyer, M., Le Couteur, A., Leventhal, B. L., Lord, C.,

- Lund, S. C., Maestrini, E., Mantoulan, C., Marshall, C. R., McConachie, H., McDougle, C. J., McGrath, J., McMahon, W. M., Merikangas, A., Miller, J., Minopoli, F., Mirza, G. K., Munson, J., Nelson, S. F., Nygren, G., Oliveira, G., Pagnamenta, A. T., Papanikolaou, K., Parr, J. R., Parrini, B., Pickles, A., Pinto, D., Piven, J., Posey, D. J., Poustka, A., Poustka, F., Ragoussis, J., Roge, B., Rutter, M. L., Sequeira, A. F., Soorya, L., Sousa, I., Sykes, N., Stoppioni, V., Tancredi, R., Tauber, M., Thompson, A. P., Thomson, S., Tsiantis, J., Van Engeland, H., Vincent, J. B., Volkmar, F., Vorstman, J. A., Wallace, S., Wang, K., Wassink, T. H., White, K., Wing, K., Wittmeyer, K., Yaspan, B. L., Zwaigenbaum, L., Betancur, C., Buxbaum, J. D., Cantor, R. M., Cook, E. H., Coon, H., Cuccaro, M. L., Geschwind, D. H., Haines, J. L., Hallmayer, J., Monaco, A. P., Nurnberger, J. I., Jr., Pericak-Vance, M. A., Schellenberg, G. D., Scherer, S. W., Sutcliffe, J. S., Szatmari, P., Vieland, V. J., Wijsman, E. M., Green, A., Gill, M., Gallagher, L., Vicente, A., and Ennis, S. (2012) A novel approach of homozygous haplotype sharing identifies candidate genes in autism spectrum disorder, *Human genetics* 131, 565-579.
43. Birmingham, R., Carballedo, A., Lisiecka, D., Fagan, A., Morris, D., Fahey, C., Donohoe, G., Meaney, J., Gill, M., and Frodl, T. (2012) Effect of genetic variant in BICC1 on functional and structural brain changes in depression, *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology* 37, 2855-2862.
44. Banaschewski, T., Jennen-Steinmetz, C., Brandeis, D., Buitelaar, J. K., Kuntsi, J., Poustka, L., Sergeant, J. A., Sonuga-Barke, E. J., Frazier-Wood, A. C., Albrecht, B., Chen, W., Uebel, H., Schlotz, W., van der Meere, J. J., Gill, M., Manor, I., Miranda, A., Mulas, F., Oades, R. D., Roeyers, H., Rothenberger, A., Steinhausen, H. C., Faraone, S. V., and Asherson, P. (2012) Neuropsychological correlates of emotional lability in children with ADHD, *Journal of child psychology and psychiatry, and allied disciplines* 53, 1139-1148.
45. Anney, R., Klei, L., Pinto, D., Almeida, J., Bacchelli, E., Baird, G., Bolshakova, N., Bolte, S., Bolton, P. F., Bourgeron, T., Brennan, S., Brian, J., Casey, J., Conroy, J., Correia, C., Corsello, C., Crawford, E. L., de Jonge, M., Delorme, R., Duketis, E., Duque, F., Estes, A., Farrar, P., Fernandez, B. A., Folstein, S. E., Fombonne, E., Gilbert, J., Gillberg, C., Glessner, J. T., Green, A., Green, J., Guter, S. J., Heron, E. A., Holt, R., Howe, J. L., Hughes, G., Hus, V., Iglizzi, R., Jacob, S., Kenny, G. P., Kim, C., Klevzon, A., Kustanovich, V., Lajonchere, C. M., Lamb, J. A., Law-Smith, M., Leboyer, M., Le Couteur, A., Leventhal, B. L., Liu, X. Q., Lombard, F., Lord, C., Lotspeich, L., Lund, S. C., Magalhaes, T. R., Mantoulan, C., McDougle, C. J., Melhem, N. M., Merikangas, A., Minshew, N. J., Mirza, G. K., Munson, J., Noakes, C., Nygren, G., Papanikolaou, K., Pagnamenta, A. T., Parrini, B., Paton, T., Pickles, A., Posey, D. J., Poustka, F., Ragoussis, J., Regan, R., Roberts, W., Roeder, K., Roge, B., Rutter, M. L., Schlitt, S., Shah, N., Sheffield, V. C., Soorya, L., Sousa, I., Stoppioni, V., Sykes, N., Tancredi, R., Thompson, A. P., Thomson, S., Tryfon, A., Tsiantis, J., Van Engeland, H., Vincent, J. B., Volkmar, F., Vorstman, J. A., Wallace, S., Wing, K., Wittmeyer, K., Wood, S., Zurawiecki, D., Zwaigenbaum, L., Bailey, A. J., Battaglia, A., Cantor, R. M., Coon, H., Cuccaro, M. L., Dawson, G., Ennis, S., Freitag, C. M., Geschwind, D. H.,

- Haines, J. L., Klauck, S. M., McMahon, W. M., Maestrini, E., Miller, J., Monaco, A. P., Nelson, S. F., Nurnberger, J. I., Jr., Oliveira, G., Parr, J. R., Pericak-Vance, M. A., Piven, J., Schellenberg, G. D., Scherer, S. W., Vicente, A. M., Wassink, T. H., Wijsman, E. M., Betancur, C., Buxbaum, J. D., Cook, E. H., Gallagher, L., Gill, M., Hallmayer, J., Paterson, A. D., Sutcliffe, J. S., Szatmari, P., Vieland, V. J., Hakonarson, H., and Devlin, B. (2012) Individual common variants exert weak effects on the risk for autism spectrum disorders, *Human molecular genetics* 21, 4781-4792.
46. Vacic, V., McCarthy, S., Malhotra, D., Murray, F., Chou, H. H., Peoples, A., Makarov, V., Yoon, S., Bhandari, A., Corominas, R., Iakoucheva, L. M., Krastoshevsky, O., Krause, V., Larach-Walters, V., Welsh, D. K., Craig, D., Kelsoe, J. R., Gershon, E. S., Leal, S. M., Dell Aquila, M., Morris, D. W., Gill, M., Corvin, A., Insel, P. A., McClellan, J., King, M. C., Karayiorgou, M., Levy, D. L., DeLisi, L. E., and Sebat, J. (2011) Duplications of the neuropeptide receptor gene VIPR2 confer significant risk for schizophrenia, *Nature* 471, 499-503.
47. Tansey, K. E., Hill, M. J., Cochrane, L. E., Gill, M., Anney, R. J., and Gallagher, L. (2011) Functionality of promoter microsatellites of arginine vasopressin receptor 1A (AVPR1A): implications for autism, *Molecular autism* 2, 3.
48. Sonuga-Barke, E. J., Kumsta, R., Schlotz, W., Lasky-Su, J., Marco, R., Miranda, A., Mulas, F., Oades, R. D., Banaschewski, T., Mueller, U., Andreou, P., Christiansen, H., Gabriels, I., Uebel, H., Kuntsi, J., Franke, B., Buitelaar, J., Ebstein, R., Gill, M., Anney, R., Roeyers, H., Rothenberger, A., Sergeant, J., Steinhausen, H. C., Asherson, P., and Faraone, S. V. (2011) A functional variant of the serotonin transporter gene (SLC6A4) moderates impulsive choice in attention-deficit/hyperactivity disorder boys and siblings, *Biological psychiatry* 70, 230-236.
49. Sklar, P., Ripke, S., Scott, L. J., Andreassen, O. A., Cichon, S., Craddock, N., Edenberg, H. J., Nurnberger, J. I., Jr., Rietschel, M., Blackwood, D., Corvin, A., Flickinger, M., Guan, W., Mattingsdal, M., McQuillin, A., Kwan, P., Wienker, T. F., Daly, M., Dudbridge, F., Holmans, P. A., Lin, D., Burmeister, M., Greenwood, T. A., Hamshere, M. L., Muglia, P., Smith, E. N., Zandi, P. P., Nievergelt, C. M., McKinney, R., Shilling, P. D., Schork, N. J., Bloss, C. S., Foroud, T., Koller, D. L., Gershon, E. S., Liu, C., Badner, J. A., Scheftner, W. A., Lawson, W. B., Nwulia, E. A., Hipolito, M., Coryell, W., Rice, J., Byerley, W., McMahon, F. J., Schulze, T. G., Berrettini, W., Lohoff, F. W., Potash, J. B., Mahon, P. B., McInnis, M. G., Zollner, S., Zhang, P., Craig, D. W., Szelinger, S., Barrett, T. B., Breuer, R., Meier, S., Strohmaier, J., Witt, S. H., Tozzi, F., Farmer, A., McGuffin, P., Strauss, J., Xu, W., Kennedy, J. L., Vincent, J. B., Matthews, K., Day, R., Ferreira, M. A., O'Dushlaine, C., Perlis, R., Raychaudhuri, S., Ruderfer, D., Hyoun, P. L., Smoller, J. W., Li, J., Absher, D., Thompson, R. C., Meng, F. G., Schatzberg, A. F., Bunney, W. E., Barchas, J. D., Jones, E. G., Watson, S. J., Myers, R. M., Akil, H., Boehnke, M., Chambert, K., Moran, J., Scolnick, E., Djurovic, S., Melle, I., Morken, G., Gill, M., Morris, D., Quinn, E., Muhleisen, T. W., Degenhardt, F. A., Mattheisen, M., Schumacher, J., Maier, W., Steffens, M., Propping, P., Nothen, M. M., Anjorin, A., Bass, N., Gurling, H., Kandaswamy, R., Lawrence, J., McGhee, K., McIntosh, A., McLean, A. W., Muir, W. J., Pickard, B. S., Breen, G., St Clair, D., Caesar, S., Gordon-Smith, K., Jones, L., Fraser, C., Green, E. K., Grozeva, D., Jones, I.

- R., Kirov, G., Moskvina, V., Nikolov, I., O'Donovan, M. C., Owen, M. J., Collier, D. A., Elkin, A., Williamson, R., Young, A. H., Ferrier, I. N., Stefansson, K., Stefansson, H., Thorgeirsson, T., Steinberg, S., Gustafsson, O., Bergen, S. E., Nimgaonkar, V., Hultman, C., Landen, M., Lichtenstein, P., Sullivan, P., Schalling, M., Osby, U., Backlund, L., Frisen, L., Langstrom, N., Jamain, S., Leboyer, M., Etain, B., Bellivier, F., Petursson, H., Sigursson, E., Muller-Mysok, B., Lucae, S., Schwarz, M., Schofield, P. R., Martin, N., Montgomery, G. W., Lathrop, M., Oskarsson, H., Bauer, M., Wright, A., Mitchell, P. B., Hautzinger, M., Reif, A., Kelsoe, J. R., and Purcell, S. M. (2011) Large-scale genome-wide association analysis of bipolar disorder identifies a new susceptibility locus near ODZ4, *Nature genetics* 43, 977-983.
50. Sims, R., Dwyer, S., Harold, D., Gerrish, A., Hollingworth, P., Chapman, J., Jones, N., Abraham, R., Ivanov, D., Pahwa, J. S., Moskvina, V., Dowzell, K., Thomas, C., Stretton, A., Lovestone, S., Powell, J., Proitsi, P., Lupton, M. K., Brayne, C., Rubinsztein, D. C., Gill, M., Lawlor, B., Lynch, A., Morgan, K., Brown, K. S., Passmore, P. A., Craig, D., McGuinness, B., Todd, S., Johnston, J. A., Holmes, C., Mann, D., Smith, A. D., Love, S., Kehoe, P. G., Hardy, J., Mead, S., Fox, N., Rossor, M., Collinge, J., Livingston, G., Bass, N. J., Gurling, H., McQuillin, A., Jones, L., Holmans, P. A., O'Donovan, M., Owen, M. J., and Williams, J. (2011) No evidence that extended tracts of homozygosity are associated with Alzheimer's disease, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 156B, 764-771.
51. Segurado, R., Bellgrove, M. A., Manconi, F., Gill, M., and Hawi, Z. (2011) Epistasis between neurochemical gene polymorphisms and risk for ADHD, *European journal of human genetics : EJHG* 19, 577-582.
52. Schosser, A., Butler, A. W., Ising, M., Perroud, N., Uher, R., Ng, M. Y., Cohen-Woods, S., Craddock, N., Owen, M. J., Korszun, A., Jones, L., Jones, I., Gill, M., Rice, J. P., Maier, W., Mors, O., Rietschel, M., Lucae, S., Binder, E. B., Preisig, M., Perry, J., Tozzi, F., Muglia, P., Aitchison, K. J., Breen, G., Craig, I. W., Farmer, A. E., Muller-Mysok, B., McGuffin, P., and Lewis, C. M. (2011) Genomewide association scan of suicidal thoughts and behaviour in major depression, *PLoS One* 6, 5.
53. Runker, A. E., O'Tuathaigh, C., Dunleavy, M., Morris, D. W., Little, G. E., Corvin, A. P., Gill, M., Henshall, D. C., Waddington, J. L., and Mitchell, K. J. (2011) Mutation of Semaphorin-6A disrupts limbic and cortical connectivity and models neurodevelopmental psychopathology, *PLoS One* 6, e26488.
54. Rizzi, T. S., Arias-Vasquez, A., Rommelse, N., Kuntsi, J., Anney, R., Asherson, P., Buitelaar, J., Banaschewski, T., Ebstein, R., Ruano, D., Van der Sluis, S., Markunas, C. A., Garrett, M. E., Ashley-Koch, A. E., Kollins, S. H., Anastopoulos, A. D., Hansell, N. K., Wright, M. J., Montgomery, G. W., Martin, N. G., Harris, S. E., Davies, G., Tenesa, A., Porteous, D. J., Starr, J. M., Deary, I. J., St Pourcain, B., Davey Smith, G., Timpson, N. J., Evans, D. M., Gill, M., Miranda, A., Mulas, F., Oades, R. D., Roeyers, H., Rothenberger, A., Sergeant, J., Sonuga-Barke, E., Steinhausen, H. C., Taylor, E., Faraone, S. V., Franke, B., and Posthuma, D. (2011) The ATXN1 and TRIM31 genes are related to intelligence in an ADHD background: evidence from a large collaborative

study totaling 4,963 subjects, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 156, 145-157.

55. Ripke, S., Sanders, A. R., Kendler, K. S., Levinson, D. F., Sklar, P., Holmans, P. A., Lin, D. Y., Duan, J., Ophoff, R. A., Andreassen, O. A., Scolnick, E., Cichon, S., St Clair, D., Corvin, A., Gurling, H., Werge, T., Rujescu, D., Blackwood, D. H., Pato, C. N., Malhotra, A. K., Purcell, S., Dudbridge, F., Neale, B. M., Rossin, L., Visscher, P. M., Posthuma, D., Ruderfer, D. M., Fanous, A., Stefansson, H., Steinberg, S., Mowry, B. J., Golimbet, V., De Hert, M., Jonsson, E. G., Bitter, I., Pietilainen, O. P., Collier, D. A., Tosato, S., Agartz, I., Albus, M., Alexander, M., Amdur, R. L., Amin, F., Bass, N., Bergen, S. E., Black, D. W., Borglum, A. D., Brown, M. A., Bruggeman, R., Buccola, N. G., Byerley, W. F., Cahn, W., Cantor, R. M., Carr, V. J., Catts, S. V., Choudhury, K., Cloninger, C. R., Cormican, P., Craddock, N., Danoy, P. A., Datta, S., de Haan, L., Demontis, D., Dikeos, D., Djurovic, S., Donnelly, P., Donohoe, G., Duong, L., Dwyer, S., Fink-Jensen, A., Freedman, R., Freimer, N. B., Friedl, M., Georgieva, L., Giegling, I., Gill, M., Glenthøj, B., Godard, S., Hamshere, M., Hansen, M., Hansen, T., Hartmann, A. M., Henskens, F. A., Hougaard, D. M., Hultman, C. M., Ingason, A., Jablensky, A. V., Jakobsen, K. D., Jay, M., Jurgens, G., Kahn, R. S., Keller, M. C., Kenis, G., Kenny, E., Kim, Y., Kirov, G. K., Konnerth, H., Konte, B., Krabbendam, L., Krasucki, R., Lasseter, V. K., Laurent, C., Lawrence, J., Lencz, T., Lerer, F. B., Liang, K. Y., Lichtenstein, P., Lieberman, J. A., Linszen, D. H., Lonqvist, J., Loughland, C. M., Maclean, A. W., Maher, B. S., Maier, W., Mallet, J., Malloy, P., Mattheisen, M., Mattingsdal, M., McGhee, K. A., McGrath, J. J., McIntosh, A., McLean, D. E., McQuillin, A., Melle, I., Michie, P. T., Milanova, V., Morris, D. W., Mors, O., Mortensen, P. B., Moskvina, V., Muglia, P., Myin-Germeys, I., Nertney, D. A., Nestadt, G., Nielsen, J., Nikolov, I., Nordentoft, M., Norton, N., Nothen, M. M., O'Dushlaine, C. T., Olincy, A., Olsen, L., O'Neill, F. A., Orntoft, T. F., Owen, M. J., Pantelis, C., Papadimitriou, G., Pato, M. T., Peltonen, L., Petursson, H., Pickard, B., Pimm, J., Pulver, A. E., Puri, V., Quedsted, D., Quinn, E. M., Rasmussen, H. B., Rethelyi, J. M., Ribble, R., Rietschel, M., Riley, B. P., Ruggeri, M., Schall, U., Schulze, T. G., Schwab, S. G., Scott, R. J., Shi, J., Sigurdsson, E., Silverman, J. M., Spencer, C. C., Stefansson, K., Strange, A., Strengman, E., Stroup, T. S., Suvisaari, J., Terenius, L., Thirumalai, S., Thygesen, J. H., Timm, S., Toncheva, D., van den Oord, E., van Os, J., van Winkel, R., Veldink, J., Walsh, D., Wang, A. G., Wiersma, D., Wildenauer, D. B., Williams, H. J., Williams, N. M., Wormley, B., Zammit, S., Sullivan, P. F., O'Donovan, M. C., Daly, M. J., and Gejman, P. V. (2011) Genome-wide association study identifies five new schizophrenia loci, *Nature genetics* 43, 969-976.
56. Muller, U. C., Asherson, P., Banaschewski, T., Buitelaar, J. K., Ebstein, R. P., Eisenberg, J., Gill, M., Manor, I., Miranda, A., Oades, R. D., Roeyers, H., Rothenberger, A., Sergeant, J. A., Sonuga-Barke, E. J., Thompson, M., Faraone, S. V., and Steinhausen, H. C. (2011) The impact of study design and diagnostic approach in a large multi-centre ADHD study. Part 1: ADHD symptom patterns, *BMC psychiatry* 11, 54.
57. Muller, U. C., Asherson, P., Banaschewski, T., Buitelaar, J. K., Ebstein, R. P., Eisenberg, J., Gill, M., Manor, I., Miranda, A., Oades, R. D., Roeyers, H., Rothenberger, A.,

- Sergeant, J. A., Sonuga-Barke, E. J., Thompson, M., Faraone, S. V., and Steinhausen, H. C. (2011) The impact of study design and diagnostic approach in a large multi-centre ADHD study: Part 2: Dimensional measures of psychopathology and intelligence, *BMC psychiatry* 11, 55.
58. Kenny, E. M., Cormican, P., Gilks, W. P., Gates, A. S., O'Dushlaine, C. T., Pinto, C., Corvin, A. P., Gill, M., and Morris, D. W. (2011) Multiplex target enrichment using DNA indexing for ultra-high throughput SNP detection, *DNA Res* 18, 31-38.
59. Hollingworth, P., Harold, D., Sims, R., Gerrish, A., Lambert, J. C., Carrasquillo, M. M., Abraham, R., Hamshere, M. L., Pahwa, J. S., Moskvina, V., Dowzell, K., Jones, N., Stretton, A., Thomas, C., Richards, A., Ivanov, D., Widdowson, C., Chapman, J., Lovestone, S., Powell, J., Proitsi, P., Lupton, M. K., Brayne, C., Rubinsztein, D. C., Gill, M., Lawlor, B., Lynch, A., Brown, K. S., Passmore, P. A., Craig, D., McGuinness, B., Todd, S., Holmes, C., Mann, D., Smith, A. D., Beaumont, H., Warden, D., Wilcock, G., Love, S., Kehoe, P. G., Hooper, N. M., Vardy, E. R., Hardy, J., Mead, S., Fox, N. C., Rossor, M., Collinge, J., Maier, W., Jessen, F., Ruther, E., Schurmann, B., Heun, R., Kolsch, H., van den Bussche, H., Heuser, I., Kornhuber, J., Wiltfang, J., Dichgans, M., Frolich, L., Hampel, H., Gallacher, J., Hull, M., Rujescu, D., Giegling, I., Goate, A. M., Kauwe, J. S., Cruchaga, C., Nowotny, P., Morris, J. C., Mayo, K., Sleegers, K., Bettens, K., Engelborghs, S., De Deyn, P. P., Van Broeckhoven, C., Livingston, G., Bass, N. J., Gurling, H., McQuillin, A., Gwilliam, R., Deloukas, P., Al-Chalabi, A., Shaw, C. E., Tsolaki, M., Singleton, A. B., Guerreiro, R., Muhleisen, T. W., Nothen, M. M., Moebus, S., Jockel, K. H., Klopp, N., Wichmann, H. E., Pankratz, V. S., Sando, S. B., Aasly, J. O., Barcikowska, M., Wszolek, Z. K., Dickson, D. W., Graff-Radford, N. R., Petersen, R. C., Alzheimer's Disease Neuroimaging, I., van Duijn, C. M., Breteler, M. M., Ikram, M. A., DeStefano, A. L., Fitzpatrick, A. L., Lopez, O., Launer, L. J., Seshadri, S., consortium, C., Berr, C., Campion, D., Epelbaum, J., Dartigues, J. F., Tzourio, C., Alperovitch, A., Lathrop, M., consortium, E., Feulner, T. M., Friedrich, P., Riehle, C., Krawczak, M., Schreiber, S., Mayhaus, M., Nicolhaus, S., Wagenpfeil, S., Steinberg, S., Stefansson, H., Stefansson, K., Snaedal, J., Bjornsson, S., Jonsson, P. V., Chouraki, V., Genier-Boley, B., Hiltunen, M., Soininen, H., Combarros, O., Zelenika, D., Delepine, M., Bullido, M. J., Pasquier, F., Mateo, I., Frank-Garcia, A., Porcellini, E., Hanon, O., Coto, E., Alvarez, V., Bosco, P., Siciliano, G., Mancuso, M., Panza, F., Solfrizzi, V., Nacmias, B., Sorbi, S., Bossu, P., Piccardi, P., Arosio, B., Annoni, G., Seripa, D., Pilotto, A., Scarpini, E., Galimberti, D., Brice, A., Hannequin, D., Licastro, F., Jones, L., Holmans, P. A., Jonsson, T., Riemenschneider, M., Morgan, K., Younkin, S. G., Owen, M. J., O'Donovan, M., Amouyel, P., and Williams, J. (2011) Common variants at ABCA7, MS4A6A/MS4A4E, EPHA1, CD33 and CD2AP are associated with Alzheimer's disease, *Nature genetics* 43, 429-435.
60. Hill, M. J., Kenny, E., Roche, S., Morris, D. W., Corvin, A., Hawi, Z., Gill, M., and Anney, R. J. (2011) Allelic expression imbalance of the schizophrenia susceptibility gene CHI3L1: evidence of cis-acting variation and tissue specific regulation, *Psychiatr Genet* 21, 281-286.
61. Heron, E. A., O'Dushlaine, C., Segurado, R., Gallagher, L., and Gill, M. (2011) Exploration of empirical Bayes hierarchical modeling for the analysis of genome-wide

- association study data, *Biostatistics* 12, 445-461.
62. Gaspar, M., May, J. S., Sukla, S., Frederico, B., Gill, M. B., Smith, C. M., Belz, G. T., and Stevenson, P. G. (2011) Murid herpesvirus-4 exploits dendritic cells to infect B cells, *PLoS pathogens* 7, 10.
 63. Donohoe, G., Walters, J., Morris, D. W., Da Costa, A., Rose, E., Hargreaves, A., Maher, K., Hayes, E., Giegling, I., Hartmann, A. M., Moller, H. J., Muglia, P., Moskvina, V., Owen, M. J., O'Donovan, M. C., Gill, M., Corvin, A., and Rujescu, D. (2011) A neuropsychological investigation of the genome wide associated schizophrenia risk variant *NRGN rs12807809*, *Schizophr Res.* 2011 Feb;125(2-3):304-6. Epub 2010 Nov 26.
 64. Donohoe, G., Walters, J., Morris, D. W., Da Costa, A., Rose, E., Hargreaves, A., Maher, K., Hayes, E., Giegling, I., Hartmann, A. M., Moller, H. J., Muglia, P., Moskvina, V., Owen, M. J., O'Donovan, M. C., Gill, M., Corvin, A., and Rujescu, D. (2011) A neuropsychological investigation of the genome wide associated schizophrenia risk variant *NRGN rs12807809*, *Schizophrenia research* 125, 304-306.
 65. Donohoe, G., Rose, E., Frodl, T., Morris, D., Spoletini, I., Adriano, F., Bernardini, S., Caltagirone, C., Bossu, P., Gill, M., Corvin, A. P., and Spalletta, G. (2011) ZNF804A risk allele is associated with relatively intact gray matter volume in patients with schizophrenia, *NeuroImage* 54, 2132-2137.
 66. Dagdan, E., Morris, D. W., Campbell, M., Hill, M., Rothermundt, M., Kastner, F., Hohoff, C., von Eiff, C., Krakowitzky, P., Gill, M., McKeon, P., and Roche, S. (2011) Functional assessment of a promoter polymorphism in S100B, a putative risk variant for bipolar disorder, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 156B, 691-699.
 67. Bridges, M., Heron, E. A., O'Dushlaine, C., Segurado, R., Morris, D., Corvin, A., Gill, M., and Pinto, C. (2011) Genetic classification of populations using supervised learning, *PLoS One* 6.
 68. Braet, W., Johnson, K. A., Tobin, C. T., Acheson, R., McDonnell, C., Hawi, Z., Barry, E., Mulligan, A., Gill, M., Bellgrove, M. A., Robertson, I. H., and Garavan, H. (2011) fMRI activation during response inhibition and error processing: the role of the DAT1 gene in typically developing adolescents and those diagnosed with ADHD, *Neuropsychologia* 49, 1641-1650.
 69. Anney, R. J., Kenny, E. M., O'Dushlaine, C., Yaspan, B. L., Parkhomenka, E., Buxbaum, J. D., Sutcliffe, J., Gill, M., Gallagher, L., Buxbaum, J. D., Sutcliffe, J., Gill, M., and Gallagher, L. (2011) Gene-ontology enrichment analysis in two independent family-based samples highlights biologically plausible processes for autism spectrum disorders, *European journal of human genetics : EJHG* 19, 1082-1089.

Orla Hardiman

1. van Rheenen, W., Diekstra, F. P., van Doormaal, P. T., Seelen, M., Kenna, K.,

- McLaughlin, R., Shatunov, A., Czell, D., van Es, M. A., van Vught, P. W., van Damme, P., Smith, B. N., Waibel, S., Schelhaas, H. J., van der Kooi, A. J., de Visser, M., Weber, M., Robberecht, W., Hardiman, O., Shaw, P. J., Shaw, C. E., Morrison, K. E., Al-Chalabi, A., Andersen, P. M., Ludolph, A. C., Veldink, J. H., and van den Berg, L. H. (2013) H63D polymorphism in HFE is not associated with amyotrophic lateral sclerosis, *Neurobiol Aging* 34, 1517 e1515-1517.
2. Turner, M. R., Hardiman, O., Benatar, M., Brooks, B. R., Chio, A., de Carvalho, M., Ince, P. G., Lin, C., Miller, R. G., Mitsumoto, H., Nicholson, G., Ravits, J., Shaw, P. J., Swash, M., Talbot, K., Traynor, B. J., Van den Berg, L. H., Veldink, J. H., Vucic, S., and Kiernan, M. C. (2013) Controversies and priorities in amyotrophic lateral sclerosis, *Lancet neurology* 12, 310-322.
 3. Rooney, J., Byrne, S., Heverin, M., Corr, B., Elamin, M., Staines, A., Goldacre, B., and Hardiman, O. (2013) Survival analysis of irish amyotrophic lateral sclerosis patients diagnosed from 1995-2010, *PLoS One* 8, e74733.
 4. Kenna, K. P., McLaughlin, R. L., Hardiman, O., and Bradley, D. G. (2013) Using reference databases of genetic variation to evaluate the potential pathogenicity of candidate disease variants, *Human mutation* 34, 836-841.
 5. Kenna, K. P., McLaughlin, R. L., Byrne, S., Elamin, M., Heverin, M., Kenny, E. M., Cormican, P., Morris, D. W., Donaghy, C. G., Bradley, D. G., and Hardiman, O. (2013) Delineating the genetic heterogeneity of ALS using targeted high-throughput sequencing, *Journal of medical genetics* 50, 776-783.
 6. Group, A. L., Fournier, C., Bedlack, B., Hardiman, O., Heiman-Patterson, T., Gutmann, L., Bromberg, M., Ostrow, L., Carter, G., Kabashi, E., Bertorini, T., Mozaffar, T., Andersen, P., Dietz, J., Gamez, J., Dimachkie, M., Wang, Y., Wicks, P., Heywood, J., Novella, S., Rowland, L. P., Pioro, E., Kinsley, L., Mitchell, K., Glass, J., Sathornsumetee, S., Kwiecinski, H., Baker, J., Atassi, N., Forshew, D., Ravits, J., Conwit, R., Jackson, C., Sherman, A., Dalton, K., Tindall, K., Gonzalez, G., Robertson, J., Phillips, L., Benatar, M., Sorenson, E., Shoesmith, C., Nash, S., Maragakis, N., Moore, D., Caress, J., Boylan, K., Armon, C., Grosso, M., Gerecke, B., Wymer, J., Oskarsson, B., Bowser, R., Drory, V., Shefner, J., Lechtzin, N., Leitner, M., Miller, R., Mitsumoto, H., Levine, T., Russell, J., Sharma, K., Saperstein, D., McClusky, L., MacGowan, D., Licht, J., Verma, A., Strong, M., Lomen-Hoerth, C., Tandan, R., Rivner, M., Kolb, S., Polak, M., Rudnicki, S., Kittrell, P., Quereshi, M., Sachs, G., Pattee, G., Weiss, M., Kissel, J., Goldstein, J., Rothstein, J., Pastula, D., Gleb, L., Ogino, M., Rosenfeld, J., Carmi, E., Oster, C., Barkhaus, P., and Valor, E. (2013) ALS Untangled No. 20: the Deanna protocol, *Amyotrophic lateral sclerosis & frontotemporal degeneration* 14, 319-323.
 7. Factor-Litvak, P., Al-Chalabi, A., Ascherio, A., Bradley, W., Chio, A., Garruto, R., Hardiman, O., Kamel, F., Kasarskis, E., McKee, A., Nakano, I., Nelson, L. M., and Eisen, A. (2013) Current pathways for epidemiological research in amyotrophic lateral sclerosis, *Amyotrophic lateral sclerosis & frontotemporal degeneration* 14 Suppl 1, 33-43.

8. Elamin, M., Bede, P., Byrne, S., Jordan, N., Gallagher, L., Wynne, B., O'Brien, C., Phukan, J., Lynch, C., Pender, N., and Hardiman, O. (2013) Cognitive changes predict functional decline in ALS: a population-based longitudinal study, *Neurology* 80, 1590-1597.
9. Cudkovicz, M. E., van den Berg, L. H., Shefner, J. M., Mitsumoto, H., Mora, J. S., Ludolph, A., Hardiman, O., Bozik, M. E., Ingersoll, E. W., Archibald, D., Meyers, A. L., Dong, Y., Farwell, W. R., Kerr, D. A., and investigators, E. (2013) Dexamipexole versus placebo for patients with amyotrophic lateral sclerosis (EMPOWER): a randomised, double-blind, phase 3 trial, *Lancet neurology* 12, 1059-1067.
10. Consortium, A., Ahmeti, K. B., Ajroud-Driss, S., Al-Chalabi, A., Andersen, P. M., Armstrong, J., Birve, A., Blauw, H. M., Brown, R. H., Bruijn, L., Chen, W., Chio, A., Comeau, M. C., Cronin, S., Diekstra, F. P., Soraya Gkazi, A., Glass, J. D., Grab, J. D., Groen, E. J., Haines, J. L., Hardiman, O., Heller, S., Huang, J., Hung, W. Y., consortium, I., Jaworski, J. M., Jones, A., Khan, H., Landers, J. E., Langefeld, C. D., Leigh, P. N., Marion, M. C., McLaughlin, R. L., Meininger, V., Melki, J., Miller, J. W., Mora, G., Pericak-Vance, M. A., Rampersaud, E., Robberecht, W., Russell, L. P., Salachas, F., Saris, C. G., Shatunov, A., Shaw, C. E., Siddique, N., Siddique, T., Smith, B. N., Sufit, R., Topp, S., Traynor, B. J., Vance, C., van Damme, P., van den Berg, L. H., van Es, M. A., van Vught, P. W., Veldink, J. H., Yang, Y., and Zheng, J. G. (2013) Age of onset of amyotrophic lateral sclerosis is modulated by a locus on 1p34.1, *Neurobiol Aging* 34, 357 e357-319.
11. Byrne, S., Pradhan, F., Ni Dhubhghaill, S., Treacy, M., Cassidy, L., and Hardiman, O. (2013) Blink rate in ALS, *Amyotrophic lateral sclerosis & frontotemporal degeneration* 14, 291-293.
12. Byrne, S., Jordan, I., Elamin, M., and Hardiman, O. (2013) Age at onset of amyotrophic lateral sclerosis is proportional to life expectancy, *Amyotrophic lateral sclerosis & frontotemporal degeneration* 14, 604-607.
13. Byrne, S., Heverin, M., Elamin, M., Bede, P., Lynch, C., Kenna, K., MacLaughlin, R., Walsh, C., Al Chalabi, A., and Hardiman, O. (2013) Aggregation of neurologic and neuropsychiatric disease in amyotrophic lateral sclerosis kindreds: a population-based case-control cohort study of familial and sporadic amyotrophic lateral sclerosis, *Annals of neurology* 74, 699-708.
14. Bede, P., Elamin, M., Byrne, S., McLaughlin, R. L., Kenna, K., Vajda, A., Pender, N., Bradley, D. G., and Hardiman, O. (2013) Basal ganglia involvement in amyotrophic lateral sclerosis, *Neurology* 81, 2107-2115.
15. Bede, P., Bokde, A. L., Byrne, S., Elamin, M., McLaughlin, R. L., Kenna, K., Fagan, A. J., Pender, N., Bradley, D. G., and Hardiman, O. (2013) Multiparametric MRI study of ALS stratified for the C9orf72 genotype, *Neurology* 81, 361-369.
16. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H., Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., Hardiman, O., Teipel, S. J., Wegrzyn, M., Meindl, T., Frisoni, G., Bokde, A. L., Fellgiebel, A., Filippi, M., Hampel, H., Kloppel, S., Hauenstein, K., Ewers, M., Kehoe, E. G., Toomey, J. M., Balsters, J. H.,

- Bokde, A. L., Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., Donohoe, G., O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, R., Coughlan, T., Prvulovic, D., and Hampel, H. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging study of ALS motor phenotype heterogeneity and cortical focality. *J Neurol Neurosurg Psychiatry* 84, 766-773.
17. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H., Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., and Hardiman, O. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging study of ALS motor phenotype heterogeneity and cortical focality, *J Neurol Neurosurg Psychiatry* 84, 766-773.
 18. Al-Chalabi, A., and Hardiman, O. (2013) The epidemiology of ALS: a conspiracy of genes, environment and time, *Nature reviews. Neurology* 9, 617-628.
 19. Van Hoecke, A., Schoonaert, L., Lemmens, R., Timmers, M., Staats, K. A., Laird, A. S., Peeters, E., Philips, T., Goris, A., Dubois, B., Andersen, P. M., Al-Chalabi, A., Thijs, V., Turnley, A. M., van Vught, P. W., Veldink, J. H., Hardiman, O., Van Den Bosch, L., Gonzalez-Perez, P., Van Damme, P., Brown, R. H., Jr., van den Berg, L. H., and Robberecht, W. (2012) EPHA4 is a disease modifier of amyotrophic lateral sclerosis in animal models and in humans, *Nature medicine* 18, 1418-1422.
 20. Phukan, J., Elamin, M., Bede, P., Jordan, N., Gallagher, L., Byrne, S., Lynch, C., Pender, N., and Hardiman, O. (2012) The syndrome of cognitive impairment in amyotrophic lateral sclerosis: a population-based study, *J Neurol Neurosurg Psychiatry* 83, 102-108.
 21. Murray, D., Meldrum, D., Moloney, R., Campion, A., Horgan, F., and Hardiman, O. (2012) The effects of a home-based arm ergometry exercise programme on physical fitness, fatigue and activity in polio survivors: protocol for a randomised controlled trial, *BMC neurology* 12, 157.
 22. Hardiman, O., and Figlewicz, D. A. (2012) The expansions of ALS, *Neurology* 79, 842-843.
 23. Hardiman, O. (2012) Multidisciplinary care in ALS: expanding the team, *Amyotrophic lateral sclerosis : official publication of the World Federation of Neurology Research Group on Motor Neuron Diseases* 13, 165.
 24. Foley, G., Timonen, V., and Hardiman, O. (2012) Patients' perceptions of services and preferences for care in amyotrophic lateral sclerosis: a review, *Amyotrophic lateral sclerosis : official publication of the World Federation of Neurology Research Group on Motor Neuron Diseases* 13, 11-24.
 25. Foley, G., Timonen, V., and Hardiman, O. (2012) Experience of services as a key outcome in amyotrophic lateral sclerosis (ALS) care: the case for a better understanding of patient experiences, *The American journal of hospice & palliative care* 29, 362-367.
 26. Fischer, F. U., Scheurich, A., Wegryzn, M., Schermuly, I., Bokde, A. L., Kloppel, S., Pouwels, P. J., Teipel, S., Yakushev, I., Fellgiebel, A., Bede, P., Bokde, A. L., Byrne, S.,

- Elamin, M., Fagan, A. J., Hardiman, O., Byrne, S., Elamin, M., Bede, P., Shatunov, A., Walsh, C., Corr, B., Heverin, M., Jordan, N., Kenna, K., Lynch, C., McLaughlin, R. L., Iyer, P. M., O'Brien, C., Phukan, J., Wynne, B., Bokde, A. L., Bradley, D. G., Pender, N., Al-Chalabi, A., and Hardiman, O. (2012) Automated tractography of the cingulate bundle in Alzheimer's disease: a multicenter DTI study, *J Magn Reson Imaging* 36, 84-91.
27. Elamin, M., Pender, N., Hardiman, O., and Abrahams, S. (2012) Social cognition in neurodegenerative disorders: a systematic review, *J Neurol Neurosurg Psychiatry* 83, 1071-1079.
28. Diekstra, F. P., Saris, C. G., van Rheenen, W., Franke, L., Jansen, R. C., van Es, M. A., van Vught, P. W., Blauw, H. M., Groen, E. J., Horvath, S., Estrada, K., Rivadeneira, F., Hofman, A., Uitterlinden, A. G., Robberecht, W., Andersen, P. M., Melki, J., Meininger, V., Hardiman, O., Landers, J. E., Brown, R. H., Jr., Shatunov, A., Shaw, C. E., Leigh, P. N., Al-Chalabi, A., Ophoff, R. A., van den Berg, L. H., and Veldink, J. H. (2012) Mapping of gene expression reveals CYP27A1 as a susceptibility gene for sporadic ALS, *PLoS One* 7, e35333.
29. Diagnosis, E. T. F. o., Management of Amyotrophic Lateral, S., Andersen, P. M., Abrahams, S., Borasio, G. D., de Carvalho, M., Chio, A., Van Damme, P., Hardiman, O., Kollewe, K., Morrison, K. E., Petri, S., Pradat, P. F., Silani, V., Tomik, B., Wasner, M., and Weber, M. (2012) EFNS guidelines on the clinical management of amyotrophic lateral sclerosis (MALS)--revised report of an EFNS task force, *European journal of neurology : the official journal of the European Federation of Neurological Societies* 19, 360-375.
30. Byrne, S., Elamin, M., Bede, P., Shatunov, A., Walsh, C., Corr, B., Heverin, M., Jordan, N., Kenna, K., Lynch, C., McLaughlin, R. L., Iyer, P. M., O'Brien, C., Phukan, J., Wynne, B., Bokde, A. L., Bradley, D. G., Pender, N., Al-Chalabi, A., and Hardiman, O. (2012) Cognitive and clinical characteristics of patients with amyotrophic lateral sclerosis carrying a C9orf72 repeat expansion: a population-based cohort study, *Lancet neurology* 11, 232-240.
31. Byrne, S., Elamin, M., Bede, P., and Hardiman, O. (2012) Absence of consensus in diagnostic criteria for familial neurodegenerative diseases, *J Neurol Neurosurg Psychiatry* 83, 365-367.
32. Bede, P., Bokde, A. L., Byrne, S., Elamin, M., Fagan, A. J., and Hardiman, O. (2012) Spinal cord markers in ALS: diagnostic and biomarker considerations, *Amyotrophic lateral sclerosis : official publication of the World Federation of Neurology Research Group on Motor Neuron Diseases* 13, 407-415.
33. Andersen, P. M., Abrahams, S., Borasio, G. D., de Carvalho, M., Chio, A., Van Damme, P., Hardiman, O., Kollewe, K., Morrison, K. E., Petri, S., Pradat, P. F., Silani, V., Tomik, B., Wasner, M., and Weber, M. (2012) EFNS guidelines on the clinical management of amyotrophic lateral sclerosis (MALS)--revised report of an EFNS task force, *European journal of neurology : the official journal of the European Federation of Neurological Societies* 19, 360-375.
34. Prvulovic, D., Bokde, A. L., Faltraco, F., Hampel, H., O'Dwyer, L., Lamberton, F.,

- Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, D. R., Coughlan, T., Prvulovic, D., Hampel, H., Bede, P., Bokde, A. L., Byrne, S. C., Elamin, M., Walsh, R. J., Hardiman, O., Ewers, M., Walsh, C., Trojanowski, J. Q., Shaw, L. M., Petersen, R. C., Jack, C. R., Jr., Feldman, H. H., Bokde, A. L., Alexander, G. E., Scheltens, P., Vellas, B., Dubois, B., Weiner, M., and Hampel, H. (2011) Functional magnetic resonance imaging as a dynamic candidate biomarker for Alzheimer's disease. *Prog Neurobiol* 95, 557-569.
35. Kiernan, M. C., Vucic, S., Cheah, B. C., Turner, M. R., Eisen, A., Hardiman, O., Burrell, J. R., and Zoing, M. C. (2011) Amyotrophic lateral sclerosis, *Lancet* 377, 942-955.
 36. Hardiman, O., van den Berg, L. H., and Kiernan, M. C. (2011) Clinical diagnosis and management of amyotrophic lateral sclerosis, *Nature reviews. Neurology* 7, 639-649.
 37. Hardiman, O. (2011) Management of respiratory symptoms in ALS, *Journal of neurology* 258, 359-365.
 38. Hardiman, O. (2011) *Amyotrophic lateral sclerosis and vascular risk: a metabolic conundrum*, *J Neurol Neurosurg Psychiatry*. 2011 Jun;82(6):591.
 39. Byrne, S., Walsh, C., Lynch, C., Bede, P., Elamin, M., Kenna, K., McLaughlin, R., and Hardiman, O. (2011) Rate of familial amyotrophic lateral sclerosis: a systematic review and meta-analysis, *J Neurol Neurosurg Psychiatry* 82, 623-627.
 40. Byrne, S., Bede, P., Elamin, M., Kenna, K., Lynch, C., McLaughlin, R., and Hardiman, O. (2011) Proposed criteria for familial amyotrophic lateral sclerosis, *Amyotrophic lateral sclerosis : official publication of the World Federation of Neurology Research Group on Motor Neuron Diseases* 12, 157-159.
 41. Beghi, E., Chio, A., Couratier, P., Esteban, J., Hardiman, O., Logroscino, G., Millul, A., Mitchell, D., Preux, P. M., Pupillo, E., Stevic, Z., Swingler, R., Traynor, B. J., Van den Berg, L. H., Veldink, J. H., and Zoccolella, S. (2011) The epidemiology and treatment of ALS: focus on the heterogeneity of the disease and critical appraisal of therapeutic trials, *Amyotrophic lateral sclerosis : official publication of the World Federation of Neurology Research Group on Motor Neuron Diseases* 12, 1-10.
 42. Bede, P., Oliver, D., Stodart, J., van den Berg, L., Simmons, Z., D, O. B., Borasio, G. D., and Hardiman, O. (2011) Palliative care in amyotrophic lateral sclerosis: a review of current international guidelines and initiatives, *J Neurol Neurosurg Psychiatry* 82, 413-418.
 43. Bede, P., Bokde, A. L., Byrne, S. C., Elamin, M., Walsh, R. J., and Hardiman, O. (2011) Waterskier's Hirayama syndrome, *Journal of neurology* 258, 2078-2079.
 44. Barry, H., Hardiman, O., Healy, D. G., Keogan, M., Moroney, J., Molnar, P. P., Cotter, D. R., and Murphy, K. C. (2011) Anti-NMDA receptor encephalitis: an important differential diagnosis in psychosis, *The British journal of psychiatry : the journal of mental science* 199, 508-509.

Andrew Harkin

1. Chadderton, N., Palfi, A., Millington-Ward, S., Gobbo, O., Overlack, N., Carrigan, M., O'Reilly, M., Campbell, M., Ehrhardt, C., Wolfrum, U., Humphries, P., Kenna, P. F., and Farrar, G. J. (2013) Intravitreal delivery of AAV-ND11 provides functional benefit in a murine model of Leber hereditary optic neuropathy, *European journal of human genetics* : *EJHG* 21, 62-68.
2. Campbell, M., Humphries, M. M., and Humphries, P. (2013) Barrier modulation in drug delivery to the retina, *Methods in molecular biology (Clifton, N.J.)* 935, 371-380.
3. Tam, L. C., Kiang, A. S., Campbell, M., Keaney, J., Farrar, G. J., Humphries, M. M., Kenna, P. F., and Humphries, P. (2012) Protein misfolding and potential therapeutic treatments in inherited retinopathies, *Advances in experimental medicine and biology* 723, 567-572.
4. Palfi, A., Chadderton, N., McKee, A. G., Blanco Fernandez, A., Humphries, P., Kenna, P. F., and Farrar, G. J. (2012) Efficacy of codelivery of dual AAV2/5 vectors in the murine retina and hippocampus, *Human gene therapy* 23, 847-858.
5. Nguyen, A. T., Campbell, M., Kenna, P. F., Kiang, A. S., Tam, L., Humphries, M. M., and Humphries, P. (2012) Calpain and photoreceptor apoptosis, *Advances in experimental medicine and biology* 723, 547-552.
6. Humphries, M. M., Kenna, P. F., Campbell, M., Tam, L. C., Nguyen, A. T., Farrar, G. J., Botto, M., Kiang, A. S., and Humphries, P. (2012) C1q enhances cone photoreceptor survival in a mouse model of autosomal recessive retinitis pigmentosa, *European journal of human genetics* : *EJHG* 20, 64-68.
7. Hanrahan, F., Campbell, M., Nguyen, A. T., Suzuki, M., Kiang, A. S., Tam, L. C., Gobbo, O. L., Dhuhghaill, S. N., Humphries, M. M., Kenna, P. F., and Humphries, P. (2012) On further development of barrier modulation as a technique for systemic ocular drug delivery, *Advances in experimental medicine and biology* 723, 155-159.
8. Fischer, M. D., Huber, G., Paquet-Durand, F., Humphries, P., Redmond, T. M., Grimm, C., and Seeliger, M. W. (2012) In vivo assessment of rodent retinal structure using spectral domain optical coherence tomography, *Advances in experimental medicine and biology* 723, 489-494.
9. Farrar, G. J., Millington-Ward, S., Chadderton, N., Humphries, P., and Kenna, P. F. (2012) Gene-based therapies for dominantly inherited retinopathies, *Gene therapy* 19, 137-144.
10. Doyle, S. L., Campbell, M., Ozaki, E., Salomon, R. G., Mori, A., Kenna, P. F., Farrar, G. J., Kiang, A. S., Humphries, M. M., Lavelle, E. C., O'Neill, L. A., Hollyfield, J. G., and Humphries, P. (2012) NLRP3 has a protective role in age-related macular degeneration through the induction of IL-18 by drusen components, *Nature medicine* 18, 791-798.
11. Czekaj, M., Haas, J., Gebhardt, M., Muller-Reichert, T., Humphries, P., Farrar, J., Bartsch, U., and Ader, M. (2012) In vitro expanded stem cells from the developing retina fail to generate photoreceptors but differentiate into myelinating oligodendrocytes, *PLoS One* 7, e41798.
12. Campbell, M., and Humphries, P. (2012) The blood-retina barrier: tight junctions and

- barrier modulation, *Advances in experimental medicine and biology* 763, 70-84.
13. Campbell, M., Hanrahan, F., Gobbo, O. L., Kelly, M. E., Kiang, A. S., Humphries, M. M., Nguyen, A. T., Ozaki, E., Keaney, J., Blau, C. W., Kerskens, C. M., Cahalan, S. D., Callanan, J. J., Wallace, E., Grant, G. A., Doherty, C. P., and Humphries, P. (2012) Targeted suppression of claudin-5 decreases cerebral oedema and improves cognitive outcome following traumatic brain injury, *Nature communications* 3, 849.
 14. Seeliger, M. W., Brombas, A., Weiler, R., Humphries, P., Knop, G., Tanimoto, N., and Muller, F. (2011) Modulation of rod photoreceptor output by HCN1 channels is essential for regular mesopic cone vision, *Nature communications* 2, 532.
 15. Millington-Ward, S., Chadderton, N., O'Reilly, M., Palfi, A., Goldmann, T., Kilty, C., Humphries, M., Wolfrum, U., Bennett, J., Humphries, P., Kenna, P. F., and Farrar, G. J. (2011) Suppression and replacement gene therapy for autosomal dominant disease in a murine model of dominant retinitis pigmentosa, *Molecular therapy : the journal of the American Society of Gene Therapy* 19, 642-649.
 16. Keaney, J., Campbell, M., and Humphries, P. (2011) From RNA interference technology to effective therapy: how far have we come and how far to go?, *Therapeutic delivery* 2, 1395-1406.
 17. Campbell, M., and Humphries, P. (2011) Size-selective and in vitro assessment of inner blood retina barrier permeability, *Methods in molecular biology (Clifton, N.J.)* 763, 355-367.
 18. Campbell, M., Humphries, M. M., Kiang, A. S., Nguyen, A. T., Gobbo, O. L., Tam, L. C., Suzuki, M., Hanrahan, F., Ozaki, E., Farrar, G. J., Kenna, P. F., and Humphries, P. (2011) Systemic low-molecular weight drug delivery to pre-selected neuronal regions, *EMBO molecular medicine* 3, 235-245.
 19. Bowne, S. J., Humphries, M. M., Sullivan, L. S., Kenna, P. F., Tam, L. C., Kiang, A. S., Campbell, M., Weinstock, G. M., Koboldt, D. C., Ding, L., Fulton, R. S., Sodergren, E. J., Allman, D., Millington-Ward, S., Palfi, A., McKee, A., Blanton, S. H., Slifer, S., Konidari, I., Farrar, G. J., Daiger, S. P., and Humphries, P. (2011) A dominant mutation in RPE65 identified by whole-exome sequencing causes retinitis pigmentosa with choroidal involvement, *European journal of human genetics : EJHG* 19, 1074-1081.

Aine Kelly

1. Callaghan, C. K., and Kelly, A. M. (2013) Neurotrophins play differential roles in short and long-term recognition memory, *Neurobiology of learning and memory* 104, 39-48.
2. Birch, A. M., McGarry, N. B., and Kelly, A. M. (2013) Short-term environmental enrichment, in the absence of exercise, improves memory, and increases NGF concentration, early neuronal survival, and synaptogenesis in the dentate gyrus in a time-dependent manner, *Hippocampus* 23, 437-450.
3. Birch, A. M., and Kelly, A. M. (2013) Chronic intracerebroventricular infusion of nerve growth factor improves recognition memory in the rat, *Neuropharmacology* 75, 255-261.

4. Bechara, R. G., Lyne, R., and Kelly, A. M. (2013) BDNF-stimulated intracellular signalling mechanisms underlie exercise-induced improvement in spatial memory in the male Wistar rat, *Behavioural brain research*.
5. Callaghan, C. K., and Kelly, A. M. (2012) Differential BDNF signaling in dentate gyrus and perirhinal cortex during consolidation of recognition memory in the rat, *Hippocampus* 22, 2127-2135.
6. Blau, C. W., Cowley, T. R., O'Sullivan, J., Grehan, B., Browne, T. C., Kelly, L., Birch, A., Murphy, N., Kelly, A. M., Kerskens, C. M., and Lynch, M. A. (2012) The age-related deficit in LTP is associated with changes in perfusion and blood-brain barrier permeability, *Neurobiol Aging* 33, 8.
7. Griffin, E. W., Mullally, S., Foley, C., Warmington, S. A., O'Mara, S. M., and Kelly, A. M. (2011) Aerobic exercise improves hippocampal function and increases BDNF in the serum of young adult males, *Physiology & behavior* 104, 934-941.

Rose Anne Kenny

1. Sheehan, K. J., O'Connell, M. D., Cunningham, C., Crosby, L., and Kenny, R. A. (2013) The relationship between increased body mass index and frailty on falls in community dwelling older adults, *BMC geriatrics* 13, 132.
2. Savva, G. M., Donoghue, O. A., Horgan, F., O'Regan, C., Cronin, H., and Kenny, R. A. (2013) Using timed up-and-go to identify frail members of the older population, *The journals of gerontology. Series A, Biological sciences and medical sciences* 68, 441-446.
3. Romero-Ortuno, R., O'Connell, M. D., Finucane, C., Soraghan, C., Fan, C. W., and Kenny, R. A. (2013) Insights into the clinical management of the syndrome of supine hypertension--orthostatic hypotension (SH-OH): the Irish Longitudinal Study on Ageing (TILDA), *BMC geriatrics* 13, 73.
4. Robertson, D. A., Savva, G. M., and Kenny, R. A. (2013) Frailty and cognitive impairment-A review of the evidence and causal mechanisms, *Ageing research reviews* 12, 840-851.
5. Richardson, K., Kenny, R. A., Peklar, J., and Bennett, K. (2013) Agreement between patient interview data on prescription medication use and pharmacy records in those aged older than 50 years varied by therapeutic group and reporting of indicated health conditions, *Journal of clinical epidemiology* 66, 1308-1316.
6. Regan, C. O., Kearney, P. M., Savva, G. M., Cronin, H., and Kenny, R. A. (2013) Age and sex differences in prevalence and clinical correlates of depression: first results from the Irish Longitudinal Study on Ageing, *International journal of geriatric psychiatry* 28, 1280-1287.
7. Peklar, J., Henman, M. C., Richardson, K., Kos, M., and Kenny, R. A. (2013) Food supplement use in the community dwelling population aged 50 and over in the Republic of Ireland, *Complementary therapies in medicine* 21, 333-341.
8. Mosca, I., Bhuachalla, B. N., and Kenny, R. A. (2013) Explaining significant differences

- in subjective and objective measures of cardiovascular health: evidence for the socioeconomic gradient in a population-based study, *BMC cardiovascular disorders* 13, 64.
9. McDaid, O., Hanly, M. J., Richardson, K., Kee, F., Kenny, R. A., and Savva, G. M. (2013) The effect of multiple chronic conditions on self-rated health, disability and quality of life among the older populations of Northern Ireland and the Republic of Ireland: a comparison of two nationally representative cross-sectional surveys, *BMJ open* 3.
 10. Maguinness, C., Setti, A., Roudaia, E., and Kenny, R. A. (2013) Does that look heavy to you? Perceived weight judgment in lifting actions in younger and older adults, *Front Hum Neurosci* 7, 795.
 11. Lochlainn, M. N., and Kenny, R. A. (2013) Sexual activity and aging, *Journal of the American Medical Directors Association* 14, 565-572.
 12. Killane, I., Donoghue, O. A., Savva, G. M., Cronin, H., Kenny, R. A., and Reilly, R. B. (2013) Variance between walking speed and neuropsychological test scores during three gait tasks across the Irish longitudinal study on aging (TILDA) dataset, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2013*, 6921-6924.
 13. Kenny, R. A., Coen, R. F., Frewen, J., Donoghue, O. A., Cronin, H., and Savva, G. M. (2013) Normative values of cognitive and physical function in older adults: findings from the Irish Longitudinal Study on Ageing, *Journal of the American Geriatrics Society* 61 Suppl 2, S279-290.
 14. Kenny, R. A., Bhangu, J., and King-Kallimanis, B. L. (2013) Epidemiology of syncope/collapse in younger and older Western patient populations, *Progress in cardiovascular diseases* 55, 357-363.
 15. Frewen, J., Finucane, C., Savva, G. M., Boyle, G., Coen, R. F., and Kenny, R. A. (2013) Cognitive function is associated with impaired heart rate variability in ageing adults: the Irish longitudinal study on ageing wave one results, *Clinical autonomic research : official journal of the Clinical Autonomic Research Society* 23, 313-323.
 16. Feeney, J., Kamiya, Y., Robertson, I. H., and Kenny, R. A. (2013) Cognitive function is preserved in older adults with a reported history of childhood sexual abuse, *Journal of traumatic stress* 26, 735-743.
 17. Feeney, J., Finucane, C., Savva, G. M., Cronin, H., Beatty, S., Nolan, J. M., and Kenny, R. A. (2013) Low macular pigment optical density is associated with lower cognitive performance in a large, population-based sample of older adults, *Neurobiol Aging* 34, 2449-2456.
 18. Donoghue, O. A., Ryan, H., Duggan, E., Finucane, C., Savva, G. M., Cronin, H., Loughman, J., and Kenny, R. A. (2013) Relationship between fear of falling and mobility varies with visual function among older adults, *Geriatrics & gerontology international*.
 19. Donoghue, O. A., Cronin, H., Savva, G. M., O'Regan, C., and Kenny, R. A. (2013)

- Effects of fear of falling and activity restriction on normal and dual task walking in community dwelling older adults, *Gait & posture* 38, 120-124.
20. Doheny, E. P., Walsh, C., Foran, T., Greene, B. R., Fan, C. W., Cunningham, C., and Kenny, R. A. (2013) Falls classification using tri-axial accelerometers during the five-times-sit-to-stand test, *Gait & posture* 38, 1021-1025.
 21. Cronin, H., O'Regan, C., Finucane, C., Kearney, P., and Kenny, R. A. (2013) Health and aging: development of the Irish Longitudinal Study on Ageing health assessment, *Journal of the American Geriatrics Society* 61 Suppl 2, S269-278.
 22. Barrett, M. M., Doheny, E. P., Setti, A., Maguinness, C., Foran, T. G., Kenny, R. A., and Newell, F. N. (2013) Reduced vision selectively impairs spatial updating in fall-prone older adults, *Multisensory research* 26, 69-94.
 23. Stone, C. A., Lawlor, P. G., Savva, G. M., Bennett, K., and Kenny, R. A. (2012) Prospective study of falls and risk factors for falls in adults with advanced cancer, *Journal of clinical oncology : official journal of the American Society of Clinical Oncology* 30, 2128-2133.
 24. Stone, C. A., Kenny, R. A., Nolan, B., and Lawlor, P. G. (2012) Autonomic dysfunction in patients with advanced cancer; prevalence, clinical correlates and challenges in assessment, *BMC palliative care* 11, 3.
 25. Romero-Ortuno, R., and Kenny, R. A. (2012) The frailty index in Europeans: association with age and mortality, *Age Ageing* 41, 684-689.
 26. Nolan, J. M., Feeney, J., Kenny, R. A., Cronin, H., O'Regan, C., Savva, G. M., Loughman, J., Finucane, C., Connolly, E., Meagher, K., and Beatty, S. (2012) Education is positively associated with macular pigment: the Irish Longitudinal Study on Ageing (TILDA), *Investigative ophthalmology & visual science* 53, 7855-7861.
 27. Ni Mhaolain, A. M., Fan, C. W., Romero-Ortuno, R., Cogan, L., Cunningham, C., Lawlor, B., and Kenny, R. A. (2012) Depression: a modifiable factor in fearful older fallers transitioning to frailty?, *International journal of geriatric psychiatry* 27, 727-733.
 28. Ni Mhaolain, A. M., Fan, C. W., Romero-Ortuno, R., Cogan, L., Cunningham, C., Kenny, R. A., and Lawlor, B. (2012) Frailty, depression, and anxiety in later life, *International psychogeriatrics / IPA* 24, 1265-1274.
 29. McMahan, C. G., Kenny, R. A., Bennett, K., Bouamra, O., and Lecky, F. (2012) Diurnal variation in mortality in older nocturnal fallers, *Age Ageing* 41, 29-35.
 30. McHugh, J. E., Fan, C. W., Kenny, R. A., and Lawlor, B. A. (2012) Orthostatic hypotension and subjective sleep quality in older people, *Aging & mental health* 16, 958-963.
 31. McGrath, D., Doheny, E. P., Walsh, L., McKeown, D., Cunningham, C., Crosby, L., Kenny, R. A., Stergiou, N., Caulfield, B., and Greene, B. R. (2012) Taking balance measurement out of the laboratory and into the home: discriminatory capability of novel centre of pressure measurement in fallers and non-fallers, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology*

- Society. IEEE Engineering in Medicine and Biology Society. Conference 2012*, 3296-3299.
32. McCarroll, K. G., Robinson, D. J., Coughlan, A., Healy, M., Kenny, R. A., and Cunningham, C. (2012) Vitamin D and orthostatic hypotension, *Age Ageing* 41, 810-813.
 33. Kennelly, S., Abdullah, L., Kenny, R. A., Mathura, V., Luis, C. A., Mouzon, B., Crawford, F., Mullan, M., and Lawlor, B. (2012) Apolipoprotein E genotype-specific short-term cognitive benefits of treatment with the antihypertensive nilvadipine in Alzheimer's patients--an open-label trial, *International journal of geriatric psychiatry* 27, 415-422.
 34. Gallagher, D., O'Regan, C., Savva, G. M., Cronin, H., Lawlor, B. A., and Kenny, R. A. (2012) Depression, anxiety and cardiovascular disease: which symptoms are associated with increased risk in community dwelling older adults?, *Journal of affective disorders* 142, 132-138.
 35. Donoghue, O. A., Horgan, N. F., Savva, G. M., Cronin, H., O'Regan, C., and Kenny, R. A. (2012) Association between timed up-and-go and memory, executive function, and processing speed, *Journal of the American Geriatrics Society* 60, 1681-1686.
 36. Doheny, E. P., McGrath, D., Greene, B. R., Walsh, L., McKeown, D., Cunningham, C., Crosby, L., Kenny, R. A., and Caulfield, B. (2012) Displacement of centre of mass during quiet standing assessed using accelerometry in older fallers and non-fallers, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2012*, 3300-3303.
 37. Doheny, E. P., Greene, B. R., Foran, T., Cunningham, C., Fan, C. W., and Kenny, R. A. (2012) Diurnal variations in the outcomes of instrumented gait and quiet standing balance assessments and their association with falls history, *Physiological measurement* 33, 361-373.
 38. Collins, O., Dillon, S., Finucane, C., Lawlor, B., and Kenny, R. A. (2012) Parasympathetic autonomic dysfunction is common in mild cognitive impairment, *Neurobiol Aging* 33, 2324-2333.
 39. Stone, C. A., Nolan, B., Lawlor, P. G., and Kenny, R. A. (2011) Hand-held dynamometry: tester strength is paramount, even in frail populations, *Journal of rehabilitation medicine* 43, 808-811.
 40. Stone, C. A., Lawlor, P. G., and Kenny, R. A. (2011) How to identify patients with cancer at risk of falling: a review of the evidence, *Journal of palliative medicine* 14, 221-230.
 41. Stone, C. A., Kenny, R. A., Healy, M., Walsh, J. B., and Lawlor, P. G. (2011) Vitamin D depletion: of clinical significance in advanced cancer?, *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer* 19, 865-867.
 42. Stone, C., Lawlor, P. G., Nolan, B., and Kenny, R. A. (2011) A prospective study of the incidence of falls in patients with advanced cancer, *Journal of pain and symptom*

- management* 42, 535-540.
43. Setti, A., Finnigan, S., Sobolewski, R., McLaren, L., Robertson, I. H., Reilly, R. B., Kenny, R. A., and Newell, F. N. (2011) Audiovisual temporal discrimination is less efficient with aging: an event-related potential study, *Neuroreport* 22, 554-558.
 44. Setti, A., Burke, K. E., Kenny, R. A., and Newell, F. N. (2011) Is inefficient multisensory processing associated with falls in older people?, *Experimental brain research* 209, 375-384.
 45. Scanail, C. N., Greene, B. R., Doheny, E. P., O'Donovan, K., O'Shea, T., O'Donovan, A. D., Foran, T., Cunningham, C., and Kenny, R. A. (2011) Clinical Gait assessment of older adults using open platform tools, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2011*, 462-465.
 46. Romero-Ortuno, R., O'Shea, D., and Kenny, R. A. (2011) The SHARE frailty instrument for primary care predicts incident disability in a European population-based sample, *Quality in primary care* 19, 301-309.
 47. Romero-Ortuno, R., Cogan, L., O'Shea, D., Lawlor, B. A., and Kenny, R. A. (2011) Orthostatic haemodynamics may be impaired in frailty, *Age Ageing* 40, 576-583.
 48. Romero-Ortuno, R., Cogan, L., Foran, T., Kenny, R. A., and Fan, C. W. (2011) Continuous noninvasive orthostatic blood pressure measurements and their relationship with orthostatic intolerance, falls, and frailty in older people, *Journal of the American Geriatrics Society* 59, 655-665.
 49. Romero-Ortuno, R., Cogan, L., Browne, J., Healy, M., Casey, M. C., Cunningham, C., Walsh, J. B., and Kenny, R. A. (2011) Seasonal variation of serum vitamin D and the effect of vitamin D supplementation in Irish community-dwelling older people, *Age Ageing* 40, 168-174.
 50. O'Halloran, A. M., Penard, N., Galli, A., Fan, C. W., Robertson, I. H., and Kenny, R. A. (2011) Falls and falls efficacy: the role of sustained attention in older adults, *BMC geriatrics* 11, 85.
 51. O'Halloran, A. M., Fan, C. W., Kenny, R. A., Penard, N., Galli, A., and Robertson, I. H. (2011) Variability in sustained attention and risk of frailty, *Journal of the American Geriatrics Society* 59, 2390-2392.
 52. O'Halloran, A. M., Fan, C. W., Kenny, R. A., Penard, N., Galli, A., and Robertson, I. H. (2011) *Variability in sustained attention and risk of frailty*, *J Am Geriatr Soc.* 2011 Dec;59(12):2390-2. doi: 10.1111/j.1532-5415.2011.03706.x.
 53. O'Dwyer, C., Bennett, K., Langan, Y., Fan, C. W., and Kenny, R. A. (2011) Amnesia for loss of consciousness is common in vasovagal syncope, *Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology* 13, 1040-1045.
 54. Morris, C. M., Ballard, C. G., Allan, L., Rowan, E., Stephens, S., Firbank, M., Ford, G.

- A., Kenny, R. A., O'Brien, J. T., and Kalaria, R. N. (2011) NOS3 gene rs1799983 polymorphism and incident dementia in elderly stroke survivors, *Neurobiol Aging* 32, 554 e551-556.
55. Maguinness, C., Setti, A., Burke, K. E., Kenny, R. A., and Newell, F. N. (2011) The effect of combined sensory and semantic components on audio-visual speech perception in older adults, *Frontiers in aging neuroscience* 3, 19.
 56. Kearney, P. M., Cronin, H., O'Regan, C., Kamiya, Y., Whelan, B. J., and Kenny, R. A. (2011) Comparison of centre and home-based health assessments: early experience from the Irish Longitudinal Study on Ageing (TILDA), *Age Ageing* 40, 85-90.
 57. Hampton, J. L., Brayne, C., Bradley, M., and Kenny, R. A. (2011) Mortality in carotid sinus hypersensitivity: a cohort study, *BMJ open* 1, e000020.
 58. Doheny, E. P., Fan, C. W., Foran, T., Greene, B. R., Cunningham, C., and Kenny, R. A. (2011) An instrumented sit-to-stand test used to examine differences between older fallers and non-fallers, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2011*, 3063-3066.

Paul Kenna

1. Farrar, G. J., Chadderton, N., Kenna, P. F., and Millington-Ward, S. (2013) Mitochondrial disorders: aetiologies, models systems, and candidate therapies, *Trends in genetics : TIG* 29, 488-497.
2. Chadderton, N., Palfi, A., Millington-Ward, S., Gobbo, O., Overlack, N., Carrigan, M., O'Reilly, M., Campbell, M., Ehrhardt, C., Wolfrum, U., Humphries, P., Kenna, P. F., and Farrar, G. J. (2013) Intravitreal delivery of AAV-NDI1 provides functional benefit in a murine model of Leber hereditary optic neuropathy, *European journal of human genetics : EJHG* 21, 62-68.
3. Tam, L. C., Kiang, A. S., Campbell, M., Keaney, J., Farrar, G. J., Humphries, M. M., Kenna, P. F., and Humphries, P. (2012) Protein misfolding and potential therapeutic treatments in inherited retinopathies, *Advances in experimental medicine and biology* 723, 567-572.
4. Palfi, A., Chadderton, N., McKee, A. G., Blanco Fernandez, A., Humphries, P., Kenna, P. F., and Farrar, G. J. (2012) Efficacy of codelivery of dual AAV2/5 vectors in the murine retina and hippocampus, *Human gene therapy* 23, 847-858.
5. Nguyen, A. T., Campbell, M., Kenna, P. F., Kiang, A. S., Tam, L., Humphries, M. M., and Humphries, P. (2012) Calpain and photoreceptor apoptosis, *Advances in experimental medicine and biology* 723, 547-552.
6. Humphries, M. M., Kenna, P. F., Campbell, M., Tam, L. C., Nguyen, A. T., Farrar, G. J., Botto, M., Kiang, A. S., and Humphries, P. (2012) C1q enhances cone photoreceptor survival in a mouse model of autosomal recessive retinitis pigmentosa, *European journal of human genetics : EJHG* 20, 64-68.

7. Hanrahan, F., Campbell, M., Nguyen, A. T., Suzuki, M., Kiang, A. S., Tam, L. C., Gobbo, O. L., Dhubhghaill, S. N., Humphries, M. M., Kenna, P. F., and Humphries, P. (2012) On further development of barrier modulation as a technique for systemic ocular drug delivery, *Advances in experimental medicine and biology* 723, 155-159.
8. Farrar, G. J., Millington-Ward, S., Chadderton, N., Humphries, P., and Kenna, P. F. (2012) Gene-based therapies for dominantly inherited retinopathies, *Gene therapy* 19, 137-144.
9. Doyle, S. L., Campbell, M., Ozaki, E., Salomon, R. G., Mori, A., Kenna, P. F., Farrar, G. J., Kiang, A. S., Humphries, M. M., Lavelle, E. C., O'Neill, L. A., Hollyfield, J. G., and Humphries, P. (2012) NLRP3 has a protective role in age-related macular degeneration through the induction of IL-18 by drusen components, *Nature medicine* 18, 791-798.
10. Millington-Ward, S., Chadderton, N., O'Reilly, M., Palfi, A., Goldmann, T., Kilty, C., Humphries, M., Wolfrum, U., Bennett, J., Humphries, P., Kenna, P. F., and Farrar, G. J. (2011) Suppression and replacement gene therapy for autosomal dominant disease in a murine model of dominant retinitis pigmentosa, *Molecular therapy : the journal of the American Society of Gene Therapy* 19, 642-649.
11. Campbell, M., Humphries, M. M., Kiang, A. S., Nguyen, A. T., Gobbo, O. L., Tam, L. C., Suzuki, M., Hanrahan, F., Ozaki, E., Farrar, G. J., Kenna, P. F., and Humphries, P. (2011) Systemic low-molecular weight drug delivery to pre-selected neuronal regions, *EMBO molecular medicine* 3, 235-245.
12. Bowne, S. J., Humphries, M. M., Sullivan, L. S., Kenna, P. F., Tam, L. C., Kiang, A. S., Campbell, M., Weinstock, G. M., Koboldt, D. C., Ding, L., Fulton, R. S., Sodergren, E. J., Allman, D., Millington-Ward, S., Palfi, A., McKee, A., Blanton, S. H., Slifer, S., Konidari, I., Farrar, G. J., Daiger, S. P., and Humphries, P. (2011) A dominant mutation in RPE65 identified by whole-exome sequencing causes retinitis pigmentosa with choroidal involvement, *European journal of human genetics : EJHG* 19, 1074-1081.

Christian Kerskens

1. O'Neill, A., D'Souza, A., Carballedo, A., Joseph, S., Kerskens, C., and Frodl, T. (2013) Magnetic resonance imaging in patients with borderline personality disorder: a study of volumetric abnormalities, *Psychiatry Res* 213, 1-10.
2. Cowley, T. R., O'Sullivan, J., Blau, C., Deighan, B. F., Jones, R., Kerskens, C., Richardson, J. C., Virley, D., Upton, N., and Lynch, M. A. (2012) Rosiglitazone attenuates the age-related changes in astrocytosis and the deficit in LTP, *Neurobiol Aging* 33, 162-175.
3. Campbell, M., Hanrahan, F., Gobbo, O. L., Kelly, M. E., Kiang, A. S., Humphries, M. M., Nguyen, A. T., Ozaki, E., Keaney, J., Blau, C. W., Kerskens, C. M., Cahalan, S. D., Callanan, J. J., Wallace, E., Grant, G. A., Doherty, C. P., and Humphries, P. (2012) Targeted suppression of claudin-5 decreases cerebral oedema and improves cognitive outcome following traumatic brain injury, *Nature communications* 3, 849.
4. Blau, C. W., Cowley, T. R., O'Sullivan, J., Grehan, B., Browne, T. C., Kelly, L., Birch,

A., Murphy, N., Kelly, A. M., Kerskens, C. M., and Lynch, M. A. (2012) The age-related deficit in LTP is associated with changes in perfusion and blood-brain barrier permeability, *Neurobiol Aging* 33, 8.

Juan-Pablo Labrador

1. Zarin, A. A., Daly, A. C., Hulsmeier, J., Asadzadeh, J., and Labrador, J. P. (2012) A GATA/homeodomain transcriptional code regulates axon guidance through the Unc-5 receptor, *Development (Cambridge, England)* 139, 1798-1805.
2. Fares, M. A., Ruiz-Gonzalez, M. X., and Labrador, J. P. (2011) Protein coadaptation and the design of novel approaches to identify protein-protein interactions, *IUBMB life* 63, 264-271.

Edmond Lalor

1. O'Sullivan, J. A., Crosse, M. J., Power, A. J., and Lalor, E. C. (2013) The effects of attention and visual input on the representation of natural speech in EEG, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2013*, 2800-2803.
2. Kelly, S. P., Vanegas, M. I., Schroeder, C. E., and Lalor, E. C. (2013) The cruciform model of striate generation of the early VEP, re-illustrated, not revoked: a reply to Ales et al. (2013), *NeuroImage* 82, 154-159.
3. Kelly, S. P., Schroeder, C. E., and Lalor, E. C. (2013) What does polarity inversion of extrastriate activity tell us about striate contributions to the early VEP? A comment on Ales et al. (2010), *NeuroImage* 76, 442-445.
4. Frey, H. P., Molholm, S., Lalor, E. C., Russo, N. N., and Foxe, J. J. (2013) Atypical cortical representation of peripheral visual space in children with an autism spectrum disorder, *The European journal of neuroscience* 38, 2125-2138.
5. Whelan, R., Conrod, P. J., Poline, J. B., Lourdasamy, A., Banaschewski, T., Barker, G. J., Bellgrove, M. A., Buchel, C., Byrne, M., Cummins, T. D., Fauth-Buhler, M., Flor, H., Gallinat, J., Heinz, A., Ittermann, B., Mann, K., Martinot, J. L., Lalor, E. C., Lathrop, M., Loth, E., Nees, F., Paus, T., Rietschel, M., Smolka, M. N., Spanagel, R., Stephens, D. N., Struve, M., Thyreau, B., Vollstaedt-Klein, S., Robbins, T. W., Schumann, G., Garavan, H., and Consortium, I. (2012) Adolescent impulsivity phenotypes characterized by distinct brain networks, *Nature neuroscience* 15, 920-925.
6. Power, A. J., Foxe, J. J., Forde, E. J., Reilly, R. B., and Lalor, E. C. (2012) At what time is the cocktail party? A late locus of selective attention to natural speech, *The European journal of neuroscience* 35, 1497-1503.
7. Murphy, J. W., Kelly, S. P., Foxe, J. J., and Lalor, E. C. (2012) Isolating early cortical generators of visual-evoked activity: a systems identification approach, *Experimental brain research* 220, 191-199.

8. Lalor, E. C., De Sanctis, P., Krakowski, M. I., and Foxe, J. J. (2012) Visual sensory processing deficits in schizophrenia: is there anything to the magnocellular account?, *Schizophrenia research* 139, 246-252.
9. Power, A. J., Reilly, R. B., and Lalor, E. C. (2011) Comparing linear and quadratic models of the human auditory system using EEG, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2011*, 4171-4174.
10. Power, A. J., Lalor, E. C., and Reilly, R. B. (2011) Endogenous auditory spatial attention modulates obligatory sensory activity in auditory cortex, *Cereb Cortex* 21, 1223-1230.

Brian Lawlor

1. Sweeney, E. B., and Lawlor, B. A. (2013) Case series: extrapyramidal symptoms associated with use of aripiprazole in older adults, *International journal of geriatric psychiatry* 28, 1208-1210.
2. Sweeney, E. B., Greene, E., and Lawlor, B. A. (2013) Use of the Geriatric Anxiety Inventory-short form as a screening tool for detection of generalised anxiety in a memory clinic population, *International journal of geriatric psychiatry* 28, 767-768.
3. Ostling, S., Backman, K., Waern, M., Marlow, T., Braam, A. W., Fichter, M., Lawlor, B. A., Lobos, A., Reischies, F. M., Copeland, J. R., and Skoog, I. (2013) Paranoid symptoms and hallucinations among the older people in Western Europe, *International journal of geriatric psychiatry* 28, 573-579.
4. Neville, C. E., McCourt, H. J., McKinley, M. C., Lowis, C., Barrett, S. L., McGuinness, B., Todd, S., Lawlor, B., Gibb, M., Coen, R. F., Passmore, A. P., and Woodside, J. V. (2013) Encouraging lifestyle behaviour change in mild cognitive impairment patients: development of appropriate educational material, *Aging & mental health* 17, 276-286.
5. McHugh, J. E., and Lawlor, B. A. (2013) Perceived stress mediates the relationship between emotional loneliness and sleep quality over time in older adults, *British journal of health psychology* 18, 546-555.
6. McHugh, J. E., and Lawlor, B. A. (2013) Perceived health status is associated with hours of exercise per week in older adults independent of physical health, *Journal of physical activity & health* 10, 1102-1108.
7. Geoghegan, P., O'Donovan, M. T., and Lawlor, B. A. (2013) Investigation of the effects of alcohol on sleep using actigraphy, *Alcohol and alcoholism (Oxford, Oxfordshire)* 48, 126-127.
8. Gallagher, D., Savva, G. M., Kenny, R., and Lawlor, B. A. (2013) What predicts persistent depression in older adults across Europe? Utility of clinical and neuropsychological predictors from the SHARE study, *Journal of affective disorders* 147, 192-197.
9. C, O. R., Kearney, P. M., Cronin, H., Savva, G. M., Lawlor, B. A., and Kenny, R. (2013) Oscillometric measure of blood pressure detects association between orthostatic

- hypotension and depression in population based study of older adults, *BMC psychiatry* 13, 266.
10. Schnittger, R. I., Wherton, J., Prendergast, D., and Lawlor, B. A. (2012) Risk factors and mediating pathways of loneliness and social support in community-dwelling older adults, *Aging & mental health* 16, 335-346.
 11. Schnittger, R. I., Walsh, C. D., Casey, A. M., Wherton, J. P., McHugh, J. E., and Lawlor, B. A. (2012) Psychological distress as a key component of psychosocial functioning in community-dwelling older people, *Aging & mental health* 16, 199-207.
 12. Proitsi, P., Lupton, M. K., Reeves, S. J., Hamilton, G., Archer, N., Martin, B. M., Iyegbe, C., Hollingworth, P., Lawlor, B., Gill, M., Brayne, C., Rubinsztein, D. C., Owen, M. J., Williams, J., Lovestone, S., and Powell, J. F. (2012) Association of serotonin and dopamine gene pathways with behavioral subphenotypes in dementia, *Neurobiol Aging* 33, 791-803.
 13. Proitsi, P., Lupton, M. K., Dudbridge, F., Tsolaki, M., Hamilton, G., Daniilidou, M., Pritchard, M., Lord, K., Martin, B. M., Johnson, J., Craig, D., Todd, S., McGuinness, B., Hollingworth, P., Harold, D., Kloszewska, I., Soininen, H., Mecocci, P., Velas, B., Gill, M., Lawlor, B., Rubinsztein, D. C., Brayne, C., Passmore, P. A., Williams, J., Lovestone, S., and Powell, J. F. (2012) Alzheimer's disease and age-related macular degeneration have different genetic models for complement gene variation, *Neurobiol Aging* 33, 1843 e1849-1817.
 14. Ni Mhaolain, A. M., Gallagher, D., H. O. C., Chin, A. V., Bruce, I., Hamilton, F., Teehee, E., Coen, R., Coakley, D., Cunningham, C., Walsh, J. B., and Lawlor, B. A. (2012) Subjective well-being amongst community-dwelling elders: what determines satisfaction with life? Findings from the Dublin Healthy Aging Study, *International psychogeriatrics / IPA* 24, 316-323.
 15. Ni Mhaolain, A. M., Fan, C. W., Romero-Ortuno, R., Cogan, L., Cunningham, C., Lawlor, B., and Kenny, R. A. (2012) Depression: a modifiable factor in fearful older fallers transitioning to frailty?, *International journal of geriatric psychiatry* 27, 727-733.
 16. Ni Mhaolain, A. M., Fan, C. W., Romero-Ortuno, R., Cogan, L., Cunningham, C., Kenny, R. A., and Lawlor, B. (2012) Frailty, depression, and anxiety in later life, *International psychogeriatrics / IPA* 24, 1265-1274.
 17. Mhaolain, A. M., Gallagher, D., Crosby, L., Ryan, D., Lacey, L., Coen, R. F., Coakley, D., Walsh, J. B., Cunningham, C., and Lawlor, B. (2012) Frailty and quality of life for people with Alzheimer's dementia and mild cognitive impairment, *American journal of Alzheimer's disease and other dementias* 27, 48-54.
 18. McHugh, J. E., Wherton, J. P., Prendergast, D. K., and Lawlor, B. A. (2012) Teleconferencing as a source of social support for older spousal caregivers: initial explorations and recommendations for future research, *American journal of Alzheimer's disease and other dementias* 27, 381-387.
 19. McHugh, J. E., and Lawlor, B. A. (2012) Exercise and social support are associated with psychological distress outcomes in a population of community-dwelling older adults,

Journal of health psychology 17, 833-844.

20. McHugh, J. E., Fan, C. W., Kenny, R. A., and Lawlor, B. A. (2012) Orthostatic hypotension and subjective sleep quality in older people, *Aging & mental health* 16, 958-963.
21. Kennelly, S., Abdullah, L., Kenny, R. A., Mathura, V., Luis, C. A., Mouzon, B., Crawford, F., Mullan, M., and Lawlor, B. (2012) Apolipoprotein E genotype-specific short-term cognitive benefits of treatment with the antihypertensive nilvadipine in Alzheimer's patients--an open-label trial, *International journal of geriatric psychiatry* 27, 415-422.
22. Gerrish, A., Russo, G., Richards, A., Moskvina, V., Ivanov, D., Harold, D., Sims, R., Abraham, R., Hollingworth, P., Chapman, J., Hamshere, M., Pahwa, J. S., Dowzell, K., Williams, A., Jones, N., Thomas, C., Stretton, A., Morgan, A. R., Lovestone, S., Powell, J., Proitsi, P., Lupton, M. K., Brayne, C., Rubinsztein, D. C., Gill, M., Lawlor, B., Lynch, A., Morgan, K., Brown, K. S., Passmore, P. A., Craig, D., McGuinness, B., Todd, S., Johnston, J. A., Holmes, C., Mann, D., Smith, A. D., Love, S., Kehoe, P. G., Hardy, J., Mead, S., Fox, N., Rossor, M., Collinge, J., Maier, W., Jessen, F., Kolsch, H., Heun, R., Schurmann, B., van den Bussche, H., Heuser, I., Kornhuber, J., Wiltfang, J., Dichgans, M., Frolich, L., Hampel, H., Hull, M., Rujescu, D., Goate, A. M., Kauwe, J. S., Cruchaga, C., Nowotny, P., Morris, J. C., Mayo, K., Livingston, G., Bass, N. J., Gurling, H., McQuillin, A., Gwilliam, R., Deloukas, P., Davies, G., Harris, S. E., Starr, J. M., Deary, I. J., Al-Chalabi, A., Shaw, C. E., Tsolaki, M., Singleton, A. B., Guerreiro, R., Muhleisen, T. W., Nothen, M. M., Moebus, S., Jockel, K. H., Klopp, N., Wichmann, H. E., Carrasquillo, M. M., Pankratz, V. S., Younkin, S. G., Jones, L., Holmans, P. A., O'Donovan, M. C., Owen, M. J., and Williams, J. (2012) The role of variation at AbetaPP, PSEN1, PSEN2, and MAPT in late onset Alzheimer's disease, *J Alzheimers Dis* 28, 377-387.
23. Geoghegan, P., O'Donovan, M. T., and Lawlor, B. A. (2012) Investigation of the effects of alcohol on sleep using actigraphy, *Alcohol and alcoholism (Oxford, Oxfordshire)* 47, 538-544.
24. Gallagher, D., O'Regan, C., Savva, G. M., Cronin, H., Lawlor, B. A., and Kenny, R. A. (2012) Depression, anxiety and cardiovascular disease: which symptoms are associated with increased risk in community dwelling older adults?, *Journal of affective disorders* 142, 132-138.
25. Collins, O., Dillon, S., Finucane, C., Lawlor, B., and Kenny, R. A. (2012) Parasympathetic autonomic dysfunction is common in mild cognitive impairment, *Neurobiol Aging* 33, 2324-2333.
26. Burke, K. E., Schnittger, R., O'Dea, B., Buckley, V., Wherton, J. P., and Lawlor, B. A. (2012) Factors associated with perceived health in older adult Irish population, *Aging & mental health* 16, 288-295.
27. Sims, R., Dwyer, S., Harold, D., Gerrish, A., Hollingworth, P., Chapman, J., Jones, N., Abraham, R., Ivanov, D., Pahwa, J. S., Moskvina, V., Dowzell, K., Thomas, C., Stretton, A., Lovestone, S., Powell, J., Proitsi, P., Lupton, M. K., Brayne, C., Rubinsztein, D. C.,

- Gill, M., Lawlor, B., Lynch, A., Morgan, K., Brown, K. S., Passmore, P. A., Craig, D., McGuinness, B., Todd, S., Johnston, J. A., Holmes, C., Mann, D., Smith, A. D., Love, S., Kehoe, P. G., Hardy, J., Mead, S., Fox, N., Rossor, M., Collinge, J., Livingston, G., Bass, N. J., Gurling, H., McQuillin, A., Jones, L., Holmans, P. A., O'Donovan, M., Owen, M. J., and Williams, J. (2011) No evidence that extended tracts of homozygosity are associated with Alzheimer's disease, *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics* 156B, 764-771.
28. Romero-Ortuno, R., Cogan, L., O'Shea, D., Lawlor, B. A., and Kenny, R. A. (2011) Orthostatic haemodynamics may be impaired in frailty, *Age Ageing* 40, 576-583.
 29. Ni Mhaolain, A. M., Gallagher, D., Crosby, L., Ryan, D., Lacey, L., Coen, R., Bruce, I., Walsh, J. B., Cunningham, C., and Lawlor, B. A. (2011) Correlates of frailty in Alzheimer's disease and mild cognitive impairment, *Age Ageing* 40, 630-633.
 30. McHugh, J. E., and Lawlor, B. A. (2011) Exercise and social support are associated with psychological distress outcomes in a population of community-dwelling older adults, *Journal of health psychology* 22, 22.
 31. McHugh, J., and Lawlor, B. (2011) Living alone does not account for the association between loneliness and sleep in older adults: Response to Hawkley, Preacher, and Cacioppo, 2010, *Health psychology : official journal of the Division of Health Psychology, American Psychological Association* 30, 135; discussion 136.
 32. Irish, M., Lawlor, B. A., O'Mara, S. M., and Coen, R. F. (2011) Impaired capacity for auto-nostalgic reliving during autobiographical event recall in mild Alzheimer's disease, *Cortex; a journal devoted to the study of the nervous system and behavior* 47, 236-249.
 33. Irish, M., Lawlor, B. A., Coen, R. F., and O'Mara, S. M. (2011) Everyday episodic memory in amnesic mild cognitive impairment: a preliminary investigation, *BMC neuroscience* 12, 80.
 34. Hollingworth, P., Harold, D., Sims, R., Gerrish, A., Lambert, J. C., Carrasquillo, M. M., Abraham, R., Hamshere, M. L., Pahwa, J. S., Moskvina, V., Dowzell, K., Jones, N., Stretton, A., Thomas, C., Richards, A., Ivanov, D., Widdowson, C., Chapman, J., Lovestone, S., Powell, J., Proitsi, P., Lupton, M. K., Brayne, C., Rubinsztein, D. C., Gill, M., Lawlor, B., Lynch, A., Brown, K. S., Passmore, P. A., Craig, D., McGuinness, B., Todd, S., Holmes, C., Mann, D., Smith, A. D., Beaumont, H., Warden, D., Wilcock, G., Love, S., Kehoe, P. G., Hooper, N. M., Vardy, E. R., Hardy, J., Mead, S., Fox, N. C., Rossor, M., Collinge, J., Maier, W., Jessen, F., Ruther, E., Schurmann, B., Heun, R., Kolsch, H., van den Bussche, H., Heuser, I., Kornhuber, J., Wiltfang, J., Dichgans, M., Frolich, L., Hampel, H., Gallacher, J., Hull, M., Rujescu, D., Giegling, I., Goate, A. M., Kauwe, J. S., Cruchaga, C., Nowotny, P., Morris, J. C., Mayo, K., Sleegers, K., Bettens, K., Engelborghs, S., De Deyn, P. P., Van Broeckhoven, C., Livingston, G., Bass, N. J., Gurling, H., McQuillin, A., Gwilliam, R., Deloukas, P., Al-Chalabi, A., Shaw, C. E., Tzolaki, M., Singleton, A. B., Guerreiro, R., Muhleisen, T. W., Nothen, M. M., Moebus, S., Jockel, K. H., Klopp, N., Wichmann, H. E., Pankratz, V. S., Sando, S. B., Aasly, J. O., Barcikowska, M., Wszolek, Z. K., Dickson, D. W., Graff-Radford, N. R., Petersen, R. C.,

- Alzheimer's Disease Neuroimaging, I., van Duijn, C. M., Breteler, M. M., Ikram, M. A., DeStefano, A. L., Fitzpatrick, A. L., Lopez, O., Launer, L. J., Seshadri, S., consortium, C., Berr, C., Campion, D., Epelbaum, J., Dartigues, J. F., Tzourio, C., Alperovitch, A., Lathrop, M., consortium, E., Feulner, T. M., Friedrich, P., Riehle, C., Krawczak, M., Schreiber, S., Mayhaus, M., Nicolhaus, S., Wagenpfeil, S., Steinberg, S., Stefansson, H., Stefansson, K., Snaedal, J., Bjornsson, S., Jonsson, P. V., Chouraki, V., Genier-Boley, B., Hiltunen, M., Soininen, H., Combarros, O., Zelenika, D., Delepine, M., Bullido, M. J., Pasquier, F., Mateo, I., Frank-Garcia, A., Porcellini, E., Hanon, O., Coto, E., Alvarez, V., Bosco, P., Siciliano, G., Mancuso, M., Panza, F., Solfrizzi, V., Nacmias, B., Sorbi, S., Bossu, P., Piccardi, P., Arosio, B., Annoni, G., Seripa, D., Pilotto, A., Scarpini, E., Galimberti, D., Brice, A., Hannequin, D., Licastro, F., Jones, L., Holmans, P. A., Jonsson, T., Riemenschneider, M., Morgan, K., Younkin, S. G., Owen, M. J., O'Donovan, M., Amouyel, P., and Williams, J. (2011) Common variants at ABCA7, MS4A6A/MS4A4E, EPHA1, CD33 and CD2AP are associated with Alzheimer's disease, *Nature genetics* 43, 429-435.
35. Golden, J., Conroy, R. M., Bruce, I., Denihan, A., Greene, E., Kirby, M., and Lawlor, B. A. (2011) The spectrum of worry in the community-dwelling elderly, *Aging & mental health* 15, 985-994.
36. Gallagher, D., Ni Mhaolain, A., Crosby, L., Ryan, D., Lacey, L., Coen, R. F., Walsh, C., Coakley, D., Walsh, J. B., Cunningham, C., and Lawlor, B. A. (2011) Dependence and caregiver burden in Alzheimer's disease and mild cognitive impairment, *American journal of Alzheimer's disease and other dementias* 26, 110-114.
37. Gallagher, D., Ni Mhaolain, A., Crosby, L., Ryan, D., Lacey, L., Coen, R. F., Walsh, C., Coakley, D., Walsh, J. B., Cunningham, C., and Lawlor, B. A. (2011) Determinants of the desire to institutionalize in Alzheimer's caregivers, *American journal of Alzheimer's disease and other dementias* 26, 205-211.
38. Gallagher, D., Ni Mhaolain, A., Crosby, L., Ryan, D., Lacey, L., Coen, R. F., Walsh, C., Coakley, D., Walsh, J. B., Cunningham, C., and Lawlor, B. A. (2011) Self-efficacy for managing dementia may protect against burden and depression in Alzheimer's caregivers, *Aging & mental health* 15, 663-670.
39. Gallagher, D., Coen, R., Kilroy, D., Belinski, K., Bruce, I., Coakley, D., Walsh, B., Cunningham, C., and Lawlor, B. A. (2011) Anxiety and behavioural disturbance as markers of prodromal Alzheimer's disease in patients with mild cognitive impairment, *International journal of geriatric psychiatry* 26, 166-172.
40. Coen, R. F., Lawlor, B. A., and Kenny, R. (2011) Failure to demonstrate that memory improvement is due either to aerobic exercise or increased hippocampal volume, *Proceedings of the National Academy of Sciences of the United States of America* 108, E89; author reply E90.
41. Coen, R. F., Cahill, R., and Lawlor, B. A. (2011) Things to watch out for when using the Montreal cognitive assessment (MoCA), *International journal of geriatric psychiatry* 26, 107-108.
42. Coen, R. F., Cahill, R., and Lawlor, B. A. (2011) *Things to watch out for when using the*

Montreal cognitive assessment (MoCA), Int J Geriatr Psychiatry. 2011 Jan;26(1):107-8. doi: 10.1002/gps.2471.

43. Balsters, J. H., O'Connell, R. G., Martin, M. P., Galli, A., Cassidy, S. M., Kilcullen, S. M., Delmonte, S., Brennan, S., Meaney, J. F., Fagan, A. J., Bokde, A. L., Upton, N., Lai, R., Laruelle, M., Lawlor, B., and Robertson, I. H. (2011) Donepezil impairs memory in healthy older subjects: behavioural, EEG and simultaneous EEG/fMRI biomarkers, *PLoS One* 6, e24126.

Marina Lynch

1. Ojo, B., Gabbott, P. L., Rezaie, P., Corbett, N., Medvedev, N. I., Cowley, T. R., Lynch, M. A., and Stewart, M. G. (2013) An NCAM mimetic, FGL, alters hippocampal cellular morphometry in young adult (4 month-old) rats, *Neurochemical research* 38, 1208-1218.
2. Kelly, R. J., Minogue, A. M., Lyons, A., Jones, R. S., Browne, T. C., Costello, D. A., Denieffe, S., O'Sullivan, C., Connor, T. J., and Lynch, M. A. (2013) Glial Activation in AbetaPP/PS1 Mice is Associated with Infiltration of IFN γ -Producing Cells, *J Alzheimers Dis*.
3. Jones, R. S., Minogue, A. M., Connor, T. J., and Lynch, M. A. (2013) Amyloid-beta-induced astrocytic phagocytosis is mediated by CD36, CD47 and RAGE, *Journal of neuroimmune pharmacology : the official journal of the Society on NeuroImmune Pharmacology* 8, 301-311.
4. Downer, E. J., Jones, R. S., McDonald, C. L., Greco, E., Brennan, S., Connor, T. J., Robertson, I. H., and Lynch, M. A. (2013) Identifying early inflammatory changes in monocyte-derived macrophages from a population with IQ-discrepant episodic memory, *PLoS One* 8, e63194.
5. Downer, E. J., Johnston, D. G., and Lynch, M. A. (2013) Differential role of Dok1 and Dok2 in TLR2-induced inflammatory signaling in glia, *Molecular and cellular neurosciences* 56, 148-158.
6. Denieffe, S., Kelly, R. J., McDonald, C., Lyons, A., and Lynch, M. A. (2013) Classical activation of microglia in CD200-deficient mice is a consequence of blood brain barrier permeability and infiltration of peripheral cells, *Brain Behav Immun* 34, 86-97.
7. Costello, D. A., and Lynch, M. A. (2013) Toll-like receptor 3 activation modulates hippocampal network excitability, via glial production of interferon-beta, *Hippocampus* 23, 696-707.
8. Browne, T. C., McQuillan, K., McManus, R. M., O'Reilly, J. A., Mills, K. H., and Lynch, M. A. (2013) IFN-gamma Production by amyloid beta-specific Th1 cells promotes microglial activation and increases plaque burden in a mouse model of Alzheimer's disease, *Journal of immunology (Baltimore, Md. : 1950)* 190, 2241-2251.
9. Murphy, N., and Lynch, M. A. (2012) Activation of the P2X(7) receptor induces migration of glial cells by inducing cathepsin B degradation of tissue inhibitor of metalloproteinase 1, *Journal of neurochemistry* 123, 761-770.

10. Murphy, N., Cowley, T. R., Richardson, J. C., Virley, D., Upton, N., Walter, D., and Lynch, M. A. (2012) The neuroprotective effect of a specific P2X(7) receptor antagonist derives from its ability to inhibit assembly of the NLRP3 inflammasome in glial cells, *Brain pathology (Zurich, Switzerland)* 22, 295-306.
11. Murphy, N., Cowley, T. R., Blau, C. W., Dempsey, C. N., Noonan, J., Gowran, A., Tanveer, R., Olango, W. M., Finn, D. P., Campbell, V. A., and Lynch, M. A. (2012) The fatty acid amide hydrolase inhibitor URB597 exerts anti-inflammatory effects in hippocampus of aged rats and restores an age-related deficit in long-term potentiation, *Journal of neuroinflammation* 9, 79.
12. Minogue, A. M., Barrett, J. P., and Lynch, M. A. (2012) LPS-induced release of IL-6 from glia modulates production of IL-1beta in a JAK2-dependent manner, *Journal of neuroinflammation* 9, 126.
13. Lynch, M. A., and Mills, K. H. (2012) Immunology meets neuroscience--opportunities for immune intervention in neurodegenerative diseases, *Brain Behav Immun* 26, 1-10.
14. Lynch, M. A., and Johnson, R. W. (2012) The impact of aging on the brain--risk, resilience and repair, *Brain Behav Immun* 26, 714-716.
15. Gallagher, J. J., Finnegan, M. E., Grehan, B., Dobson, J., Collingwood, J. F., and Lynch, M. A. (2012) Modest amyloid deposition is associated with iron dysregulation, microglial activation, and oxidative stress, *J Alzheimers Dis* 28, 147-161.
16. Cox, F. F., Carney, D., Miller, A. M., and Lynch, M. A. (2012) CD200 fusion protein decreases microglial activation in the hippocampus of aged rats, *Brain Behav Immun* 26, 789-796.
17. Cowley, T. R., O'Sullivan, J., Blau, C., Deighan, B. F., Jones, R., Kerskens, C., Richardson, J. C., Virley, D., Upton, N., and Lynch, M. A. (2012) Rosiglitazone attenuates the age-related changes in astrocytosis and the deficit in LTP, *Neurobiol Aging* 33, 162-175.
18. Blau, C. W., Cowley, T. R., O'Sullivan, J., Grehan, B., Browne, T. C., Kelly, L., Birch, A., Murphy, N., Kelly, A. M., Kerskens, C. M., and Lynch, M. A. (2012) The age-related deficit in LTP is associated with changes in perfusion and blood-brain barrier permeability, *Neurobiol Aging* 33, 8.
19. Rebola, N., Simoes, A. P., Canas, P. M., Tome, A. R., Andrade, G. M., Barry, C. E., Agostinho, P. M., Lynch, M. A., and Cunha, R. A. (2011) Adenosine A2A receptors control neuroinflammation and consequent hippocampal neuronal dysfunction, *Journal of neurochemistry* 117, 100-111.
20. Ojo, B., Rezaie, P., Gabbott, P. L., Cowley, T. R., Medvedev, N. I., Lynch, M. A., and Stewart, M. G. (2011) A neural cell adhesion molecule-derived peptide, FGL, attenuates glial cell activation in the aged hippocampus, *Experimental neurology* 232, 318-328.
21. Murphy, K. J., Miller, A. M., Thelma, R., Cowley, F., Cox, F. F., and Lynch, M. A. (2011) The age- and amyloid-beta-related increases in Nogo B contribute to microglial activation, *Neurochemistry international* 58, 161-168.

22. Lyons, A., Murphy, K. J., Clarke, R., and Lynch, M. A. (2011) Atorvastatin prevents age-related and amyloid-beta-induced microglial activation by blocking interferon-gamma release from natural killer cells in the brain, *Journal of neuroinflammation* 8, 27.
23. Kelly, L., Grehan, B., Chiesa, A. D., O'Mara, S. M., Downer, E., Sahyoun, G., Massey, K. A., Nicolaou, A., and Lynch, M. A. (2011) The polyunsaturated fatty acids, EPA and DPA exert a protective effect in the hippocampus of the aged rat, *Neurobiol Aging* 32, 2318 e2311-2315.
24. Costello, D. A., Watson, M. B., Cowley, T. R., Murphy, N., Murphy Royal, C., Garlanda, C., and Lynch, M. A. (2011) Interleukin-1alpha and HMGB1 mediate hippocampal dysfunction in SIGIRR-deficient mice, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 31, 3871-3879.
25. Costello, D. A., Lyons, A., Denieffe, S., Browne, T. C., Cox, F. F., and Lynch, M. A. (2011) Long term potentiation is impaired in membrane glycoprotein CD200-deficient mice: a role for Toll-like receptor activation, *The Journal of biological chemistry* 286, 34722-34732.

Kevin Mitchell

1. O'Hanlon, E., Newell, F. N., and Mitchell, K. J. (2013) Combined structural and functional imaging reveals cortical deactivations in grapheme-color synaesthesia, *Frontiers in psychology* 4, 755.
2. Mitchell, K. J. (2013) Genetic entropy and the human intellect, *Trends in genetics : TIG* 29, 59-60.
3. Dolan, J., and Mitchell, K. J. (2013) Mutation of Elnf1 in mice causes seizures and hyperactivity, *PLoS One* 8, e80491.
4. Mitchell, K. J. (2012) What is complex about complex disorders?, *Genome biology* 13, 237.
5. Runker, A. E., O'Tuathaigh, C., Dunleavy, M., Morris, D. W., Little, G. E., Corvin, A. P., Gill, M., Henshall, D. C., Waddington, J. L., and Mitchell, K. J. (2011) Mutation of Semaphorin-6A disrupts limbic and cortical connectivity and models neurodevelopmental psychopathology, *PLoS One* 6, e26488.
6. Mitchell, K. J., Huang, Z. J., Moghaddam, B., and Sawa, A. (2011) Following the genes: a framework for animal modeling of psychiatric disorders, *BMC biology* 9, 76.
7. Mitchell, K. J. (2011) The genetics of neurodevelopmental disease, *Current opinion in neurobiology* 21, 197-203.
8. Mitchell, K. J. (2011) Curiouser and curiouser: genetic disorders of cortical specialization, *Current opinion in genetics & development* 21, 271-277.
9. Mitchell, K. J. (2011) The miswired brain: making connections from neurodevelopment to psychopathology, *BMC biology* 9, 23.
10. Miller-Delaney, S. F., Lieberam, I., Murphy, P., and Mitchell, K. J. (2011) Plxdc2 is a

mitogen for neural progenitors, *PLoS One* 6, e14565.

Kingston Mills

1. Walsh, K. P., and Mills, K. H. (2013) Dendritic cells and other innate determinants of T helper cell polarisation, *Trends in immunology* 34, 521-530.
2. Ross, P. J., Sutton, C. E., Higgins, S., Allen, A. C., Walsh, K., Misiak, A., Lavelle, E. C., McLoughlin, R. M., and Mills, K. H. (2013) Relative contribution of Th1 and Th17 cells in adaptive immunity to Bordetella pertussis: towards the rational design of an improved acellular pertussis vaccine, *PLoS pathogens* 9, e1003264.
3. Morine, M. J., Toomey, S., McGillicuddy, F. C., Reynolds, C. M., Power, K. A., Browne, J. A., Loscher, C., Mills, K. H., and Roche, H. M. (2013) Network analysis of adipose tissue gene expression highlights altered metabolic and regulatory transcriptomic activity in high-fat-diet-fed IL-1RI knockout mice, *The Journal of nutritional biochemistry* 24, 788-795.
4. Mills, K. H., Dungan, L. S., Jones, S. A., and Harris, J. (2013) The role of inflammasome-derived IL-1 in driving IL-17 responses, *Journal of leukocyte biology* 93, 489-497.
5. Mielke, L. A., Jones, S. A., Raverdeau, M., Higgs, R., Stefanska, A., Groom, J. R., Misiak, A., Dungan, L. S., Sutton, C. E., Streubel, G., Bracken, A. P., and Mills, K. H. (2013) Retinoic acid expression associates with enhanced IL-22 production by gammadelta T cells and innate lymphoid cells and attenuation of intestinal inflammation, *The Journal of experimental medicine* 210, 1117-1124.
6. McGillicuddy, F. C., Reynolds, C. M., Finucane, O., Coleman, E., Harford, K. A., Grant, C., Sergi, D., Williams, L. M., Mills, K. H., and Roche, H. M. (2013) Long-term exposure to a high-fat diet results in the development of glucose intolerance and insulin resistance in interleukin-1 receptor I-deficient mice, *American journal of physiology. Endocrinology and metabolism* 305, E834-844.
7. Jones, S. A., Mills, K. H., and Harris, J. (2013) Autophagy and inflammatory diseases, *Immunology and cell biology* 91, 250-258.
8. Galvin, K. C., Dyck, L., Marshall, N. A., Stefanska, A. M., Walsh, K. P., Moran, B., Higgins, S. C., Dungan, L. S., and Mills, K. H. (2013) Blocking retinoic acid receptor-alpha enhances the efficacy of a dendritic cell vaccine against tumours by suppressing the induction of regulatory T cells, *Cancer immunology, immunotherapy : CII* 62, 1273-1282.
9. Coleman, M. M., Ruane, D., Moran, B., Dunne, P. J., Keane, J., and Mills, K. H. (2013) Alveolar macrophages contribute to respiratory tolerance by inducing FoxP3 expression in naive T cells, *American journal of respiratory cell and molecular biology* 48, 773-780.
10. Browne, T. C., McQuillan, K., McManus, R. M., O'Reilly, J. A., Mills, K. H., and Lynch, M. A. (2013) IFN-gamma Production by amyloid beta-specific Th1 cells promotes microglial activation and increases plaque burden in a mouse model of Alzheimer's

- disease, *Journal of immunology (Baltimore, Md. : 1950)* 190, 2241-2251.
11. Sutton, C. E., Mielke, L. A., and Mills, K. H. (2012) IL-17-producing gammadelta T cells and innate lymphoid cells, *European journal of immunology* 42, 2221-2231.
 12. Reynolds, C. M., McGillicuddy, F. C., Harford, K. A., Finucane, O. M., Mills, K. H., and Roche, H. M. (2012) Dietary saturated fatty acids prime the NLRP3 inflammasome via TLR4 in dendritic cells-implications for diet-induced insulin resistance, *Molecular nutrition & food research* 56, 1212-1222.
 13. Peral de Castro, C., Jones, S. A., Ni Cheallaigh, C., Hearnden, C. A., Williams, L., Winter, J., Lavelle, E. C., Mills, K. H., and Harris, J. (2012) Autophagy regulates IL-23 secretion and innate T cell responses through effects on IL-1 secretion, *Journal of immunology (Baltimore, Md. : 1950)* 189, 4144-4153.
 14. Marshall, N. A., Galvin, K. C., Corcoran, A. M., Boon, L., Higgs, R., and Mills, K. H. (2012) Immunotherapy with PI3K inhibitor and Toll-like receptor agonist induces IFN-gamma+IL-17+ polyfunctional T cells that mediate rejection of murine tumors, *Cancer research* 72, 581-591.
 15. Lynch, M. A., and Mills, K. H. (2012) Immunology meets neuroscience--opportunities for immune intervention in neurodegenerative diseases, *Brain Behav Immun* 26, 1-10.
 16. Jones, S. A., Sutton, C. E., Cua, D., and Mills, K. H. (2012) Therapeutic potential of targeting IL-17, *Nature immunology* 13, 1022-1025.
 17. Cunningham, C. C., Mills, E., Mielke, L. A., O'Farrell, L. K., Lavelle, E., Mori, A., McCarthy, G. M., Mills, K. H., and Dunne, A. (2012) Osteoarthritis-associated basic calcium phosphate crystals induce pro-inflammatory cytokines and damage-associated molecules via activation of Syk and PI3 kinase, *Clinical immunology (Orlando, Fla.)* 144, 228-236.
 18. Conroy, H., Galvin, K. C., Higgins, S. C., and Mills, K. H. (2012) Gene silencing of TGF-beta1 enhances antitumor immunity induced with a dendritic cell vaccine by reducing tumor-associated regulatory T cells, *Cancer immunology, immunotherapy : CII* 61, 425-431.
 19. Coleman, M. M., Finlay, C. M., Moran, B., Keane, J., Dunne, P. J., and Mills, K. H. (2012) The immunoregulatory role of CD4(+) FoxP3(+) CD25(-) regulatory T cells in lungs of mice infected with Bordetella pertussis, *FEMS immunology and medical microbiology* 64, 413-424.
 20. Allen, A. C., Kelly, S., Basdeo, S. A., Kinsella, K., Mulready, K. J., Mills, K. H., Tubridy, N., Walsh, C., Brady, J. J., Hutchinson, M., and Fletcher, J. M. (2012) A pilot study of the immunological effects of high-dose vitamin D in healthy volunteers, *Multiple sclerosis (Houndmills, Basingstoke, England)* 18, 1797-1800.

Declan McLoughlin

1. Thekiso, T. B., Heron, E. A., Masood, B., Murphy, M., McLoughlin, D. M., and Kennedy, N. (2013) Mauling of the "Celtic Tiger": clinical characteristics and outcome of

- first-episode depression secondary to the economic recession in Ireland, *Journal of affective disorders* 151, 455-460.
2. Skelly, N., Schnittger, R. I., Butterly, L., Frorath, C., Morgan, C., McLoughlin, D. M., and Fearon, P. (2013) Quality of care in psychosis and bipolar disorder from the service user perspective, *Qualitative health research* 23, 1672-1685.
 3. Semkowska, M., and McLoughlin, D. M. (2013) Measuring retrograde autobiographical amnesia following electroconvulsive therapy: historical perspective and current issues, *The journal of ECT* 29, 127-133.
 4. Ryan, K. M., O'Donovan, S. M., and McLoughlin, D. M. (2013) Electroconvulsive stimulation alters levels of BDNF-associated microRNAs, *Neuroscience letters* 549, 125-129.
 5. Jelovac, A., Kolshus, E., and McLoughlin, D. M. (2013) Relapse following successful electroconvulsive therapy for major depression: a meta-analysis, *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology* 38, 2467-2474.
 6. Agyapong, V. I., McLoughlin, D. M., and Farren, C. K. (2013) Six-months outcomes of a randomised trial of supportive text messaging for depression and comorbid alcohol use disorder, *Journal of affective disorders* 151, 100-104.
 7. Semkowska, M., Noone, M., Carton, M., and McLoughlin, D. M. (2012) Measuring consistency of autobiographical memory recall in depression, *Psychiatry Res* 197, 41-48.
 8. O'Donovan, S., Kennedy, M., Guinan, B., O'Mara, S., and McLoughlin, D. M. (2012) A comparison of brief pulse and ultrabrief pulse electroconvulsive stimulation on rodent brain and behaviour, *Progress in neuro-psychopharmacology & biological psychiatry* 37, 147-152.
 9. Hughes, M. M., Carballedo, A., McLoughlin, D. M., Amico, F., Harkin, A., Frodl, T., and Connor, T. J. (2012) Tryptophan depletion in depressed patients occurs independent of kynurenine pathway activation, *Brain Behav Immun* 26, 979-987.
 10. Hao, Y., Chai, K. H., McLoughlin, D. M., Chan, H. Y., and Lau, K. F. (2012) Promoter characterization and genomic organization of the human X11beta gene APBA2, *Neuroreport* 23, 146-151.
 11. Dunne, R. A., and McLoughlin, D. M. (2012) Systematic review and meta-analysis of bifrontal electroconvulsive therapy versus bilateral and unilateral electroconvulsive therapy in depression, *The world journal of biological psychiatry : the official journal of the World Federation of Societies of Biological Psychiatry* 13, 248-258.
 12. Chai, K. H., McLoughlin, D. M., Chan, T. F., Chan, H. Y., and Lau, K. F. (2012) Genomic organization and promoter cloning of the human X11alpha gene APBA1, *DNA and cell biology* 31, 651-659.
 13. Agyapong, V. I., Ahern, S., McLoughlin, D. M., and Farren, C. K. (2012) Supportive text messaging for depression and comorbid alcohol use disorder: single-blind randomised trial, *Journal of affective disorders* 141, 168-176.

14. Wassif, W. S., McLoughlin, D. M., Vincent, R. P., Conroy, S., Russell, G. F., and Taylor, N. F. (2011) Steroid metabolism and excretion in severe anorexia nervosa: effects of refeeding, *The American journal of clinical nutrition* 93, 911-917.
15. Semkovska, M., Keane, D., Babalola, O., and McLoughlin, D. M. (2011) Unilateral brief-pulse electroconvulsive therapy and cognition: effects of electrode placement, stimulus dosage and time, *Journal of psychiatric research* 45, 770-780.
16. Eranti, S. V., Thirhalli, J., Pattan, V., Mogg, A., Pluck, G., Velayudhan, L., Chan, J., Gangadhar, B. N., and McLoughlin, D. M. (2011) Comparison of electroconvulsive therapy practice between London and Bengaluru, *The journal of ECT* 27, 275-280.

Connail McCrory

1. McCarthy, K. F., Connor, T. J., and McCrory, C. (2013) Cerebrospinal fluid levels of vascular endothelial growth factor correlate with reported pain and are reduced by spinal cord stimulation in patients with failed back surgery syndrome, *Neuromodulation : journal of the International Neuromodulation Society* 16, 519-522; discussion 522.

Fiona Newell

1. Setti, A., Burke, K. E., Kenny, R., and Newell, F. N. (2013) Susceptibility to a multisensory speech illusion in older persons is driven by perceptual processes, *Frontiers in psychology* 4, 575.
2. Pasqualotto, A., Finucane, C. M., and Newell, F. N. (2013) Ambient visual information confers a context-specific, long-term benefit on memory for haptic scenes, *Cognition* 128, 363-379.
3. O'Hanlon, E., Newell, F. N., and Mitchell, K. J. (2013) Combined structural and functional imaging reveals cortical deactivations in grapheme-color synaesthesia, *Frontiers in psychology* 4, 755.
4. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H., Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., Hardiman, O., Teipel, S. J., Wegrzyn, M., Meindl, T., Frisoni, G., Bokde, A. L., Fellgiebel, A., Filippi, M., Hampel, H., Kloppel, S., Hauenstein, K., Ewers, M., Kehoe, E. G., Toomey, J. M., Balsters, J. H., Bokde, A. L., Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., Donohoe, G., O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, R., Coughlan, T., Prvulovic, D., and Hampel, H. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging study of ALS motor phenotype heterogeneity and cortical focality. *J Neurol Neurosurg Psychiatry* 84, 766-773.
5. Barrett, M. M., Doherty, E. P., Setti, A., Maguinness, C., Foran, T. G., Kenny, R. A., and Newell, F. N. (2013) Reduced vision selectively impairs spatial updating in fall-prone older adults, *Multisensory research* 26, 69-94.

6. Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The effect of the neurogranin schizophrenia risk variant rs12807809 on brain structure and function, *Twin research and human genetics : the official journal of the International Society for Twin Studies* 15, 296-303.
7. Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The NOS1 variant rs6490121 is associated with variation in prefrontal function and grey matter density in healthy individuals, *NeuroImage* 60, 614-622.
8. O'Mahony, C., and Newell, F. N. (2012) Integration of faces and voices, but not faces and names, in person recognition, *British journal of psychology (London, England : 1953)* 103, 73-82.
9. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R., Upton, N., Robertson, I. H., Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., Donohoe, G., Bartley, M., Bokde, A. L., O'Neill, D., Kehoe, E. G., Toomey, J. M., Balsters, J. H., and Bokde, A. L. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect. *Neurobiol Aging* 33, 2448-2461.
10. McHugh, J. E., Kearney, G., Rice, H., and Newell, F. N. (2012) The sound of the crowd: auditory information modulates the perceived emotion of a crowd based on bodily expressions, *Emotion (Washington, D.C.)* 12, 120-131.
11. Chan, J. S., Maguinness, C., Lisiacka, D., Setti, A., and Newell, F. N. (2012) Evidence for crossmodal interactions across depth on target localisation performance in a spatial array, *Perception* 41, 757-773.
12. Simoes-Franklin, C., Whitaker, T. A., and Newell, F. N. (2011) Active and passive touch differentially activate somatosensory cortex in texture perception, *Human brain mapping* 32, 1067-1080.
13. Setti, A., Finnigan, S., Sobolewski, R., McLaren, L., Robertson, I. H., Reilly, R. B., Kenny, R. A., and Newell, F. N. (2011) Audiovisual temporal discrimination is less efficient with aging: an event-related potential study, *Neuroreport* 22, 554-558.
14. Setti, A., Burke, K. E., Kenny, R. A., and Newell, F. N. (2011) Is inefficient multisensory processing associated with falls in older people?, *Experimental brain research* 209, 375-384.
15. Pomianowska, I., Germeys, F., Verfaillie, K., and Newell, F. N. (2011) The role of social cues in the deployment of spatial attention: head-body relationships automatically activate directional spatial codes in a Simon task, *Frontiers in integrative neuroscience* 6, 4.
16. Maguinness, C., Setti, A., Burke, K. E., Kenny, R. A., and Newell, F. N. (2011) The effect of combined sensory and semantic components on audio-visual speech perception

in older adults, *Frontiers in aging neuroscience* 3, 19.

Redmond O'Connell

1. Newman, D. P., O'Connell, R. G., and Bellgrove, M. A. (2013) Linking time-on-task, spatial bias and hemispheric activation asymmetry: a neural correlate of rightward attention drift, *Neuropsychologia* 51, 1215-1223.
2. Kelly, S. P., and O'Connell, R. G. (2013) Internal and external influences on the rate of sensory evidence accumulation in the human brain, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 33, 19434-19441.
3. Harty, S., O'Connell, R. G., Hester, R., and Robertson, I. H. (2013) Older adults have diminished awareness of errors in the laboratory and daily life, *Psychology and aging* 28, 1032-1041.
4. Balsters, J. H., O'Connell, R. G., Galli, A., Nolan, H., Greco, E., Kilcullen, S. M., Bokde, A. L., Lai, R., Upton, N., and Robertson, I. H. (2013) Changes in resting connectivity with age: a simultaneous electroencephalogram and functional magnetic resonance imaging investigation, *Neurobiol Aging* 34, 2194-2207.
5. O'Connell, R. G., Dockree, P. M., and Kelly, S. P. (2012) A supramodal accumulation-to-bound signal that determines perceptual decisions in humans, *Nature neuroscience* 15, 1729-1735.
6. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R., Upton, N., Robertson, I. H., Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., Donohoe, G., Bartley, M., Bokde, A. L., O'Neill, D., Kehoe, E. G., Toomey, J. M., Balsters, J. H., and Bokde, A. L. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect. *Neurobiol Aging* 33, 2448-2461.
7. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R., Upton, N., and Robertson, I. H. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect, *Neurobiol Aging* 33, 2448-2461.
8. Newman, D. P., O'Connell, R. G., Nathan, P. J., and Bellgrove, M. A. (2012) Dopamine transporter genotype predicts attentional asymmetry in healthy adults, *Neuropsychologia* 50, 2823-2829.
9. Murphy, P. R., Robertson, I. H., Allen, D., Hester, R., and O'Connell, R. G. (2012) An electrophysiological signal that precisely tracks the emergence of error awareness, *Front Hum Neurosci* 6, 65.
10. Hester, R., Nandam, L. S., O'Connell, R. G., Wagner, J., Strudwick, M., Nathan, P. J., Mattingley, J. B., and Bellgrove, M. A. (2012) Neurochemical enhancement of conscious error awareness, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 2619-2627.
11. Cassidy, S. M., Robertson, I. H., and O'Connell, R. G. (2012) Retest reliability of event-

- related potentials: evidence from a variety of paradigms, *Psychophysiology* 49, 659-664.
12. O'Connell, R. G., Schneider, D., Hester, R., Mattingley, J. B., and Bellgrove, M. A. (2011) Attentional load asymmetrically affects early electrophysiological indices of visual orienting, *Cereb Cortex* 21, 1056-1065.
 13. Finnigan, S., O'Connell, R. G., Cummins, T. D., Broughton, M., and Robertson, I. H. (2011) ERP measures indicate both attention and working memory encoding decrements in aging, *Psychophysiology* 48, 601-611.
 14. Barnes, J. J., Dean, A. J., Nandam, L. S., O'Connell, R. G., and Bellgrove, M. A. (2011) The molecular genetics of executive function: role of monoamine system genes, *Biological psychiatry* 69, 11.
 15. Balsters, J. H., O'Connell, R. G., Martin, M. P., Galli, A., Cassidy, S. M., Kilcullen, S. M., Delmonte, S., Brennan, S., Meaney, J. F., Fagan, A. J., Bokde, A. L., Upton, N., Lai, R., Laruelle, M., Lawlor, B., and Robertson, I. H. (2011) Donepezil impairs memory in healthy older subjects: behavioural, EEG and simultaneous EEG/fMRI biomarkers, *PLoS One* 6, e24126.

John O'Doherty

1. Prevost, C., McNamee, D., Jessup, R. K., Bossaerts, P., and O'Doherty, J. P. (2013) Evidence for model-based computations in the human amygdala during Pavlovian conditioning, *PLoS computational biology* 9, e1002918.
2. Payzan-LeNestour, E., Dunne, S., Bossaerts, P., and O'Doherty, J. P. (2013) The neural representation of unexpected uncertainty during value-based decision making, *Neuron* 79, 191-201.
3. McNamee, D., Rangel, A., and O'Doherty, J. P. (2013) Category-dependent and category-independent goal-value codes in human ventromedial prefrontal cortex, *Nature neuroscience* 16, 479-485.
4. Lim, S. L., O'Doherty, J. P., and Rangel, A. (2013) Stimulus value signals in ventromedial PFC reflect the integration of attribute value signals computed in fusiform gyrus and posterior superior temporal gyrus, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 33, 8729-8741.
5. Liljeholm, M., Wang, S., Zhang, J., and O'Doherty, J. P. (2013) Neural correlates of the divergence of instrumental probability distributions, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 33, 12519-12527.
6. Dunne, S., and O'Doherty, J. P. (2013) Insights from the application of computational neuroimaging to social neuroscience, *Current opinion in neurobiology* 23, 387-392.
7. De Martino, B., O'Doherty, J. P., Ray, D., Bossaerts, P., and Camerer, C. (2013) In the mind of the market: theory of mind biases value computation during financial bubbles, *Neuron* 79, 1222-1231.
8. Cooper, J. C., Dunne, S., Furey, T., and O'Doherty, J. P. (2013) The Role of the Posterior

Temporal and Medial Prefrontal Cortices in Mediating Learning from Romantic Interest and Rejection, *Cereb Cortex*.

9. Boorman, E. D., O'Doherty, J. P., Adolphs, R., and Rangel, A. (2013) The behavioral and neural mechanisms underlying the tracking of expertise, *Neuron* 80, 1558-1571.
10. Prevost, C., Liljeholm, M., Tyszka, J. M., and O'Doherty, J. P. (2012) Neural correlates of specific and general Pavlovian-to-Instrumental Transfer within human amygdalar subregions: a high-resolution fMRI study, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 8383-8390.
11. O'Doherty, J. P. (2012) Beyond simple reinforcement learning: the computational neurobiology of reward-learning and valuation, *The European journal of neuroscience* 35, 987-990.
12. Niv, Y., Edlund, J. A., Dayan, P., and O'Doherty, J. P. (2012) Neural prediction errors reveal a risk-sensitive reinforcement-learning process in the human brain, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 551-562.
13. Liljeholm, M., and O'Doherty, J. P. (2012) Anything you can do, you can do better: neural substrates of incentive-based performance enhancement, *PLoS biology* 10, e1001272.
14. Liljeholm, M., and O'Doherty, J. P. (2012) Contributions of the striatum to learning, motivation, and performance: an associative account, *Trends in cognitive sciences* 16, 467-475.
15. Liljeholm, M., Molloy, C. J., and O'Doherty, J. P. (2012) Dissociable brain systems mediate vicarious learning of stimulus-response and action-outcome contingencies, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 9878-9886.
16. Kovach, C. K., Daw, N. D., Rudrauf, D., Tranel, D., O'Doherty, J. P., and Adolphs, R. (2012) Anterior prefrontal cortex contributes to action selection through tracking of recent reward trends, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 8434-8442.
17. Dunne, S., and O'Doherty, J. P. (2012) Choosing for me or choosing for you: value in medial prefrontal cortex, *Neuron* 75, 942-944.
18. Cooper, J. C., Dunne, S., Furey, T., and O'Doherty, J. P. (2012) Dorsomedial prefrontal cortex mediates rapid evaluations predicting the outcome of romantic interactions, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 15647-15656.
19. Cooper, J. C., Dunne, S., Furey, T., and O'Doherty, J. P. (2012) Human dorsal striatum encodes prediction errors during observational learning of instrumental actions, *Journal of cognitive neuroscience* 24, 106-118.
20. Chib, V. S., De Martino, B., Shimojo, S., and O'Doherty, J. P. (2012) Neural mechanisms underlying paradoxical performance for monetary incentives are driven by loss aversion, *Neuron* 74, 582-594.

21. Wunderlich, K., Beierholm, U. R., Bossaerts, P., and O'Doherty, J. P. (2011) The human prefrontal cortex mediates integration of potential causes behind observed outcomes, *Journal of neurophysiology* 106, 1558-1569.
22. Prevost, C., McCabe, J. A., Jessup, R. K., Bossaerts, P., and O'Doherty, J. P. (2011) Differentiable contributions of human amygdalar subregions in the computations underlying reward and avoidance learning, *The European journal of neuroscience* 34, 134-145.
23. O'Doherty, J. P. (2011) Contributions of the ventromedial prefrontal cortex to goal-directed action selection, *Annals of the New York Academy of Sciences* 1239, 118-129.
24. O'Doherty, J. P. (2011) Reward Predictions and Computations. *Neurobiology of Sensation and Reward*, Llc., Boca Raton FL.
25. Lim, S. L., O'Doherty, J. P., and Rangel, A. (2011) The decision value computations in the vmPFC and striatum use a relative value code that is guided by visual attention, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 31, 13214-13223.
26. Liljeholm, M., Tricomi, E., O'Doherty, J. P., and Balleine, B. W. (2011) Neural correlates of instrumental contingency learning: differential effects of action-reward conjunction and disjunction, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 31, 2474-2480.
27. Kim, H., Shimojo, S., and O'Doherty, J. P. (2011) Overlapping responses for the expectation of juice and money rewards in human ventromedial prefrontal cortex, *Cereb Cortex* 21, 769-776.
28. Jessup, R. K., and O'Doherty, J. P. (2011) Human dorsal striatal activity during choice discriminates reinforcement learning behavior from the gambler's fallacy, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 31, 6296-6304.
29. Hare, T. A., Schultz, W., Camerer, C. F., O'Doherty, J. P., and Rangel, A. (2011) Transformation of stimulus value signals into motor commands during simple choice, *Proceedings of the National Academy of Sciences of the United States of America* 108, 18120-18125.

Veronica O'Keane

1. Leahy, D., Schaffalitzky, E., Armstrong, C., Bury, G., Cussen-Murphy, P., Davis, R., Dooley, B., Gavin, B., Keane, R., Keenan, E., Latham, L., Meagher, D., McGorry, P., McNicholas, F., O'Connor, R., O'Dea, E., O'Keane, V., O'Toole, T. P., Reilly, E., Ryan, P., Sanci, L., Smyth, B. P., and Cullen, W. (2013) Primary care and youth mental health in Ireland: qualitative study in deprived urban areas, *BMC family practice* 14, 194.
2. Frodl, T., and O'Keane, V. (2013) How does the brain deal with cumulative stress? A review with focus on developmental stress, HPA axis function and hippocampal structure in humans, *Neurobiology of disease* 52, 24-37.
3. O'Keane, V., Frodl, T., and Dinan, T. G. (2012) A review of Atypical depression in

relation to the course of depression and changes in HPA axis organization, *Psychoneuroendocrinology* 37, 1589-1599.

4. Aitchison, K. J., Mir, A., Shivakumar, K., McAllister, V. D., O'Keane, V., and McCrone, P. (2011) Costs and outcomes associated with an aripiprazole add-on or switching open-label study in psychosis, *Journal of psychopharmacology (Oxford, England)* 25, 675-684.

Shane O'Mara

1. Wright, N. F., Vann, S. D., Erichsen, J. T., O'Mara, S. M., and Aggleton, J. P. (2013) Segregation of parallel inputs to the anteromedial and anteroventral thalamic nuclei of the rat, *The Journal of comparative neurology* 521, 2966-2986.
2. Mullally, S. L., and O'Mara, S. M. (2013) Suppressing the encoding of new information in memory: a behavioral study derived from principles of hippocampal function, *PLoS One* 8, e50814.
3. Jankowski, M. M., Ronnqvist, K. C., Tsanov, M., Vann, S. D., Wright, N. F., Erichsen, J. T., Aggleton, J. P., and O'Mara, S. M. (2013) The anterior thalamus provides a subcortical circuit supporting memory and spatial navigation, *Frontiers in systems neuroscience* 7, 45.
4. Wang, B. W., Hok, V., Della-Chiesa, A., Callaghan, C., Barlow, S., Tsanov, M., Bechara, R., Irving, E., Virley, D. J., Upton, N., and O'Mara, S. M. (2012) Rosiglitazone enhances learning, place cell activity, and synaptic plasticity in middle-aged rats, *Neurobiol Aging* 33, 835 e813-830.
5. Middei, S., Spalloni, A., Longone, P., Pittenger, C., O'Mara, S. M., Marie, H., and Ammassari-Teule, M. (2012) CREB selectively controls learning-induced structural remodeling of neurons, *Learning & memory (Cold Spring Harbor, N.Y.)* 19, 330-336.
6. Hok, V., Chah, E., Reilly, R. B., and O'Mara, S. M. (2012) Hippocampal dynamics predict interindividual cognitive differences in rats, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 3540-3551.
7. Feeney, J., Gaffney, P., and O'Mara, S. M. (2012) Age and cortisol levels modulate judgment of positive and negative facial expressions, *Psychoneuroendocrinology* 37, 827-835.
8. Callaghan, C. K., Hok, V., Della-Chiesa, A., Virley, D. J., Upton, N., and O'Mara, S. M. (2012) Age-related declines in delayed non-match-to-sample performance (DNMS) are reversed by the novel 5HT6 receptor antagonist SB742457, *Neuropharmacology* 63, 890-897.
9. Vann, S. D., Erichsen, J. T., O'Mara, S. M., and Aggleton, J. P. (2011) Selective disconnection of the hippocampal formation projections to the mammillary bodies produces only mild deficits on spatial memory tasks: implications for fornix function, *Hippocampus* 21, 945-957.
10. Tsanov, M., Vann, S. D., Erichsen, J. T., Wright, N., Aggleton, J. P., and O'Mara, S. M. (2011) Differential regulation of synaptic plasticity of the hippocampal and the

- hypothalamic inputs to the anterior thalamus, *Hippocampus* 21, 1-8.
11. Tsanov, M., Chah, E., Wright, N., Vann, S. D., Reilly, R., Erichsen, J. T., Aggleton, J. P., and O'Mara, S. M. (2011) Oscillatory entrainment of thalamic neurons by theta rhythm in freely moving rats, *Journal of neurophysiology* 105, 4-17.
 12. Tsanov, M., Chah, E., Vann, S. D., Reilly, R. B., Erichsen, J. T., Aggleton, J. P., and O'Mara, S. M. (2011) Theta-modulated head direction cells in the rat anterior thalamus, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 31, 9489-9502.
 13. Smith, K. J., Norris, S., O'Farrelly, C., and O'Mara, S. M. (2011) Risk factors for the development of depression in patients with hepatitis C taking interferon-alpha, *Neuropsychiatric disease and treatment* 7, 275-292.
 14. Passecker, J., Hok, V., Della-Chiesa, A., Chah, E., and O'Mara, S. M. (2011) Dissociation of dorsal hippocampal regional activation under the influence of stress in freely behaving rats, *Frontiers in behavioral neuroscience* 5, 66.
 15. Kelly, L., Grehan, B., Chiesa, A. D., O'Mara, S. M., Downer, E., Sahyoun, G., Massey, K. A., Nicolaou, A., and Lynch, M. A. (2011) The polyunsaturated fatty acids, EPA and DPA exert a protective effect in the hippocampus of the aged rat, *Neurobiol Aging* 32, 2318 e2311-2315.
 16. Irish, M., Lawlor, B. A., O'Mara, S. M., and Coen, R. F. (2011) Impaired capacity for auto-noetic reliving during autobiographical event recall in mild Alzheimer's disease, *Cortex; a journal devoted to the study of the nervous system and behavior* 47, 236-249.
 17. Irish, M., Lawlor, B. A., Coen, R. F., and O'Mara, S. M. (2011) Everyday episodic memory in amnesic mild cognitive impairment: a preliminary investigation, *BMC neuroscience* 12, 80.
 18. Griffin, E. W., Mullally, S., Foley, C., Warmington, S. A., O'Mara, S. M., and Kelly, A. M. (2011) Aerobic exercise improves hippocampal function and increases BDNF in the serum of young adult males, *Physiology & behavior* 104, 934-941.
 19. Chah, E., Hok, V., O'Mara, S. M., and Reilly, R. B. (2011) A waveform independent cell identification method to study long-term variability of spike recordings, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference* 61, 2558-2561.

Desmond O'Neill

1. Tobin, W. O., Kinsella, J. A., Kavanagh, G. F., O'Donnell, J. S., McGrath, R. A., Collins, D. R., Coughlan, T., O'Neill, D., Egan, B., Tierney, S., Feeley, T. M., Murphy, R. P., and McCabe, D. J. (2013) Longitudinal assessment of thrombin generation potential in response to alteration of antiplatelet therapy after TIA or ischaemic stroke, *Journal of neurology* 260, 590-596.
2. Tobin, W. O., Kinsella, J. A., Coughlan, T., Collins, D. R., O'Neill, D., Murphy, R. P.,

- Egan, B., Tierney, S., Feeley, T. M., and McCabe, D. J. (2013) High on-treatment platelet reactivity on commonly prescribed antiplatelet agents following transient ischaemic attack or ischaemic stroke: results from the Trinity Antiplatelet Responsiveness (TRAP) study, *European journal of neurology : the official journal of the European Federation of Neurological Societies* 20, 344-352.
3. Teipel, S. J., Sabri, O., Grothe, M., Barthel, H., Prvulovic, D., Buerger, K., Bokde, A. L., Ewers, M., Hoffmann, W., Hampel, H., O'Dwyer, L., Lamberton, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, D. R., Coughlan, T., Prvulovic, D., and Hampel, H. (2013) Perspectives for multimodal neurochemical and imaging biomarkers in Alzheimer's disease. *J Alzheimers Dis* 33 Suppl 1, S329-347.
 4. O'Neill, D. (2013) 2012 -- That was the year that was, *Age Ageing* 42, 140-144.
 5. O'Neill, D. (2013) Should patients with dementia who wander be electronically tagged? No, *BMJ (Clinical research ed.)* 346, f3606.
 6. O'Connell, C., Cassidy, A., O'Neill, D., and Moss, H. (2013) The aesthetic and cultural pursuits of patients with stroke, *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association* 22, e404-418.
 7. Kinsella, J. A., Tobin, W. O., Cox, D., Coughlan, T., Collins, R., O'Neill, D., Murphy, R. P., and McCabe, D. J. (2013) Prevalence of ex vivo high on-treatment platelet reactivity on antiplatelet therapy after transient ischemic attack or ischemic stroke on the PFA-100((R)) and VerifyNow((R)), *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association* 22, e84-92.
 8. Kennelly, S. P., Morley, D., Coughlan, T., Collins, R., Rochford, M., and O'Neill, D. (2013) Knowledge, skills and attitudes of doctors towards assessing cognition in older patients in the emergency department, *Postgraduate medical journal* 89, 137-141.
 9. Donnellan, C., Martins, A., Conlon, A., Coughlan, T., O'Neill, D., and Collins, D. R. (2013) Mapping patients' experiences after stroke onto a patient-focused intervention framework, *Disability and rehabilitation* 35, 483-491.
 10. Bradley, D., Cronin, S., Kinsella, J. A., Tobin, W. O., Mahon, C., O'Brien, M., Lonergan, R., Cooney, M. T., Kennelly, S., Collins, D. R., O'Neill, D., Coughlan, T., Smyth, S., and McCabe, D. J. (2013) Frequent inaccuracies in ABCD2 scoring in non-stroke specialists' referrals to a daily Rapid Access Stroke Prevention service, *Journal of the neurological sciences* 332, 30-34.
 11. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H., Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., Hardiman, O., Teipel, S. J., Wegrzyn, M., Meindl, T., Frisoni, G., Bokde, A. L., Fellgiebel, A., Filippi, M., Hampel, H., Kloppel, S., Hauenstein, K., Ewers, M., Kehoe, E. G., Toomey, J. M., Balsters, J. H., Bokde, A. L., Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., Donohoe, G., O'Dwyer, L., Lamberton, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, R., Coughlan,

- T., Prvulovic, D., and Hampel, H. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging study of ALS motor phenotype heterogeneity and cortical focality. *J Neurol Neurosurg Psychiatry* 84, 766-773.
12. Stapleton, T., Connolly, D., and O'Neill, D. (2012) Exploring the relationship between self-awareness of driving efficacy and that of a proxy when determining fitness to drive after stroke, *Australian occupational therapy journal* 59, 63-70.
 13. Smith, S., Horgan, F., Sexton, E., Cowman, S., Hickey, A., Kelly, P., McGee, H., Murphy, S., O'Neill, D., Royston, M., Shelley, E., and Wiley, M. (2012) The cost of stroke and transient ischaemic attack in Ireland: a prevalence-based estimate, *Age Ageing* 41, 332-338.
 14. O'Neill, D. (2012) A piece of my mind. To live (and die) as an original, *JAMA : the journal of the American Medical Association* 308, 679-680.
 15. O'Neill, D. (2012) Medical screening of older drivers is not evidence based, *BMJ (Clinical research ed.)* 345, e6371.
 16. O'Neill, D. (2012) More mad and more wise, *Accident; analysis and prevention* 49, 263-265.
 17. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R., Upton, N., Robertson, I. H., Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., Donohoe, G., Bartley, M., Bokde, A. L., O'Neill, D., Kehoe, E. G., Toomey, J. M., Balsters, J. H., and Bokde, A. L. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect. *Neurobiol Aging* 33, 2448-2461.
 18. Donnellan, C., Hevey, D., Hickey, A., and O'Neill, D. (2012) Adaptation to stroke using a model of successful aging, *Neuropsychology, development, and cognition. Section B, Aging, neuropsychology and cognition* 19, 530-547.
 19. Sprigg, N., Gray, L. J., Bath, P. M., Christensen, H., De Deyn, P. P., Leys, D., O'Neill, D., and Ringelstein, E. B. (2011) Quality of Life after Ischemic Stroke Varies in Western Countries: Data from the Tinzaparin in Acute Ischaemic Stroke Trial (TAIST), *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association* 8, 8.
 20. Prvulovic, D., Bokde, A. L., Faltraco, F., Hampel, H., O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, D. R., Coughlan, T., Prvulovic, D., Hampel, H., Bede, P., Bokde, A. L., Byrne, S. C., Elamin, M., Walsh, R. J., Hardiman, O., Ewers, M., Walsh, C., Trojanowski, J. Q., Shaw, L. M., Petersen, R. C., Jack, C. R., Jr., Feldman, H. H., Bokde, A. L., Alexander, G. E., Scheltens, P., Vellas, B., Dubois, B., Weiner, M., and Hampel, H. (2011) Functional magnetic resonance imaging as a dynamic candidate biomarker for Alzheimer's disease. *Prog Neurobiol* 95, 557-569.
 21. O'Neill, D. (2011) 4'33" and the theatre of medicine, *QJM : monthly journal of the Association of Physicians* 104, 905-906.

22. O'Neill, D. (2011) The art of the demographic dividend, *Lancet* 377, 1828-1829.
23. O'Neill, D. (2011) Jellyiatrics, *BMJ (Clinical research ed.)* 343, d7447.
24. O'Neill, D. (2011) *Respect and care for the older person*, *Lancet*. 2011 Feb 19;377(9766):640.
25. O'Neill, D. (2011) *Loneliness*, *Lancet*. 2011 Mar 5;377(9768):812.
26. O'Neill, D. (2011) *Anticoagulation in AF. Stroke and dementia are also chronic diseases*, *BMJ*. 2011 Feb 22;342:d1154. doi: 10.1136/bmj.d1154.
27. O'Neill, D. (2011) *Dialogue at Davos for an aging world*, *J Am Geriatr Soc*. 2011 Aug;59(8):1540-1. doi: 10.1111/j.1532-5415.2011.03504.x.
28. O'Dwyer, L., Lamberton, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, D. R., Coughlan, T., Prvulovic, D., and Hampel, H. (2011) Using diffusion tensor imaging and mixed-effects models to investigate primary and secondary white matter degeneration in Alzheimer's disease and mild cognitive impairment, *J Alzheimers Dis* 26, 667-682.
29. O'Dwyer, L., Lamberton, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, D. R., Coughlan, T., Prvulovic, D., and Hampel, H. (2011) Multiple indices of diffusion identifies white matter damage in mild cognitive impairment and Alzheimer's disease, *PLoS One* 6, e21745.
30. Horgan, F., McGee, H., Hickey, A., Whitford, D. L., Murphy, S., Royston, M., Cowman, S., Shelley, E., Conroy, R. M., Wiley, M., and O'Neill, D. (2011) From prevention to nursing home care: a comprehensive national audit of stroke care, *Cerebrovasc Dis* 32, 385-392.
31. Hampel, H., Prvulovic, D., Teipel, S. J., Bokde, A. L., Carballedo, A., Scheuerecker, J., Meisenzahl, E., Schoepf, V., Bokde, A., Moller, H. J., Doyle, M., Wiesmann, M., Frodl, T., O'Dwyer, L., Lamberton, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, D. R., Coughlan, T., Prvulovic, D., and Hampel, H. (2011) Recent developments of functional magnetic resonance imaging research for drug development in Alzheimer's disease. *Prog Neurobiol* 95, 570-578.
32. Ellis, G., Whitehead, M. A., Robinson, D., O'Neill, D., and Langhorne, P. (2011) Comprehensive geriatric assessment for older adults admitted to hospital: meta-analysis of randomised controlled trials, *BMJ (Clinical research ed.)* 27.
33. Ellis, G., Whitehead, M. A., O'Neill, D., Langhorne, P., and Robinson, D. (2011) Comprehensive geriatric assessment for older adults admitted to hospital, *Cochrane Database Syst Rev* 6.
34. Bartley, M., O'Neill, D., Knight, P. V., and O'Brien, J. G. (2011) *Self-neglect and elder abuse: related phenomena?*, *J Am Geriatr Soc*. 2011 Nov;59(11):2163-8. doi: 10.1111/j.1532-5415.2011.03653.x.
35. Bartley, M., Bokde, A. L., and O'Neill, D. (2011) Mild cognitive impairment, *N Engl J Med* 365, 1357-1358; author reply 1358-1359.

Mani Ramaswami

1. Sadandappa, M. K., and Ramaswami, M. (2013) Fly model causes neurological rethink, *eLife* 2, e01820.
2. Sadanandappa, M. K., and Ramaswami, M. (2013) Correction: Fly model causes neurological rethink, *eLife* 2, e02094.
3. Sadanandappa, M. K., Blanco Redondo, B., Michels, B., Rodrigues, V., Gerber, B., VijayRaghavan, K., Buchner, E., and Ramaswami, M. (2013) Synapsin function in GABA-ergic interneurons is required for short-term olfactory habituation, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 33, 16576-16585.
4. Ramaswami, M., Taylor, J. P., and Parker, R. (2013) Altered ribostasis: RNA-protein granules in degenerative disorders, *Cell* 154, 727-736.
5. Blanco Redondo, B., Bunz, M., Halder, P., Sadanandappa, M. K., Muhlbauer, B., Erwin, F., Hofbauer, A., Rodrigues, V., VijayRaghavan, K., Ramaswami, M., Rieger, D., Wegener, C., Forster, C., and Buchner, E. (2013) Identification and structural characterization of interneurons of the Drosophila brain by monoclonal antibodies of the wurzburg hybridoma library, *PLoS One* 8, e75420.
6. Tabone, C. J., and Ramaswami, M. (2012) Is NMDA receptor-coincidence detection required for learning and memory?, *Neuron* 74, 767-769.
7. Sudhakaran, I. P., Holohan, E. E., Osman, S., Rodrigues, V., Vijayraghavan, K., and Ramaswami, M. (2012) Plasticity of recurrent inhibition in the Drosophila antennal lobe, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 7225-7231.
8. Pradhan, S. J., Nesler, K. R., Rosen, S. F., Kato, Y., Nakamura, A., Ramaswami, M., and Barbee, S. A. (2012) The conserved P body component HPat/Pat1 negatively regulates synaptic terminal growth at the larval Drosophila neuromuscular junction, *Journal of cell science* 125, 6105-6116.
9. Paranjpe, P., Rodrigues, V., VijayRaghavan, K., and Ramaswami, M. (2012) Gustatory habituation in Drosophila relies on rutabaga (adenylate cyclase)-dependent plasticity of GABAergic inhibitory neurons, *Learning & memory (Cold Spring Harbor, N.Y.)* 19, 627-635.
10. Krishnan, K. S., Ramaswami, M., and Wu, C. F. (2012) Obaid Siddiqi at 80 and neurogenetics in India, *Journal of neurogenetics* 26, 255-256.
11. McCann, C., Holohan, E. E., Das, S., Dervan, A., Larkin, A., Lee, J. A., Rodrigues, V., Parker, R., and Ramaswami, M. (2011) The Ataxin-2 protein is required for microRNA function and synapse-specific long-term olfactory habituation, *Proceedings of the National Academy of Sciences of the United States of America* 108, E655-662.
12. Das, S., Sadanandappa, M. K., Dervan, A., Larkin, A., Lee, J. A., Sudhakaran, I. P., Priya, R., Heidari, R., Holohan, E. E., Pimentel, A., Gandhi, A., Ito, K., Sanyal, S., Wang, J. W., Rodrigues, V., and Ramaswami, M. (2011) Plasticity of local GABAergic

interneurons drives olfactory habituation, *Proceedings of the National Academy of Sciences of the United States of America* 108, E646-654.

Richard Reilly

1. Mc Laughlin, M., Reilly, R. B., and Zeng, F. G. (2013) Rate and onset cues can improve cochlear implant synthetic vowel recognition in noise, *The Journal of the Acoustical Society of America* 133, 1546-1560.
2. Mc Laughlin, M., Lopez Valdes, A., Reilly, R. B., and Zeng, F. G. (2013) Cochlear implant artifact attenuation in late auditory evoked potentials: a single channel approach, *Hearing research* 302, 84-95.
3. Lopez-Valdes, A., McLaughlin, M., Viani, L., Walshe, P., Smith, J., Zeng, F. G., and Reilly, R. B. (2013) Auditory mismatch negativity in cochlear implant users: A window to spectral discrimination, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2013*, 3555-3558.
4. Killane, I., Donoghue, O. A., Savva, G. M., Cronin, H., Kenny, R. A., and Reilly, R. B. (2013) Variance between walking speed and neuropsychological test scores during three gait tasks across the irish longitudinal study on aging (TILDA) dataset, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2013*, 6921-6924.
5. Killane, I., Browett, G., and Reilly, R. B. (2013) Measurement of attention during movement: acquisition of ambulatory EEG and cognitive performance from healthy young adults, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2013*, 6397-6400.
6. Hutchinson, M., Kimmich, O., Molloy, A., Whelan, R., Molloy, F., Lynch, T., Healy, D. G., Walsh, C., Edwards, M. J., Ozelius, L., Reilly, R. B., and O'Riordan, S. (2013) The endophenotype and the phenotype: temporal discrimination and adult-onset dystonia, *Movement disorders : official journal of the Movement Disorder Society* 28, 1766-1774.
7. Holmes, M. S., Seheult, J. N., Geraghty, C., D'Arcy, S., O'Brien, U., Crispino O'Connell, G., Costello, R. W., and Reilly, R. B. (2013) A method of estimating inspiratory flow rate and volume from an inhaler using acoustic measurements, *Physiological measurement* 34, 903-914.
8. Holmes, M. S., Seheult, J., Geraghty, C., D'Arcy, S., Costello, R. W., and Reilly, R. B. (2013) Using acoustics to estimate inspiratory flow rate and drug removed from a dry powder inhaler, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2013*, 6866-6869.
9. Holmes, M. S., D'Arcy, S., Costello, R. W., and Reilly, R. B. (2013) An acoustic method of automatically evaluating patient inhaler technique, *Conference proceedings : ...*

- Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2013, 1322-1325.*
10. D'Arcy, S., Rapcan, V., Gali, A., Burke, N., O'Connell, G. C., Robertson, I. H., and Reilly, R. B. (2013) A study into the automation of cognitive assessment tasks for delivery via the telephone: lessons for developing remote monitoring applications for the elderly, *Technology and health care : official journal of the European Society for Engineering and Medicine* 21, 387-396.
 11. Rochford, I., Rapcan, V., D'Arcy, S., and Reilly, R. B. (2012) Dynamic minimum pause threshold estimation for speech analysis in studies of cognitive function in ageing, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2012, 3700-3703.*
 12. Power, A. J., Foxe, J. J., Forde, E. J., Reilly, R. B., and Lalor, E. C. (2012) At what time is the cocktail party? A late locus of selective attention to natural speech, *The European journal of neuroscience* 35, 1497-1503.
 13. Kiiski, H., Reilly, R. B., Lonergan, R., Kelly, S., O'Brien, M. C., Kinsella, K., Bramham, J., Burke, T., S, O. D., Nolan, H., Hutchinson, M., Tubridy, N., and Whelan, R. (2012) Only low frequency event-related EEG activity is compromised in multiple sclerosis: insights from an independent component clustering analysis, *PLoS One* 7, e45536.
 14. Holmes, M. S., Le Menn, M., D'Arcy, S., Rapcan, V., MacHale, E., Costello, R. W., and Reilly, R. B. (2012) Automatic identification and accurate temporal detection of inhalations in asthma inhaler recordings, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2012, 2595-2598.*
 15. Hok, V., Chah, E., Reilly, R. B., and O'Mara, S. M. (2012) Hippocampal dynamics predict interindividual cognitive differences in rats, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32, 3540-3551.
 16. Tsanov, M., Chah, E., Vann, S. D., Reilly, R. B., Erichsen, J. T., Aggleton, J. P., and O'Mara, S. M. (2011) Theta-modulated head direction cells in the rat anterior thalamus, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 31, 9489-9502.
 17. Setti, A., Finnigan, S., Sobolewski, R., McLaren, L., Robertson, I. H., Reilly, R. B., Kenny, R. A., and Newell, F. N. (2011) Audiovisual temporal discrimination is less efficient with aging: an event-related potential study, *Neuroreport* 22, 554-558.
 18. Reilly, R. B., and Lee, T. C. (2011) Biosensors, *Technology and health care : official journal of the European Society for Engineering and Medicine* 19, 285-293.
 19. Power, A. J., Reilly, R. B., and Lalor, E. C. (2011) Comparing linear and quadratic models of the human auditory system using EEG, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2011, 4171-4174.*

20. Power, A. J., Lalor, E. C., and Reilly, R. B. (2011) Endogenous auditory spatial attention modulates obligatory sensory activity in auditory cortex, *Cereb Cortex* 21, 1223-1230.
21. Nolan, H., Butler, J. S., Whelan, R., Foxe, J. J., Bulthoff, H. H., and Reilly, R. B. (2011) Motion P3 demonstrates neural nature of motion ERPs, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2011*, 3884-3887.
22. McHugh, J. C., Reilly, R. B., and Connolly, S. (2011) Examining the effects of age, sex, and body mass index on normative median motor nerve excitability measurements, *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology* 122, 2081-2088.
23. Kimmich, O., Bradley, D., Whelan, R., Mulrooney, N., Reilly, R. B., Hutchinson, S., O'Riordan, S., and Hutchinson, M. (2011) Sporadic adult onset primary torsion dystonia is a genetic disorder by the temporal discrimination test, *Brain : a journal of neurology* 134, 2656-2663.
24. Chah, E., Hok, V., O'Mara, S. M., and Reilly, R. B. (2011) A waveform independent cell identification method to study long-term variability of spike recordings, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 61*, 2558-2561.
25. Cervigon, R., Sanchez, C., Moreno, J., Reilly, R. B., and Castells, F. (2011) Morphology quantification of atrial fibrillation under propofol using principal components analysis, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2011*, 6967-6970.

Ian Robertson

1. Robertson, I. H. (2013) A noradrenergic theory of cognitive reserve: implications for Alzheimer's disease, *Neurobiol Aging* 34, 298-308.
2. Robertson, I. H. (2013) The neglected role of reward in rehabilitation, *J Neurol Neurosurg Psychiatry* 84, 363.
3. McAvinue, L. P., Golemme, M., Castorina, M., Tatti, E., Pigni, F. M., Salomone, S., Brennan, S., and Robertson, I. H. (2013) An evaluation of a working memory training scheme in older adults, *Frontiers in aging neuroscience* 5, 20.
4. Hoerold, D., Pender, N. P., and Robertson, I. H. (2013) Metacognitive and online error awareness deficits after prefrontal cortex lesions, *Neuropsychologia* 51, 385-391.
5. Harty, S., O'Connell, R. G., Hester, R., and Robertson, I. H. (2013) Older adults have diminished awareness of errors in the laboratory and daily life, *Psychology and aging* 28, 1032-1041.
6. Feeney, J., Kamiya, Y., Robertson, I. H., and Kenny, R. A. (2013) Cognitive function is

- preserved in older adults with a reported history of childhood sexual abuse, *Journal of traumatic stress* 26, 735-743.
7. Downer, E. J., Jones, R. S., McDonald, C. L., Greco, E., Brennan, S., Connor, T. J., Robertson, I. H., and Lynch, M. A. (2013) Identifying early inflammatory changes in monocyte-derived macrophages from a population with IQ-discrepant episodic memory, *PLoS One* 8, e63194.
 8. D'Arcy, S., Rapcan, V., Gali, A., Burke, N., O'Connell, G. C., Robertson, I. H., and Reilly, R. B. (2013) A study into the automation of cognitive assessment tasks for delivery via the telephone: lessons for developing remote monitoring applications for the elderly, *Technology and health care : official journal of the European Society for Engineering and Medicine* 21, 387-396.
 9. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H., Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., Hardiman, O., Teipel, S. J., Wegrzyn, M., Meindl, T., Frisoni, G., Bokde, A. L., Fellgiebel, A., Filippi, M., Hampel, H., Kloppel, S., Hauenstein, K., Ewers, M., Kehoe, E. G., Toomey, J. M., Balsters, J. H., Bokde, A. L., Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., Donohoe, G., O'Dwyer, L., Lamberton, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, R., Coughlan, T., Prvulovic, D., and Hampel, H. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging study of ALS motor phenotype heterogeneity and cortical focality. *J Neurol Neurosurg Psychiatry* 84, 766-773.
 10. Balsters, J. H., Whelan, C. D., Robertson, I. H., and Ramnani, N. (2013) Cerebellum and cognition: evidence for the encoding of higher order rules, *Cereb Cortex* 23, 1433-1443.
 11. Balsters, J. H., Robertson, I. H., and Calhoun, V. D. (2013) BOLD Frequency Power Indexes Working Memory Performance, *Front Hum Neurosci* 7, 207.
 12. Balsters, J. H., O'Connell, R. G., Galli, A., Nolan, H., Greco, E., Kilcullen, S. M., Bokde, A. L., Lai, R., Upton, N., and Robertson, I. H. (2013) Changes in resting connectivity with age: a simultaneous electroencephalogram and functional magnetic resonance imaging investigation, *Neurobiol Aging* 34, 2194-2207.
 13. Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The effect of the neurogranin schizophrenia risk variant rs12807809 on brain structure and function, *Twin research and human genetics : the official journal of the International Society for Twin Studies* 15, 296-303.
 14. Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The NOS1 variant rs6490121 is associated with variation in prefrontal function and grey matter density in healthy individuals, *NeuroImage* 60, 614-622.
 15. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R.,

- Upton, N., Robertson, I. H., Rose, E. J., Greene, C., Kelly, S., Morris, D. W., Robertson, I. H., Fahey, C., Jacobson, S., O'Doherty, J., Newell, F. N., McGrath, J., Bokde, A., Garavan, H., Frodl, T., Gill, M., Corvin, A. P., Donohoe, G., Bartley, M., Bokde, A. L., O'Neill, D., Kehoe, E. G., Toomey, J. M., Balsters, J. H., and Bokde, A. L. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect. *Neurobiol Aging* 33, 2448-2461.
16. O'Connell, R. G., Balsters, J. H., Kilcullen, S. M., Campbell, W., Bokde, A. W., Lai, R., Upton, N., and Robertson, I. H. (2012) A simultaneous ERP/fMRI investigation of the P300 aging effect, *Neurobiol Aging* 33, 2448-2461.
 17. Murphy, P. R., Robertson, I. H., Allen, D., Hester, R., and O'Connell, R. G. (2012) An electrophysiological signal that precisely tracks the emergence of error awareness, *Front Hum Neurosci* 6, 65.
 18. McAvinue, L. P. D., Vangkilde, S., Johnson, K. A., Habekost, T., Kyllingsbaek, S., Bundesen, C., and Robertson, I. H. (2012) A Componential Analysis of Visual Attention in Children With ADHD, *Journal of attention disorders*.
 19. McAvinue, L. P., Habekost, T., Johnson, K. A., Kyllingsbaek, S., Vangkilde, S., Bundesen, C., and Robertson, I. H. (2012) Sustained attention, attentional selectivity, and attentional capacity across the lifespan, *Attention, perception & psychophysics* 74, 1570-1582.
 20. Manenti, R., Cotelli, M., Robertson, I. H., and Miniussi, C. (2012) Transcranial brain stimulation studies of episodic memory in young adults, elderly adults and individuals with memory dysfunction: a review, *Brain Stimul* 5, 103-109.
 21. Cochrane, A., Robertson, I. H., and Coogan, A. N. (2012) Association between circadian rhythms, sleep and cognitive impairment in healthy older adults: an actigraphic study, *Journal of neural transmission (Vienna, Austria : 1996)* 119, 1233-1239.
 22. Cassidy, S. M., Robertson, I. H., and O'Connell, R. G. (2012) Retest reliability of event-related potentials: evidence from a variety of paradigms, *Psychophysiology* 49, 659-664.
 23. Setti, A., Finnigan, S., Sobolewski, R., McLaren, L., Robertson, I. H., Reilly, R. B., Kenny, R. A., and Newell, F. N. (2011) Audiovisual temporal discrimination is less efficient with aging: an event-related potential study, *Neuroreport* 22, 554-558.
 24. O'Halloran, A. M., Penard, N., Galli, A., Fan, C. W., Robertson, I. H., and Kenny, R. A. (2011) Falls and falls efficacy: the role of sustained attention in older adults, *BMC geriatrics* 11, 85.
 25. O'Halloran, A. M., Fan, C. W., Kenny, R. A., Penard, N., Galli, A., and Robertson, I. H. (2011) Variability in sustained attention and risk of frailty, *Journal of the American Geriatrics Society* 59, 2390-2392.
 26. O'Halloran, A. M., Fan, C. W., Kenny, R. A., Penard, N., Galli, A., and Robertson, I. H. (2011) *Variability in sustained attention and risk of frailty*, J Am Geriatr Soc. 2011 Dec;59(12):2390-2. doi: 10.1111/j.1532-5415.2011.03706.x.
 27. O'Connor, C., Robertson, I. H., and Levine, B. (2011) The prosthetics of vigilant

- attention: random cuing cuts processing demands, *Neuropsychology* 25, 535-543.
28. Murphy, P. R., Robertson, I. H., Balsters, J. H., and O'Connell R, G. (2011) Pupillometry and P3 index the locus coeruleus-noradrenergic arousal function in humans, *Psychophysiology* 48, 1532-1543.
 29. McAvinue, L. P., and Robertson, I. H. (2011) Individual differences in response to phantom limb movement therapy, *Disability and rehabilitation* 33, 2186-2195.
 30. Levine, B., Schweizer, T. A., O'Connor, C., Turner, G., Gillingham, S., Stuss, D. T., Manly, T., and Robertson, I. H. (2011) Rehabilitation of executive functioning in patients with frontal lobe brain damage with goal management training, *Front Hum Neurosci* 5, 9.
 31. Finnigan, S., and Robertson, I. H. (2011) Resting EEG theta power correlates with cognitive performance in healthy older adults, *Psychophysiology* 48, 1083-1087.
 32. Finnigan, S., O'Connell, R. G., Cummins, T. D., Broughton, M., and Robertson, I. H. (2011) ERP measures indicate both attention and working memory encoding decrements in aging, *Psychophysiology* 48, 601-611.
 33. Dockree, P. M., and Robertson, I. H. (2011) Electrophysiological markers of cognitive deficits in traumatic brain injury: a review, *International journal of psychophysiology : official journal of the International Organization of Psychophysiology* 82, 53-60.
 34. Braet, W., Johnson, K. A., Tobin, C. T., Acheson, R., McDonnell, C., Hawi, Z., Barry, E., Mulligan, A., Gill, M., Bellgrove, M. A., Robertson, I. H., and Garavan, H. (2011) fMRI activation during response inhibition and error processing: the role of the DAT1 gene in typically developing adolescents and those diagnosed with ADHD, *Neuropsychologia* 49, 1641-1650.
 35. Balsters, J. H., O'Connell, R. G., Martin, M. P., Galli, A., Cassidy, S. M., Kilcullen, S. M., Delmonte, S., Brennan, S., Meaney, J. F., Fagan, A. J., Bokde, A. L., Upton, N., Lai, R., Laruelle, M., Lawlor, B., and Robertson, I. H. (2011) Donepezil impairs memory in healthy older subjects: behavioural, EEG and simultaneous EEG/fMRI biomarkers, *PLoS One* 6, e24126.

Michael Rowan

1. Qi, Y., Hu, N. W., and Rowan, M. J. (2013) Switching off LTP: mGlu and NMDA receptor-dependent novelty exploration-induced depotentiation in the rat hippocampus, *Cereb Cortex* 23, 932-939.
2. An, K., Klyubin, I., Kim, Y., Jung, J. H., Mably, A. J., O'Dowd, S. T., Lynch, T., Kanmert, D., Lemere, C. A., Finan, G. M., Park, J. W., Kim, T. W., Walsh, D. M., Rowan, M. J., and Kim, J. H. (2013) Exosomes neutralize synaptic-plasticity-disrupting activity of Abeta assemblies in vivo, *Molecular brain* 6, 47.
3. Ondrejcek, T., Wang, Q., Kew, J. N., Virley, D. J., Upton, N., Anwyl, R., Rowan, M. J., Bieschke, J., Herbst, M., Wiglenda, T., Friedrich, R. P., Boeddrich, A., Schiele, F., Kleckers, D., Lopez del Amo, J. M., Gruning, B. A., Wang, Q., Schmidt, M. R., Lurz, R., Anwyl, R., Schnoegl, S., Fandrich, M., Frank, R. F., Reif, B., Gunther, S., Walsh, D. M.,

Wanker, E. E., Zaitsev, A. V., Anwyl, R., Klyubin, I., Wang, Q., Reed, M. N., Irving, E. A., Upton, N., Hofmeister, J., Cleary, J. P., Anwyl, R., and Rowan, M. J. (2012) Activation of alpha7 nicotinic acetylcholine receptors persistently enhances hippocampal synaptic transmission and prevents Ass-mediated inhibition of LTP in the rat hippocampus

Small-molecule conversion of toxic oligomers to nontoxic beta-sheet-rich amyloid fibrils

Inhibition of the slow afterhyperpolarization restores the classical spike timing-dependent plasticity rule obeyed in layer 2/3 pyramidal cells of the prefrontal cortex

Protection against Abeta-mediated rapid disruption of synaptic plasticity and memory by memantine, *Eur J Pharmacol* 677, 63-70.

4. Ondrejcek, T., Wang, Q., Kew, J. N., Virley, D. J., Upton, N., Anwyl, R., and Rowan, M. J. (2012) Activation of alpha7 nicotinic acetylcholine receptors persistently enhances hippocampal synaptic transmission and prevents Ass-mediated inhibition of LTP in the rat hippocampus, *Eur J Pharmacol* 677, 63-70.
5. Klyubin, I., Cullen, W. K., Hu, N. W., and Rowan, M. J. (2012) Alzheimer's disease Abeta assemblies mediating rapid disruption of synaptic plasticity and memory, *Molecular brain* 5, 25.
6. Hu, N. W., Ondrejcek, T., and Rowan, M. J. (2012) Glutamate receptors in preclinical research on Alzheimer's disease: update on recent advances, *Pharmacology, biochemistry, and behavior* 100, 855-862.
7. O'Nuallain, B., Klyubin, I., Mc Donald, J. M., Foster, J. S., Welzel, A., Barry, A., Dykoski, R. K., Cleary, J. P., Gebbink, M. F., Rowan, M. J., and Walsh, D. M. (2011) A monoclonal antibody against synthetic Abeta dimer assemblies neutralizes brain-derived synaptic plasticity-disrupting Abeta, *Journal of neurochemistry* 119, 189-201.
8. Lante, F., Toledo-Salas, J. C., Ondrejcek, T., Rowan, M. J., and Ulrich, D. (2011) Removal of synaptic Ca(2)+-permeable AMPA receptors during sleep, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 31, 3953-3961.
9. Klyubin, I., Wang, Q., Reed, M. N., Irving, E. A., Upton, N., Hofmeister, J., Cleary, J. P., Anwyl, R., and Rowan, M. J. (2011) Protection against Abeta-mediated rapid disruption of synaptic plasticity and memory by memantine, *Neurobiol Aging* 32, 614-623.
10. Freir, D. B., Nicoll, A. J., Klyubin, I., Panico, S., Mc Donald, J. M., Risse, E., Asante, E. A., Farrow, M. A., Sessions, R. B., Saibil, H. R., Clarke, A. R., Rowan, M. J., Walsh, D. M., and Collinge, J. (2011) Interaction between prion protein and toxic amyloid beta assemblies can be therapeutically targeted at multiple sites, *Nature communications* 2, 336.
11. Barry, A. E., Klyubin, I., Mc Donald, J. M., Mably, A. J., Farrell, M. A., Scott, M., Walsh, D. M., and Rowan, M. J. (2011) Alzheimer's disease brain-derived amyloid-beta-mediated inhibition of LTP in vivo is prevented by immunotargeting cellular prion protein, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 31, 7259-7263.

Isabel Rozas

1. Muguruza, C., Rodriguez, F., Rozas, I., Meana, J. J., Uriguen, L., and Callado, L. F. (2013) Antidepressant-like properties of three new α_2 -adrenoceptor antagonists, *Neuropharmacology* 65, 13-19.
2. McKeever, C., Kaiser, M., and Rozas, I. (2013) Aminoalkyl derivatives of guanidine diaromatic minor groove binders with antiprotozoal activity, *Journal of medicinal chemistry* 56, 700-711.
3. Kahvedzic, A., Nathwani, S. M., Zisterer, D. M., and Rozas, I. (2013) Aromatic bis-N-hydroxyguanidinium derivatives: synthesis, biophysical, and biochemical evaluations, *Journal of medicinal chemistry* 56, 451-459.
4. Blanco, F., Kelly, B., Sanchez-Sanz, G., Trujillo, C., Alkorta, I., Elguero, J., and Rozas, I. (2013) Non-covalent interactions: complexes of guanidinium with DNA and RNA nucleobases, *The journal of physical chemistry. B* 117, 11608-11616.
5. Aggarwal, R., Bansal, A., Rozas, I., Kelly, B., Kaushik, P., and Kaushik, D. (2013) Synthesis, biological evaluation and molecular modeling study of 5-trifluoromethyl-Delta(2)-pyrazoline and isomeric 5/3-trifluoromethylpyrazole derivatives as anti-inflammatory agents, *European journal of medicinal chemistry* 70, 350-357.
6. Nagle, P. S., Rodriguez, F., Nguyen, B., Wilson, W. D., and Rozas, I. (2012) High DNA affinity of a series of peptide linked diaromatic guanidinium-like derivatives, *Journal of medicinal chemistry* 55, 4397-4406.
7. Geoghegan, K., Evans, P., Rozas, I., and Alkorta, I. (2012) Regioselectivity in the intramolecular Heck reaction of a series of cyclic sulfonamides: an experimental and computational study, *Chemistry (Weinheim an der Bergstrasse, Germany)* 18, 13379-13387.
8. Lopez, S., Margison, G. P., McElhinney, R. S., Cordeiro, A., McMurry, T. B., and Rozas, I. (2011) Towards more specific O6-methylguanine-DNA methyltransferase (MGMT) inactivators, *Bioorg Med Chem* 19, 1658-1665.
9. Kelly, B., O'Donovan, D. H., O'Brien, J., McCabe, T., Blanco, F., and Rozas, I. (2011) Pyridin-2-yl guanidine derivatives: conformational control induced by intramolecular hydrogen-bonding interactions, *J Org Chem* 76, 9216-9227.
10. Blanco, F., Alkorta, I., Rozas, I., Solimannejad, M., and Elguero, J. (2011) A theoretical study of the interactions of NF(3) with neutral ambidentate electron donor and acceptor molecules, *Phys Chem Chem Phys* 13, 674-683.

Astrid Sasse

1. Micallef, S., Stark, H., and Sasse, A. (2013) Polymorphisms and genetic linkage of histamine receptors, *Life sciences* 93, 487-494.

Daniela Tropea

1. Bede, P., Bokde, A., Elamin, M., Byrne, S., McLaughlin, R. L., Jordan, N., Hampel, H., Gallagher, L., Lynch, C., Fagan, A. J., Pender, N., Hardiman, O., Teipel, S. J., Wegrzyn, M., Meindl, T., Frisoni, G., Bokde, A. L., Fellgiebel, A., Filippi, M., Hampel, H., Kloppel, S., Hauenstein, K., Ewers, M., Kehoe, E. G., Toomey, J. M., Balsters, J. H., Bokde, A. L., Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., Donohoe, G., O'Dwyer, L., Lambertson, F., Bokde, A. L., Ewers, M., Faluyi, Y. O., Tanner, C., Mazoyer, B., O'Neill, D., Bartley, M., Collins, R., Coughlan, T., Prvulovic, D., and Hampel, H. (2013) Grey matter correlates of clinical variables in amyotrophic lateral sclerosis (ALS): a neuroimaging study of ALS motor phenotype heterogeneity and cortical focality

Anatomical MRI and DTI in the diagnosis of Alzheimer's disease: a European multicenter study

Healthy aging is associated with increased neural processing of positive valence but attenuated processing of emotional arousal: an fMRI study

The effect of the neurogranin schizophrenia risk variant rs12807809 on brain structure and function

Sexual dimorphism in healthy aging and mild cognitive impairment: a DTI study, *J Neurol Neurosurg Psychiatry* 84, 766-773.

2. Tropea, D. (2012) New challenges and frontiers in the research for neuropsychiatric disorders, *Frontiers in psychiatry* 3, 69.
3. Rose, E. J., Morris, D. W., Fahey, C., Robertson, I. H., Greene, C., O'Doherty, J., Newell, F. N., Garavan, H., McGrath, J., Bokde, A., Tropea, D., Gill, M., Corvin, A. P., and Donohoe, G. (2012) The effect of the neurogranin schizophrenia risk variant rs12807809 on brain structure and function, *Twin research and human genetics : the official journal of the International Society for Twin Studies* 15, 296-303.
4. Pini, G., Scusa, M. F., Congiu, L., Benincasa, A., Morescalchi, P., Bottiglioni, I., Di Marco, P., Borelli, P., Bonuccelli, U., Della-Chiesa, A., Prina-Mello, A., and Tropea, D. (2012) IGF1 as a Potential Treatment for Rett Syndrome: Safety Assessment in Six Rett Patients, *Autism research and treatment* 2012, 679801.
5. O'Donoghue, T., Morris, D. W., Fahey, C., Da Costa, A., Foxe, J. J., Hoerold, D., Tropea, D., Gill, M., Corvin, A., and Donohoe, G. (2012) A NOS1 variant implicated in cognitive performance influences evoked neural responses during a high density EEG study of early visual perception, *Human brain mapping* 33, 1202-1211.
6. Corvin, A. P., Molinos, I., Little, G., Donohoe, G., Gill, M., Morris, D. W., and Tropea, D. (2012) Insulin-like growth factor 1 (IGF1) and its active peptide (1-3)IGF1 enhance the expression of synaptic markers in neuronal circuits through different cellular mechanisms, *Neuroscience letters* 520, 51-56.
7. Tropea, D., Sur, M., and Majewska, A. K. (2011) Experience-dependent plasticity in visual cortex: Dendritic spines and visual responsiveness, *Communicative & integrative biology* 4, 216-219.

8. Mellios, N., Sugihara, H., Castro, J., Banerjee, A., Le, C., Kumar, A., Crawford, B., Strathmann, J., Tropea, D., Levine, S. S., Edbauer, D., and Sur, M. (2011) miR-132, an experience-dependent microRNA, is essential for visual cortex plasticity, *Nature neuroscience* 14, 1240-1242.

Daniel Ulrich

1. Lante, F., Toledo-Salas, J. C., Ondrejcek, T., Rowan, M. J., and Ulrich, D. (2011) Removal of synaptic Ca(2+)-permeable AMPA receptors during sleep, *The Journal of neuroscience : the official journal of the Society for Neuroscience* 31, 3953-3961.

Michael A. Wride

1. Jarrin, M., Mansergh, F. C., Boulton, M. E., Gunhaga, L., and Wride, M. A. (2012) Survivin expression is associated with lens epithelial cell proliferation and fiber cell differentiation, *Molecular vision* 18, 2758-2769.
2. Wride, M. A. (2011) Lens fibre cell differentiation and organelle loss: many paths lead to clarity, *Philosophical transactions of the Royal Society of London. Series B, Biological sciences* 366, 1219-1233.
3. Wormstone, I. M., and Wride, M. A. (2011) The ocular lens: a classic model for development, physiology and disease, *Philosophical transactions of the Royal Society of London. Series B, Biological sciences* 366, 1190-1192.
4. Powell, K. A., Davies, J. R., Taylor, E., Wride, M. A., and Votruba, M. (2011) Mitochondrial localization and ocular expression of mutant Opa3 in a mouse model of 3-methylglutaconicaciduria type III, *Investigative ophthalmology & visual science* 52, 4369-4380.

Alice Witney

1. Moloney, T. M., and Witney, A. G. (2013) Transcranial direct current stimulation (tDCS) priming of 1Hz repetitive transcranial magnetic stimulation (rTMS) modulates experimental pain thresholds, *Neuroscience letters* 534, 289-294.
2. Karok, S., and Witney, A. G. (2013) Enhanced motor learning following task-concurrent dual transcranial direct current stimulation, *PLoS One* 8, e85693.
3. Witney, A. G., and Hedwig, B. (2011) Kinematics of phonotactic steering in the walking cricket *Gryllus bimaculatus* (de Geer), *The Journal of experimental biology* 214, 69-79.