

PROFESSOR ANDREW M MCINTOSH

Biography

Andrew McIntosh (andrew.mcintosh@ed.ac.uk) is Chair of Biological Psychiatry at the University of Edinburgh and Associate Director of the Scottish Mental Health Research Network. He is an Honorary Consultant Psychiatrist in NHS Lothian. He graduated in Medicine from Aberdeen University in 1995 and Psychiatry training within Scotland. He has held several posts, including that of Wellcome Trust Research Fellow, MRC Research Fellow, Academy of Medical Sciences/Health Foundation Clinician Scientist, Reader and Visiting Associate Professor at Yale Medical School.

Markers of esteem/Clinical research impact

- Associate Director of the Scottish Mental Health Research Network
- Co-editor of Companion to Psychiatric Studies
- Co-author of Critical Appraisal for Psychiatry
- Editorial board of Biological Psychiatry, BMC Research Notes, Advances in Chronic Diseases, Psychiatry Research: Neuroimaging and Frontiers in Behavioural and Psychiatric Genetics
- Member of MRCPsych Critical Review Panel
- Member of Royal College of Psychiatrists Public Affairs Committee
- Chair of Generation Scotland Psychiatry Expert Working Group
- Vice Chair of the CSO ETMRC Committee

- I lead a large cohort study of people at high risk of bipolar disorder for genetic reasons and I have been closely involved in a study of people at high risk of schizophrenia where, in collaboration with others, I showed that a decline in prefrontal volume accompanied the emergence of clinical illness.

- I am involved in and have led several large imaging and genetic studies of mood disorder and schizophrenia. These include studies which have shown the predictive value of imaging in bipolar disorder and schizophrenia and a cohort study which has shown that decreases in brain volume in bipolar disorder are associated with a cognitive decline over 4-years.

Research Interests

Professor McIntosh's goal is to identify and use genetic risk factors for psychiatric disorder in order to elucidate their underlying disease mechanisms using measures of brain structure, function and connectivity.

Top 6 Publications since 2011

Polygenic risk and white matter integrity in individuals at high risk of mood disorder
HC Whalley, E Sprooten, S Hackett, L Hall, DH Blackwood, DC Glahn, ...Biological Psychiatry 2013 74 (4), 280-286.

Polygenic risk for schizophrenia is associated with cognitive change between childhood and old age. AM McIntosh, A Gow, M Luciano, G Davies, DC Liewald, SE Harris, Š, Deary IJ *Biological Psychiatry* 2013 73 (10), 938-943.

White matter integrity in individuals at high genetic risk of bipolar disorder. Sprooten E, Sussmann JE, Clugston A, Peel A, McKirdy J, Moorhead TW, Anderson S, Shand AJ, Giles S, Bastin ME, Hall J, Johnstone EC, Lawrie SM, McIntosh AM. *Biol Psychiatry*. 2011 Aug 15; 70 (4) :350-6. PubMed PMID:21429475.

The neural basis of familial risk and temperamental variation in individuals at high risk of bipolar disorder. Whalley HC, Sussmann JE, Chakirova G, Mukerjee P, Peel A, McKirdy J, Hall J, Johnstone EC, Lawrie SM, McIntosh AM. *Biol Psychiatry*. 2011 Aug 15; 70 (4) :343-9. PubMed PMID:21601834.

Association of white matter integrity with genetic variation in an exonic DISC1 SNP. Sprooten E, Sussmann JE, Moorhead TW, Whalley HC, Ffrench-Constant C, Blumberg HP, Bastin ME, Hall J, Lawrie SM, McIntosh AM. *Mol Psychiatry*. 2011 Jul; 16 (7) :685, 688-9. PubMed PMID:21358711.

Longitudinal volume reductions in people at high genetic risk of schizophrenia as they develop psychosis. McIntosh AM, Owens DC, Moorhead WJ, Whalley HC, Stanfield AC, Hall J, Johnstone EC, Lawrie SM. *Biol Psychiatry*. 2011 May 15; 69 (10) :953-8. PubMed PMID:21168123.

Qualifications

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| • MB ChB | Aberdeen | 1995 |
| • MRCPsych | Royal College Psychiatrists | 1999 |
| • MPhil | Edinburgh | 1999 |
| • MD (Hons) | Edinburgh | 2004 |
| • MSc | Edinburgh Napier University | 2004 |
| • FRCPsych | Royal College Psychiatrists | 2011 |