

CURRICULUM VITAE

- Name:** Stephen MacGregor Lawrie
- Date of Birth:** 26th May 1963
- Current Posts:** Professor of Psychiatry & Neuro-Imaging (from 2007)
Edinburgh University
&
Head of the Division of Psychiatry (from 2010)
Edinburgh University
&
Honorary Consultant Psychiatrist (from 1998)
South-Central / South-West Sector
Royal Edinburgh Hospital (REH), Edinburgh
- Other responsibilities:** Medical lead, Regional ASD service (from 2012)
&
Director, MRF/MRC mental health CRTF scheme (from 2011)
&
Director, Scottish Mental Health Research Network (from 2010)
&
Co-chair, Lothian Joint Formulary (from 2010)
&
Research tutor, SE Scotland Psychiatry training board (from 2007)
- Address** Professional: Edinburgh University
Division of Psychiatry
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Royal Edinburgh Hospital
Morningside Park
Edinburgh EH10 5HF
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E-mail: s.lawrie@ed.ac.uk.
- Qualifications:** MB ChB Aberdeen 1986
MRCPsych 1990
MPhil Edinburgh 1993
MD (Hons) Edinburgh 1997
CCST awarded 1997
FRCPsych 2007
Hon.FRCP(Edin) 2008

SELECTED AWARDS AND HONOURS

- 2013 – Chair, Neurosciences panel, Research Council for Health of the Academy of Finland,
2012 – Member, European Research Council (ERC) Senior Investigator Awards panel - LS5
Neurosciences and neural disorders (chaired by Ole Ottersen)
2012 – External expert, Cardiff University School of Medicine Review of Research
2012 – Member, Swedish/Finnish Academy of Science joint research panel (Clinical trials)
2012 to date - Inaugural Chair, Academic Faculty, Royal College of Psychiatrists in Scotland
2012 – Finalist, Zisking-Somerfeld Research Award
2011 to 2012 – Advisor, Sackler Chair in Translational Neurodevelopment (IOP, KCL)
2011 – Symposium Committee, International Congress on Schizophrenia Research, USA
2011 – Profiled in Lancet as Director of PsySTAR (ref: Lancet 2011; 378: 1911)
2011 to date - Get-Up (Contrabass study, Italy) International Advisory Board
2011 – Highly commended, BMA book awards
2010 to date – Committee member, Mortimer D. Sackler, M.D. Prize for Distinguished
Achievement in Developmental Psychobiology
- 2009 – NARSAD Distinguished Investigator award (Sidney R. Baer, Jr. Foundation)
2009 to date - Co-Director of ECNP Neuroimaging Initiative
2009 to date - Field Editor (Neuroimaging) for World Journal of Biological Psychiatry
2006 to date - MRC CRTF referees panel
2005 to date - Editorial Board of BMC Psychiatry
2002 to 2009 - Member of MRC Medical Advisory Board / College of Experts (from 2005)
2002 to date - Assistant Editor of the British Journal of Psychiatry
2002 to date - Sentinel reader for American College of Physicians Evidence-Based Medicine
2000 – Senior Investigator award, 10th Biennial Winter Workshop on Schizophrenia, Davos
- 1998 – Junior Investigator award, 9th Biennial Winter Workshop on Schizophrenia, Davos
1996 – SHERT prize to visit fMRI facilities at NIMH, USA
1995 – Research prize, Royal College of Psychiatrists (Scottish Division)
1994 – McHarg essay prize, Royal College of Psychiatrists (Scottish Division)
1986 to 1989 - Represented Scottish Universities Golfing Society
1983 to 1985 – Represented Aberdeen University at Golf

ACADEMIC AND CLINICAL TRAINING**Previous Academic Posts:**

August 1998 to October 2007 Senior Clinical Research Fellow (and Reader from 2005)
Edinburgh University Department of Psychiatry
Head of Department - Professor Eve C. Johnstone

Aug 1992 to July 1998 Lecturer & Honorary Senior Registrar
Edinburgh University Department of Psychiatry

Clinical training (SpR):

Feb 1997 - July 1998 Acute Adult General Psychiatry, Ward 1, REH
Consultant - Dr DHR Blackwood

Feb 1996 - Jan 1997 Acute Adult General Psychiatry, Ward 2, REH.
Prof E. Johnstone

Aug 1995 - Feb 1996 General Psychiatry and Rehabilitation, David Henderson Day
Unit, REH. Prof E. Johnstone, K. Ebmeier & G. Goodwin.

June 1994 - July 1995 Liaison Psychiatry, Royal Infirmary & City Hospital,
Edinburgh. Dr G Masterton and Dr A Tait

Jan 1994 - May 1994 Acute Adult General Psychiatry, Ward 1, REH
Prof EC Johnstone

Aug 1992 - Dec 1993 Acute Adult General Psychiatry, Ward 2, REH
Dr DHR Blackwood and Dr DCG Owens

Registrar Grade:

Feb 1992 - July 1992 Wellcome Research Registrar, University Department of
Psychiatry, REH. Prof EC Johnstone.

Aug 1991 - Jan 1992 Alcohol Problems Clinic. Dr B Ritson and Dr J Chick.

Feb 1991 - July 1991 Psychotherapy (Psychodynamic & Behavioural),
Psychotherapy Unit & Cullen Centre. Dr P O'Farrell, T Murphy
& C Freeman

Aug 1990 - Jan 1991 Acute Adult General Psychiatry, Wards 5 & 6, REH. Dr. Guy
Goodwin and Dr. Jim Strachan.

Feb 1990 - July 1990 Liaison Psychiatry, Department of Psychological Medicine,
Royal Infirmary. Dr G Masterton.

Aug 1989 - Jan 1990 Child, Adolescent & Family Psychiatry, Rillbank Terrace,
RHSC, Edinburgh & Willowgrove Unit, Livingston. Dr P Wills

Senior House Officer Grade

Feb 1989 - July 1989 Rehabilitation Day Unit, Royal Victoria Hospital & Cambridge
Street Day Hospital. Dr J Strachan and Dr J Duncan

Aug 1998 - Jan 1989 Psychiatry of Old Age, Royal Victoria Hospital. Dr A Jacques

Aug 1987 - July 1988 Acute Adult General Psychiatry, Ward 3, REH. Dr A Lodge

Junior (Pre-Registration) House Officer

Feb 1987 - July 1987 Medical Unit, Victoria Infirmary, Glasgow

Aug 1986 - Jan 1987 Neurosurgical Unit, Western General Hospital, Edinburgh

RESEARCH DEGREE EXPERIENCE & SUPERVISION:**Higher Degrees:**

MPhil thesis: "Chronic Fatigue in the Community and its Psychiatric Associations" (1993)

MD thesis: "Brain Imaging in Schizophrenia" (Awarded with distinction 1997)

Research Degree Supervision:Completed MD / PhD students:

- 2002 Dr. Robby Steel – Brain imaging in obligate carriers of schizophrenia (MD)
- 2004 Marie-Claire Whyte – Memory impairment in schizophrenia (1st)
- 2005 (pt) Heather Whalley – fMRI in people at high risk of schizophrenia (2nd)
- 2005 Dr. Jeremy Hall – Emotional processing in schizophrenia (MD)
- 2006 Dominic Marjoram – Theory of mind in schizophrenia (1st)
- 2009 Ruth Philip – Functional MRI in autism (1st)
- 2009 Heidi Bonnici – Feature-based brain morphometry (2nd)
- 2011 Liana Romaniuk – Modelling a competitive action selection task (1st)
- 2011 Prerona Mukherjee – Effective connectivity analyses of fMRI data (1st)
- 2012 Betty Tijms – Relating brain structure to function (1st)

Current PhD students:

- 2008 (pt) Johanna Simpson – Genetics of emotional memory processing (2nd)
- 2009 Ben Baig – Steroids, IBD and psychiatric disorder (1st)
- 2009 Andrew Stanfield – Comparing autism and schizophrenia (1st)
- 2010 Katie Nicol – Multi-modal brain imaging (2nd)
- 2010 Maria Dauvermann – Spectroscopy in schizophrenia (2nd)
- 2010 Martina Pappmeyer – Brain imaging in bipolar disorder (2nd)
- 2011 Duncan Carmichael – Synaesthesia (2nd)
- 2011 Barbara Duff – Neuropsychology of DISC1 family (1st)
- 2011 Holly Redpath – Functional imaging of associative memory in schizophrenia (1st)
- 2011 Eleni Zarogianni – Pattern classification of high risk brain scans (2nd)
- 2012 Jennifer Siegel – Multi-modal brain imaging in autism (1st)
- 2012 Cathy Bois – The genetics of brain structure in schizophrenia (1st)
- 2012 Lily McNamee – Developing an effective exercise intervention for schizophrenia (1st)

M.Phil degree supervision:

Parasuicide assessments in A&E; Memory impairment in schizophrenia; Dermatoglyphics in subjects at high risk of schizophrenia; MRI in subjects with sex chromosome anomalies; Validation of the HAD in terminal care; Diagnostic stability in schizophrenia; Determinants of admission after emergency referral to Dingleton.

MSc / MRes:

MRI assessments of hypertelorism; MR-DTI in schizophrenia; Gyrfication in people at high risk of schizophrenia; The association between life events and schizophrenia; Can life events precipitate psychosis? Voxel Based Morphometry in Learning Disability; Developing a competitive action selection task; Corpus Callosal morphology in ASD; Functional connectivity analysis of fMRI data; Cortical thickness in individuals at high risk for schizophrenia; Hippocampal morphometry; OFC variation.

TEACHING

Training:

Attended the Edinburgh University Department of Education one week course in Teaching Methods and Skills, and 'How to teach evidence-based medicine' course at UCL in London.

International education:

Tutored on the Evidence-Based Psychiatry course in Oxford for several years;
Lectured to Gaza community mental health trainees on various aspects of psychiatry;
Co-authored the NHS Direct Web Information on Schizophrenia

Public education:

Edinburgh International Film Festival (2011) pre- and post-film 'Reel Science' discussions;
Brain Awareness Week and GLOWMEET interactive seminars to primary school children;
Numerous press, radio and TV interviews on various aspects of psychiatry.

Organising conferences and symposia:

2012 – PsySTAR Summer School and Induction Week
2011 – British Neuroscience Association 'Neurodevelopmental disorders across the lifespan'
2011 – Organising Committee of the Edinburgh Audit Conference for Trainees
2011 – Symposium Committee, International Congress on Schizophrenia Research, USA
2010-12 – SMHRN Annual Scientific Meetings and Research meetings
2009 – EPA (Neuroimaging section) meeting in Edinburgh
2009 – Young Scientists Awards, International Congress on Schizophrenia Research, USA
2005-12 – Several symposia at European Psychiatric Association (EPA) meetings
2003-12 – New Research Presentations/Posters/Symposia for R.C.Psych Annual Meeting

Current teaching commitments:

Responsible for UG teaching of Psychiatry in Edinburgh, and recently instigated review and update, which continues to produce more psychiatrists than any other UK medical school;
Seminar and lecture based teaching of psychiatry to Edinburgh medical students;
Intercalated BSc neuroscience 'Neuroethics';
Postgraduate MSc Neuroinformatics 'Brain Imaging in Schizophrenia'

Previous teaching commitments include:

Postgraduate lecture courses for psychiatrists on: Critical appraisal (15 hrs), Affective disorders (8 hrs), Social psychiatry (4 hrs), and Methods in psychiatric research (9 hrs).

Postgraduate lectures to psychiatrists on: Neuroimaging in Psychiatry, Schizophrenia, Autism, Trial design, Neuropsychology, Critique of Biological Psychiatry, Chronic Fatigue Syndrome, Neurobiology of stress and fatigue, Benzodiazepines, Statistics.

Undergraduate lectures to medics on: Schizophrenia, Evidence Based Psychiatry and Critical Appraisal, Chronic Fatigue Syndrome, Neurotic Disorders (Classification/Anxiety States and Revision Lectures), and Psychodynamic Psychotherapy.

Other lectures: Diagnosis and classification (clinical psychology trainees), Neuropharmacology & Emergency Psychiatry (medical SHO's); Post-Viral Syndrome & Eating Disorders (GP's); Psychiatry for Social Work students (3 lectures), for Police cadets and Marriage guidance counsellors; Depression and Psychiatry (counselling students); Schizophrenia (hospital chaplains); Psychiatric brain imaging (radiographers);

Patients and carers: 'Brain Imaging' and 'The medical model' of schizophrenia (National Schizophrenia Fellowship); 'The stigmatisation of psychiatric disorder' (SUN); also several Patients and Relatives Education groups.

ADVISORY AND MANAGEMENT ROLES

Scientific Committees & Advisory Boards:

- 2012 to date Organising committee, Royal College of Psychiatrists International Congress
- 2012 European Research Council, Advanced Researcher panel (Neurosciences)
- 2012 Joint Finnish/Swedish Clinical Trials call
- 2012 to date BMJ Reader Panel
- 2011 to date Margaret Temple BMA Research Grant assessor
- 2011 to date Get-Up (Contrabass) International Advisory Board
- 2011 External advisor, Institute of Psychiatry, Sackler Chair appointment panel
- 2011 Symposium Committee, International Congress Schizophrenia Research, USA
- 2010 to date Sackler Prize in Developmental Psychobiology: Committee member
- 2009 to date Edinburgh Neuroscience NeuroResearchers Fund Committee
- 2009 Young Scientists Committee, International Congress Schizophrenia Research
- 2006 to date MRC CRTF referees panel
- 2005 to 2009 Member of MRC College of Experts
- 2003 MRC Brain Sciences Initiative Panel
- 2002 to 2004 Member of MRC Medical Advisory Board
- 1999 to 2003 BMA Scottish Medical Academic Staff Committee

External PhD/DSc examinations: Universities of Oxford, London, Aberdeen & Melbourne
Reviewed grants for: ERC, MRC, Wellcome Trust, NIHR, MHRA, MHRN and research bodies in the USA, Canada, Switzerland, Sweden, Finland, France, Ireland and Hong Kong.
Reviewed papers for: Lancet, JAMA, BMJ, Archives of General Psychiatry etc etc

Journal Boards:

- 2012 to date Inaugural Editorial Board of Neuroimage: Clinical
- 2009 to date Field Editor (Neuroimaging) for World Journal of Biological Psychiatry
- 2005 to date Editorial Board of BMC Psychiatry
- 2002 to date Assistant Editor of the British Journal of Psychiatry
- 2002 to date Sentinel reader for American College of Physicians Evidence-Based Medicine

Clinical training, evidence generation & implementation:

- 2012 to date Scottish Autism Strategy Implementation Group (Management, Research)
- 2012 to date Scottish School of Forensic Mental Health Governance Committee
- 2011 to 2012 SIGN Clinical Guidelines for Schizophrenia Development Group
- 2011 to date LHB Individual Patient Treatment Requests Committee
- 2011 College in Scotland representative, review of Advanced Interventions service
- 2010 to date NES Mental Health Specialty Training Board
- 2010 to date Member, Scottish Medicines Consortium
- 2010 College in Scotland representative, review of National Suicide policy
- 2009 to date Management Board/Director, Scottish Mental Health Research Network
- 2007 to date Research tutor to South-East Scotland Psychiatry Training Board
- 2003 to date Lothian Region Formulary Committee (Co-chair since 2010)
- 2001 to date Lothian Primary Care Trust (LPCT) Drug Review & Research Group
- 2001 Audit and Service Evaluation of Western Isles Psychiatric Services
- 2000 to 2003 LPCT Clinical Effectiveness Group and Clinical Guidelines Steering Group
- 1999 to 2009 Senior author of Schizophrenia chapter in BMJs Clinical Evidence
- 1994 to 1997 Edinburgh Association for Mental Health Advisory Committee.

ADVISORY AND MANAGEMENT ROLES (continued)**Royal College of Psychiatrists:**

- 2012 to date Academic Faculty, Royal College of Psychiatrists in Scotland (Chair)
- 2010 to date Academic Faculty, Royal College of Psychiatrists (member)
- 2009 to date Royal College of Psychiatrists in Scotland Executive Committee
- 2004 to 2008 Critical Review Paper Panel of Royal College of Psychiatrists
- 1998 to 2010 Scottish Division Public Education Group / Public Affairs Committee

University of Edinburgh:

- 2012 to date Centre for in vivo Imaging Science (CiViS) Committee
- 2011 to date Medical School Fitness to practise committee
- 2010 to 2012 School (MCM) Planning and Resources Committee
- 2009 to date SHASC Psychiatry representative in Edinburgh
- 2008 to 2010 SINAPSE Research and Commercialisation Committee
- 2007 to 2012 Postgraduate studies convenor, Centre for Clinical Brain Sciences (CCBS)
- 2006 to 2010 SBIRC Core Management Team and CRIC Project team/Management Group
- 2005 to date CCBS Executive and Edinburgh Neuroscience Board (& Researchers fund)
- 2005 to 2006 College Scholarships Sub-committee (representing School of MCM)
- 2004 to date Member of the Sackler Steering Group
- 2003 to 2006 SHEFC SBIRC Scientific Committee
- 2002 to date Organiser and Chair of the Department of Psychiatry Special Lecture Series

RESEARCH GRANT FUNDING

CURRENT GRANTS:

- 2008-15: £3,124,442 from Wellcome Trust for the ‘Scottish Translational Medicine and Therapeutics Initiative’ (DJ Webb [Director]), IB McInnes, F Walsh, R Abraham, A Baker, J Belch, S Bhattacharya, P Bodine, M Bradley, H Campbell, J Connell, H Critchley, A Dominiczak, M Evans, M Ferguson, G Feuerstein, C Ffrench-Constant, I Ford, J Forrester, L Freedman, S Gardell, P Ghazal, G Gould, G Graham, P Hannaford, M Houslay, O Hurko, J Iredale, W Kolch, J Lambert, S Lawrie, K Lees, F Liew, C McCaig, G MacFarlane, I McLean, J McMurray, G Milligan, A Morris, D Newby, M Pangalos, D Porteous, S Ralston, D Reid, M Rogers, S Schweiger, D St Clair, A Struthers, J Tobin, M Vickers, B Walker, M Walkinshaw, J Wardlaw, R Wolf)
- 2010-14: £1,037,754 from Pfizer for ‘Brain imaging studies of pre-frontal glutamate concentration, perfusion and activity’ (SM Lawrie, J Hall, A McIntosh, N Roberts, D St Clair, D Blackwood)
- 2010-15: £1,880,026 from MRC/NIMH EME for ‘The Benefit of Minocycline on Negative Symptoms in Schizophrenia: Extent and Mechanisms’ (JFW Deakin and 12 others including SM Lawrie)
- 2011-13: Up to £244, 475 from Roche for ‘A Phase III, multi-center, randomised, 24 week, double-blind, parallel-group, placebo-controlled study to evaluate efficacy and safety of RO4917838 in stable patients with persistent, predominant negative (protocol 25310) or sub-optimally controlled (protocol 25307) symptoms of schizophrenia treated with anti-psychotics followed by a 28 week, double-blind treatment period’ (SM Lawrie).
- 2011-18: £2,143,998 from MRF/MRC for ‘PsySTAR – Psychiatry: Scottish Training Academic Research’ (SM Lawrie [Director] and 6 others).
- 2012-15: £1,464,000 from the Chief Scientists Office for the ‘Scottish Mental Health Research Network’ (SM Lawrie)
- 2012-15: £110, 900 from the Chief Scientists Office for ‘Developing an Intervention to Increase Exercise in Schizophrenia’ - PhD Fellowship for Lily McNamee.
- 2012-17: £750,000 from the Sackler Foundation for a ‘Sackler Institute for Psychobiological Research (Edinburgh)’ (EC Johnstone, J Hall, SM Lawrie, DCG Owens, A McIntosh).

PREVIOUS GRANTS:

- 1990 £1,166 from University of Edinburgh McGhie Fund for "Chronic Fatigue in the Community" (SM Lawrie).
- 1991 £1,590 from Clouston Memorial Trust and Janet Reid Trust for "An Epidemiological Approach to the Study of Fatigue: A two-stage community survey" (AJ Pelosi & SM Lawrie).
- 1992 £5,211 from Scottish Home and Health Department for "A one-year two-stage follow-up survey of Chronic Fatigue and its Associations" (SM Lawrie & AJ Pelosi).
- 1994 £450 supplement to 1992 grant from the Scottish Home and Health Department.
- 1994 £52,703 from Scottish Home and Health Department for a study entitled "The biology of chronic fatigue syndrome and depressive illness" (SM Lawrie, SM MacHale & EC Johnstone).
- 1996 £18, 705 supplement from the Scottish Home and Health Department for an extension to the "The biology of chronic fatigue syndrome and depressive illness" study (SM Lawrie).
- 1996 £28, 740 from the Scottish Home and Health Department for a study entitled "Errorless learning in the cognitive rehabilitation of memory impaired schizophrenic patients" (RE O'Carroll, SM Lawrie & EC Johnstone).
- 1996 £4, 454 supplement from the Scottish Home and Health Department for an extension to the "The biology of chronic fatigue syndrome and depressive illness" study (SM Lawrie).
- 1998 \$300, 000 over 3 years from the Stanley Foundation for brain imaging research in schizophrenia as a Stanley European Center (EC Johnstone , SM Lawrie, JJK Best & DGC Owens).
- 1998 £14, 709 from the Schizophrenia Research Fund for a pilot study of chemical shift and diffusion imaging as measures of neuronal integrity in schizophrenia (JJK Best, I Marshall, SM Lawrie & EC Johnstone).
- 2000 £30,000 from the Schizophrenia Research Fund for a study of MRI Parcellation in subjects at high risk of developing schizophrenia (SM Lawrie & JJK Best)
- 2000 £2,500 from the Wellcome Trust/Royal Society of Edinburgh to organise a workshop on 'Systematic Reviews on the Brain' (A McIntosh, A Carson & SM Lawrie)
- 2001 - 4 \$300,000 from the Stanley Foundation for imaging studies of the aetiology of schizophrenia (EC Johnstone, SM Lawrie, JJK Best & DGC Owens)

- 2001 £6,000 from local Trust to examine 'Experiences of Psychosocial Interventions' for schizophrenia (R Murray & S Lawrie)
- 2002 - 7 £1,494,000 from the Medical Research Council for 'Cognitive impairment in schizophrenia: a clinical, imaging and genetic study of co-morbidity' (EC Johnstone, P Hoare, SM Lawrie, W Muir, DGC Owens & JM Wardlaw).
- 2002 - 7 £1,683,000 from the Sackler Foundation for a 'Sackler Institute for Psychobiological Research (Edinburgh)' (EC Johnstone, SM Lawrie & JM Wardlaw).
- 2004 - 8 £2,290,232 from the Medical Research Council for 'NeuroGrid' (MRC Grant number G0300623 to JR Geddes and others, Oxford; SM Lawrie and others, Edinburgh; N Fox and others, London)
- 2005 - 10 £416,427 from the Wellcome Trust for 'Integrated image data storage and processing facilities to support research in clinical neuroscience' (I Marshall, J Wardlaw, SM Lawrie, I Deary, A Trew & S della Salla).
- 2006 - 7 £83 822 from Chief Scientist Office (18 months) for 'White matter integrity in bipolar disorder and schizophrenia' (A McIntosh, S Lawrie, J Hall, E Johnstone, M Bastin and K Lymer)
- 2006 - 8 £221, 306 (incl. £18, 424 extension) from Chief Scientist Office for 'Calibrain: multicentre structural and functional MRI in Scotland' (SM Lawrie et al, Edinburgh; JTO Cavanagh et al , Glasgow; JD Steele et al, Aberdeen)
- 2006 – 11 £620, 999 from the Health Foundation for Clinician Scientist Fellowship to A McIntosh for 'Neurocognitive abnormality in individuals at high risk of bipolar disorder or schizophrenia for genetic reasons'. Sponsor: S Lawrie.
- 2007 - 9 £418,829 from MRC for 'NeuroPsyGrid: towards an ontology and multi-centre imaging for psychosis' (SM Lawrie and others Edinburgh; John Suckling, Cambridge; Bill Deakin et al, Manchester).
- 2007 - 10 £185,187 from Wyeth / TMRC for 'Functional imaging biomarkers of cognitive enhancer efficacy' (SM Lawrie, A McIntosh, J Hall, H Wan, TA Comery, O Hurko)
- 2007 - 10 £238,522 from Wellcome Trust for Clinical research Training Fellowship to A. Stanfield for "A clincial, neuropsychological and magnetic resonance imaging study comparing autism spectrum disorders and schizophrenia spectrum disorders." Sponsor: S Lawrie
- 2007 - 10 £357,529 from MRC for Clinical Research Training Fellowship to J Hall for 'Associative memory formation in schizophrenia'. Sponsor: S Lawrie
- 2007 - 12 £500,000 from the Sackler Foundation for a 'Sackler Institute for Psychobiological Research (Edinburgh)' (EC Johnstone, J Hall, SM Lawrie, A McIntosh & DCG Owens).

- 2008 - 9 £242,375 from Wyeth / TMRC for 'Neuroimaging Associative Learning as a Marker of Core Pathology in Schizophrenia' (Hall J, Whalley H, McIntosh AM and Lawrie SM).
- 2008 - 10 £97,672 from Medical Research Scotland for 'A clinical, neuropsychological and magnetic resonance imaging study comparing autism spectrum disorders and schizophrenia spectrum disorders' (A Stanfield, E Johnstone, P McKenna, S Lawrie)
- 2008 - 11 £307,835 from Wellcome Trust for Clinical Research Training Fellowship to B. Baig for "Inflammatory Bowel Disease, Steroids and Depression."
Sponsor: E Johnstone/S Lawrie
- 2009 £48,791 from GSK for "A single sequence, open-label, methodology study to assess cognitive change in patients with schizophrenia after supervised training with the Brain Fitness Program" (SM Lawrie, local PI)
- 2009 – 11 £544, 635 from Wyeth / TMRC for 'Conscious animal fMRI' (I Marshall, M Holmes, E Woods, M Day, S Fleetwood-Walker, S Lawrie, J Hall)
- 2009 - 10 \$100, 000 from NARSAD, Distinguished Investigator Award (SM Lawrie)
- 2010 - 12 £966,000 from the Chief Scientists Office for the 'Scottish Mental Health Research Network' (SM Lawrie)

PUBLICATIONS

I have published more than 200 original articles in peer reviewed journals. As of January 2013, my research has had more than 9,000 total citations, my h-index is 50, and 19 articles (marked *) have been cited at least 100 times,.

Original articles in peer reviewed journals:

1. **Lawrie SM**, Goodwin G, Masterton G. (1993). Munchausens' Syndrome and Organic Brain Disorder. *British Journal of Psychiatry*, 162, 545-549 (case report).
2. **Lawrie SM**, Goodwin GM, Dunan J, O'Carroll R, Best JJK, St.Clair D (1993). Clinical, psychological and neuroradiological findings in a case of Chronic Schizophrenia and cognitive impairment with a mis-sense mutation at codon 713 of the beta-amyloid precursor protein gene. *Schizophrenia Research*, 10, 273-275 (case report).
3. **Lawrie SM**, Pelosi AJ (1994). Chronic Fatigue Syndrome: Prevalence and Outcome. *British Medical Journal*, 308, 732-3 (editorial).
4. Park R, **Lawrie SM**, Freeman CPL (1995). Post-viral onset of Anorexia Nervosa. *British Journal of Psychiatry*, 166, 386-389 (case series).
5. **Lawrie SM**, Pelosi AJ (1995). Chronic Fatigue Syndrome in the Community: Prevalence and Associations. *British Journal of Psychiatry*, 166, 793-797.
6. **Lawrie SM**, Ingle GT, Santosh CG, Rogers AC, Rimmington JE, Naidu K, Best JJK, O'Carroll RE, Goodwin GM, Ebmeier KP, Johnstone EC (1995). MRI and SPET in Treatment Responsive and Treatment Resistant Schizophrenia. *British Journal of Psychiatry*, 167, 202-210.
7. O'Carroll RE, Rogers AC, **Lawrie SM**, Murray C, van Beck M, Ebmeier KP, Walker M, Blackwood D, Johnstone EC, Goodwin GM (1995). Laterality of visuo-spatial attention in acute and chronic schizophrenia, major depression and in healthy controls. *Psychological Medicine*, 25, 1091-1095.
8. Ebmeier KP, **Lawrie SM**, Blackwood DHR, Johnstone EC, Goodwin GM (1995). Hypofrontality revisited: a high resolution SPECT study in schizophrenia. *Journal of Neurology, Neurosurgery and Psychiatry*, 58, 452-456.
9. *Geddes JR, **Lawrie SM** (1995). Obstetric Complications and Schizophrenia: A Meta-analysis. *British Journal of Psychiatry*, 167, 786-793.
10. **Lawrie SM**, Hutchison JK, Sweeney SR, Fernando MR, McAdam CA, Monsour MR, Campbell TJ, MacLeod CM (1995). Substance Abuse and Psychosis: Cause, Effect or Coincidence? *Scottish Medical Journal*, 40, 174-176.
11. **Lawrie SM**, Parsons C, Patrick J, Masson J, Sussman J, Cumming D, Lewin J, Kenwright C, Pickup S (1996). A randomised controlled study of general practitioners' attitudes to patients with schizophrenia. *Health Bulletin* 54, 201-3.
12. Taylor J, **Lawrie SM**, Geddes JR (1996). Factors associated with admission to hospital following emergency psychiatric assessment. *Health Bulletin* 54, 467-473.
13. **Lawrie SM**, Manders DN, Geddes JR, Pelosi AJ (1997). A population based incidence study of chronic fatigue. *Psychological Medicine* 27, 343-353.
14. **Lawrie SM**, Abukmeil S, Santosh C, Chiswick A, Rimmington JE, Best JJK (1997). Qualitative morphological abnormalities in schizophrenia: an MRI study and systematic literature review. *Schizophrenia Research* 25, 155-166.
15. *Verdoux H, Geddes JR, Takei N, **Lawrie SM**, Bovet P, Eagles JM, Heun R, Kendell RE, McCreadie RG, McNeil TF, O'Callaghan E, Stober G, Willinger U, Murray RM (1997). Obstetric complications and age at onset in schizophrenia: an International Collaborative Meta-analysis of individual patient data. *American Journal of Psychiatry*, 154, 1220-1227.

16. **Lawrie SM**, MacHale SM, Power M, Goodwin GM (1997). Is the chronic fatigue syndrome best understood as a primary disturbance in the sense of effort? *Psychological Medicine*, 27, 995-999.
17. ***Lawrie SM**, Abukmeil SA (1998). How abnormal is the brain in schizophrenia? A systematic and quantitative review of volumetric MRI studies. *British Journal of Psychiatry*, 172, 110-120.
18. Blackwood S, MacHale SM, Power M, Goodwin GM, **Lawrie SM** (1998). The effects of exercise on cognitive and motor function in chronic fatigue syndrome and depression. *Journal of Neurology, Neurosurgery and Psychiatry* 65, 541-6.
19. **Lawrie SM**, Martin K, McNeill G, Drife J, Chrystie P, Reid A, Wu P, Nammary S, Ball J (1998). General practitioners' attitudes to psychiatric and physical illness. *Psychological Medicine* 28, 1463-7.
20. MacHale SM, Cavanagh JTO, Bennie J, Carroll S, Goodwin GM, **Lawrie SM** (1998). Diurnal variation of adrenocortical activity in chronic fatigue syndrome. *Neuropsychobiology* 38, 213-7.
21. **Lawrie SM** (1999). Stigmatisation of psychiatric disorder. *Psychiatric Bulletin*, 23, 129-131 (review).
22. ***Lawrie SM**, Whalley H, Kestelman JN, Abukmeil SA, Byrne M, Hodges A, Rimmington JE, Best JJK, Owens DCG, Johnstone EC (1999). MRI of the brain in subjects at high risk of developing schizophrenia. *Lancet*, 353, 30-33.
23. O'Carroll RE, Russell HH, **Lawrie SM**, Johnstone EC (1999). Errorless learning and the cognitive rehabilitation of memory impaired schizophrenic patients. *Psychological Medicine*, 29, 105-112.
24. Warwick MM, Doody GA, **Lawrie SM**, Kestelman JN, Best JJK, Johnstone EC (1999). Volumetric magnetic resonance imaging study of the brain in subjects with sex chromosome aneuploidies. *Journal of Neurology, Neurosurgery and Psychiatry*, 66, 628-32.
25. Buckley L, MacHale SM, Cavanagh JTO, Sharpe M, Deary IJ, **Lawrie SM** (1999). Personality dimensions in chronic fatigue syndrome and depression. *Journal of Psychosomatic Research* 46, 395-400.
26. *Geddes JR, Verdoux H, Takei N, **Lawrie SM**, Bovet P, Eagles JM, Heun R, McCreadie RG, McNeil TF, O'Callaghan E, Stober G, Willinger U, Murray RM (1999). Schizophrenia and complications of pregnancy and labor: An individual patient data meta-analysis. *Schizophrenia Bulletin* 25, 413-423.
27. Whalley HC, Kestelman JN, Rimmington JE, Kelso A, Abukmeil SS, Best JJK, Johnstone EC, **Lawrie SM** (1999). Methodological issues in volumetric MRI of the brain in the Edinburgh High Risk Project. *Psychiatry Research: Neuroimaging* 91, 31-44.
28. **Lawrie SM** (1999). Attitudes of the general population to psychiatric and physical illness. *Psychiatric Bulletin* 23, 671-4.
29. Calvert S, Sharpe M, Power M, **Lawrie SM**. (1999). Does undergraduate education have an effect on Edinburgh medical students' attitudes to psychiatry and psychiatric patients. *Journal of Nervous and Mental Disease* 187, 757-61.
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31. McIntosh A & **Lawrie, S.** (2004). Review: new generation antipsychotic drugs may reduce relapse rates more effectively than conventional antipsychotic drugs in people with schizophrenia. *Evidence Based Mental Health* 7, 14.
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33. **Lawrie S.** (2005). The place of research in the training of psychiatrists. *Psychiatric Bulletin* 29, 231-232.
34. Hall J, **Lawrie SM** (2005). (Authors' reply). Cognitive processing in schizophrenia. *British Journal of Psychiatry* 186, 262.
35. **Lawrie SM** (2007). Distinguishing vulnerability, prediction and progression in the pre-schizophrenic brain. *Archives of General Psychiatry* 64, 250-1. (letter)
36. **Lawrie SM** (2007). Brain imaging of schizophrenia. On line UoE Neuroimaging for Research MSc module
37. Fletcher A, O'Sullivan T, Cash H, Byrne A, **Lawrie S**, Riddle W, Williams R Antidepressant prescribing. *Br J Gen Pract.* 2009 Dec;59(569):945-6.(letter)
38. **Lawrie SM** (2011). Brain imaging as a surrogate outcome marker in psychiatry trials. On line UoE Neuroimaging for Research MSc module
39. Jauhar S, **Lawrie SM.** Cannabis use and psychosis. Are these results clinically relevant? *BMJ.* 2011 Apr 18;342:d1952 (letter)
40. **Lawrie SM.** Charles Dickens at Christmas at 200. *Lancet.* 2012 Dec 8;380(9858):1994.

SELECTED INVITED PRESENTATIONS AT MEETINGS OF LEARNED SOCIETIES:

‘Reductions in temporal lobe volumes as subjects at high risk develop psychotic symptoms’.
10th Biennial Winter Workshop on Schizophrenia, Davos, Switzerland, 2000.

‘Structural and functional abnormalities of the amygdala in schizophrenia’.
New York Academy of Sciences, Galveston, USA , 2002.

‘The development of psychosis in the Edinburgh High Risk Study’
Association of European Psychiatrists 10th Congress, Stockholm, 2002.

‘Investigating premorbid abnormalities in schizophrenia: genetic and prodromal high risk approaches’
3rd International conference on Early Psychosis, Copenhagen, 2002.

‘Imaging genetic predisposition to schizophrenia’
Inaugural meeting of Neuroimaging Section of Association of European Psychiatrists,
London, 2004.

‘Gene-environment interaction in the Edinburgh High Risk Study’
Association of European Psychiatrists 12th Congress, Geneva, 2004

‘Structural and functional imaging predictors and associations of psychosis in the Edinburgh High Risk Study’ Collegium Internationale Neuropsychopharmacologicum, XXIV Congress, Paris, 2004.

‘Prediction of psychosis by depression among high risk subjects’
Association of European Psychiatrists (AEP) 13th Congress, Munich, 2005

‘Neurodevelopmental markers and susceptibility to schizophrenia’
8th World Congress of Biological Psychiatry, Vienna, 2005

‘Imaging the genotype and phenotype of schizophrenia’
Plenary lecture at the South European Biological Psychiatry Association, Marseille, 2005.

‘Deconstructing psychosis: Human brain imaging – towards an evidence-based brain imaging’. DSM-V workshop, Washington 2006.

‘New developments in the Neuroimaging of psychosis’
AEP 14th Congress, Nice, 2006

‘Neurocognitive Predictors of Schizophrenia in Subjects at Genetic High Risk’
Society of Biological Psychiatry (SOBP), Toronto, 2006

‘Predicting schizophrenia with brain imaging’
SOPSI, Rome, 2006

‘Brain imaging in schizophrenia’. Cold Spring Harbour Workshop on Schizophrenia, Long Island, USA, 2006

“Imaging genetic effects on brain development in subjects at high risk of schizophrenia.”
ACNP, Florida, 2007

“Cannabis cautions and concerns.”
Pain conference. Berlin, 2007.

"Distinguishing vulnerability, prediction, and progression in the preschizophrenic brain".
21st European Neuropsychopharmacology Congress, Barcelona 2008.

“What do changes in GM mean? GM density correlates in people at high risk of schizophrenia.”
SOBP, Washington 2008

“Multi-centre brain imaging (harmonising sequences, tasks, metrics and analysis).”
1st Schizophrenia International Research Society (SIRS) conference, Venice, 2008.

“Neuroimaging of vulnerabilities for mental disorders.”
17th EPA European Congress of Psychiatry, in Lisbon, Portugal, January 2009

“Neuregulin 1, synaptic plasticity and schizophrenia”
9th World Congress of Biological Psychiatry, Paris, June, 2009.

“Psychopathology, genes and the brain: Is there a link?”
18th EPA European Congress of Psychiatry, Munich, January 2010

“Pathophysiology of schizophrenia: do we have any solid evidence of interest to clinicians?”.
Annual Meeting of the American Psychiatric Association, New Orleans, May, 2010.

“Are Endophenotypes a Useful Concept?”
2nd SIRS conference, Florence, 2010

"Brain imaging as a tool in developing and refining new treatments for psychosis"
10th World Congress of Biological Psychiatry, Prague, May 2011

“Multimodal brain imaging analyses of structural, functional and effective connectivity”.
3rd SIRS conference, Florence 2012

OUTSIDE INTERESTS

SPORT – ESPECIALLY SWIMMING AND GOLF - HANDICAP 6 AT THE ROYAL & ANCIENT GOLF CLUB OF ST. ANDREWS, LUFFNESS NEW GOLF CLUB AND THE ISLE OF HARRIS GOLF CLUB

THE ARTS – ESPECIALLY VISUAL ART, FILM, CONTEMPORARY MUSIC AND OPERA

TRAVEL – ESPECIALLY HIGHLANDS AND ISLANDS OF SCOTLAND, ITALY

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