CURRICULUM VITAE

PROFESSOR RICHARD REYNOLDS

Centre for Neuroinflammation and Neurodegeneration, Division of Brain Sciences
Imperial College London, Hammersmith Hospital Campus,
Du Cane Road, London W12 00N
Tel No. 020 7594 6668
E-mail: r.reynolds@imperial.ac.uk

EDUCATION

1975-1978. King's College, London University. Bachelor of Science (Hons) degree in Pharmacology.
1978-1981. King's College, London University. PhD in Neuropharmacology.

POSTS HELD

1982-1986. Postdoctoral Research Assistant, Neurochemistry Laboratory, Department of Pediatrics, University Childrens Hospital, University of Bern, Switzerland.

1986-1989. Postdoctoral Research Fellow, Department of Biochemistry, Imperial College, London.

1989-1994. Wellcome Senior Research Fellow in Basic Biomedical Science, Department of Biochemistry, Imperial College, London.

1994-1997. Senior Lecturer (Wellcome University Award), Department of Anatomy, Charing Cross and Westminster Medical School, London.

March 1997 – August 1997. Reader in Cellular Neurobiology, Department of Anatomy, Charing Cross and Westminster Medical School, London.

August 1997 – October 2000. Reader in Cellular Neurobiology, Head of Department, Department of Cellular and Molecular Neuroscience, Division of Neuroscience, Imperial College School of Medicine, Charing Cross Hospital Campus, London.

CURRENT POSTS

October 2000 - present. Professor of Cellular Neurobiology, Deputy Head of Division of Brain Sciences, Imperial College Faculty of Medicine, Hammersmith Hospital Campus, London. Head of Department of Cellular and Molecular Neuroscience, 1997-2010.

January 1998 - present. Director of the UK Multiple Sclerosis and Parkinson's Tissue Bank, Hammersmith Hospital, Imperial College, London.

June 2009 – present. Adjunct Professor, National Centre for Biomedical Engineering Sciences, National University of Ireland Galway.

April 2016 – present. Visiting Professor and Director of the Centre for Molecular Neuropathology, Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore.

CURRENT RESEARCH FUNDING

1) Multiple Sclerosis Society and Parkinson's UK. Programme grant. £2,527,000. July 2014 – June 2019. The UK MS and PD Tissue Bank at Imperial College. RR as principal applicant.

2) Multiple Sclerosis Society. Project grant. £282,279. June 2017-May 2020. The role of neuronal chemokine expression in the pathogenesis of multiple sclerosis. RR as principal applicant.

3) MedImmune Plc. PhD studentship. £150,466. October 2015-September 2019. Pathogenetic mechanisms in grey matter pathology in MS. RR as principal applicant.

4) National MS Society (USA). Project grant. $646,187. January 2017-December 2019. The role of meningeal inflammation induced cytokine signalling and mitochondrial dysfunction in neurodegeneration in progressive MS. RR as principal applicant.

5) LKC Medicine Singapore, Strategic Academic Initiative. SGD 1,000,000. August 2017-July 2020. The Singapore Brain Bank and Centre for Molecular Neuropathology.

6) Imperial College Healthcare Trust Biomedical Research Centre. Development Grant. £120,000. June 2017-May 2019. Single cell-type transcriptomics approach to understanding mechanisms of neurodegeneration in progressive MS.

RECENT SELECTED PUBLICATIONS – current H-index 46

Papadopoulos D, Rundle J, Patel R, Marshall I, Stretton J, Eaton R, Richardson JC, Gonzalez MI, Philpott KL, **Reynolds R** (2010) FTY720 ameliorates MOG-EAE by suppressing both cellular and humoral immune responses. J Neurosci Res 88:346–359.

Durrenberger PF, Fernando S, Kashefi SN, Ferrer I, J-J Hauw, Seilhean D, Smith C, Walker R, Al-Sarraj S, Troakes C, Palkovits M, Kasztner M, I Huitinga, Arzberger T, Dexter DT, Kretzschmar H and **Reynolds R** (2010) Effects of antemortem and postmortem variables on human brain mRNA quality: a BrainNetEurope study. J Neuropathol Exp Neurol 69:70-81.

Kim JY, Shen S, Dietz K, Seiser C, Howell O, **Reynolds R**, He Y, Casaccia-Bonnefil P (2010) Nuclear export of HDAC1 is induced by pathological conditions and is essential for the onset of axonal damage. Nature Neurosci. 13:180-189.

Serafini B, Severa M, Columba-Cabezas S, Rosicarelli B, Veroni C, Chiappetta G, Magliozzi R, **Reynolds R**, Coccia EM, Aloisi F (2010) Epstein-Barr virus latent infection and BAFF expression in B cells in the multiple sclerosis brain: implications for viral persistence and intrathecal B-cell activation. J Neuropath Exp Neurol. 69:677-693.

Howell OW, Rundle JL, Garg A, Komada M, Brophy PJ, **Reynolds R** (2010) Activated microglia mediate axo-glial disruption that contributes to axonal injury in multiple sclerosis. J Neuropath Exp Neurol. 69:1017-1033.

Magliozzi R, Howell OW, Reeves C, Roncaroli F, Nicholas R, Serafini B, Aloisi F and **Reynolds R** (2010) A gradient of neuronal loss and meningeal inflammation in multiple sclerosis. Ann Neurol. 68:477-493.

Lovato L, Willis SN, Rodig SJ, Caron T, Almendinger S, Howell O, **Reynolds R**, O'Connor KC, Hafler DA (2011) A network of B-cells populates the meninges and parenchyma of patients with MS. Brain 134:534-541.

Reynolds R, Roncaroli F, Nicholas R, Radotra B, Gveric D, Howell O (2011) The neuropathological basis of clinical progression in multiple sclerosis. Acta Neuropathol 122:155-170.

Howell OW, Reeves CA, Carassiti D, Nicholas R, Radotra B, Gentleman S, Roncaroli F, Gveric D, Serafini B, Aloisi A, Magliozzi R, **Reynolds R** (2011) Meningeal inflammation is widespread and linked to cortical pathology in multiple sclerosis. Brain 134:2755-2771.

Choi S, Howell OW, Carassiti D, Magliozzi R, Gveric D, Nicholas R, Muraro P, Roncaroli F, **Reynolds R** (2012) Meningeal inflammation plays a role in the pathology of primary progressive multiple sclerosis. Brain 135:2925-2937.

Durrenberger PF, Fernando S, Kashefi SN, Bonnert TP, Ferrer I, Seilhean D, Oumesmar BN, Schmitt A, Gebicke-Haerter PJ, Falkai P, Grunblatt E, Palkovits M, Arzberger T, Kretzschmar H, Dexter DT, **Reynolds R** (2012) Selection of novel reference genes for use in the human central nervous system: a BrainNet Europe study. Acta Neuropath 124:893-903.

Mathew A, Pakan JMP, Collin E, Wang W, McDermott K, Fitzgerald U, **Reynolds R***, Pandit A*. (2013) An *Ex-Vivo* Multiple Sclerosis Model of Inflammatory Demyelination using Hyperbranched Polymer. Biomaterials 34:5872-5882. Joint senior author. **IF 8.6.**

Abrahamsson SV, Angelini DF, Dubinsky AN, Morel E, Oh U, Jones J, Carassiti D, **Reynolds R,** Salvetti M, Calabresi PA, Coles A, Battistini L, Martin R, Burt RK, Muraro PA (2013) Non-myeloablative autologous haematopoietic stem cell transplantation expands regulatory cells and depletes IL-17 producing, mucosal associated invariant T cells in multiple sclerosis. Brain 136:2888-2903. **IF 9.2.**

Gardner C, Magliozzi R, Howell OW, Durrenberger P, Rundle J, **Reynolds R** (2013) Cortical grey matter demyelination can be induced by elevated pro-inflammatory cytokines in the subarachnoid space in MOG-immunised rats. Brain 136:3596-3608. **IF 9.2.**

Durrenberger PF, Fernando S, Kashefi SN, Bonnert TP, Seilhean D, Oumesmar BN, Schmitt A, Gebicke-Haerter PJ, Falkai P, Grunblatt E, Palkovits M, Arzberger T, Kretzschmar H, Dexter D, **Reynolds R** (2015) Common mechanisms in neurodegeneration and neuroinflammation: a BrainNet Europe gene expression microarray study. J Neural Transmission 122:1055-1068. **IF 2.4.**

Giannetti P, Politis M, Su P, Turkheimer FE, Malik O, Keihaninejad S, Wu K, Waldman A, **Reynolds R**, Nicholas R, Piccini P. (2015) Increased PK11195-PET binding in normal-appearing white matter in clinically isolated syndrome. Brain 138:110-119. **IF 9.2.**

Calabrese M, Magliozzi R, Ciccarelli O, Geurts JJG, **Reynolds R,** Martin R. (2015) Exploring the origins of grey matter damage in multiple sclerosis. Nature Rev Neurosci 16:147-158. **IF 31.4.**

Zhang A, Desmazieres A, Zonta B, Melrose S, Campbell G, Mahad D, Li Q, Sherman DL, **Reynolds R***, Brophy PJ*. (2015) Neurofascin 140 is an embryonic neuronal neurofascin isoform that promotes the assembly of the node of Ranvier. J Neurosci 35:2246-2254. Joint senior author. **IF 6.3.**

Gautier HOB, Evans KA, Volbracht K, James R, Sitnikov S, Lundgaard I, James F, Lao-Peregrin C, **Reynolds R**, Franklin RJM, Karadottir RT (2015) Neuronal activity regulates remyelination via glutamate signalling to oligodendrocytes progenitors. Nat Comm 6:2041. **IF 11.5**

Matthews PM, Roncaroli F, Waldman A, Sormani MP, De Stefano N, Giovannoni G, **Reynolds R** (2016) A practical review of the neuropathology and neuroimaging of multiple sclerosis. Pract Neurol 2016-001381.

Watkins LM, Neal JW, Loveless S, Michailidou I, Ranaglia V, Rees MI, **Reynolds R**, Robertson NP, Morgan BP, Howell OW (2016) Complement is activated in progressive multiple sclerosis cortical grey matter lesions. J Neuroinflammation 13:161. **IF 5.4.**

Raffel J, Wallace A, Gveric D, **Reynolds R**, Friede T, Nicholas R (2017) Patient-reported outcomes and survival in multiple sclerosis: a 10 year retrospective cohort study using the Multiple Sclerosis Impact Scale-29. PLOS Medicine 14:e1002346. **IF 15.2.**

Magliozzi R, Howell O, Nicholas R, Cruciani C, Castellaro M, Romualdi C, Rossi S, Pitteri M, Benedetti MD, Gajofatto A, Pizzini FB, Montemezzi S, Rasia S, Capra R, Bertoldo A, Facchiano F, Monaco S, [$]**Reynolds R**, [$]Calabrese M. (2018) Inflammatory intrathecal profiles and cortical pathology stratify multiple sclerosis patients. Ann Neurol advanced epub. **IF 10.0.**

Zeis, T, Howell OW, **Reynolds R**, Schaeren-Wiemers N (2018) Molecular pathology of Multiple Sclerosis lesions reveals a heterogeneous expression pattern of genes involved in oligodendrogliogenesis. Exp Neurol 305:76-88.