

Awards and Grants, past 10 years

[NB. NJS as PI/Lead/Senior applicant unless otherwise stated]

2007	Burden Trust: Research grant supporting BNI Directorship - 3yrs; £240,000 John James Foundation: Stem Cell Lab conversion - 10yrs; £85,000 Serono: MS Clinical Research Centre - 10yrs; £100,000 The Myelin Project: Stem Cells and Myelin Repair - 1yr; £60,000
2008	King Kollakis Trust: MS Research Grant - 1yr; £60,000 Silverman Foundation: MS Stem Cell Research Grant - 5yrs; £300 000 Ataxia UK (Joint application with Dr A Wilkins) – 3 yrs; £157 185
2009	Patrick Berthoud Trust (Fellowship to Dr E Mallam) – 2 yrs; £100,000
2010	University of Bristol Research and Development Office/legacies – 3yrs, £100,000 Catholic Bishops of England and Wales: grant donation - £25,000
2011	Silverman Foundation, USA - \$1.1m
2012	MRC, Bone marrow stem cell research, £450 000 MRC Bone marrow stem cell trial: back translational studies £300,000 MS Trust; MRI scanning for cell therapy trial in MS £150 000
2013	Biogen, Novartis, Genzyme, Teva: combined grants of approx. £400,000 for new Southmead MS CRC MRC Pre-clinical In-vivo Functional Imaging for Translational Regenerative Medicine [<u>co-app't</u> £2.7m]

Publications

Over 200 publications, inc. various research papers largely on the subjects of MS, oligodendrocyte biology, stem cells, and inflammatory brain disease, including *Nature*, *The Lancet*, *Annals of Neurology*, *Brain*, *Glia*, etc.; and four books (Butterworth-Heinemann & CUP): *Immunological and Inflammatory Disorders of the Central Nervous System*; *New Treatments in Neurology*; *The A-Z of Neurology* and *Multiple Sclerosis*.

Selected papers: -

1. Scolding N, Houston A, Linington C, Morgan B, Campbell K, Compston A Oligodendrocytes activate complement but resist lysis by vesicular removal of membrane attack complexes. **Nature** (1989) 339, 620-22.
2. Moreau T, etc, Scolding N, Compston A. Preliminary evidence from magnetic resonance imaging for reduction in disease activity after lymphocyte depletion in multiple sclerosis. **Lancet** (1994) 344: 298-301
3. Scolding NJ, et al. An adult human oligodendrocyte progenitor. **Neuroreport** (1995) 6: 441-445
4. NJ Scolding et al. Oligodendrocyte progenitors are present in normal adult human tissue and in multiple sclerosis lesions (1998). **Brain** 121:2221-8
5. Scolding NJ et al. A β -related angiitis: primary angiitis of the CNS associated with CAA **Brain** (2005) 128:500-15.
6. Joseph F and Scolding NJ. CNS lupus - a study of 41 patients. **Neurology**. 2007 69:644-54.
7. Kemp, K. *et al.* MSC-secreted SOD promotes cerebellar neuronal survival. **J Neurochem**. 2010 114:1569-80
8. D Wraith, R.Pope, H.Butzkueven, H.Holder, P.Lowrey, M.Day, A.Gundlach, T.Kilpatrick, N. Scolding, and D.Wynick. A role for galanin in human and experimental inflammatory demyelination. **PNAS** (2009) 106:15466-71
9. Rice CM, Mallam E, Whone A, Walsh P, Brooks D, Kane N, Butler S, Marks D, Scolding N. Safety and feasibility of autologous BM cellular therapy in relapsing-progressive MS. **Clin Pharmacol Ther**. 2010 87:679-85.
10. Fusion between human mesenchymal stem cell and rodent cerebellar Purkinje cells. Kemp K, Gordon D, Wraith DC, Mallam E, Hartfield E, Uney J, Wilkins A, Scolding N. **Neuropathol Appl Neurobiol**. 2010 Sep 3 *in press* 2010
11. The MS risk sharing scheme. Scolding N. **BMJ**. 2010 Jun 3;340:c2882. doi: 10.1136/bmj.c2882
12. Kemp K, Mallam E, Hares K, Witherick J, Scolding N, Wilkins A. Mesenchymal stem cells restore frataxin expression and increase H₂O₂ scavenging enzymes in Friedreich ataxia fibroblasts. **PLoS One**. Epub 2011 Oct 7.
13. Bennetto L, Burrow J, Sakai H, Cobby J, Robertson NP, Scolding N. The relationship between relapse, impairment and disability in multiple sclerosis. **Mult Scler**. 2011 Oct;17(10):1218-24. Epub 2011 May 26.
14. Kemp K, Gray E, Wilkins A, Scolding N. Purkinje cell fusion and binucleate heterokaryon formation in multiple sclerosis cerebellum **Brain**, 135, 2962-72, 2012
15. Rice CM, Kemp, K, Wilkins A, Scolding NJ. Cell therapy for multiple sclerosis and other neurodegenerative diseases. [Invited Review] **Lancet**. 2013; 382, 1204 - 1213

Examples of articles/contributions in the lay media, societal and ethical issues, etc.

1. Various articles in Standpoint magazine [standpointmag.co.uk]
2. http://news.bbc.co.uk/panorama/hi/front_page/newsid_8040000/8040872.stm
3. http://www.bbc.co.uk/radio4/science/casenotes_tr_20070515.shtml.
4. BBC Radio 4 Debate on hybrid embryos. [www.flyonthewall.com/FlyBroadcast/wellcome.ac.uk/16May2008/]