

## Oxford Project to Investigate Memory and Ageing (OPTIMA)

### PUBLICATIONS 2013

**Resting Functional Connectivity Reveals Residual Functional Activity in Alzheimer's Disease.** Zamboni G, Wilcock GK, Douaud G, Drazich E, McCulloch E, Filippini N, Tracey I, Brooks JC, Smith SM, Jenkinson M, Mackay CE. *Biol Psychiatry*. 2013 Sep 1;74(5):375-83.

**Magnetic resonance imaging of fixed post mortem brains reliably reflects subcortical vascular pathology of frontal, parietal and occipital white matter.** McAleese KE, Firkbank M, Hunter D, Sun L, Hall R, Neal JW, Mann DM, Esiri M, Jellinger KA, O'Brien JT, Attems J. *Neuropathol Appl Neurobiol*. 2013 Aug;39(5):485-97.

**Assessing white matter ischemic damage in dementia patients by measurement of myelin proteins.** Barker R, Wellington D, Esiri MM, Love S. *J Cereb Blood Flow Metab*. 2013 Jul;33(7):1050-7.

**Preventing Alzheimer's disease-related gray matter atrophy by B-vitamin treatment.** Douaud G, Refsum H, de Jager CA, Jacoby R, Nichols TE, Smith SM, Smith AD. *Proc Natl Acad Sci USA*. 2013 Jun 4;110(23):9523-8.

**Parkinson's Disease: A Clinicopathologic Entity?** Doherty KM, Silveira-Moriyama L, Parkkinen L, Healy DG, Farrell M, Mencacci NE, Ahmed Z, Brett FM, Hardy J, Quinn N, Counihan TJ, Lynch T, Fox ZV, Revesz T, Lees AJ, Holton JL. *JAMA Neurol*. 2013 May;70(5):571-9.

**Discovery by the Epistasis Project of an epistatic interaction between the GSTM3 gene and the HHEX/IDE/KIF11 locus in the risk of Alzheimer's disease.** Bullock JM, Medway C, Cortina-Borja M, Turton JC, Prince JA, Ibrahim-Verbaas CA, Schuur M, Breteler MM, van Duijn CM, Kehoe PG, Barber R, Coto E, Alvarez V, Deloukas P, Hammond N, Combarros O, Mateo I, Warden DR, Lehmann MG, Belbin O, Brown K, Wilcock GK, Heun R, Kölsch H, Smith AD, Lehmann DJ, Morgan K. *Neurobiol Aging*. 2013 Apr;34(4):1309.e1-7.

**Structural and functional bases of visuospatial associative memory in older adults.** Zamboni G, de Jager CA, Drazich E, Douaud G, Jenkinson M, Smith AD, Tracey I, Wilcock GK. *Neurobiol Aging*. 2013 Mar;34(3):961-72.

**Neuropathologic evidence of endothelial changes in cerebral small vessel disease.** Giwa MO, Williams J, Elderfield K, Jiwa NS, Bridges LR, Kalaria RN, Markus HS, Esiri MM, Hainsworth AH. *Neurology*. 2012 Jan 17;78(3):167-74.

**Discovery by the Epistasis Project of an epistatic interaction between the GSTM3 gene and the HHEX/IDE/KIF11 locus in the risk of Alzheimer's disease.** Bullock JM, Medway C, Cortina-Borja M, et al. *Neurobiol Aging* 34: 1309 e1-7

**Semantic processing in connected speech at a uniformly early stage of autopsy confirmed Alzheimer's disease.** Ahmed S, de Jager CA, Haigh AM, Garrard P. *Neuropsychology* 2013;27(1):79-85. doi: 10.1037/a0031288.

**Connected speech as a marker of disease progression in autopsy-proven Alzheimer's disease.** Ahmed S, Haigh AM, de Jager CA, Garrard P. *Brain* 2013;136(Pt 12):3727-37. doi:10.1093/brain/awt269.

**Human hippocampal energy metabolism is impaired during cognitive activity in a lipid infusion model of insulin resistance.** Emmanuel Y, Cochlin LE, Tyler DJ, de Jager CA, Smith AD, Clarke K. *Brain Behav* 2013;3(2):134-44. doi: 10.1002/brb3.124.

**Meta-analysis of 74,046 individuals identifies 11 new susceptibility loci for Alzheimer's disease.** Lambert JC, Ibrahim-Verbaas CA, Harold D, Naj AC, Sims R, Bellenguez C, DeStafano AL, Bis JC, Beecham GW, Grenier-Boley B, et al. *Nat Genet* 2013;45(12):1452-8. doi: 10.1038/ng.2802.

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**Cognitive function in an elderly population: Interaction between vitamin B12 status, depression, and apolipoprotein E E4: The Hordaland Homocysteine Study.** Vogiatzoglou A, Smith AD, Nurk E Drevon CA, Ueland PM, Vollset SE, Nygaard HA, Engedal K, Tell GS, Refsum H. *Psychosom Med* 2013;75(1):20-9. doi: 10.1097/PSY.0b013e3182761b6c

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**Population-based case-control study of white matter changes on brain imaging in transient ischemic attack and ischemic stroke.** Li L, Simoni M, Kuker W et al. *Stroke* 2013;44(11):3063-3070.

**Computerized adaptation of The Placing Test for early detection of both mild cognitive impairment and Alzheimer's disease.** Vacante M, Wilcock GK, de Jager CA. *J Clin Exp Neuropsychol* 2013;35(8):846-856.

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**Neuroanatomy of impaired self-awareness in Alzheimer's disease and mild cognitive impairment.** Zamboni G, Drazich E, McCulloch E et al. *Cortex* 2013;49(3):668-678.

**Brain microstructure reveals early abnormalities more than two years prior to MCI-AD conversion.** Douaud G, Menke R, Gass A, Monsch A, Rao A, Zamboni G, Whitcher B, Matthews PM, Sollberger M, Smith S. *J Neurosci* (2013) 33:2147-55