

CURRICULUM VITAE

ANTHONY KENNETH PETER JONES

**CONSULTANT RHEUMATOLOGIST
PROFESSOR OF NEURO-RHEUMATOLOGY**

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A PERSONAL RECORD

A1 Full Name: ANTHONY KENNETH PETER JONES

A2 Date of Birth: 20th October 1952

A3 Education – schools and universities attended:

Music Scholar, King's School, Canterbury	1966 - 1970
Hertford College, Oxford	1971 - 1975
Guy's Hospital Medical School	1975 - 1978

A4 Qualifications – academic and professional – and membership of bodies:

Qualifications:

M.A	1975 - Oxford
MB BS	1978 - London
MRCP	1981 - UK
MD	1992 - London
FRCP	1996 - UK

Title of MD Thesis:

The Development of Methods to Study the Central Physiology and Pharmacology of Pain in Man and their Application to Normal Subjects and Patients with Rheumatoid Arthritis

Additional postgraduate education and awards:

Academic Awards/Prizes:

1984 - 1985 Synthelabo Trust Research Fellowship

1993 Award for “The technique with the most promise for the future” at IASP sponsored symposium on “Touch, temperature and pain in health and disease” Wenner-Gren Centre, Stockholm

Membership of Professional bodies:

- Royal College of Physicians
- British Society for Rheumatology
- Pain Society
- International Association for the Study of Pain (IASP)
- European Federation of the International Association for the Study of Pain - (EFIC)
- British Neuroscience Association
- Psychophysiology Association
- Euroscience
- Trigeminal Neuralgia Association
- Trustee & Director – ARMA (the Arthritis and Musculoskeletal Alliance)

A5 Previous employment and appointments held:

Prior to my appointment at Manchester I held an academic post at the Royal Postgraduate Medical School, Hammersmith for 5 years as an MRC Clinical Scientist, Honorary Senior Lecturer and Consultant.

- 1988 - 1993** MRC Clinical Scientist, MRC Cyclotron Unit & Honorary Senior Lecturer, Royal Postgraduate Medical School, Honorary Consultant Rheumatologist, Hammersmith Hospital Honorary Consultant Rheumatologist, St Bartholomew's Hospital.
- 1986 - 1988** Senior Registrar, Rheumatology and General Medicine, St Bartholomew's Hospital and Whipp's Cross Hospital, London (Dr Huskisson, Dr Doyle).
- 1985 - 1986** MRC Clinical Scientist, MRC Cyclotron Unit on secondment to Service Hospitalier Frederic-Joliot (Commissariat a l'Energie Atomique) Orsay, Paris, France & Hon Senior Registrar, Dept of Rheumatology, St Bartholomew's Hospital
- 1984 - 1985** Research Fellow, MRC Cyclotron Unit: Hammersmith Hospital & Honorary Registrar, Rheumatology, St Bartholomew's Hospital
- 1983 - 1984** Registrar General Medicine and Diabetology Professorial Medical Unit, Hackney Hospital (Prof Dickinson)
- 1982 - 1983** Registrar General Medicine and Gastroenterology: Hackney Hospital (Dr Fairclough, Dr Newcomb, Dr Kumar)
- 1981 - 1982** Senior House Officer in Oncology Royal Free Hospital (Dr Boessen)
- 1980 - 1981** Senior House Officer General Medicine and Cardiology, Royal Free Hospital (Dr Evans, Dr Symons)
- 1980** Senior House Officer Renal Medicine, Guy's Hospital (Prof Cameron, Dr Ogg)
- 1980** Senior House Officer General and Thoracic Medicine, Chest Unit, New Cross Hospital (Prof Clark, Dr Cochrane)
- 1979 -1980** Senior House Officer Neurology: St. Mary's Hospital, London (Sir R Bannister, Dr Thomas)
- 1979** House Officer: Medicine, Lewisham Hospital, London
- 1978 – 1979** House Officer, Surgery, Guy's Hospital, London

A6 Present appointment: Professor of Neuro-Rheumatology, University of Manchester, and Honorary Consultant Rheumatologist Hope Hospital, commenced 1993.

A7 Visiting appointment: Honorary Adjunct Professor, 1995-97: University of Pittsburgh Imaging Centre and Dept. of Anaesthesia, Pittsburgh, Pennsylvania, USA.

B TEACHING

B1 Current departmental teaching duties; undergraduate and graduate:

Undergraduate:

I am substantially involved in the teaching of undergraduate medical students both in regular bedside clinical teaching and project supervision.

- Regular supervision of medical student 3rd year projects.
- Undergraduate mentor.
- Regular medical student bedside teaching sessions.
- Regular outpatient teaching.
- I have initiated teaching laboratory sessions with patient partners and students.
- Supervision of clinical student Grand Rounds.
- Supervision of Special Study Modules and attendance at their presentations.

Graduate:

I am involved in training rheumatology trainees and on visiting trainees from overseas on a weekly basis in outpatients, which has structured teaching and discussion as part of each outpatient session.

- Supervision of Postgraduate Students: currently 4 PhD students.
- Ad hoc PhD examiner; Universities of Manchester, Oxford and Stockholm, Imperial College.

B2 Other teaching; internal and external:

- Organiser of British Society for Rheumatology 2 Day Course; "Pain for Rheumatologist and allied health professionals". November 1994 and December 1996 Manchester.
- MRCPsych Course, Manchester; MSc Course Rheumatology, Guys and Manchester, 1998.
- Regular evening seminars on the management of Musculoskeletal and Neuropathic Pain to Local and National Primary Care Community including recent launch of 'Guidelines for Pharmacological Management of Musculoskeletal Pain' for primary and secondary care.
- Invited teaching seminar: "Cortical processing of pain" – International Association for the Study of Pain (IASP), Refresher Course Syllabus, IASP Meeting, Sydney, August, 2005.

Internal lectures

- Invited lecturer on the Manchester MRC Psychiatry Part 1 Course – 1996 -
- Invited lecturer Manchester MSc Neuroscience Course.
- Regular contribution to MSc in Rheumatology.

External lecture courses

- Invited lecturer on MSc courses in Nuclear Medicine and also MRCPsych Course, The Middlesex Hospital, London.
- Feedback on MSc teaching: where this has been available has been good to excellent with recurrent invitations.

B6 Examination responsibilities:

- Regular attendance on 4th year OSCE exams
- Examiner – 5th year medical student final examinations
- Examiner – 1st year medical student special study module dissertation
- Examiner – 4th year medical student research project option theses

B9 Voluntary activities with students:

I participated in the BA Science Festival 2003 in Salford where I participated in a Symposium aimed at schoolchildren called “Inside your brain: blue skies to better lives” (convened by Prof Nancy Rothwell). I have been involved in a number of projects aimed at school children and young scientists.

B10 Statement on Teaching:

Current university teaching activities include regular undergraduate and post-graduate teaching. Over the last five years the work from our group and those of our colleagues, and the seminars that we have given nationally and internationally, have resulted in a slow but substantial shift of interest to pain physiology and pain management issues in the European Rheumatology and Neurology Communities. This has resulted in the Group being commissioned by the British Society for Rheumatology and the International Society for the Study of Pain (IASP) to develop “Integrated Guidelines for the Management of Musculoskeletal Pain”.

Specialist registrars in rheumatology are taught in the multidisciplinary musculoskeletal pain and inflammatory arthritis clinics that I have set up in parallel to the formal teaching they get on the ward and in the Rheumatology MSc course.

Now that the ARC programme grant has been established we have plans, which are at an early stage, to develop a teaching website on the principles of pain physiology and musculoskeletal pain management. We would plan to do this in conjunction with our colleagues in the Dept of Anatomy, ARC Epidemiology Unit and the Royal College of Physicians and IASP. Chairman of IASP Musculoskeletal Pain Taskforce. This is an international group which is focussed on developing and promoting the guidelines - driven management of Musculoskeletal Pain workshops and seminars at international and national meetings. We plan to do this at the same time as holding a number of National and International meetings to develop and promote the “Integrated Guidelines for the Management of Musculoskeletal Pain”.

C1 Conference contributions, refereed:

- 1 Pike VW, Turton DR, Luthra SK, **Jones AKP**, White AC. (1985). The preparation of carbon-11 labelled analgesic (N-methyl ¹¹C) meptazinol. Nucl Med Commun; 6:545.
- 2 **Jones AKP**, Pike VW, Luthra SK, Brady F, Jones T, Rees LH, Turner P, Dickinson CJ, Herold S, Lammertsma AA, Maziere B, Frackowiak R. (1985) ¹¹C-diprenorphine and positron emission tomography: a new technique for the quantitative imaging of cerebral opioid binding sites in man. 23rd Int Meeting of Soc of Nucl Medicine.
- 3 **Jones AKP**, Luthra SK, Maziere B, Pike VW, Loc'h C, Stulsaft D. (1988) In vivo opioid receptor binding in rats and man using ¹¹C-diprenorphine. Br J Clin Pharm; 25:119.
- 4 **Jones AKP**, Luthra SK, Maziere B, Pike VW, Loc'h C. (1987) Bridging the gap between animal and human opioid physiology. Neuroscience; S8:22.
- 5 **Jones AKP**. (1987) Progress in techniques to measure in vivo changes in the central opioid system in man. Brit J Rheum; 26: S2:47.
- 6 Al-Janabi MA, Sobnack R, **Jones AKP**, Solanki J, Bomanji J, Al-Nahhas AM, Britton KE. (1988) Quantitative Tc 99m-HMPAO radioleucoscintigraphy in rheumatoid arthritis. Nucl Med Commun; 9:185.
- 7 Al-Janabi MA, **Jones AKP**, Britton KE, Solanki K, Sobnack R, Bomanji J, Al-Nahhas AM, Huskisson E. (1988) Quantitative uptake of Tc-99m HMPAO labelled leucocytes in Rheumatoid arthritis. Nuclearmedizin. In press.
- 8 **Jones AKP**, Al-Janabi MA, Solanki K, Sobnack R, Greenwood A, Doyle DV, Britton KE, Huskisson EC. (1989) Comparison of response to local steroid injection in the rheumatoid knee using Tc-99 MDP and Tc-99-HMPAO labelled neutrophils. Brit J Rheum; 26 S1 55.
- 9 **Jones AKP**, Al-Janabi MA, Solanki K, Sobnack R, Greenwood A, Doyle DV, Britton KE, Huskisson EC. (1989) In vivo neutrophil chemotaxis relates to in vivo neutrophil migration in patients with rheumatoid arthritis. Brit J Rheumatol; 26: S1 48.
- 10 **Jones AKP**, Cunningham VJ, Luthra SK, Myers R, Manjil LG, Pike VW, Cremer JE (1990). Relative deficiency of in vivo opioid receptor binding in the human primary motor-sensory cortex. Clin Sci; 79 Suppl:25.
- 11 **Jones AKP**, Rajeswaran S, Hume SP, Cremer J, Bailey D, Jones T. (1990) Dynamic monitoring of ¹¹C-diprenorphine in the rat brain using a prototype positron imaging device. Clinical Sci;79 Suppl: 26.
- 12 **Jones AKP**, Friston KJ, Qi Liyi, Brown D. (1990) Cortical and subcortical localisation of specific response to pain in normal volunteers. Brit J Rheumatol; 29 Suppl: 68.

- 13 **Jones AKP**, Brown WD, Friston KJ, Qi Liyi, Cunningham VJ, Frackowiak RSJ. (1991) Cortical and subcortical localisation of specific response to pain in normal volunteers. *J Cereb Blood Flow Metab Vol 2. Supl. 2*: 849.
- 14 **Jones AKP**, Bartenstein PA, Qi Liyi, Fujiwara T, Duncan JS, Luthra SK, Hutton B, Jones T. (1991) ^{11}C -Diprenorphine as a regional bioassay of cerebral opioid peptide release in man. *J. Cereb. Blood Flow Metab. Vol 2. Supl. 2*: 620
- 15 Cunningham VJ, Fujiwara T, Luthra SK, Jones T and **Jones AKP**. (1991) A procedure and compartmental analysis for measuring cerebral kinetics of ^{11}C -diprenorphine in man. *J. Cereb. Blood Flow Metab. Vol 2. Supl. 2*: 619.
- 16 S Osman, HJ Danpure, **AKP Jones**, M. Gwilliam, S Silva, MJ Myers. (1991) Use of ^{111}In -tropolonate- labelled granulocytes for the quantitative measurement of inflammation in joints of patients with rheumatoid arthritis before and after steroid treatment and comparison with $^{99}\text{Tc}^{\text{m}}$ - HMPAO-labelled mixed leucocytes. *Nucl. Med. Comm.*, 12, 263.
- 17 **AKP Jones**, S Osman, S Silva, M Gwilliam, HJ Danpure, MJ Myers (1991) Quantitation of granulocyte migration in patients with rheumatoid arthritis in response to intra-articular steroid injection using pure ^{111}In -labelled granulocytes. *Brit. J. Rheumatol.* 30, Sup 1, 26.
- 18 Derbyshire SWG, **Jones AKP**, Brown WD, Devani P, Friston KJ, Qi LY, Frackowiak RSJ. (1992) Cortical and subcortical responses to pain in male and female volunteers measured by Positron Emission Tomography. *Scand. J. Rheumatol.*, S94, A152.
- 19 **Jones AKP**, Derbyshire SWG, Devani P, Friston KJ, Qi LY, Feinman C, Harris M, Frackowiak RSJ. (1992) Cerebral responses to pain in patients with atypical facial pain measured by Positron Emission Tomography. *Scand. J. Rheumatol.*, S94, A153.
- 20 Tadokoro M, **Jones AKP**, Cunningham VJ, Sashin D, Grootoenk S, Ashburner J, Jones T. (1993) Parametric images of [^{11}C]diprenorphine binding using spectral analysis of dynamic PET images acquired in 3D. *Ann. Nucl. Med.*, 7: S50-51.
- 21 Derbyshire SWG, **Jones AKP**, Devani P, Friston KJ, Feinman C, Harris M, Pearce S, Frackowiak RSJ. (1993) Cerebral responses to pain in patients with atypical facial pain. *J. Cereb. Blood Flow Metab.*, 13, S799.
- 22 **Jones AKP**, Cunningham VJ, Ha-Kawa S, Qi I, Fujiwara T, Luthra S, Jones T. (1993) Increases in central opioid receptor binding with relief of inflammatory pain in man demonstrated by PET and [^{11}C]Diprenorphine. *J. Cereb. Blood Flow Metab.*, 13, S792.
- 23 Derbyshire SWG, **Jones AKP**, Brown WD, Devani P, Friston KJ, Pearce S, Frackowiak RSJ. (1993) Cortical and subcortical responses to pain in male and female volunteers. *J. Cereb. Blood Flow Metab.*, 13, S546.

- 24 Cunningham VJ, **Jones AKP**, Tadokoro M, Grootoink S, Ashburner J, Jones T. (1993) Spectral analysis of dynamic quantitative PET images acquired in 3D are used to generate parametric images of [¹¹C]diprenorphine binding. *J. Cereb. Blood Flow Metab.*, 13, S252
- 25 **Jones AKP**, Cunningham VJ, Ha-Kawa S, Qi L, Fujiwara T, Luthra S, Jones T (1993) Increased central opioid receptor binding with relief of inflammatory pain. Abstracts -7th World Congress on Pain. IASP Publication: Seattle: 45.
- 26 Bushnell MC, Casey KL, **Jones AKP**, Price DD. Imaging pain. (1993) Abstracts - 7th World Congress on Pain. IASP Publication: Seattle: 236.
- 27 Derbyshire SWG, **Jones AKP**, Brown WD, Devani P, Friston KJ, Qi LY, Pearce S, Frackowiak RSJ, Jones T. (1993) Cortical and subcortical responses to pain in male and female volunteers. Abstracts -7th World Congress on Pain. IASP Publication: Seattle. 500.
- 28 Derbyshire SWG, **Jones AKP**, Brown WD, Devani P, Friston KJ, Feinman C, Harris M, Pearce S. (1993) Cerebral responses to pain in patients with atypical facial pain. Abstracts -7th World Congress on Pain. IASP Publication: Seattle: 261.
- 29 **Jones AKP**, Cunningham VJ, Ha-Kawa S, Qi L, Fujiwara T, Derbyshire SWG, Luthra S, Jones T. (1993) Increases in central opioid receptor binding with relief of pain in RA. *Br. J. Rheumatol.*, 32, Suppl. 2, 20.
- 30 **Jones AKP**, Derbyshire SWG, Pearce S. (1993) Reduced central responses to pain in patients with rheumatoid arthritis. *Br. J. Rheumatol.*, 32, Suppl. 2, 20.
- 31 Derbyshire SWG, **Jones AKP**, Friston KJ, Spinks T, Frackowiak RSJ. (1994) Physical principles of positron emission tomography and the analysis of activation studies. *Brit. Psychophysiology Soc. Newsletter Dec.* p31.
- 32 Derbyshire SWG, **Jones AKP**, Devani P, Friston KJ, Feinman C, Harris M, Frackowiak RSJ. (1994) Cerebral responses to pain in normal volunteers and patients with pain disorders measured by Positron Emission Tomography. *Brit. Psychophysiology Soc. Newsletter Dec.* p62.
- 33 Jones A, **Jones AKP**, Hughes DG, Robinson L, Sykes JR, Derbyshire SNG, Chen ACN. (1995) Functional magnetic resonance imaging at 1 Tesla in the study of pain. *Proc. Soc. of Mag. Res.* 3rd Scientific Meeting.9 (Society of Magnetic Resonance, Berkley) Nice. P. 149.
- 34 Chen ACN, Jayson M, **Jones AKP**. (1995) Can we isolate EEG activity related to ongoing pain in the brain? *Br. J., Rheumatol.*, 34 Supl 2: 13.
- 35 Chen ACN, Watson P, Booker K, Main C, **Jones AKP**, Jayson MIV. (1995) Differential sEMG responses in chronic low back pain (CLBP) patients. *Am. Coll. Rheumatol.*

- 36 **Jones AKP**, Derbyshire SWG, Apkarian AV, Jones T (1995) Cerebral responses to a continuous tonic pain stimulus measured using positron emission tomography. *J. Cereb. Blood Flow Metab.*, 15(S1), S860.
- 37 Derbyshire SWG, **Jones AKP**, Vogt BA, Frackowiak RSJ (1995) An investigation of central processing with the stroop task and pain using positron emission tomography. A within subjects design. *J. Cereb. Blood Flow Metab.*, 15(S1), S45.
- 38 Townsend DW, Derbyshire SWG, S Clark, TE Nichols, MA Mintum, AKP Jones. (1996) The state of the ART. *J Nucl Med (Suppl)* 3.
- 39 Craig AD, Kenshalo DR, Coghill RC, **Jones AKP**. (1996) Cortical representation of pain. 8th World Congress on Pain. IASP Press. 104.
- 40 Derbyshire SWG, **Jones AKP**, Clark S, Gyulai F, Firestone L, Townsend D, Mintum M. (1996) Cerebral responses to laser pain stimulation measured using positron emission tomography (PET). 8th World Congress on Pain. IASP Press. 443.
- 41 **Jones AKP**, Derbyshire SWG, Jones AP, Hughes DG, Robinson L, Chen A. (1996) Cerebral responses to pain measured using functional magnetic resonance imaging at 1Tesla. 8th World Congress on Pain. IASP Press. 445.
- 42 Chen ACN, Clark S, Bentley DE, Dickens C, Derbyshire SWG, **Jones AKP**. (1996) Temporo-spatial brain mapping of laser evoked potential (LEP) in pain processing. 8th World Congress on Pain. IASP Press. 337.
- 43 Clark S, Chen ACN, Bentley DE, Dickens C, Derbyshire SWG, **Jones AKP**. (1996) Laser in the study of neuroimaging and brain mapping of human pain. 8th World Congress on Pain. IASP Press. 446.
- 44 Derbyshire SWG, **Jones AKP**, Jones AP, Hughes DG, Robinson L, Brett D, Chen A. (1997) Cerebral responses to pain measured using functional magnetic resonance imaging at 1 Tesla. *Brit J Rheumatol* 36 (Suppl 1) 206.
- 45 Chen ACN, Clark S, Bentley D, Dickens C, Jayson MIV, **Jones AKP**. (1997) Pain and ERP mapping: amplitude and coherence topography. *Brit J Rheumatol* 36 (Supl 1) 204.
- 46 Derbyshire SWG, **Jones AKP**, Clark S, Townsend D, Firestone L, Gyulai F, Jayson MIV. (1997) Cerebral responses to laser pain stimulus measured using positron emission tomography. *Brit J Rheumatol* 36 (Suppl 1) 120.
- 47 Chen ACN , Clark S, Jayson MIV, **Jones AKP**. (1997) Fixed vs random stimulation in pain-related laser evoked potentials: effects of certainty and uncertainty. II Congress of the European Federation of IASP Chapters, EFIC. 100
- 48 Bentley D, Chen ACN, Crossman AR, **Jones AKP**. (1997) Event-related potentials indicative of motor suppression in humans: implications for pain processing. II Congress of the European Federation of IASP Chapters, EFIC, 133
- 49 **Jones AKP**. (1997) Imaging Pain: new insights into the causes of pain. II Congress of the European Federation of IASP Chapters, EFIC, 291

- 50 Jones AKP (1997) Pain in rheumatological conditions. II Congress of the European Federation of IASP chapters, EFIC, 303
- 51 Derbyshire SWG, **Jones AKP**, Clark S, Townsend, F Gyulai, Firestone L, Jayson MIV. (1997) What is the relation between pain, stimulus intensity and cerebral activation? II Congress of the European Federation of IASP chapters, EFIC, 303
- 52 Chen ACN, Bentley DE, Clark S, Derbyshire SWG, Dickens C, Crossman AR, **Jones AKP** (1998) Identification and localisation of nociceptive processing in the human brain. Brit J Rheumatol 37 (Abstract Suppl 2) 28.
- 53 Derbyshire SWG, Clark S, Firestone L, Gyulai F, Townsend D, **Jones AKP**. (1998) Attenuation of laser pain by fentanyl correlated with changes in cerebral response. Brit J Rheumatol 37 (Abstracts Suppl 2) 12.
- 54 Bentley DE, Youell PD, Carson KJ, Crossman AR, **Jones AKP** (1998) Identification and localisation of nociceptive processing in the human brain. Journal of Psychophysiology – in press
- 55 Derbyshire SWG, **Jones AKP**, Creed F, Starz T, Meltzer CC, Townsend DW & Firestone L (1999) Cerebral responses to noxious thermal stimulation are the same in chronic low back pain patients as normal controls. J. Cerebral Blood Flow and Metabolism, 19(S1), S123.
- 56 Derbyshire SWG, **Jones AKP**, Creed F, Starz T, Meltzer CC, Townsend DW, Firestone L (1999) Cerebral responses to noxious thermal stimulation are the same in chronic low back pain patients as normal controls. IASP Publications – 9th World Congress on Pain Abstracts – in press.
- 57 Gamble G, **Jones AKP**, Tyrrell P, Bowen A, Bowsher D (1999) Post stroke shoulder pain: Possibly more common than previously realised. IASP 9th World Congress on Pain. Abstract; 326:97
- 59 Bentley DE, Youell PD, Carson KJ, Crossman AR, **Jones AKP** (1999) Spatial and temporal localisation of pain processing in the human brain. XIV EULAR Congress Abstracts
- 60 Mahmoud EA, Abdel Motaal MG, Kamal MM, Bennett R, Watson P, Al Janabi M, **Jones AKP** (1999) The relationship between pain and inflammation in patients with rheumatoid arthritis (RA). XIV EULAR Congress Abstracts
- 61 Bowden A, **Jones AKP**, Griffin K. Assessing the efficacy of acupuncture in treating chronic unilateral soft tissue shoulder pain. XIV EULAR Congress Abstracts
- 62 Tyrrell P, Gamble G, Barberan E, **Jones AKP**. (1999) Maximising the number of patients for stroke research projects: taking all comers. BASP Abstracts; 9.
- 63 Youell PD, Bentley DE, Clark S, Dickinson MR, King TA, **Jones AKP**. (1999) Laser pain stimulation. Quantum Electronics & Photonics Conference. September Manchester

- 64 Bentley DE, Youell PD, Crossman AR, **Jones AKP**. Identification of a possible motor suppression component of pain evoked potentials. J. Psychophysiology, Abstract in press.
- 65 Bentley DE, Youell Pd, Crossman AR, **Jones AKP**. (2000) Evidence for a movement suppression component of human pain evoked potentials? Abstract. Eur J Neuro 12(11), p483
- 66 Youell PD, Bentley DE, King TA, **Jones AKP**. (2000) Manipulation of the affective components fo the pain experience using laser stimulation. Eur J Neuro. 12(11), p70.
- 67 Youell PD, Wise R, El-Badry M, King TA, Dickinson MR, Tracey I, **Jones AKP**. (2000) Lateralisation of nociceptive processing in the human brain: a functional magnetic resonance imaging study. Third Congress of the European Federation of IASP Chapters (EFIC) Nice.
- 68 Bentley DE, Youell PD, Crossman AR, **Jones AKP**. (2000) Pain evoked potentials: possible evidence for a movement suppression component? Poster Third Congress of the European Federation of IASP Chapters, Nice, France. Sept.
- 69 Bentley DE, **Jones AKP**. (2001) Consistent localisation of high-density pain evoked potential recordings in cingulate cortex, using realistic head models. BPPS Abstract; 9/ .
- 70 Stergioulas LK, Reoullas M, Xydeas CS, Baltas E, Bentley D, Youell P, **Jones AKP**. (2002) Coherence Pattern Classification Using LVQs for Pain Detection. 16th Biennial International Eurasip Conference Biosignal .
- 71 Kulkarni B, **Jones AKP**, Elliott R, Bentley DE, Derbyshire SWG, Youell PD et al. (2002) Cortical processing of affective versus sensory-discriminative aspects of pain - a PET study. Proceedings of the 10th World Congress on Pain, IASP Press, 378.
- 72 Watson A, **Jones AKP**, Bentley DE, Vogt B, Porro C. (2005) Placebo-Induced Reduction of Pain Intensity and Unpleasantness Ratings of a Laser Stimulus. J. Psychophysiology Volume 19(1) p63-64.
- 73 Boyle Y, Bentley DE, Watson A, **Jones AKP**. (2005) The Differential Effects of Distraction from Pain Localization Versus Pain Unpleasantness on Laser-Evoked Potentials. J. Psychophysiology Volume 19(1) p64.
- 74 Nadeau V Abraham AD, Watson A, Bentley D, **Jones AKP**. (2005) Does the Intensity of a Painful Heat Stimulus Affect the Ability to Localize it ?. J. Psychophysiology Volume 19(1) p69.
- 75 Brown C, Bentley D, Boyle Y, Watson A, Kulkarni B, Boger E, **Jones AKP** (2005). The Expectancy of Pain in Fibromyalgia, Osteoarthritis & Healthy Volunteers. J of Psychophysiology Volume 10 (1) p67.
- 76 **Jones AKP**. The Role of The Cerebral Cortex in Pain Perception. Proceedings of the 11th World Congress on Pain, IASP Press, 2005.

77. Watson A, El-Derey W, Bentley D, Boyle Y, Vogt B, **Jones AKP** (2005). Placebo-induced reductions in pain ratings & laser evoked potentials. Poster 11th World Congress on Pain IASP, Sydney, Australia 2005.
78. Brown C, Boyle Y, Watson A, Bentley D, **Jones AKP** (2005). The expectancy of pain: Modulation by intensity and uncertainty. Poster 11th World Congress on Pain IASP, Sydney, Australia 2005.
79. Bentley D, Baumgartner U, Watson A, Barrett G, Kulkarni B, Youell P, **Jones AKP**, Treede R-D, 2005. Early involvement of right operculo-insular cortex in processing pain unpleasantness: evidence from laser evoked potentials. Poster 11th World Congress on Pain IASP, Sydney, Australia 2005.
80. Nadeau V, Abraham A, Watson A, Bentley D, Boyle Y, **Jones AKP**, 2005. Ability to localise a heat stimulus is dependent on stimulus intensity. Poster 11th World Congress on Pain IASP, Sydney, Australia 2005.
81. Boyle Y, Bentley D, Watson A, **Jones AKP**, 2005. Modulation of pain affect, spatial discrimination and laser evoked potentials by distraction. Poster 11th World Congress on Pain IASP, Sydney, Australia 2005.
82. Trujilli-Barreto N, Boyle Y, El-Derey W, Bentley D, **Jones AKP**, 2005. Modulation of medial and lateral pain systems by noise distraction. Poster 11th World Congress on Pain IASP, Sydney, Australia 2005.
83. El-Derey W, Boyle Y, Bentley D, **Jones AKP**, 2005. Modulation of laser evoked potentials frequency response to pain localisation, affect and distraction. Poster 11th World Congress on Pain IASP, Sydney, Australia 2005.
84. Bentley D, Baumgartner U, Watson A, Barrett G, Kulkarni B, Youell P, **Jones AKP**, Treede R-D, 2005. Early involvement of right operculo-insular cortex in processing pain unpleasantness: evidence from laser evoked potentials. *Brain Topography*, 17 (3) 2005.

Edited Works: Contributions

- 1 **Jones AKP**, Maziere B (1989). In vivo quantitation of central receptor binding in man using positron emission tomography. In: *Recent Advances in Pharmacology*, Ed. P Turner, GN Volans. Churchill Livingstone, p. 1-18.
- 2 **Jones AKP**, Friston K, Dolan R. (1991) PET as a research tool in the investigation of psychological disorders. In *Psychoneuroendocrinology*. Ed. A Grossman. Bailliere's Clinical Endocrinology and Metabolism International Practice and Research. Vol 5. 187-203.
- 3 **Jones AKP**. (1991) Dextromethorphan (monograph). In *Therapeutic Drugs: a clinical pharmacopoeia*. Ed. Sir Collin Dollery. Churchill Livingstone; 1, 63-66.
- 4 **Jones AKP**. Phenazocine (1991) (monograph). In *Therapeutic Drugs: a clinical pharmacopoeia*. Ed. Sir Collin Dollery. Churchill Livingstone; 2, 50-52.

- 5 **Jones AKP**, Derbyshire SWG. Positron Emission Tomography (PET) as a tool for understanding the cerebral processing of pain. In: Boivie J, Hansen P, Lindblom U (Eds.), Touch, Temperature and Pain in Health and Disease, Progress in Pain Research and Management, Vol 3, IASP Press, Seattle, 1994: 491-520.
- 6 **Jones AKP**, Derbyshire SWG. Cortical and thalamic imaging in normal volunteers and patients with chronic pain. In: Besson JM, Guilbaud G, Ollat H (Eds.), (1995) Forebrain areas involved in pain processing. John Libbey Eurotext, Paris: 229-238.
- 7 **Jones AKP**, Derbyshire SWG. (1995) PET Imaging of pain related somatosensory cortical activity. In: Pain and the Brain, from Nociception to Sensation. Eds: Bromm B, Desmedt J. Raven Press; New York: 213-228.
- 8 SWD Derbyshire, Chen ACN, **Jones AKP**. (1994). Somatosensory and frontal cortical processing during pain experience. In: Somesthesia and the neurobiology of the somatosensory cortex: Proceedings of an International Symposium at the Wenner-Gren Centre, Stockholm, Aug 29-31, Eds: Franzen O, Johansson R, Terenius L. Birkhauser Verlag AG, Basel.
- 9 **Jones AKP**. Jan 1997 ARC Topical Reviews. Pain and its perception. No.10
- 10 **Jones AKP**. (1999) The contribution of functional imaging techniques to our understanding of rheumatic pain. In: Rheumatic Disease Clinics of North America; Vol 25, No 1. Eds: Bradley L, Pissetsky DS.
- 11 **Jones AKP**. (2001) The Future of Imaging in Assessment of Chronic Musculoskeletal Pain. In: Handbook of Pain Assessment Second Edition. Eds: Turk DC, Melzack R. Guilford Press, New York: 693-704
- 12 **Jones A**, Kulkarni B, Perry E. (2003) Pain Management. In: The Year in Rheumatic Disorders, Eds. Scott D, Cope A.
- 13 Deborah E. Bentley, Ulf Baumgärtner, Alison Watson, Geoff Barrett, Bhavna Kulkarni, Paula D. Youell, Tanja Schlereth, **Anthony K.P. Jones**, and Rolf-Detlef Treede. The time-course of sensory and affective pain processing: evidence from laser-evoked potentials. Proceedings of the 11th World Congress on Pain, Editors: Herta Flor, Eija Kalso and Jonathan Dostrovsky, IASP Press (Seattle), in press 2006.

Editorships: Journal

- I am on the Editorial Board of European Journal of Pain and am a founder member of that board.
- Member of the Editorial Board of “Recent Patents on Central Nervous System Drug Discovery” – Bentham Science Publishers

Journal letters, notes and editorials

- 1 Coombes GM, The LS, Denton J, Johnson AS, **Jones AKP**. 1996 (case report). Mycobacterium xenopi- an unusual presentation as tenosynovitis of the wrist in an immunocompetent patient. Brit J Rheumatol 35: 1008-1010.
- 2 Derbyshire SWG, **Jones AKP**. 1996. Neurological Picture: Opiate receptors in the brain. J. Neurol. Neurosurg. Psychiat. 57: 1165.
- 3 **Jones AKP** New insights into human pain physiology [Editorial]. Brit J Rheumatol 1992;31: 289-92.
- 4 **Jones AKP**. The pain matrix and neuropathic pain [Editorial]. Brain 1998;121: 783-84
- 5 Gamble GE, **Jones AKP**, Tyrell P. (Letter) Shoulder pain after stroke: case report and review. Ann Rheum Dis 1999; 58: 451
- 6 LS Teh, GM Coombes, RH MacDonald, RJ Prescott, DM Dietch, **AKP Jones**. (Letter) Acute sarcoidosis: a difficult diagnosis. Rheumatology 2000; 39:

Academic Journal Papers

No.	Journal Papers	Impact factors
1	Jones AKP , Luthra SK, Pike VW, Herold S, Brady F. New Labelled Ligand for in vivo studies of Opioid physiology. Lancet 1985; ii:665-66 - <i>Project conceived, initiated and driven by AJ. The technique was developed by AJ and colleagues. Paper written by AJ.</i>	15.39
2	Jones AKP , Pike VW, Luthra SK et al. ¹¹ C-diprenorphine and ¹¹ C-meptazinol: new specific and non-specific probes for studying opioid binding sites using positron tomography. J Cereb Blood Flow and Metabol 1985; 5: S1 603-4 - <i>Project conceived, initiated and driven by AJ.</i>	5.29
3	Herold S, Gibbs JM, Jones AKP , Brooks DJ, Frackowiak RSJ, Legg J. Oxygen metabolism in migraine. J Cereb Blood Flow and Metab 1985; 5: S1 445-446 - <i>Project conceived, initiated and driven by AJ.</i>	5.29
4	Jones AKP , Luthra SK, Maziere B, Pike VW, Loc'h C, Crousel C, Syrota A, Jones T. Regional cerebral opioid receptor studies with ¹¹ C diprenorphine in normal volunteers. J. Neuroscience Methods 1988; 23:121-29. - <i>Project conceived, initiated and driven by AJ.</i>	1.88
5	Al-Janabi MA, Jones AKP , Solanki K, Sobnack R, Al-Nahmas AM, Britton KE, Huskisson E. Technetium-99m labelled leucocyte imaging in active rheumatoid arthritis. Nucl Med Comm 1988; 9:987-91 - <i>Project conceived, initiated and driven by AJ but performed by Dr Al-Janabi.</i>	1.127

- 6 Cunningham VJ, Hume SP, Price GR, Ahier RG, Cremer JE, **Jones AKP**. Compartmental analysis of diprenorphine binding to opiate receptors in the rat and its comparison with equilibrium data in vivo. *J Cereb Blood Flow and Metabol* 1991;11: 1-9 - *Project conceived, initiated and driven by AJ and VJC. Paper written by AJ & VJC.* 5.29
- 7 Di Piero V, **Jones AKP**, Ianotti F, Powell M, Perani D, Conforti P, Lenzi GL, Frackowiak RSJ. Chronic pain: a PET study of the effects of percutaneous high cervical cordotomy. *Pain*. 1991 ;46: 9-12 - *Project conceived, initiated and driven by AJ. Performed by Dr DiPiero and AJ. Paper written by AJ & VP.* 4.829
- 8 **Jones AKP**, Friston KJ, Brown D, Qi L, Frackowiak RSJ. Cortical and subcortical localisation of response to pain in man using positron emission tomography. *Proc Roy Soc Lond* 1991; B 244:39-44 - *Project conceived, initiated and driven by AJ. Data analysed by AJ & DB. Paper written by AJ.* 3.396
- 9 **Jones AKP**, LY Qi, T Fujiwara, SK Luthra, J Ashburner, P Bloomfield, VJ Cunningham, M Itoh, H Fukuda, T Jones. In vivo distribution of opioid receptors in man in relation to the cortical projections of the medial and lateral pain systems measured with positron emission tomography. *Neurosci Letters* 1991; 26: 25-28 - *Project conceived, initiated and driven by AJ. Paper written by AJ.* 2.1
- 10 Rajeswaran S, Hume SP, Cremer JE, **Jones AKP**, Bailey D, Jones T. Dynamic monitoring of neuropharmacological tracers in rat brain using a prototype positron imaging device. *J Neurosci Methods* 1991;40:223-32 - *Project conceived, initiated and driven by TJ & AJ. Paper written by SR, AJ & SPH.* 1.88
- 11 VJ Cunningham, VW Pike, D Bailey, CAJ Freemantle, BC Page, **AKP Jones**, MJ Kensett, D Bateman, SK Luthra and T Jones. A method of studying the pharmacokinetics in man at picomolar drug concentration. *Brit J Clin Pharmac* 1991; 32:167-72 - *Project conceived, initiated and driven by TJ & AJ. Paper written by VJ & AJ.* 2.274
- 12 **Jones AKP**, Friston KJ, Qi LY, Harris M, Cunningham VJ, Jones T, Feinman C, Frackowiak RSJ. The sites of action of morphine on the human brain studied with positron emission tomography. *Lancet* 1991; ii 825 - *Project conceived, initiated and driven by AJ. Paper written by AJ.* 15.39
- 13 **Jones AKP**, Qi Liyi, Cunningham VJ, Brown DW, Sang Kill Ha-Kawa SK, Fujiwara T, Friston KJ, Luthra SK, Jones T. Endogenous opiate response to pain in rheumatoid arthritis (RA) and cortical response to pain in normal volunteers using Positron Emission Tomography. *Int J Clin Pharmacol Res*. 1991; 11(6):261-6 - *Project conceived, initiated and driven by AJ. Paper written by AJ.* 0.536

- 14 Vincent J Cunningham, Susan P Hume, Gary R Price, Randall G Ahier, Jill E Cremer and **Anthony K P Jones**. Compartmental Analysis of Diprenorphine binding to opiate receptors in the rat in vivo and its comparison with equilibrium data in vitro. *J Cereb Blood Flow and Metabol* 1991; 11:1-9 - *Project conceived, initiated and driven by VJC & AJ. Paper written by VJC & AJ.* 5.29
- 15 **Anthony K P Jones**, Mazim A Al-Janabi, Kishor Solanki, Ravin Sobnack, Allison Greenwood, David V Doyle, Keith E Britton and Edward C Huskisson. In vivo leukocyte migration in arthritis. *Arthritis & Rheumatism* 1991; 34(3): - *Project conceived, initiated and driven by AJ. Paper written by AJ.* 7.379
- 16 Al-Janabi MA, Sobnack R, Solanki KK, **Jones AKP**, Critchley M, Smith ML, Britton KE, Huskisson EC. The response of Tc-methylene diphosphonate and Tc-hexametazine-labelled neutrophils to intra-articular steroid injection in rheumatoid arthritis. *Nucl Med Comm* 1992;13:528-34 - *Project conceived, initiated and driven by AJ. Paper written by AJ & MAJ.* 1.127
- 17 **Jones AKP**, Friston KJ, Frackowiack RSJ. Cerebral localisation of responses to pain in man using Positron Emission Tomography. *Science* 1992; 255:215-16 - *Project conceived, initiated and driven by AJ. Paper written by AJ.* 28.956
- 18 Lindsey C. Edwards, Shirley A. Pearce, Lynn Turner-Stokes, **Anthony KP Jones** Development and validation of a questionnaire assessing organic and psychological beliefs about pain. *Pain* 1992; 51:267-272 - *Project conceived, initiated and driven by SAP. Paper written by LCE, SAP and AJ.* 4.829
- 19 Al-Janabi MA, **Jones AKP**, Solanki K, Critchley M, Britton KE. A comparative study of labelled neutrophil behaviour in patients with rheumatoid arthritis (RA) and normal volunteers. *Nucl Med Comm* 1993;14: 888-95 - *Project conceived, initiated and driven by AJ. Paper written by AJ & MAJ.* 1.127
- 20 Tadokoro M, **Jones AKP**, Cunningham VJ, Sashin D, Grootoonk S, Ashburner J, Jones T. Parametric images of [¹¹C]diprenorphine binding using spectral analysis of dynamic PET images acquired in 3D. In: Quantification of brain function: Tracer kinetics and image analysis in brain PET. Eds; Uemura K, Jones T, Lassen NA, Kanno I. Excerpta Medica, Amsterdam, London, New York, Tokyo: 1993;289-94 - *Project conceived, initiated and driven by AJ. Paper written by AJ.*
- 21 **Jones AKP**, Cunningham VJ, Ha-Kawa S, Fujiwara T, Qi L, Luthra SK, Ashburner J, Osman S, Jones T. Quantitation of ¹¹C-diprenorphine cerebral kinetics in man acquired by PET using presaturation, pulse-chase and tracer alone protocols. *J Neurosci Methods* 1994; 51:123-134 - *Project conceived, initiated and driven by AJ & VJC. Paper written by AJ.* 1.889

- 22 Derbyshire SWG, **Jones AKP**, Devani P, Friston KJ, Feinman C, Harris M, Pierce S, Watson JDG, Frackowiak RSJ. Cerebral responses to pain in patients with atypical facial pain measured by positron emission tomography. *J Neurol Neurosurg Psychiatr* 1994; 57:1166-72 - *Project conceived, initiated and driven by AJ. Paper written by AJ & SWGD* 2.939
- 23 Luthra SK, Brady F, Turton DR, Brown DJ, Dowsett K, Waters SL, **Jones AKP**, Mathews RW, Crowder JC. Automated radiosynthesis of [6-O-methyl- ¹¹C]diprenorphine from 3-O-trityl protected precursors. *Appl Radiat Isot* 45:857-73 - *Project conceived, initiated and driven by AJ. Work done entirely by SKL. Paper written by SKL and AJ.* 0.768
- 24 **Jones AKP**, Cunningham VJ, Ha-Kawa S, Fujiwara T, Luthra SK, Jones T Changes in central opioid receptor binding in relation to inflammation and pain in patients with rheumatoid arthritis. *Br J Rheumatol* 1994; 33:909-16 - *Project conceived, initiated and driven by AJ. Paper written by AJ.* 3.251
- 25 Vogt BA, Watanabe H, Grootoenk S, **Jones AKP**. Topography of diprenorphine binding in vivo in flat map renderings of human cingulate gyrus and adjacent cortex. *Human Brain Mapping* 1995; 3:1-12 - *Project conceived, initiated and driven by BAV & AJ. Paper written by BAV & AJ.* 5.076
- 26 Clark S, Dickinson MR, King TA, **Jones AKP**, Chen ACN, Derbyshire SWG, Townsend DW, Kinahan PE, Mintun MA and Nichols T. Laser stimulation for pain research, *Proceedings of Biomedical Optoelectronics in Clinical Chemistry and Biotechnology, SPIE* 1995; 2629:197-205 - *Project conceived, initiated and driven by AJ & DWT. Paper written by DWT, SC & AJ.*
- 27 Vogt BA, Derbyshire S, **Jones AKP**. Pain processing in four regions of human cingulate cortex localised with co-registered PET and MR Imaging. *Eur J Neurosci* 1996; 8:1461-73 - *Project conceived, initiated and driven by BAV & AJ. Paper written by BAV & AJ.* 4.163
- 28 Watabe H, Itoh M, **Jones AKP**, Cunningham VJ, Lammertsma AA, Bloomfield P, Mejia M, Fujiwara T, Jones AKP, Jones T, Nakamura T. Noninvasive quantitation of rCBF using Positron Emission Tomography. *J Cereb Blood Flow Metabol* 1996; 16:311-19 - *H Watabe supervised by AJ.* 5.297
- 29 Aziz Q, Andersson J, Sundin A, Hamdy S, **Jones AKP**, Foster ER, Langstrom B, Thompson DG. Identification of human brain loci processing oesophageal sensation using positron emission tomography. *Gastroenterology* 1997; 113:50-59 - *I contributed to the facilitation, design and discussion.* 13.440
- 30 **Jones AKP**, Derbyshire SWG. Reduced responses to noxious heat in patients with rheumatoid arthritis. *Ann Rheum Dis* 1997; 56:601-7 - *Project conceived, initiated and driven by AJ. Paper written by AJ.* 3.593

- 31 Derbyshire SWG, **Jones AKP**, Gyulai F, Clark S, Townsend D, Firestone LL. Pain processing during three levels of noxious stimulation produces differential patterns of central activity. *Pain* 1997; 73:431-45 - *Project conceived, initiated and driven by AJ. Paper written by SWGD and AJ.* 4.829
- 32 Derbyshire SWG, **Jones AKP**. Cerebral responses to a continual tonic pain stimulus measured using positron emission tomography. *Pain* 1998; 76:127-35 - *Project conceived, initiated and driven by AJ. Paper written by SWGD and AJ* 4.829
- 33 Watson PJ, **Jones AKP**. Differential electromyographic response to experimental cold pressor test in chronic low back pain patients and normal controls. *J Muscle Pain* 1998; 6(2):51-64. 0.621
- 34 Derbyshire SWG, **Jones AKP**. Cerebral response to pain in two depressed patients. *Depression and Anxiety* 1998;7:87-8 - *Project conceived, initiated and driven by AJ. Paper written by SWGD and AJ.* 1.652
- 35 Jones A, Hughes DG, Brett DS, Robinson L, Sykes JR, Aziz Q, Hamdy S, Thompson DG, Derbyshire SWG, Chen CAN, **Jones AKP**. Experiences with functional magnetic resonance imaging at 1 tesla. *Br J Radiol* 1998; 71:160-66 - *AJ contributed to the design and performance of the experiment and the writing of the paper* 0.925
- 36 Derbyshire SWG, Vogt BA, **Jones AKP**. Pain and Stroop interference tasks activate separate processing modules in anterior cingulate cortex. *Exp Brain Res* 1998; 118:52-60 - *AJ initiated this project and made contributions to the experimental design and writing of the paper.* 2.300
- 37 Derbyshire SWG, **Jones AKP**, Collins M, Feinmann C, Harris M. Cerebral responses to pain in patients suffering acute post dental extraction pain measured by positron emission tomography (PET). *Eur J Pain.* 1999; 3(2):103-113 - *AJ initiated and designed this project.* 1.274
- 38 Townsend DW, Beyer T, Meltzer CC, Dachille MA, Derbyshire S, **Jones AKP**, Kelley DE, Luketich JT. The ECAT ART scanner for positron tomography: 2. Research and clinical applicatns. *Clin Posit Imag.* 1999; 2(1): 17-30 - *AJ made one of a number of contributions to this transatlantic collaboration.*
- 39 **Jones AKP**, Kitchen ND, Watabe H, Cunningham VJ, Jones T, Luthra SK, Thomas DGT. Measurement of changes in opioid receptor binding in vivo during trigeminal neuralgic pain using [¹¹C]diprenorphine and positron emission tomography (PET). *J Cereb Blood Flow and Metabol.* 1999;19:803-808 - *AJ initiated, designed and contributed to data collection and wrote the paper.* 5.297

- 40 Langley G, Harding G, Hawkins P, **Jones AKP**, Newman C, Swithenby S, Thompson D, Tofts P, Walsh V. Volunteer Studies Replacing Animal Experiments in Brain Research. Report and Recommendations of Volunteers in Research and Testing Workshop. *Atla* 2000; 28: 315-331 - *Major contribution to the workshop. Minor contribution to writing the paper.* 2.022
- 41 Gamble GE, Barberan E, Bowsher D, Tyrrell PJ, **Jones AKP**. Post stroke shoulder pain: more common than previously realised. *Eur J Pain*. 2000; 4:313-315 - *AJ initiated and supervised this project with substantial contribution to writing the paper.* 1.274
- 42 Bentley DE, Youell PD, Crossman AR, **Jones AKP**. Source localisation of 62-electrode human laser pain evoked potential data using a realistic head model. *Int J Psychophysiol*. 2001; Vol. 41/2:187-193 - *Close involvement and initiation of this project but mainly driven by DE Bentley.* 2.055
- 43 Derbyshire SW, Nichols TE, Firestone L, Townsend DW, **Jones AKP**. Gender differences in patterns of cerebral activation during equal experience of painful laser stimulation. *J Pain*. (2002) 3(5):401-411
- 44 Spence C, Bentley DE, Phillips N, McGlone FP, **Jones AKP**. Selective attention to pain: A psychophysical investigation. *Exp Brain Res*. (2002) 145:395-402 - *Initiation and close involvement in discussion of project. Mainly driven by Spence and Bentley.* 2.300
- 45 Derbyshire SWG, **Jones AKP**, Creed F, Starz T, Meltzer CC, Townsend DW, Peterson AM, Firestone L. Cerebral responses to noxious thermal stimulation in chronic low back pain and normal controls. *Neuroimage*. 2002;16(1):158-68 - *AJ was involved in all stages including initiating the idea to grant writing to writing the paper. Data acquired and analysed by SWGD.* 5.624
- 46 Bentley DE, **Jones AKP**, Youell PD. Anatomical localisation and intra-subject reproducibility of laser evoked potential sources in cingulate cortex, using a realistic head model. *J Clin Neurophysiol*. 2002; 113:1351-1356 - *AJ involved in all stages of this project but mainly driven by DEB7.* 2.142
- 47 Gamble GE, Barberan E, Laasch H-U, Bowsher D, Tyrrell PJ, **Jones AKP**. Poststroke shoulder pain: a prospective study of the association and risk factors in 152 patients from a consecutive cohort of 205 patients presenting with stroke. *Eur J Pain* (2002) 6:467-474 - *AJ initiated and supervised this project with substantial contribution to writing the paper.* 1.274
- 48 Bentley DE., Derbyshire SWG., Youell PD. and **Jones AKP**. Caudal cingulate cortex involvement in pain processing: An inter-individual laser evoked potential source localisation study using realistic head models. *Pain* 2003; 102:3 265-271 - *AJ was involved in all stages of this project but mainly driven by D E Bentley* 4.829

- 49 **Jones AKP**, Watabe H, Cunningham VJ, Jones T. Cerebral decreases in opioid receptor binding in patients with central neuropathic pain measured by [¹¹C]diprenorphine binding and PET. *Eur J Pain* 2004; 8: 479-485 - *AJ developed the methods, applications and wrote the paper.* 1.274
- 50 Bentley, D.E., Watson, A., Treede, R.-D., Barrett, G., Youell, P.D., Kulkarni, B. and **Jones, A.K.P.** Differential effects on the Laser Evoked Potential of Selectively Attending to Pain Localisation versus Pain Unpleasantness. *Clinical Neurophysiology*. 2004; 115: 1846-1856 - *Idea from AJ with substantial input of experimental design, project driven by DB.* 2.142
- 51 Seymour B., Doherty J., Dayan P., Koltzenburg M., **Jones A.K.P.**, Dolan R., Friston R. and Frackowiak R. Temporal difference models describes higher order learning in humans. *Nature* 2004; 29: 664-667 - *Idea for project stemmed from work done by BS in our laboratory and subsequent discussions. Project driven by BS.* 30.4
- 52 Youell PD, Wise RG, Bentley DE, Dickinson MR, King TA, Tracey I, **Jones AKP**. Lateralisation of nociceptive processing in the human brain: a functional magnetic resonance imaging study. *Neuroimage* 2004; 23(3):1068-1077 - *Idea generated from discussion between Irene Tracey and AJ. AJ had large input into anatomical and physiological interpretation of the data and writing the paper.* 6.1
- 53 Hoang, T.N. El-Deredy, W. Bentley, D.E. Jones, A.K.P. Lisboa, P.J. Mcglone, F. Dipole source localisation using independent component analysis: single trial localisation of laser evoked pain 26th Int. Conf. IEEE Engineering in Medicine and Biology Society (EMBS), San Francisco, CA, 2004 Vol 1, pp. 403-406.
- 54 Kulkarni B, Bentley DE, Elliott R, Youell P, Watson A, Derbyshire SWG, Frackowiak RSJ, Friston KJ, **Jones AKP**. Attention to pain localisation and unpleasantness discriminates the functions of the medial and lateral pain systems. *Eur J Neuroscience* 2005; 21:3133-3142 - *Idea generated by AJ with major input into interpretation and writing of the paper by AJ.* 4.1
- 55 Bentley DE, Baumgärtner U, Watson A, Barrett G, Kulkarni B, Youell PD, Schlereth T, **Jones AKP**, and reede R-D - The time-course of sensory and affective pain processing: evidence from laser-evoked potentials. *Proceedings of the 11th World Congress on Pain* (397-405), Editors: Herta Flor, Eija Kalso and Jonathan Dostrovsk, IASP Press (Seattle) 2006 - *Idea generated by AJ with major input into interpretation and writing of the paper by AJ* N/A

- 56 Boyle Y, Bentley DE, Watson A, **Jones AKP**. Acoustic noise in functional magnetic resonance imaging reduces pain unpleasantness ratings. *NeuroImage* 2006; 31(3) 1278-1283 - *Idea from an observation from our early fMRI experiments. This became the main theme of Yvonne Boyle's thesis which AJ supervised.* 5.288
- 57 Watson A, El-Deredy W, Bentley DE, Vogt BA, **Jones AKP**. Categories of Placebo response in the absence of site-specific expectation of analgesia. *Pain* 2006, *Dec 15;126 (1-3): 115-122* 4.309
- 58 Zampini, M; Bird, K; Bentley DE; Watson A; Barrett G; **Jones AKP**; Spence C. - 'Prior entry' for pain: Attention speeds the perceptual processing of painful stimuli. *Behavioural Brain Research* 2007, 414(1): 75-79 1.898
- 59 Brown, C; Seymour, B; Boyle, Y; El-Deredy, W; **Jones, AKP** - Modulation of pain ratings by expectation and uncertainty; Behavioural characteristics and anticipatory neural correlates. *PAIN* Jan 2007;05:022
- 60 Porro Carlo A, MD, PhD; Martinig Michela, Dr; Facchin Patrizia, PhD; Maieron Marta, PhD; **Jones AKP, MD, PhD**; Luciano Fadiga, MD PhD - Parietal cortex involvement in the localization of tactile and noxious mechanical stimuli: A transcranial magnetic stimulation study. *Behavioural Brain Research* 2007, 178(2): 183-189 2.865
- 61 Watson A, El-Deredy W, Bentley DE, Vogt B, **Jones AKP**. Placebo analgesia is not due to compliance or habituation: EEG and behavioural evidence. *Neuroreport* 28 May 2007;18(8): 771-775 1.995
- 62 Kulkarni B, Bentley DE, Elliott R, Julyan PJ, Boger E, Watson A, Boyle Y, El-Deredy W, **Jones AKP**. Arthritic pain is processed in brain areas concerned with emotions and fear. *Arthritis and Rheumatism*. 56 (4), 1345-1354. 2007. - *Idea generated by AJ with major input into interpretation and writing of the paper by AJ* 7.421
- 63 **Jones AKP**, Watson A. A functional imaging of pain: A Cortical model of allodynia in poststroke pain and fibromyalgia. *Central Neuropathic Pain: Focus on Poststroke Pain*. IASP Press, Seattle, 2007.
- 64 Langley G, Evans T, Holgate S, **Jones AKP**. Replacing animal experiments: choices, chances & challenges. *BioEssays* 29.9:918-926 2007
- 65 Brown, C; Seymour, B; Boyle, Y; El-Deredy, W; **Jones, AKP** - Modulation of pain ratings by expectation and uncertainty; Behavioural characteristics and anticipatory neural correlates. *PAIN* 2008. 135(3) 240 – 250
- 66 Boyle Y, El-Deredy W, Martinez Montez, Bentley DE, **Jones AKP**. Selective modulation of nociceptive processing due to noise distraction. *Pain* 2008 in press.

Papers submitted:

1. Bentley DE, Watson A, Rothwell JC, Hamdy S, Kulkarni B, and **Jones AKP**. Disruption of somatosensory cortex by repetitive rTMS affects pain intensity ratings but not the ability to localise pain.
2. Bentley D, Baumgartner U, Watson A, Barrett G, Kulkarni B, Youell PD, **Jones AKP**, Treede RD. Early involvement of right operculo-insular cortex in processing pain unpleasantness: evidence from laser-evoked potentials.
3. Hoang TN, El-Deredy W, Bentley DE, Jones AKP, Lisboa PJ, and Mcglone F. Single-trial dipole source localisation of laser evoked pain potentials.
4. Brown Christopher A, Seymour Ben, Boyle Yvonne, El-Deredy Wael, Jones Anthony KP. Modulation of pain ratings by expectation and uncertainty: Behavioral characteristics and anticipatory neural correlates.

Review articles:

- 1 **Jones AKP**, Derbyshire SWG. 1996 (Invited review). Cerebral mechanisms operating in the presence and absence of inflammatory pain. *Ann Rheum Dis*. 55: 411-420.
- 2 Treede R-D, Kenshalo D R, Graceley R H, **Jones AKP**. (Consensus review) The cortical representation of pain. *Pain* 84 (2000): 443-444
- 3 **Jones AKP**, Kulkarni B, Derbyshire SWG. Functional Imaging of Pain Perception. *Current Rheumatology Reports*. 2002, 4:329-333
- 4 **Jones AKP**, Kulkarni B, Derbyshire SWG. Pain Mechanisms and their Disorders. In: *British Medical Bulletin*. Eds. Richard Frackowiak, Terry Jones. Oxford University Press, 2003; 65: 83-93
- 5 **Jones AKP**, Georgiou G. *Biological Science Review* – Nov. 2006, pages 7-10. "Probing Pain" – This Journal is aimed at 'A' Level Students. Publisher: Philip Allan Updates.
- 6 Langley G, Evans T, Holgate ST, **Jones AKP**. Replacing animal experiments: choices, chances and challenges. Publisher: *BioEssays*. Sept 2007

Other media:

Television, radio and national papers:

- Programme on: Opiates, exercise and Pain for the Yorkshire Television *Advances in Medicine Series*. 1990.
- Programme on: Back Pain for Pulse Series. Channel 4. April. 1993. *BBC News* 23.9.1993

- International Press Release. British Society for Rheumatology, Meeting in Cambridge, 09.1993.
- Interview on - Today Programme Radio 3. BBC News. BBC World Service. COI Overseas Radio, Radio Adelaide.
- Articles in - The Times, Independent, Guardian, Evening Standard, Manchester Evening Standard, The Scotsman, Scottish Sunday Post. Articles in USA and Canada released via the Press Association.
- Article in - Figaro Magazine. 30.6.1995. By Jean-Christophe Grange reporting the International Meeting in Paris on: Human Brain Mapping. June. 1995. Notre Cerveau n'a (Presque) Plus de Secrets. P 34-43. (Pain - page 42).
- Perspective Backache - London Television Series (Foreign Office Sponsored International Science Series)
- Article in - the Manchester Evening News 1.5.1998 by Deborah Haile: No pain - no gain to volunteers suffering in science
- Article in - New Scientist 19.1.2002 by Lisa Melton: His pain, her pain
- Article in - Times 13.2.2002 by Suzannah Olivier: Tailor-made drugs?
- Article in - Arthritis Today 4.2002: Focus on Manchester
- Interview on - BBC World Service Programme - Every Woman 18.4.2002
- Article in - Manchester Evening News 21.1.2003 by Patricia Roberts: Lasers? They're a real pain (and that's great news for sufferers and doctors alike)
- Article in - Manchester Evening News 9.9.2003 by Rebecca Camber: Dr seeks cure for pain.
- Article in - Metro 10.9.2003 by Mark Capper: £32m to discover the "cure" for pain.
- Article in - Salford Advertiser 11.9.2003 by Ben Murch: Experts talk brain pain at festival.
- Article in - Bulletin (British Neurosciences Association newsletter) autumn/winter 2003 by Yvonne Allen: BA Festival of Science, Salford 2003: Inside your brain: blue skies to better lives 9.9.2003.
- Article in - Manchester Evening News 04.06.2004 by Rebecca Camber: Pill to break pain barrier
- Article in Arthritis Today Autumn 2006 No 134: A New Approach to Pain.

C4. Supervision of research students:

- 1987 - 1990** Supervision of Dr Mazim Al Janabi, PhD Student: Developing Techniques for measuring neutrophil migration in rheumatoid and osteoarthritis. PhD awarded 1991
- 1989 - 1992** Supervision of Research Fellow, (Professor Qi) Dept of Anaesthetics, Hammersmith Hospital in project on double-blind assessment of the effects of acupuncture on osteo and rheumatoid arthritis (Supported by Violet Richards Trust Award).
- 1992 - 1995** Co-supervision of a Ph.D. student (Stuart Derbyshire) with Dr Shirley Pierce, Dep. Psychology, University College, Neuropsychological Measures of Pain in Pain Patients and Pain Free Volunteers. A Study Using Positron Emission Tomography (PET) (Supported by an ESRC grant). PhD awarded (London University) Nov 1995.

Supervision of a research fellow, Dept. Rheumatology, Hammersmith Hospital to further investigate the mechanisms of action of synthetic steroids on neutrophil migration and pain in rheumatoid arthritis and to study the neurogenic components of the inflammatory response in this disease (Supported by Smith Kline and Beecham).

Co-supervision of an MSc student (Mr Paresh Devani) in oral medicine with Prof. Malcolm Harris and Dr Charlotte Feinman (Dept. Oral Medicine Eastman Dental Hospital and Dept. Psychiatry, Middlesex Hospital); MSc Awarded.

Scientific exchange with Japan: over 1991 - 1993 years in collaboration with Dr. Massatoshi Ito (Sendai University) four Japanese nuclear medicine physicians have come to work with me on the [¹¹C]diprenorphine project each for a period of a year. This was a highly successful collaboration (partly sponsored by the Japanese Government, partly by a grant from the BMA and SKF).

Co-supervision of PhD student (Dr Eman Mahmoud MD). "Relationship between pain and inflammation in patients with rheumatoid arthritis". PhD submitted Sept 2000, awarded 2001.

Co-supervision of PhD student (Dr Kelly Bird). MPhil on The Attentional Manipulation of the Perception of Pain. MPhil Awarded August 2006.

Co-supervision of PhD student (Dr Bhavna Kulkarni) with Dr Rebecca Elliot - PhD on "Cortical Mechanisms of Human Pain Processing". Awarded in November 2006.

Co-supervision of PhD student (Yvonne Boyle) with Prof Bill Deakin - PhD Awarded, University of Manchester, February 2007 on:- Neurophysiological Correlates on Altered Attention to Pain.

Current Students:

- Co-supervision of PhD student (Alison Watson) with Prof Brent Vogt (Syracuse) and Dr Wael El-Dereedy.
- Co-supervision of PhD student (Chris Brown) with Prof Steve Williams.
- Co-supervision of PhD student (Debbie Farmer) with Dr Wael El-Dereedy.

Medical Student Projects:

- Supervision of SSM (Special Study Module) Hassan Mahmood (Evidence for opiates being effective analgesics in chronic benign pain) 2003
- Supervision of SSM (Special Study Module) Samira Patel (Perception of pain) 2003
- Supervision of 5th year research option Krystel Chin (Factors influencing patient perception of paracetamol used and adherence to musculoskeletal pain guidelines) 2003

Career development of PhD students

- Supervision of post-doctoral research fellow (Stuart Derbyshire) over 5 yrs, 1993 - 1998, in the University of Manchester Rheumatic Diseases Centre to investigate pain stimulus-response functions using fMRI and PET (Wellcome Funded) and the central mechanisms of back pain and sciatica using PET in collaboration with Profs Malcolm Jayson (Hope Hospital), Frances Creed (Manchester Royal Infirmary) and David Townsend (University of Pittsburgh Imaging Centre) University of Manchester and MRC funded. Stuart now has an international reputation in pain imaging and has been recently appointed to a tenured Post-Doctoral position in the University of Pittsburgh Imaging Centre. In 2006 he was appointed as Senior Lecturer in Department of Psychology in University of Birmingham.
- Co-supervision of PhD student (Stuart Clark) in Laser Physics with Prof T King (Laser Photonics) towards PhD on: Design and use of a CO₂ laser to deliver precisely controlled thermal non-painful and painful stimuli to the skin. PhD Awarded University of Manchester, Feb 1999. Stuart has been in charge of computing in the Salford Royal NHS Trust R&D Group. He is now in charge of computing and informatics at WMIC.
- Co-supervision of Nuclear Medicine Ph.D. student (Dr Al-Janabi, St Bartholomew's Hospital) with Dr K Britton, in techniques of measuring neutrophil migration in inflammatory joint disease; PhD awarded University of London, Dec. 1991. Dr Al-Janabi is now a consultant in Nuclear Medicine at King's College Hospital, London.
- Co-supervision of PhD student (Deborah Bentley) with Prof Alan Crossman (Dept Anatomy): Event related brain potentials associated with motor suppression following auditory and painful stimuli. PhD Awarded University of Manchester, December 1999. Deborah was appointed to a five year Post Doctoral position in our group (ARC funded). She has a strong European reputation in electrophysiology and source localisation. This has been recognised by her appointment as Honorary Treasurer of the British Psychophysiology Society. She has now engaged with a career in Science Administration and is currently working as Dame Nanny Rothwell's Scientific Personal Assistant.
- Co-supervision of PhD student (Yvonne Boyle) with Prof Bill Deakin: PhD Awarded, University of Manchester, February 2007 on:- Neurophysiological Correlates on Altered Attention to Pain. Yvonne has been appointed as Post Doctoral Research Fellow (termed appointment) to run the EEG laboratory at GSK (Cambridge).

C5 Organisation and Promotion of research:

- Organiser, Workshop on: Pain evoked cerebral events 1992. Hammersmith Hospital.
- Member of the International Advisory Panel for the Biennial International: Brain 1993 Meeting in Sendai, Japan.
- Organiser, PET seminar: New developments in PET, Psychiatry and Pain Physiology for the Nottingham Neuroscience Club, February, 1993.
- Organiser, British Society for Rheumatology: Pain Seminar at the Annual General Meeting, Harrogate, March, 1993.
- Organiser, of a workshop within the Brain 1993 (Sendai, Japan) meeting on: Pharmacological Intervention and Functional Brain Imaging.
- Organiser, Two day international Seminar: Cortical and Subcortical Responses to Pain in Man Oct. 1994, London.
- Convenor, British Society for Rheumatology - Musculoskeletal Pain Special Interest Group 1995
- Organiser, North West Pain Research Group from 1999 - :
 1. One-day Symposium on: Back Pain – Will The Next Millenium Be Better? 22.10.1999.
 2. Half-day Symposium on: Deafferentation Pain. 22.06.2000.
 3. Human Pain Research Group Showcase. June 2004 (see below).
- Proangiogenic markers and vascular imaging in the assessment of early arthritis Dr Peter Taylor. 27.06.2003
- Contributor to BA Festival of Science: “Imaging the Ouch!”. This was a talk given as part of a symposium aimed at schoolchildren called: “Inside your brain: blue skies to better lives” (convened by Prof Nancy Rothwell). BA Festival of Science. University of Salford. 09.09.2003.
- Organiser of public “Human Pain Research Group Showcase” for research users (patients and volunteers), ARC fund-raisers and clinical colleagues. June 2004.
- Co-organiser of International conference: “ Touch, Temperature, Pleasure and Pain “. University of Manchester. September 2004.
- Member of the IASP Scientific Committee (International Association for the Study of Pain) 11th International IASP meeting, Sydney 2005.
- Member of Central Pain Advisory Board, meeting in Coventry November 2006 organized by Pfizer International.
- Member of Organon Advisory Board, meeting in Scotland November 2006, organized by Akzo Nobel – talk “Potential utility of imaging technologies in clinical trials”.

Research grants:

Total collaborative grant income 1990 – 2006: £6,699,156

- Violet Richards Trust for Research in the Elderly: 1990 - 1994 Double-blind assessment of the effects of acupuncture on osteo and rheumatoid arthritis '. £54,000
- ESRC: 1991 - 1994. Collaborative grant with Dr Shirley Pierce, Dept. Psychology UC, London. To compare the central responses of patients with chronic psychogenic pain and inflammatory pain. £ 21,000
- BMA: 1991 - 1992. Doris Hillier Award. The correlation of changes in in-vivo opioid binding in the CNS in relation to changes in pain state in patients with rheumatoid arthritis. £12,000
- Smith Kline Beecham: 1992. In-vivo measures of inflammation. £ 7,000
- Wellcome Trust Travel Grant: 1993. (2 months sabbatical); Positron emission tomography of the medial pain system. To fund visit of Prof. BA Vogt, (Dept Physiology and Pharmacology, Bowman Gray School of Medicine, N. Carolina), to collaborate in the Hammersmith/Manchester Pain Research Programme. £ 8,842
- Wellcome Trust Project Grant: 1993 – 1995 Pilot study to compare the sensitivity of functional magnetic resonance imaging and positron emission tomography in the detection of cerebral pain responses in man. £ 38,525
- University of Manchester Faculty of Medicine: 1994 Capital and salary grant to establish electrophysiological mapping techniques in the Human physiology and pain laboratory in the Clinical Sciences Building, Hope Hospital. £ 101,000
- University of Manchester Faculty of Medicine: 1994 - 1996 Comparison of central pain responses of patients with psychogenically driven compared to patients with neurogenically driven back pain measured by Positron Emission Tomography. £ 38,000
- Royal College of Anaesthetists/BUPA. Research Fellowship. In Collaboration with Depts. of Neurology and Anaesthetics. Royal London Hospital Trust and MRC Cyclotron Unit: 1994 - 1996 Pattern of cerebral activation and [¹¹C]diprenorphine binding in patients with differentiation pain following brachial plexus avulsion as measured by Positron Emission Tomography. £70,000
- Royal College of Physicians. Saltwell Fellowship: 1995 - 1997. Brain mapping and cerebral mechanisms of pain in rheumatoid arthritis. £ 72,000
- MU Faculty of Medicine: 1996. Collab. with Profs Deakin, Crossman, Jackson and Taylor. fMRI image analysis. £20,000
- MRC - Realising Our Potential (ROPA): 1994 - 1997. Cerebral mechanisms of back pain and depression. Collab. with Profs. MIV Jayson and FH Creed. £ 120,000
- The Hadwen Trust. Equipment grant application: 1997 - 1998. Development of methods to measure cortical adaptive responses to ongoing inflammatory pain in patients with rheumatoid arthritis. £20,000

- Arthritis and Rheumatism Council: 1996 - 1998 Brain mapping and cerebral mechanisms of pain in rheumatoid arthritis. £50,000
- The Hadwen Trust Research Fellowship: 1997 - 2000. Development of a CO₂ laser sensory stimulator for general clinical use. £78,000
- Arthritis and Rheumatism Council: 1997 - 1998. Localisation of pain evoked potentials using individual cerebral anatomical characteristics. £57,000
- AstraZeneca: 1999 - 2000. Research Fellowship fMRI studies of the Lateralisation of pain. £6,000
- EPSRC: 2000 - 2002. Project Grant Development of a fibre laser stimulation system and its application to functional imaging of pain processing £186,997
- ARC Programme Grant: 2000 – 2006. Brain mechanisms of pain perception in musculoskeletal disorders and their modulation by therapeutic intervention. £842,822
- DSTL: 2002 – 2005. Research into human electrophysiology. £33,000
- MRC: 2003 – 2006. Institute for Functional and Molecular Imaging. £4,061,500
- Frederick Craven Award: 2003 – 2006. Human Brain Mapping to Investigate whether Pathology in the Pain Neuromatrix is Associated with Abnormalities in Present-Moment Attention, Emotional Conflict Resolution and Pain Perception in Fibromyalgia. £39,035 *including fees*
- Human Frontier of Science Programme: 2004 - 2007. Co-applicants: C Porro (Udine), P Bandettinini (Boston), Tracey I (Oxford) , **AKP Jones (Manchester)**. Functional imaging of the spinal cord: from experimental animals to humans. £761,850 (*Divided between four international centres in Boston, Oxford, Udine and Manchester*)
- MRC: 2004 - 2009. Co-applicants: B Deakin, AKP Jones, G Barnes, N Rothwell. Manchester Magnetic Resonance Neuroimaging Co-operative. £143,504 .
- ARC Programme Grant Extension Nov 2006 – Feb 2008. Measurement of cognitive responses in normal volunteers and patients with OA & fibromyalgia. £42,508.
- 2006 Mind and Life Summer Institute Research (Varela) Grant £5,077
- Wellcome Trust: fEITHER Grant. Functional Electric Impedance Tomography of Evoked Responses Study. July 2005 – June 2008. AKPJ Main Collaborator. £10,000.
- Manchester CIMIT Small Grants Award Scheme. H McCann, AKP Jones, Real-time pain assessment using EIT for functional brain imaging. October 2007. £11,000
- Dr Hadwen Trust. AKP Jones, W El-derey. Endogenous pain control mechanisms in patients with chronic pain. February 2008. £119,271.

C7 Clinical Responsibilities

At Hope Hospital I have established two specialist clinics where I see approximately 300 new patients and 1600 follow ups per year. The first clinic is a multidisciplinary inflammatory arthritis clinic to cater for the complex needs of patients with both early and established inflammatory arthritis and to provide the clinical base for inflammatory pain research programme. The idea is to provide a “one-stop shop” for diagnosis, multidisciplinary assessment and management. This multi-disciplinary approach has now been adopted throughout the Rheumatology Department at Hope.

It will also be extended into the Musculoskeletal Pain SHIFT service in primary care.

A second multidisciplinary clinic for patients with musculoskeletal pain has been established with a monthly neuropathic pain clinic which deals with patients with post-stroke pain as well as other types of neuropathic pain. This provides a rapid access clinic for patients with complex musculoskeletal and neuropathic pain.

- My current clinical responsibilities are two clinics, a ward round and two clinical meetings per week in addition to on-call cover for rheumatology.
- 1999 - 2001 - I chaired our Departmental Audit and Clinical Governance meetings.
- I have worked alongside my clinical and academic colleagues in rheumatology in the development of clinical guidelines as the main focus of our audit and clinical governance activity. This has also become an important part of post-graduate training. I now lead on guidelines development within the rheumatology department and the Salford Primary Care Trust.
- I am actively involved in the supervision and training of SpR's and lead nurses in guidelines development.
- I have also established a multidisciplinary group of therapists, pharmacists and physicians to develop local guidelines for the pharmacological management of musculoskeletal pain (see SHIFT programme below).

National and Local Guidelines:

i) I co-chair with Prof M Doherty (University of Nottingham) a pain guidelines group within the British Rheumatological Society Musculoskeletal Pain Special Interest Group. The main focus of this group is currently the Development of National Guidelines for Pharmacological Treatment of Musculoskeletal Pain. We are working with colleagues in the BSR towards developing these guidelines nationally. The local implementation of these is described below. We have recently (January 2005) been asked officially to develop these guidelines nationally and I have been asked to lead on this. We will develop these guidelines jointly with the Royal College of Physicians.

ii) SHIFT (Salford Health Improvement for Tomorrow) – I co-led the Musculoskeletal Pain SHIFT team. We have designed an integrated one-stop multidisciplinary guidelines-led service that will deliver a consultation, education and information service for primary and secondary care in Salford.

The local implementation of these guidelines will be the subject of a number of health-economics and feasibility studies. The strategy from the discussion will be incorporated into an NIHR grant from the North West Musculoskeletal Network.

International Clinical Responsibilities:

I chair a working party to establish a Musculoskeletal Pain Taskforce within the International Society for the Study of Pain (IASP) to co-ordinate clinical and specific research issues internationally.

C8 Service as an external examiner or as a referee:

Regular review for:

- The Journal of Pain
- Journal of Cerebral Blood Flow and Metabolism
- Brain
- Annals of Rheumatology
- Rheumatology
- Nature
- Pain,
- Neuroimage
- European Journal of Pain
- Science
- Journal of Physiology
- Alzheimers Disease and Associated Disorders
- Journal of Neurophysiology
- Neuroimage
- Complimentary Therapies in Medicine
- Foundations in Physics
- BBSRC

Grant Reviews for:

- Arthritis Research Campaign
- BBSRC
- Medical Research Council.
- National Institute of Health
- Italian Ministry for University and Research.
- Member of INSERM (Institut National de la Sante et de la Recherche Médicale) international expert base for site visits and research reviews.
- **I have also been asked to participate in the RAE exercise (2005) for the Italian Ministry for University and Research.**

C9 The holding of office or discharge of major responsibilities for a learned society or professional body:

- 1995 - Present** Convenor, British Society for Rheumatology - Musculoskeletal Pain Special Interest Group.
- 2002 - Present** International Association for the Study of Pain (IASP) Scientific Programme Committee for Sydney meeting 2005.
- 2003 - Present** Scientific Advisory Sub-Committee, Pain Research Institute, Liverpool University.
- 2005-** Chair: IASP working party to establish a Musculoskeletal Pain Taskforce within the society.

C10 Other public service in a professional capacity:

Member, MRC Functional Imaging Strategy Committee, March 1994.

C11 Academic invitations received for the presentation of external lectures and papers, contributions to conference proceedings etc.

** indicates all expenses paid for by conference organization*

C indicates chairing meeting

- Service Hospitalier Frederic-Joliot, Paris, November 1984*
- Pfizer Seminar on 'Calcium in Dementia'. London, February 1985. *
- Service Hospitalier Frederick-Joliot, Paris, March 1985. *
- Dept. of Cardiology, Pisa University, June 1985.*
- Wessex Neurology Club, University of Southampton, January 1987. *
- Wellcome, Beckenham, March 1987. *
- Leeds University, Invited Keynote Lecture, May 1987. *
- St. Bartholomews, London, International Conference on Hand Surgery, March 1988.
- Bloomsbury Rheumatology Unit, The Middlesex Hospital/ U.C.H. March 1988.
- British Nuclear Medicine Society Meeting, Birmingham, Guest Lecture, October 1988 *
- First San Raffaele PET Workshop on Neuroreceptors, San Raffaele Scientific Institute, Milan University, April 1989. *
- Eastman Dental Hospital, U.C.H. May 1989.
- Parke Davis Research Laboratory, Cambridge, May 1989. *

- Molecular Pharmacology Unit, University Rene Decartes, Paris, July 1989. *
- Clinical Research Centre, Northwick Park, London, May 1990.
- Royal Society of Medicine, British Medical Acupuncture Society September 1990. *
- St. Thomas's Hospital, Pain and Nociception Group, London, November 1990.
- Dept. Rheumatology, Royal Free Hospital, London, February 1991.
- Dept. Rheumatology, Hospital Cantonale Universitaire, Geneva, April, 1991. *
- International Symposium on Physiological Mechanisms of Pain and Pharmacology of Analgesia. Guys Hospital, London, April 1991. *
- Dept. Rheumatology, Bristol Royal Infirmary, June 1991. *
- Symposium on PET and Psychology, Guy's Hospital, London, September 1991. *
- Ciba-Geigy SR Course, Churchill College, Cambridge, September, 1991. *
- MRCPsych. Course, Dept. Psychiatry, Middlesex Hospital, London, June 1991. *
- Postgraduate Centre, Frenchay Hospital, Bristol, January 1993. *
- Dept. Rheumatology, Guy's Hospital, London, February 1993.
- RPMS, BSc Course in Neuroscience, MRC Cyclotron Unit, London, February 1993.
- Pain Seminar, British Society for Rheumatology Meeting, Harrogate, March 1993. *
- British Medical Acupuncture Society, Bath, May 1993. *
- Dept. Neurology, The Royal London Hospital, Whitechapel, London, July 1993. *
- Dept. Orthopaedic Surgery, Hope Hospital, Salford. Regional Postgraduate Training Programme. August 1993.
- "PET as a tool for understanding the cerebral processing of pain." IASP Sponsored Symposium on: Touch, temperature and pain in health and disease: mechanisms and assessments. Wenner-Gren Symposia Series. Karolinska Institute for Pain Research, Stockholm. **Award for: The technique with the most promise for the future.** October 1993. *
- "Are opiates good for you?". MRC Cyclotron Unit, Hammersmith Hospital, London. December 1993. *
- Physiology of Human Pain. Physical Medicine Research Foundation Course on Pain, Manchester University. April 1994. *

- “Imaging Pain and Inflammation”. London Chronic Pain Symposium. May 1994. *
- “Somatosensory and limbic cortical processing of pain”. International Symposium on Somesthesia and the Neurobiology of the Somatosensory Cortex. Stockholm, August 1994. *
- “Modification of cerebral responses to Inflammatory Pain”. International Symposium on Human Mechanisms of Cortical and Subcortical Response to Pain, London, U.K. October 1994. *
- “PET studies of the functional anatomy and pharmacology of pain”. 6th International Conference on in vivo methods, Seignosse, France. September 1994. *
- “Inflammatory Disorders of the Knee”. Current Trends in Orthopaedic Surgery. University of Manchester. 19 October 1994
- “Touch and Pain”. MRCPsych/MSc Course, Manchester University, 15 November 1994. *
- “PET scanning and Pain”. Liverpool University, Chronic Pain Management Course, 17 November 1994. *
- “The Brain in Pain”. Nottingham University, Dept Rheumatology Regional Meeting, 18 January 1995. *
- “Aetiology and management of Osteoarthritis”. Directorate Update. Benefits Agency. Victoria Hospital. Blackpool. 30 January 1994. *
- “Human Brain Mapping of Pain Responses using PET”. University of Pittsburgh Medical Centre. 4 April 1995. *
- “Inflammatory joint disease”. General Practitioner Forum University of Salford. 25 April 1995. *
- “Imaging Pain Pathways”. London Chronic Pain Course (PANG). Charring Cross Hospital. 14 May 1995. *
- “Cerebral Responses to Inflammatory Pain”. BSR Advanced Course in Rheumatology, Queen Mary and Westfield College, London, 17 May 1995*
- “Frontal brain responses in patients with different types of pain syndromes”. 1 Congress of the European Federation of IASP Chapters. Verona, Italy. 20 May 1995.
- “Cortical and thalamic imaging in patients with chronic pain using”. PET 3 day international conference on 'Forebrain areas involved in pain processing' organized by Association pour la Neuro Psycho Pharmacologie. Paris/Dinard. 31 May 1995. *
- External Examiner and opponent in the Thesis Examination of Dr JC Hsieh. “Central Processing of Pain: Functional Brain Imaging Studies with PET.” Dept. Neurophysiology, Karolinska Institute, Stockholm. 15 September 1995. *

- “New challenges in Human Pain Imaging”. Dept. Neurophysiology, Karolinska Institute, Stockholm. 15 September 1995. *
- “Central mechanisms of nociceptive and non-nociceptive facial pain”. 3 Day International Meeting on Pain Mechanisms and Management in Honour of Sampson Lipton. Liverpool University. 21 September 1995. *
- “Clinical imaging of pain and inflammation in inflammatory arthritis”. Zeneca, Alderley Park. 11 January 1996. *
- “How does acute pain become chronic?”. Macclesfield Trust Post-Graduate Centre. 28 February 1996. *
- “Multi-modality imaging of cerebral pain responses: luxury or necessity? “. International Workshop on imaging pain: Science and Technology. Syracuse University. US. 21 March 1996. *
- “How do we experience pain and where in the brain ?”. British Society for Rheumatology. Pain Interest Group Workshop. Brighton. 8 May 1996.
- **Invited Plenary Lecture.** Harry Farfan Presidential Guest Speaker. “How does the brain feel pain”. International Society for the Study of the Lumbar Spine. 27 June 1996. *
- Invited speaker in workshop on Cortical representation of Pain: “Imaging studies in patients”. 8th World Congress on Pain. Vancouver. 17-18 August 1996. *
- “Brain responses to Pain”. Ciba-Geigy Symposium for Rheumatologists. Dublin. 12 November 1996. *
- “Imaging the pain responses in man”. UM Division of Neuroscience Seminars. 21 November 1996.
- “The physiology of pain”. Pain Symposium for General Practitioners. Bateman Postgraduate Centre, Birch Hill Hospital, Rochdale. 18 January 1997*
- **Invited Plenary Lecture**, Meeting of the European Federation of IASP Chapters, Barcelona. “Imaging pain - new insights into the causes of pain”. 27 September 1997*
- Invited Seminar, Meeting of the European Federation of IASP Chapters, Barcelona: “Pain in Rheumatological conditions”. 27 September 1997. *
- Invited Lecturer MRCPsych Part II Neuroscience Module. Manchester: “Pain Pathways opioid and other peptides and PET”. 3 October 1997 *
- Invited Lecture, Teaching Course on Neuropathic Pain, Spanish Neurological Society Annual Meeting, Barcelona. “Imaging Pain: the future”. 13 December 1997*.
- Invited Lecturer MRCPsych Part I Middlesex Hospital, London on: “Neural Mechanisms of Pain”. 22 September 1998.

- Education Update: Chronic Pain Management - British Rheumatological Society: "Central Perceptions of Rheumatic Pain". 10 September 1998.
- "Imaging Pain". Clinical Management of Chronic Pain Course, Walton Centre for Neurology and Neurosurgery - 4 November 1998.
- "What is New in Spinal Pain?". British Cervical Spine Society and the Society for Back Pain Meeting: Human Pain Imaging - New Insights into an Old Problem. 14 November 1998.
- "How Can Humans Replace Animals In Pain Research". Workshop On: "Humans Replacing Animals In Brain Research". Organised by the Dr Hadwen Trust: Aston University . 23-24 November 1998.
- "Why do we feel pain?" : Vaugham Williams guest Lecture and Dinner, Hertford College Oxford. 13 May 1999.*
- " Imaging Human Pain by PET ". 2nd FEPS Congress, Prague 30 June 1999 – 2 July 1999. *
- "The Challenge of Chronic Pain". Our Lady's Hospice Harold's Cross Dublin. 24 September 1999. *
- Rheumatology 2000: A national GP forum; "Inflammatory Joint Disease". Manchester 21 October 1999. *
- The Biological Basis of Chronic Fatigue Disorders: Invited discussant at Novartis Symposium. London 7-8 November 1999. *
- Invited lecturer at NW Branch of the BDA Hospitals Group: Chronic Facial Pain Symposium: Manchester 1 December 1999.*
- "Imaging Nociception in the Human Brain". Spinal Disorders Teaching Programme, The Robert Jones & Agnes Hunt Orthopaedic Hospital, Oswestry, Shropshire. 10 December 1999. *
- "PET scanning in chronic pain syndrome". MSc Course in Rheumatology, Guys Hospital, London. 1 March 2000. *
- "Developments in Prescribing for Musculoskeletal Pain - where do the Coxibs fit in?": Searle Pfizer-sponsored talk, Preston. July 2000. *
- "Functional division within the pain matrix and lateralisation". AstraZeneca, Alderley Edge. July 2000.
- "Chronic Pain Mechanisms". British Society for the Study of Vulval Disease, University of Manchester. 5 September .2000
- "Human Pain Nociceptive Systems: What new insights has PET provided?". Pain in Europe III - EFIC 2000, Nice. 26 September – 29 September 2000, *

- “Imaging the Human Nociceptive System using Positron Emission Tomography”. British Psychophysiology Society 29th Annual Meeting, Aston University, Birmingham. 17 - 19 September 2001
- “Imaging pain”. Current Concepts in Rheumatology. St George's Hospital Medical School, University of London. 15 May 2002
- “Pain and Opiates”. Janssen-Cilag Symposium, Birmingham University. July 2002. *
- “Post Stroke Pain”. Trafford General Stroke Team. October 2002.
- “Guidelines for the management of Pain in Primary Care”. Primary care guidelines meeting. Salford. 20th & 28th November 2002.
- “PET Scanning and the Perception of Pain”. Seminar: Hot Topics in Rheumatology. British Society for Rheumatology, AGM, Manchester International Convention Centre. 1 April 2003. *
- **Invited Plenary Lecture:** “Imaging the Brain during Pain Perception: Towards a More Rational Basis for Clinical Intervention”. 4th International Meeting of Lithuanian Pain Society. 29 April – 4 May 2003. *
- “Imaging the Ouch!”. Invited talk at a one day symposium: “Inside your brain: blue skies to better lives”. Organised by Prof Nancy Rothwell. BA Festival of Science. University of Salford. 9 September 2003.
- “Imaging pain perception and its modulation by opioids” New Pain Therapies: From the laboratory to the clinic. GSK Research Symposium Series. Third International Symposium, Verona Italy. 28 - 30 September 2003*.
- “Pain Management Strategies for the Rheumatologists”. Royal Liverpool Hospital and Mersey Rheumatology meeting. 26 November 2003.
- **Invited Plenary Lecture:** “Musculoskeletal Pain – What Drives It?” and “Musculoskeletal Pain – How Should we Assess It?” Conference of Lithuanian Rheumatologists. 6 – 8 May 2004 *.
- **Invited Plenary Lecture:** “Imaging Pain in Arthritis and Fibromyalgia”. Spanish Society for Rheumatology. 19 – 21 May 2004 *.
- “Imaging the Ouch”. Northwest Neuroscience Research Partnership, Wroughton. 22 June 2004
- “Pain, Time & Space in the Brain”. Neuroinjury Research, Salford. 28 May 2004.
- “Imaging pain and the effects of opioids”. Winter Brain Conference (European Neuroscience). Les Arcs, France. 9 March 2005 *
- **Invited Seminar:** “Cortical processing of pain” – International Association for the Study of Pain (IASP), Refresher Course Syllabus, IASP Meeting, Sydney, August, 2005.

- Presentation of “Musculoskeletal Pain Guidelines” (Anthony Jones – Working group Chair), BSR Conference, Glasgow, May 2006.
- “Central Processing of Pain” PANG Symposium, London May 2006.
- “All the pains, the brain and the answer to everything”, Hope Hospital, Manchester, June 2006.
- “Opioids and Central Post Stroke Pain” 5th IASP Research Symposium, Toronto, Canada, June 2006. (IASP Sponsored Workshop).
- “Functional imaging techniques for the assessment of pain in clinical pain practice”, 28th International Congress on Clinical Neurophysiology, Edinburgh, Sept 2006.
- **Chair of Topical Seminar** “Mechanisms and assessment of Musculoskeletal Pain” EFIC Pain in Europe V, Istanbul, Turkey, Sept 2006
- “Potential utility of imaging technologies in clinical trials”, Organon PET/Pain Advisory Board Meeting, Scotland, November 2006
- “The use of functional brain imaging to understand the mechanisms of somatic pain perception”, Pain Management Conference, Visiongain, London, December 2006.
- “Musculoskeletal Pain”, British Institute of Musculoskeletal Medicine Annual Symposium, Blackpool, March 2007.
- Invitation to Introduce a Key Question as “thought provoker” for discussion: “How do data from human subjects resemble or differ from animal experimental results? What are the advantages and disadvantages of human data?” Hadwen Trust, Focus on Alternatives – Workshop on human volunteer studies replacing pain research on animals. Leicester, April, 2007.
- “Central/Peripheral NeP – A Common Mechanism?” – Annual British Pain Society Meeting. Pfizer sponsored symposium – title: “What’s Different About Central Neuropathic Pain?” Glasgow, April 2007
- “Pain Imaging – what can be seen?” EULAR Congress, Barcelona, June 2007
- “Management of Musculoskeletal Pain” EULAR Congress, Barcelona, June 2007
Selected by the EULAR Scientific Committee to be published in the EULAR Conference Highlights
- Presented “Pain Guidelines” and organised meeting of Musculoskeletal Pain Special Interest Group to discuss “The Integrated Guidelines for the management of Musculoskeletal Pain”. BSR Annual meeting, Birmingham, 2007.
- Seminar on Arthritic Pain – Invited to present at Astra Zeneca, August 2007
- “Imaging expectancy of Pain” – Royal College of Physicians ‘The Science of Art and Healing’, London Sept 2007

C13. Major academic visits and collaborations in the UK and abroad:

Current collaborations:

1 University of Manchester

Neuroanatomy - Prof A Crossman.

Laser Photonics - Prof T King

Stroke Medicine - Dr PJ Tyrrell

Psychiatry - Prof F Creed, Prof JFW Deakin, Dr R Elliot, Dr P Strickland

ARC Epidemiology Group - Dr G McFarlane, Prof A Silman

Gastroenterology - Prof D Thompson, Dr Q Aziz

Psychological Medicine – Kerry Booker

Manchester Molecular Imaging Unit – Prof T Jones

ISBE – Prof Steve Williams

2. Other Universities in the U.K.

University College, London, Dept. of Cognitive Neurology, National Hospital for Neurology and Neurosurgery, - Prof RSJ Frackowiak & Prof C Frith

Oxford University, Centre for Functional Brain Imaging- Dr I Tracey

Oxford University, Department of Experimental Psychology – Dr Charles Spence

University College, London - MRC Centre for Motor Control, Dr John Rothwell

University of Liverpool, Pain Relief Foundation - Dr D Bowsher, Dr T Nurmikko

University of Lancaster, Dept. of Informatics - L Stergioulas & Prof C Xydeas

DSTL, London – Dr Geoff Barrett

University of Nottingham, Department of Rheumatology – Prof M Doherty

3 Universities outside U.K.

University of Pittsburgh - Dr SWG Derbyshire

CTI, Knoxville – Prof D Townsend.

Syracuse University - Prof BA Vogt.

University of Mainz, Germany – Prof R-D Treede

University of Udine, Italy – Prof C Porro

Université René Descartes, Paris – Prof Bernard Roques, Dr Florence Noble

Previous Collaborations:

- Dr Shirley Pierce (Dept. Psychology, UC), Prof. Pat Wall (Dept. Anatomy, UC), Dr Charlotte Feinman and Prof Malcolm Harris (Dept Oral Medicine, Eastman Dental Hospital); three year project to compare the central responses of patients with chronic psychogenic pain and inflammatory pain (Supported by an ESRC grant).
- Prof David Thomas (Dept Neurosurgery, Queens Square); collaborative project to quantitate changes in opioid receptor binding before and after successful and unsuccessful surgery for trigeminal neuralgia.
- Prof Brent Vogt, (Dept Physiology and Pharmacology, Bowman Gray School of Medicine of Wake Forest University, N. Carolina). Project to localise the nociceptive and attentional areas of human anterior cingulate cortex in relation to the known ultrastructural organisation of the anterior cingulate cortex. Wellcome funded visiting fellowship.

- Dr Vania Apkarian (Dept., Neurosurgery, SUNY Health Science Center, State University of NY, Syracuse) Localisation of the cerebral components of habituation and sensitisation to pain. Syracuse University Funded.
- Profs David Townsend, Keith Thulborn, Leonard Firestone, Mark Mintum (University of Pittsburgh Imaging Centre, Pennsylvania, USA.) Pilot study to compare the sensitivity of Functional Magnetic Resonance Imaging and Positron Emission Tomography in the detection of cerebral pain responses in man. Wellcome Trust funded.
- Prof L Firestone, Dr F Gyulai (University of Pittsburgh, Dept Anaesthesia) where I held an adjunct professorship 1995 – 1997. This was a major collaborative project (Wellcome Trust and Hadwen Trust funded) to compare cerebral responses in patients with low back pain and pain-free control subjects.

C14 Statement on Research:

- Previous research has concentrated on the development of new techniques to identify the network of brain structures in the human brain that is involved in nociceptive processing and some of the endogenous pharmacological processes that may modify this. We were the first group to achieve these two goals. The main applications have been in musculoskeletal and post-stroke pain. Candidate mechanisms for fibromyalgia and post-stroke pain have been identified by recent PET studies; funded by our Arthritis Research Campaign program grant and previous MRC grants.
- Future research will be focused on establishing a causal relationship between some of these candidate mechanisms and different types of chronic musculoskeletal pain. Having identified these, our long-term goal is to identify new therapeutic targets for modifying such abnormal brain mechanisms.

D ADMINISTRATION

University:

1995	Institute of Neuroscience Committee - Founder Member
1995	Imaging Strategy Committee
1996 - 1997	PET Implementation Committee
1997 - 1998	PET Scientific Advisory Group (Chair)
1998 - 1999	Human Pain Science R& D Group Leader.
2002 - 2006	Present Committee on MD and ChM Theses - University of Manchester
2002 -	Present Leader of Postgraduate Research in the Hope CAG
2002 - Present	Faculty Postgraduate Research committee
2003 - Present	fMRI users group committee.
2004 - Present	PET Neuroscience Principle Investigators Group.
2003 – Present	Clinical Lead – Musculoskeletal Pain SHIFT Group.
2004 – Present	Faculty Board.
2006 – Present	Neuroscience Research Institute Executive
2007 – Present	Lead : NRI Brain, Body & Behaviour research group

National:**2005 - date**

Lead – National Musculoskeletal Pain Guidelines Group
– British Society for Rheumatology and the Royal
College of Physicians.

International:**2004 – date**

Chair – International Association for the Study of Pain (IASP)
Musculoskeletal Pain Taskforce.

D6 Statement on administration:

My main current administrative duties are centered on the organisation of the Salford Human Pain Research Group, my multidisciplinary clinics and the organization of the IASP Musculoskeletal Pain Task Force. My main contribution to the University of Manchester has been to help facilitate a long-term strategy for the establishment of integrated PET facilities in Manchester. I am a member of the WMIC Principle Investigators Group. Our recently awarded MRC Co-Op should help facilitate this. I am involved in the development of the emerging Clinical Neuroscience theme as part of this process and also am closely involved in the functional imaging developments as a member of the Translational Imaging Users Committee. I am also on the Institute of Neuroscience Executive Group and the Faculty of Medical and Human Sciences Board. I have also made some substantial contributions to the development of a more streamlined post-graduate research administration within the Hope clinical academic group as the Tutor for PGR of the School of Translational Medicine.