Alan Jackson BSc (Hons), PhD, MBCh.B (Hons), MRCP, FRCR, FRCP, FBIR
Emeritus Professor of Radiology , University of Manchester
Honarary Consultant Neuroradiologist, Salford Hospitals NHS Trust

PERSONAL DETAILS

NAME	Alan Jackson
ADDRESS	5 Copperfields, Bonville Road, Altrincham, Cheshire, WA14 4QR.
TELEPHONE	0161-929-1101
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DATE OF BIRTH	24.2.57
NATIONALITY	British
MARITAL STATUS	Married
GMC REGISTRATION NUMBER	2855848

QUALIFICATIONS

1978	**B.Sc. (Honours)** Degree in Anatomy. (2.1)
1981	**Ph.D.** in Anatomy
1984	**M.B. Ch.B. (Honours)**
1987	**M.R.C.P.**(Edinburgh)
1990	**F.R.C.R.**
2003	**F.R.C.P.**
2007	**F.B.I.R.**

ACADEMIC PRIZES AND DISTINCTIONS

1975	•The Alice and Edith Hamer Major Scholarship in Medicine
1983	•The Spastic Society Prize in Paediatrics
	•The Manchester Paediatrics Club Prize
1984	•Distinction in Obstetrics and Gynaecology
	•The Obstetrics Prize
	•The Brockbank Prize in Medicine
	•The Dorothy Clark Memorial Prize in Neurology
	•Liversedge Memorial Prize
1989	•The Pfizer Prize for Postgraduate Medical Research
1990	•Finalist in the Finzi Junior Radiologists' Prize awarded by the Royal Society of Medicine.
1991	•Nycomed Scandinavian Scholarship, awarded by the British Institute of Radiology.
1993	•The Churchill Livingstone prize, awarded by the Royal College of Radiologists
	•The Reginald Reid Scholarship, awarded by the Royal College of Radiologists
2010	•The Barclay Prize for outstanding contributions to Radiological Research. Awarded by the British Institute of Radiology

CURRENT POSTS

September 2018-	**Emeritus Professor of Radiology , University of Manchester**
May 2001-	**Honorary Consultant Neuroradiologist**, Salford Hospitals NHS Trust

UNIVERSITY EDUCATION

1975-1977	Pre-clinical medical student
1977-1978	Invited intercalated student in anatomy leading to degree of Bachelor of Science with Honours.
1978-1981	Post-graduate student, Faculty of Medicine, University of Manchester leading to degree of Doctor of Philosophy.
1981-1984	Clinical medical student leading to degrees of Bachelor of Medicine and Bachelor of Surgery.

TITLE OF B.Sc. THESIS

The Striatum, Globus Pallidus and Subthalamic Nucleus,
their connections and interconnections in the rat brain.

TITLE OF PH.D. THESIS

The Nucleus Tegmenti Pedunculopontinus, the Pallidal complex and the Subthalamic nucleus:
their connections and interconnections in the mammalian brain.

PREVIOUS APPOINTMENTS

Nov 2013-2019	**Director,** CRUK and EPSRC cancer imaging centre in Cambridge and Manchester.
Aug 2007-2019	**Director, Wolfson Molecular Imaging Centre,** University of Manchester**.**
Aug 1995-2019	**Professor of Radiology**, University of Manchester, **Honorary Consultant Neuroradiologist**, Central Manchester and Manchester Children's University Hospitals NHS Trust and
Jan 2009-2019	**Associate Director (Oncology)** Wolfson Molecular Imaging Centre
Jan 2009-2019	**Director Manchester Cancer Research Centre Imaging Group**
Oct 1993-Aug 1995.	**Senior Lecturer in Neuroradiology,** University of Manchester and **Honorary Consultant Neuroradiologist** Central Manchester Healthcare Trust.
Apr 1991-Oct 1993.	**Senior Registrar in Neuroradiology,** Manchester Royal Infirmary.
Oct 1990-Mar 1991.	**Senior Registrar in Diagnostic Radiology.**North West Regional training rotation in Diagnostic Radiology.
Oct. 1987- Oct. 1990.	**Registrar in Diagnostic Radiology.** North West Regional training rotation in Diagnostic Radiology.
Aug. 1987- Oct 1987.	**Registrar in Medical Oncology.**Christie Hospital and Holt Radium Institute.
Feb. 1987- Aug. 1987.	**Senior House Officer in Oncology,** Christie Hospital and Holt Radium Institute.
Aug. 1985- Feb. 1987.	**Senior House Officer** at University Hospital of South Manchester.
Feb. 1985- Aug. 1985.	**House surgeon** Neurosurgical Unit, Manchester Royal Infirmary.
Aug. 1984- Feb. 1985.	**House physician** Manchester Royal Infirmary.

Research

Research focus on Imaging based Biomarkers: since 1996 I have focused on using imaging techniques to develop quantitative biomarkers, which parameterize physiological and pathological processes. This approach requires multidisciplinary collaboration to develop and validate reproducible and biologically significant parameters. I have used these techniques to improve understanding of disease processes and therapeutic mechanisms particularly in cancer.

Major achievements:

a) *Major contribution to the use of imaging in cancer drug development.* I have been instrumental in the introduction of imaging Biomarkers to the development of novel cancer therapeutics specifically antiangiogenic agents. In 2002 I published the first human imaging study of an antiangiogenic agent, which was also the first study to combine both MRI and PET biomarkers. My group is now recognized as a world leader in this field and has one of the largest portfolios of collaborative imaging-based therapeutic trials in the world.

b) *Established Manchester MRI centre and qLAb*. In order to facilitate my research I obtained funding in 1995 for a research dedicated MR facility and subsequently for development of a research image processing laboratory and high-powered parallel computing facilities. Subsequently in 2002 I led a successful bid to MRC which led to the establishment of the Manchester research imaging facilities including high-field MR, PET and radioisotope production. Since 2002 I have established, together with Professor Geoff Parker, a GCP standard image-processing laboratory, which currently has joint projects with multiple major international pharmaceutical companies with over £5 million pounds of investigator led commercial funding.

c) *Main Research Findings:* inhibition of angiogenesis produces significant, often dose-dependent changes in tumour microvasculature which can be used as an index of drug activity at which occur within hours of drug administration. This observation has led to the introduction of imaging into early phase drug trials of anti-angiogenic and anti-vascular therapeutics. Application of the same Biomarkers in Neuro-oncology has identified phenotypic prognostic subtypes in patients with glioblastoma which are independent of identified histological subtypes with major implications for future trials of novel therapies. Application in patients with late onset depression has confirmed a relationship between treatment resistance and microvascular brain disease with direct implications for management.

d) *Research Leadership and Innovation:* I have been instrumental in establishing Manchester as an internationally recognized medical imaging research Centre. For the past five years I have been chairman of the research committee of the Royal College of Radiologists and have used that role to grow research capacity by establishing Clinical Research Fellowships as a career path within Academic Radiology.

e) *Substantial Grant Funding:* my work has attracted funding from research councils, the European Union and major research charities including CRUK and the Wellcome Trust. More recently have attracted extensive funding from the pharmaceutical industry for investigator led studies including a strategic alliance with AstraZeneca for Biomarker discovery and a single site study of Biomarker changes in response to Bevacizumab funded by Roche with a total value of over £4.5 million.

Specific research Interests include:

- **Development and Validation of Novel Imaging Biomarkers.** This work is designed to identify biologically relevant biomarkers by combining advanced cross-sectional imaging techniques and quantitative image analysis. My group has international reputation in the development of biomarkers of the vascular microenvironment in tumours and in microvascular brain disease. Recent work focuses on the development of techniques for classification of tumoral heterogeneity using combination biomarkers derived from multimodality imaging, the quantification of oxygen contrast-enhanced MRI to study oxygen delivery and tissue hypoxia and the development of novel instrumentation to quantify what a regulatory cerebral function using MRI.
- **Oncological Applications.** This work consists of two parallel programmes of research utilising imaging biomarkers in systemic tumours and in neuro-oncological applications. In systemic tumours work focuses on the identification of prognostic phenotypic markers using combination biomarkers and development of biomarker profiles for use in therapeutic trials of novel agents and therapeutic monitoring. In Neuro-oncology we have applied the same biomarkers to study the angiogenic process, tumoral heterogeneity, the impact of intracranial pressure on tumour behaviour at the relationship between these processes and clinical management.
- **Neurological Applications**. My research has focused on the development of biomarkers which allow the identification of specific mechanisms of vascular injury. This has led to the development and validation of biomarkers which provide specific indicators of microvascular arterial disease, direct measurement of arterial system compliance and measurement of regional arteriolar and venular blood flow. These novel biomarkers have been validated in vascular and mixed vascular dementia and in treatment resistant late-onset depression. We have also studied the role of cerebral micro-emboli in degenerative and vascular dementias and are currently developing methods to quantify dysfunction of cerebro-vascular autoregulation.
- **Decision Support**. The availability of reproducible quantitative biomarkers provides the opportunity for statistical decision support systems for use in therapeutic trials and clinical practice. It is my intention that much of the Biomarker research which we undertake will be integrated into decision support frameworks and I have formed a partnership with the EPSRC data mining group in Manchester to take this forward. This developmental work, currently funded by EPSRC and MRC is currently developing algorithmic approaches to integrate imaging-based Biomarkers with literature-based evidence using aneurysmal subarachnoid haemorrhage and soft tissue tumours as clinical exemplar's.

OTHER ACADEMIC ACTIVITIES

EDITORIAL ACTIVITIES

Editor of Radiology Update (2002-2006)
Associate Editor of the British Journal of Radiology (2006-2012)
Deputy Editor of the British Journal of Radiology (2005-2010)
Member of the Science Committee for European Radiology (2001-2004)
Guest Editor of Image Processing – Special Supplement to British Journal of Radiology (2004)
Editorial Board member for Investigative Radiology (2006-ongoing)
Guest Editor of Imaging Biomarkers in Oncology – Special Edition to British Journal of Radiology (2009)
Editorial Board, World Journal of Radiology (2009-2013)

DIRECTORSHIPS

Director of the Wellcome CRF Imaging Facility
Director of the Neurosciences Directorate at Hope Hospital (2001-2004)
Associate Medical Director of Imaging – North, Central and South Manchester Primary Care Trusts (2006)
Associate Director (Cancer) – WMIC (2009 -)

CHAIRMANSHIPS

Chairman of University working group on clinical neuroscience strategy (Jan 2000-2002)
Chairman of the Manchester Neuroradiology Service Design Group
Chairman of Clinical Advisory Group of the MRC and EPSRC funded Interdisciplinary Research Collaborative "from images and signals to medical information" (2001-2007)
Chairman of the Wellcome Trust IT implementation group
Chair of Postgraduate Educational Committee for Diagnostic and Investigational Sciences
Chairman of the Commission on Education for the World Federation of Neuroradiological Societies (1998 – to date)
Chairman of Research-Committee of Royal College of Radiologists (2004-2010)
Chair of Magnetic Resonance Imaging Facility, University of Manchester (2009-2010)
Chair of the MR Cancer Study Group of the ISMRM (2010-2012)

MEMBERSHIP OF COMMITTEES

European Society of Radiology Educational Committee in Neuroradiology (1998-date)
Member of the Organisational Committee for Neuroradiology teaching for the European Congress of Radiology (1999-date)
Medical representative on University High Powered Computing committee 1999-date
Member of University strategy committee on clinical neurosciences (1999- to date)
Advisor and reviewer for the European Commission committee on medical telematics (1999-date)
Member of Executive Committee of Division of Imaging Science and Biomedical Engineering (1999-to date)
Clinical advisor to the American National Institute of Health concertation group on advanced MRI imaging in cancer (2000).
ECR 2001 Sub Committee for "Computer Applications" (2001)
ECR 2001 Sub Committee for "Neuro" (2001)
ECR 2002 Sub Committee for "Neuro" (2002)
ECR 2002 Scintific Exhibition Jury (2002)
Member of Scientific Committee of European Radiology 2001-2010
Executive Committee of MRC funded Interdisciplinary Research Collaborative "Medical Images and Signals" 2001-2007
FRCR Modular working group 2003-2005
Steering Group for the TrusTECH Clinical Trials Capacity Mapping Project (2003)
ECR 2004 Sub-Committee for "Contrast Media" (2004)
ISMRM Workshop & Study Group Review Committee (2006-2007)
Neuroradiology representative on the Brain sub-group, NCIN (2009-)
Experimental Cancer Medicine Centre Imaging Steering Committee (2009-)
Professional Support and Standards Board, RCR (2009-2010)
RCR representative to the ESR (2010-2012)
ECMC Imaging Steering Committee (2010-

EDUCATIONAL ACTIVIES

I have a specific interest in the development of competent clinical radiology researchers. The loss of research capacity within radiology has been highlighted as a national problem and results largely from a lack of research ethos and funding opportunities within the specialty.

In 2002 I was appointed chairman of the Royal College of Radiologists research committee and established that during the previous five years no radiologist had been successful in obtaining clinical Fellowship funding from any of the major government or

charitable funding bodies. In response to this I negotiated joint research fellowships with CRUK and the MRC starting in 2004. These are awarded competitively with applicants from other specialties and there are now at least three clinical radiology trainees entering clinical fellowships each year. The number of Radiology applications continues to increase and has been further increased by provision of dedicated research career training days at the Royal College which I have organised For the past three years.

In 2001 I was appointed chair of the education committee of the World Federation of Neuroradiological Societies. This work has led to the development of neuroradiological educational resources and specifically the provision of travel scholarships to international meetings for trainees in countries with limited financial resources.

I have acted as principal supervisor for 9 MD and 20 PhD students and am currently supervising 2 clinical research Fellows.

SUPERVISION OF POSTGRADUATE STUDENTS

MD

- Dr Charles Hutchinson "3 dimensional magnetic resonance imaging and its application to radiotherapy planning". **Degree awarded 1998**
- Dr Anoop Varma "Evaluation of diagnostic criteria and neuroimaging techniques in the differentiation of Alzheimer's, vascular and frontotemporal dementias". **Degree awarded 2001**
- Dr Aprajay Golash "Value of magnetic resonance imaging in cervical spondylitic myelopathy" **Degree awarded 2006**
- Dr Amit Herwadkar "Applications of advanced imaging techniques in the diagnosis and management of acoustic neuroma"
- Dr Tufail Patankar "Uses of microvascular quantificational techniques based on magnetic resonance in Neuroscience and Oncology". **Degree Awarded 2008**
- Dr CL Mitchell "Imaging anti-angiogenic agents"

PhD

- Miss Emma Burton "Methodological considerations of the effects of motion in functional magnetic resonance imaging (fMRI) and its application to Parkinson's disease". Degree awarded 2000
- Mr David Moriarty "Magnetic resonance imaging of multiple sclerosis: imaging sequence optimisation and correlation with clinical and neuropsychological disability". Degree awarded 2000
- Mr Hamied Haroon "First pass pharmacokinetic modelling in dynamic contrast-enhanced magnetic resonance imaging: application in human oncology" Degree awarded 2004
- Ms Marietta Scott "Towards a quantitative methodology for the assessment of cerebral blood flow in magnetic resonance imaging" Degree awarded 2005
- Ms Christine Atherton "Functional imaging of visual object constancy" Degree awarded 2003
- Basma Issa "The role of capillary endothelial permeability measurements in ovarian cancer" Submitted 2005
- Habib Ashoor "Decision support for diagnosis of cerebral tumours" Submitted November 2008
- Mr Patrick Cherry "Autoregulation in cerebral blood flow"
- Mr Caleb Roberts "Magnetic resonance imaging" Degree awarded 2008
- Mrs Tamader Al-Rammah "Clinical applications of multislice spiral CT in hepatic disease" Degree awarded 2007
- Dr Adrien Parry-Jones "Magnetic resonance imaging in acute stroke: Feasibility of novel scanning sequences in acute stroke patients" Degree awarded 2007
- Dr James O'Connor "Angiogenesis imaging (Magnetic resonance)" Degree Awarded 2009
- Dr Samantha Mills "The use of MR biomarkers in brain tumours" Degree Awarded 2010
- Dr Stavros Stivaros "Language based decision support system for treatment planning in patients with sub-arachnoid haemorrhage"
- Dr Gerard Thompson "Multiparametric imaging biomarkers for radiotherapy planning in glioblastoma multiforme: biomarker discovery"
- Dr John Cain "Combining lower body negative pressure with magnetic resonance to investigate cerebral vascular autoregulation"

- Dr Ahmed Saleem. “validating non-invasive therapeutic lung cancer biomarkers” Awarded 2019
- Dr Daniel Lewis. “Imaging insights into the vestibular schwannoma microenvironment. “ Awarded 2021
- Dr Erjon Agushi. “Translocator Protein and Methionine PET Imaging in Glioma” Awarded 2020
- Dr John Trigonis. Imaging tumour proliferation with [f-18]fluorothymidine pet in patients with non-small cell lung cancer in response to radiotherapy. Awarded 2014
- R Georgios Krokos. “Integrated analysis of dynamic pet and mr brain images for the development of imaging biomarkers of drug delivery” Awarded 2017
- Dr Ibrahim Djoukhadar. Measuring and Modifying Temozolomide Delivery in Brain Tumours. Awarded 2016
- Dr Shaonan Wang
- Dr Ignacio Parterrieu
- Dr Kate Haslett. Personalising radiotherapy in non-small cell lung cancer. Awarded 2015
- Dr Laura Horsley. Imaging Biomarkers of the Tumour Microenvironment to Assess Early Response in Patients Treated with Anti-Angiogenic Therapy. Awarded 2014
- Dr Matt Gentry
- Dr Natalile Quartticio. Imaging Biomarkers of Tissue Hypoxia in Glioblastoma Multiforme. Awarded 2020
- Dr Ryan Pathak

PUBLICATIONS

1. Crossman A.R., Sambrook M.A., and **Jackson A.** Choroid hyperkinesia in the baboon following injections of picrotoxin into the basal ganglia. Neurosci. Letts. 1980: 19; Suppl. 5; 335.

2. **Jackson A**. and Crossman A.R. Interconnections of the basal ganglia and related structures with the peribrachial area in the rat. Neurosci. Letts. 1980: 19; Suppl. 5; 339.

3. Crossman A.R., Sambrook M.A., and **Jackson A.** Experimental hemiballismus in the baboon produced by injection of gamma-amino butyric acid antagonists into the basal ganglia. Neurosci. Letts. 1980: 20; 369-372.

4. **Jackson A.** and Crossman A.R. The efferent projections of the entopeduncular nucleus in the rat: a study using anterograde and retrograde transport of H.R.P. Neurosci. Letts. 1981: Suppl. 7; 127.

5. **Jackson A.** and Crossman. A note on the nucleus tegmenti pedunculopontinus in the mammalian brain. Neurosci. Letts. 1981: Suppl. 7; 127.

6. Brackenbury E.T., Crossman A.R., **Jackson A.** and Sambrook M.A. Zona Incerta efferents: Two subgroups of neurones projecting to the tectum or tegmentum in the rat and monkey. Neurosci. Letts. 1981: Suppl. 7; 128.

7. Crossman A.R. and **Jackson A**. The efferent projections of the subthalamic nucleus (of Luys) in the rat, with special reference to a previously undescribed projection. Proceedings of the J. Physiol. 1981: 319; 108p (Suppl).

8. Crossman A.R., Feger J., Hammond C., **Jackson A.**, and Sambrook M.A. Studies on site specificity of intracerebral drug injection in the production of experimental hemiballismus in the monkey. Proceedings of the J. Physiol. 1981: 319; 109p.

9. **Jackson A.** and Crossman A.R. Subthalamic projection to the nucleus tegmenti pedunculopontinus in the rat. Neurosci. Letts. 1981: 22; 17-22.

10. **Jackson A.** and Crossman A.R. Basal ganglia and other afferent projections to the peribrachial region in the rat: a study using retrograde and anterograde transport of horseradish peroxidase. Neuroscience 1981: 6; 1537-1549.

11. **Jackson A.** and Crossman A.R. Subthalamic nucleus efferent projection to the cerebral cortex. Neuroscience 1981: 6; 2367-2377.

12. Hammond C., Rouzaire-Dubois B., Feger J., **Jackson A.** and Crossman A.R. Anatomical and electrophysiological studies on the reciprocal projections between the subthalamic nucleus and nucleus tegmenti pedunculopontinus in the rat. Neuroscience 1983: 9; 41-52.

13. **Jackson A**. and Crossman A.R. Nucleus tegmenti pedunculopontinus: Efferent connections with special reference to the basal ganglia, studied in the rat by anterograde and retrograde transport of horseradish preoxidase. Neuroscience 1983:10; 725-765.

14. Crossman A.R., Sambrook M.A. and **Jackson A.** Experimental hemichorea/hemiballismus in the monkey; Studies on the intracerebral site of action in a drug induced dyskinesia. Brain 1984: 107; 579-596.

15. Crossman A.R. and **Jackson A.** A new experimental model of choreoathetosis in the primate. Proceedings of the J.Physiol. 1983 36P.

16. **Jackson A.** and Crossman A.R. Experimental choreoathetosis produced by injection of a gamma-aminobutyric acid antagonist into the lentiform nucleus in the monkey. Neurosci. Letts.1984: 46; 41-45.

17. Mitchell I.J., **Jackson A.** Sambrook MA, Crossman A.R. Common neural mechanisms in experimental chorea and hemiballismus in the monkey. Evidence from 2-deoxyglucose autoradiography. Brain Research 1985: 339; 346-350.

18. Mitchell I.J., **Jackson A.** Crossman A.R. Use of the 2-deoxyglucose technique to study the neural mechanisms that mediate basal ganglia dyskinesia. In: The neurobiology of Dopamine systems. Ed Winslow W and Markstein R.Manchester University Press, 1986.

19. Crossman AR, Sambrook MA, Mitchell IJ, **Jackson A** Clarke CE, Robertson RG and Boyce S. Basal ganglia mechanisms mediating experimental dyskinesia in the monkey. In: Basal Ganglia II: Structure and function, current concepts. Advances in behavioral biology VOL32, Edited by Carpenter MB and Jayaraman A . New York. Plenum Press, 1987: 377-394.

20. Crossman A.R, Mitchell I.J., Sambrook M.A. and **Jackson A.** Chorea and myoclonus in the monkey induced by gamma-aminobutyric acid antagonism in the lentiform complex. The site of drug action and a hypothesis for the neural mechanisms of chorea. Brain 1988: 111; 1211-1233.

21. Scarffe J.H., Smith D.B. and **Jackson A.** Special clinical problems with myeloma. Haematological Oncology 1988: 6; 119-123.

22. Gibbon W.W. and **Jackson A.** An isolated capitate fracture in a nine year old boy. British Journal of Radiology 1989: 62; 487-488.

23. **Jackson A,** Bisset R. & Dickson A.P. Case Report. Malrotation and midgut volvulus presenting as malabsorbtion. Clinical Radiology 1989: 40; 536-537.

24. **Jackson A.,** Hardcastle M, Shaw A and Gibbon W.W. Reduction of ocular lens dosage in dacrocystography. Clinical Radiology 1989: 40; 615-618.

25. **Jackson A.** and Burton I.E. Retroperitoneal mass and spinal cord compression due to extramedullary haematopoiesis in a case of polycythaemia rubra vera. British Journal of Radiology 1989: 62; 944-947.

26. Mitchell I.J., **Jackson A.**, Sambrook M.A. and Crossman A.R. The role of the subthalamic nucleus in experimental chorea. Evidence from 2-deoxyglucose metabolic mapping and horseradish peroxidase tracing studies. Brain 1989: 112; 1533-1548.

27. **Jackson A.** and Scarffe J.H. Prognostic significance of osteopenia and immunoparesis at presentation in patients with solitary myeloma of bone. European Journal of Cancer 1990: 26; 363-371.

28. **Jackson A.** and Burton I. A case of POEMS syndrome associated with essential thrombocythaemia and dermal mastocytosis. Postgraduate Medical Journal. 1990: 66; 761-767.

29. Ranson MR, Oppenheim BA, **Jackson A,** Kamthan AG and Scarffe JH. Double blind placebo controlled study of vancomycin prophylaxis for central venous catheter insertion in cancer patients. J. Hosp. Infect.1990: 15; 95-102.

30. **Jackson A,** Fields JM and Wong-You-Chong JJ The Costal Hook: An indicator of occult flail segment in chest trauma. European Journal of Radiology 1991: 13; 69-71.

31. **Jackson A** & Scarffe J.H. Upper humeral cortical thickness as an indicator of osteopenia. Diagnostic significance in solitary myeloma of bone. Skeletal Radiology 1991: 20; 363-368.

32. **Jackson A** & Burton I.E. Premature vascular calcification in a case of POEMS syndrome. European Journal of Radiology 1991:13; 203-206.

33. **Jackson A,** Reilly M and Watson A. Radiological appearances following limb replantation: a report of 5 cases. Skeletal Radiology 1992: 21; 155-159.

34. **Jackson A,** Pannizza BJ, Hughes D and Reid H. Primary choroid plexus papilloma of the cerebellopontine angle: magnetic resonance imaging, computed tomographic and angiographic appearances. British Journal of Radiology 1992: 65; 754-757.

35. **Jackson A** and Scarffe JH. Upper humeral cortical thickness as indicator of osteopaenia: Diagnostic significance in solitary myeloma of bone. Orthopaedics/Rheumatology Digest 1992: 8; 26-27.

36. **Jackson A**, Dobson M & Cooper P. The Swiss Cheese Brain. British Journal of Radiology 1992: 65; 1042-1044.

37. Hartley RWJ and **Jackson A ,** RS Cooke. Dural venous sinus thrombosis following myelography demonstration by magnetic resonance imaging. British Journal of Radiology 1992: 65; 1134-1136.

38. England RE & **Jackson A.** Imaging of dialysis access: a review of 67 failing fistulas investigated by intravenous digital subtraction angiography. British Journal of Radiology 1993: 66; 32-36.

39. **Jackson A**, Kwartz J, Noble J and Reagan MJ. Multiple myeloma presenting as bilateral orbital masses: CT and MR appearances. British Journal of Radiology 1993: 66; 266-268.

40. Whitehouse RW and **Jackson A.** Measurement of orbital volumes following trauma using low dose computed tomography. European Radiology 1993: 3; 145-149.

41. Griffiths AM, Beards SC, **Jackson A** and Horsman EL. Visualisation of extradural blood patch for post lumbar puncture headache by magnetic resonance imaging. British Journal of Anaesthetics 1993: 70; 223-225.

42. **Jackson A,** Fitzgerald JB, Hartley RWJ, Leonard A and Yates J. CT appearances of haematomas in the corpus callosum in patients with subarachnoid haemorrhage. Neuroradiology 1993: 35; 420-423.

43. Kwartz J, **Jackson A** and Noble J. Bilateral proptosis and corneal crystals in multiple myeloma. Letter. Eye 1993: 7; 191-193.

44. Beards SC, **Jackson A**, Holland J, Horsman EL. Does a bloody tap prevent postdural puncture headache? Anaesthesia 1993: 48; 1111-1112 (Letter).

45. **Jackson A**, Gillespie JE and Beards SC. Technical difficulty of femoral artery puncture in late pregnancy. European Journal of Radiology 1993: 17; 113-114.

46. Beards SC, **Jackson A**, Griffiths AG and Horsman EL. Magnetic resonance imaging of extradural blood patches: appearances from 30 Min to 18 H. British Journal of Anaesthesia 1993: 71; 182-189. **Awarded the 1992-1993 Rhone Poulenc-Rorer Gold medal for best clinical research in Anaesthesia by the section of anaesthesia of the Royal Society of Medicine.**

47. **Jackson A**, Beards SC, and Gillespie JE. Possible hazard associated with the use of the "FemoStop" femoral artery compression device. British Journal of Radiology 1993: 66; 748-9.

48. Stewart GD, **Jackson A** and Beards SC. Azygous catheter placement as a cause of failure of dialysis. Clinical Radiology 1993: 48; 329-331.

49. **Jackson A**, Fitzgerald J, Gillespie JE. The callosal-septal interface lesion in multiple sclerosis: effect of sequence and imaging plane. Neuroradiology 1993: 35; 573-577.

50. Whitehouse RW and **Jackson A**. Retrobulbar haematoma. British Journal of Oral and Maxillofacial Surgery 1993: 31; 131 (Letter).

51. **Jackson A** and Whitehouse R.W. Low Dose Computerised tomography imaging in orbital blow-out fractures. British Journal of Radiology 1993: 66; 655-661.

52. Kwartz J, Charles S, McCormack P, **Jackson A** and Lavin M. Anterior segment ischaemia following segmental scleral buckling. British Journal of Ophthalmology 1994: 78; 409-410.

53. Whitehouse RW, Batterbury M, **Jackson A** & Noble JL. Prediction of enophthalmos by computed tomography after blow out orbital fracture. British Journal of Ophthalmology 1994: 78; 618-620.

54. Hynes JE & **Jackson A**. Atraumatic gluteal compartment syndrome. Postgraduate Medical Journal 1994: 70; 210-213.

55. Stewart GD and **Jackson A**. Aluminium ringpulls: an invisible foreign body. Journal of Accident and Emergency Medicine 1994: 11; 201-203.

56. Beards SC, Doedens L, **Jackson A** and Lipman J. A comparison of arterial lines and insertion techniques in critically ill patients. Anaesthesia 1994: 49; 968-973.

57. Beards SC, Robertson LJ, **Jackson A** & Lipman J. Malignant Astrocytoma Of The Cervico-Medullary Junction Masquerading As Guillain Barre Syndrome. Postgraduate Medical Journal 1994: 70; 499-503

58. **Jackson A** & Isherwood I. Does degenerative disease of the lumbar spine cause arachnoiditis? A magnetic resonance study and review of the literature. British Journal of Radiology 1994: 67; 840-847.

59. Hartley C, Ng KL, **Jackson A.** CT and MR appearance of otolaryngologic packing materials. American Journal of Neuroradiology 1995: 16; 1697-1702.

60. Williams G, **Jackson A,** Whitehouse RW, Kwartz J. The role of CT and MRI in the investigation of orbital roof fractures. European Journal of Radiology 1995:19; 124-128.

61. **Jackson A**, Hughes D, St. Clair-Forbes W, Stewart G, Cummings WJK and Reid H.A case of osteochondroma of the cervical spine. Skeletal Radiology 1995: 24; 235-237.

62. **Jackson A**, Romanovski CA**.** Lumbar synovial cysts. Postgraduate Medical Journal 1995: 71; 121-122.

63. **Jackson A,** Stewart GD, Wood A and Gillespie JE. Transient global amnesia and cortical blindness after vertebral angiography. Further evidence for the role of arterial spasm. American Journal of Neuroradiology 1995: 16; 955-959.

64. Ng KL, Mc Dermott N, Romamowski CAJH and **Jackson A** Neurosarcoidosis masquerading as a glioma of the optic chiasm in a child. Postgraduate Medical Journal 1995: 71; 265-268.

65. Beards SC**, Jackson A**, Hunt L, Wood A, Frerk CM, Brear G, Edwards JD and Nightingale P. Interobserver variation in the chest radiograph component of the lung injury score. Anaesthesia 1995: 50; 928-932.

66. Goodall KL, **Jackson A**, Leatherbarrow B and Whitehouse RW. Enlargement of the tensor intermuscularis in Graves' Ophthalmopathy: A CT and MR imaging study. Archives of Ophthalmology 1995: 113; 1286-1289.

67. Goodall KL, **Jackson A**, Leatherbarrow B and Whitehouse RW. Enlargement of the Tensor Intermuscularis in Graves' Ophthalmopathy: A CT and MR study. Archives of Ophthalmology 1995: (Edicion Espanola) 62-66.

68. Lang I, **Jackson A**, Strang FA. Intraventricular haemorrhage caused by intraventricular meningioma: CT appearances. American Journal of Neuroradiology 1995: 16; 1378-1381.

69. Laitt R, Birchall D, **Jackson A**. An unusual cerebral mass lesion. Postgraduate Medical Journal 1995: 71; 427-429.

70. Laitt R, **Jackson A**, Isherwood I. Patterns of chronic adhesive arachnoiditis following Myodil myelography: the significance of spinal canal stenosis and previous surgery. British Journal of Radiology 1996: 69; 693-698.

71. Birchall D, Goodall K, Noble J and **Jackson A.** Graves ophthalmopathy: Intracranial fat prolapse on CT images as an indicator of optic nerve compression[1]. Radiology 1996: 200; 123-127.

72. **Jackson A.** Magnetic resonance imaging of orbital disease. Optician 1996: 212; 18-23.

73. **Jackson A**. Sensorineural hearing loss: Acoustic neuromas. Magnetic Resonance Update 1996.

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RESEARCH FUNDING

Investigators	Title	Source	Amount
Berry, Airey, Bamford, Cullingworth Gough, Jackson	Cost effectiveness of MRA: carotid artery stenosis and peripheral vascular disease	NHS Executive R & D	£53,400
Baldwin, Jackson, Burns	Clinical and neuroanatomic predictors of poor antidepressant response to late-life depression	Research into Ageing	£93,981
Burns, McCollum, Macfarlane, Dunn, Jackson	Cerebral emboli and venous arterial circulation shunt (v-aCS) in dementia (MRM 56)	Wellcome Trust	£183,104
Cain/Jackson	Combining Lower Body Negative Pressure With Magnetic Resonance Imaging To Investigate Cerebral Vascular Autoregulation	Wellcome Fellowship	Approx £188k
Evans, James, Irving, Ramsden, Moffat, Read, Maher, Jackson	Molecular pathology and growth characteristics of vestibular schwannomas	CRC	£68,626
Jackson	Clinical trial of high resolution 3D MR imaging of the cochlea	Defeating Deafness	£85,547
Nicholson, Embleton, Jackson,	Evaluation of Crohn's disease by MRI	RCR	£4,800
Rabbitt, Pendleton, Jackson, Horan	Relating changes in brain structure to cognitive function in normal old age	Wellcome Trust	£393,228
Jackson, Jern et al	Visual data navigation in web documents: (SMARTDOC)	European Commission	£471,678
Jackson, Thacker, Jern et al	Network orientated visualisation in a clinical environment (NOVICE)	European Commission	£1,903,000
John, Jackson, Thacker	An Integrated Environment for Rehearsal and Planning of Surgical Interventions (IERAPSI)	European Commission	£2,279,432.35
Jackson, Ramsden, Grant	Multispectral analysis of acoustic neuromas	NWRHA R & D	£60,221
Horan, Pendleton, Rabbitt, Jackson	Cognitive Ageing	Wellcome Trust	£186,165
Leek, Jackson, Thacker	The neurobiology of high-level vision: behavioural and fMRI studies of object constancy (Bangor)	BBSRC	£11,400
Taylor, Jackson	MIAS-GRID: A medical image and signal grid	EPSRC	£494.41
Taylor, Astley, Beatty, Cootes, Graham, Jackson, Thacker	From medical images and signals to clinical information (IRC)	EPSRC	£1,854,217.54
Jayson, Dive, Jackson	Phase 1 evaluation of the novel a-tubulin binding anti-vascular compound CYT-997	CRUK	£52,571
O'Connor, Jackson, Parker, Jayson, Buckley	Non-invasive Assessment of the Temporal Relationship between Microvascular Heterogeneity and Tumour Growth	CRUK Clinical Fellowship	£196,774
Roberts, Benbow, Bisset, Cowan, Jackson, Lee, Traill	Diagnosis of cause of death in adults by post mortem imaging: a validation study	Dept of Health	201,522
Mills, Jackson	The use of MR biomarkers in brain tumours	CRUK Fellowship	Approx £300
Stivaros, Jackson	Language based decision support system for treatment planning in patients with sub-arachnoid haemorrhage	MRC	£84,000+
Jackson/Thompson	Multiparametric Imaging Biomarkers for Radiotherapy Planning in Glioblastoma Multiforme: Biomarker Discovery	CRUK – Clinical Fellowship	Approx £340k
McMahon A, Jackson A, Matthews J	European research initiative to develop imaging probes for early in-vivo diagnosis and evaluation of response to therapeutic substances (EURIPIDES)	European Commission	£277,200
Core Funding			
Jackson	High throughput computing in medical imaging	EPSRC	984,000
Gordon, Hastings, Jones, Price, Taylor, Tyrrell, Williams, Jackson	Institute for functional and molecular imaging	MRC	4,061.50
Taylor, Hutchinson, Jackson	AZ – ISBE Strategic Alliance	AstraZeneca	£681,158
Jackson	Diagnostic Imaging	DOH	£330,862
Jackson/ Parker	Research grant towards purchase of a new MRI Scanner	AstraZeneca	£400,000
Parker, Hutchinson, Jackson, Quinn, Seif	Dynamic MRI characterisation of endometriosis	Pfizer	38,000

Jackson	Reproducibility of T1 perfusion mapping in oncological applications	AstraZeneca	£100,000
G Parker, A Jackson, D Buckley	A Phase 1 Study of the human monoclonal antibody to the human integrin receptors avb3 and avb5 (CNTO 95)	Centocor	£158,357
G Parker, A Jackson, D Buckley	Phase II Open Label study to access the effect of CDP860	Celltech 860	£123,637
G Parker, A Jackson, D Buckley	Phase 1 open label study....Protocol CDP791-001	Celltech 791	£287,678
G Parker, A Jackson	Dynamic Contrast Enhanced (DCE)MRI study 0242-2	Amgen	£103,376
G Parker, C Hutchinson, A Jackson	Dynamic Contrast Enhanced MRI in endometriosis	Pfizer Ltd	£195,926
G Parker, A Jackson	Phase 1 Dose Escalation Study of BMS-582664 in Patients with Advanced or Metastic Solid Tumours	Bristol Myers Squibb	£75,281
G Parker, G Jayson, A Jackson	intra-tumour microvascular heterogeneity and its prognostic value in anti-VEGF receptor inhibition	GlaxoSmithKline	£197,005
G Parker, A Jackson	MagneticResonance Imaging (MRI) responses to AZD2171/00021	AZ	£108,000
Jayson/Jackson/Parker	MRI and soluble biomarker resonses to bevacizumab in patients with ovarian carcinoma	Roche	£4,784,000

INVITED REVIEWS, BOOK CHAPTERS and BOOKS

Jackson A and Jenkins JPR
MRI in low back pain
Invited review article for Clinical MRI, The practical journal of Magnetic Resonance (In Press).

Jackson A and Fawcitt RA
Imaging of Orbital Disease.
Invited Chapter in: Imaging of the head and neck. Eds Gillespie JE and Gholkar A.
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Chapter 29 page 511 In: Tumor Angiogenesis.
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Gray's Anatomy - 39th Edition
Editor in Chief: Susan Standring
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Gray's Anatomy - 40th Edition
Editor in Chief: Inta Ozols
Reviewed: Ventricular System
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COMMUNICATIONS TO LEARNED SOCIETIES
(*Presented by)

Jackson A* and Crossman AR. Interconnections of the basal ganglia with the peribrachial region in the rat.The Fourth Annual Meeting of the European Neurosciences Association 1980.

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Mills SJ, Soh C, Cheung S, O'Connor JP, Zhao S, Parker GJ, **Jackson A**. Quantifying the Proportion of Enhancement in Relation to IAUC Thresholds; a Comparison with Other Measures of Enhancement in Adult Gliomas. Proceedings of the ISMRM 2008: p3485

Petersen ET, Golay X, and The QUASAR Reproducibility Study (of which A Jackson is a member). Is Arterial Spin Labeling Ready for Prime Time? Preliminary Results from the QUASAR Reproducibility Study Proceedings of the ISMRM 2008: p191

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INVITED LECTURES

North West Regional Radiologists Association. Imaging the patient with low back pain 1990

North West Radiologists Association. Imaging the Orbit 1991

North of England Association of Opthalmology. The use of magnetic resonance imaging in the orbit. 1992

Central Manchester Audit Committee. Audit of imaging investigation of the failing haemodialysis shunt 1993

St Marys Hospital Radiology Audit Group. Audit Two Years On, Sucess or Failure? 1993

North West Regional Radiologists Association. Imaging of white matter disease 1992

Royal College of Ophthalmologists. The imaging of orbital trauma. 1993

North West Region School of Audiology, National course on imaging in audiology. 1993

- Imaging techniques
- The anatomy of the petrous bone
- Imaging strategies for acoustic schwannoma

North West Regional Radiologists Association. Advances in Magnetic Resonance Imaging. 1993

North West Regional Radiologists Association. Imaging the orbit. 1994

Royal College of Radiologists Introductory MRI Course. Glomus tumours and acoustic neuromas 1994

Regional Ophthalmologists Association, Stepping Hill Hospital. Imaging the orbit 1995

Rochdale Postgraduate Medical Society. Imaging in Headache. 1995

British Institute of Radiology, Refresher Course in Neuroradiology. The Orbit. 1995

The Sheffield Postgraduate Medical Society. Imaging in Orbital Disease. 1995

Manchester Geriatrics and Rehabilitation Group: Barnes Hospital. Imaging of Stroke. 1995

North West Regional Radiologists. The Ian Young Memorial Lecture. Imaging the Orbit 1995

Spinal Imaging including the Post-operative Spine Cervical spine radiology. Brititsh Institute of Radiology, London. 1996

Neurology. Synchrotron X-rays in Medicine Meeting. Warrington. 1996

Orbital MR. Ophthalmology Meeting. Manchester. 1996

Advances in magnetic resonance imaging. Royal College of Physicians of London, Regional Conference, Manchester, September 1997.

Assessment of patients with carotid occlusions. Philips Gyroscan Clinical Science Day “Flow in MR”, Leeds., October 1997.

MR imaging for cochlea implants. 3D Visualisation and Virtual Reality in Medicine, Institute of Laryngology, London, November 1997.

Advances in MRI in otology. Recent Advances in Imaging at the Summer Meeting of the Sections of Laryngology and Rhinology and Otology. Royal Society of Medicine, London, June 1998.

Magnetic resonance of orbital disease. Yorkshire Ophthalmic Working Group, Pontefract, October 1998.

CT & MRI: Basic principles of techniques and application, Neuroimaging Training Day, MRI, November 1998.

MRA for planning and follow up of endovascular coiling. Philips Medical Systems , 4th Philips Gyroscan Clinical Science Day, October 1999.

Quantifying microcirculation in tumours. Philips Medical Systems , 4th Philips Gyroscan Clinical Science Day, October 1999.

Dynamic contrast imaging in brain tumours. Why do we do it and how do we do it? Neuroradiology Study Day, Nottingham University, September 2000.

Dementias. 17th Annual Meeting of the European Society for Magnetic Resonance in Medicine and Biology, Paris, September 2000.

Getting it wrong: Things to avoid!Research Methodology Meeting, RCR, Royal Marsden Conference Centre, London, October 2000.

Basic principles – “The impact of computers and information technology on the future of imaging. European Seminars on Diagnostic and Interventional Radiology (ESDIR), Turkey, October 2000.

Angiogenesis – Pathology and Radiology. 7th Annual Meeting of the European Society of Musculoskeletal Radiology, Leiden, October 2000.

First pass imaging of tumours – 5th Clinical Science Day, Philips Medical Systems, Leeds, November 2000

Imaging function – advances in Magnetic Resonance Imaging. Manchester Medical Society. January 2001.

Advanced image processing: Virtual endoscopy. European Congress of Radiology, March 2001.

ENT Applications, ECR, March 2001

fMRI, Oral & Maxillofacial Conference Group, Wilmslow, April 2001

Visual symptoms and signs – how to image Royal College of Obstetricians and Gynaecologists, London, November 2001

Measuring endothelial permeability in hepatic tumours, Aberdeen, November 2001

Blood flow quantification, Philips Users Meeting, Groenendal, January 2002

Parametric images, ECR 2002,Vienna, March 2002

Contrast enhancement, ECR 2002, Vienna March 2002

Imaging of angiogenesis in brain tumours, Brussels, April 2002

Approaches to orbital imaging, Birmingham, UKRC, June 2002

Advances in neuro imaging of the elderly. Radiology 2002 Congress. Birmingham, June 2002

A new method for quantitative measurement of cerebral blood flow, UKRC, June 2002

The aging brain. UKRC June 2002.

Functional imaging of brain tumours, London, September 2002

Advances on MR imaging of perfusion permeability, London, November 2002

Attracting Money. Stimulating Radiology Research Meeting, London, November 2002

Functional imaging in tumours, London, December 2002

Attracting funding for radiology research, London, February 2003

Clinical Imaging. Brain injury research in Manchester: Activity and prospects Meeting. Manchester. March 2003.

Imaging microvasculature structure with contrast enhanced magnetic resonance imaging. 7th Sir Godfrey Hounsfield Lecture, BIR, London, May 2003

Exploring MR Data: an Introduction to Visualisation and Algorithmic Processing Techniques. Birmingham UKRC. June 2003.

Functional imaging of angiogenesis using magnetic resonance. Biotherapy of Cancer Meeting. Munich, September 2003

Tumoral neoangiogenesis – Clinical.20th Annual meeting of the ESMRMB, September 2003.

Practical applications of newer neuro MR techniques. "Hope of Hype? One-day Meeting of Diagnostic Methods Committee of the BIR. London, January 2004

New frontiers on imaging the injured brain in adults and children. Trauma Audit and Research Network Meeting, Manchester, February 2004

Characterisation of tumour microvasculature. 15th International Congress on Anti-Cancer Treatment, Paris, February 2004

Angiogenesis. State of the Art Symposium on Molecular Imaging, ECR March 2004

Brain tumour characterisation. ESMRMB, September 2004

Advanced Imaging Techniques, 3rd Physiological Flows Network Meeting, Oxford, May 2006

Grantsmanship: The Essentials. Grant Writing Session, ISMRM, May 2006

Developments in CT perfusion. UKRC, Birmingham. May 2006

Quantifying microvascular brain disease: identification of potential imaging-based biomarkers. MIUA, Manchester, July 2006

Advances impact on radiology. Blue Skies Lecture, RCR, London, September 2006

Image of brain tumours and recent developments. BSNR, Hull, October 2006

MR biomarkers of angiogenesis and microvascular structure in cancer. HMDP Visiting Expert Programme, Singapore, October 2006

Imaging in orbital disease. HMDP Visiting Expert Programme, Singapore, October 2006

Imaging microvascular disease in the brain – identification of quantitative biomarkers for drug development. HMDP Visiting Expert Programme, Singapore, October 2006.

MR biomarkers of cerebral microvascular disease. Imaging Event, Manchester, February 2007

Development of advanced MR imaging techniques for use in anti cancer drug development. British Chapter of the ISMRM, Birmingham, September 2007

Picking a project and getting started: Choice of project area of interest, collaborators and supervisor. RCR Research Day – How to get started in Research. RCR, London, November 2007.

Biomarkers in microvascular disease. BSNR, Manchester, October 2008

Imaging features related to small vessel abnormalities and their effects on the brain, Psychology Department, Edinburgh University, March 2009

Advanced MRI on drug development. 4th Annual Imaging in Clinical & Pre-clinical Drug Development Conference, San Fransisco, March 2009

Imaging Biomarkers in oncology: an introduction. 14th BII Symposium – Cancer Imaging, Manchester, March 2009

"Clinical applications of MRI", Mayneord-Phillips Summer School 21st century radiotherapy : State-of-the-art and predicting the future session, Oxford, July 2009

"Clinical applications of MRI", Liverpool Medical Imaging Network Group, Liverpool, September 2009

"Imaging of dementia in the elderly brain", RCR 2009 Clinical Radiology Annual Scientific Meeting - Session Title Imaging of the Old Age, London, September 2009

“Key advances in Research and Treatment of Brain Tumours". Royal Society of Medicine Symposium, London, November 2009

“Role of PET, CT and combined technology in oncology”, MRI Angio and Neuro Council Meeting, Boston, March 2010

“MR based characterisation of the tumour microenvironment, case study in cerebral gliomas”, Oxford, March 2010

"Developing an Academic Research Career: Obstacles + Approaches" RCR Training Day, London, April 2010

"Functional imaging: In Vivo evidence of therapeutic effects" RCP, London, May 2010

‘Measurement of tumour vascular support in early phase clinical trials’", ECMC Imaging and Angiogenesis Workshop, RCP, London, May 2010

“Probing tomoural vascular microenvironment using DCE-MRI - clinical and research applications”, Symposium on Imaging and Angiogenesis, Austria, June 2010

MEMBERSHIP OF LEARNED SOCIETIES

Manchester Medical Society

British Institute of Radiology

British Medical Association

Royal College of Radiologists

Royal College of Physicians

British Society of Neuroradiology

North of England Neurology Association

United Kingdom Neuro-interventionalists Group

British Chapter of the ISMRM

International Society of Magnetic Resonance in Medicine

Clinical Magnetic Resonance Society

Royal Society of Medicine

Radiological Society of North America