

Born 18th August, 1951 in Belfast, Northern Ireland (UK citizen).

education

1970-1973 University of Manchester. BSc (Physics) 1st class honours
1973-1977 King's College London. PhD (Biophysics) April 1978

career

1978-1981 Visiting Fellow, Laboratory of Molecular Genetics,
National Institute for Child Health and Human Development
National Institutes of Health, Bethesda, Maryland, USA
1981-1982 Visiting Associate, National Institutes of Health, USA
1982-1985 Staff Scientist, Division of Biochemistry,
National Institute for Medical Research, London
1985- present Lecturer, reader, then Professor of Biology, UCL
2001-2007 Head of Department of Biology, UCL
2012-2016 Director, Wolfson Institute for Biomedical Research, UCL

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marks of esteem

2007 Fellow of the Linnean Society of London
2010 Fellow of the Academy of Medical Sciences FMedSci
2012 Co-Chair/ Organizer, Gordon Research Conference on Myelin, Lucca, Italy
2013 Gail F Beach Lecture, Miami Project to Cure Paralysis, University of Miami
2013 Japan Society for the Promotion of Science (JSPS) Invitation Fellowship
2013 Fellow of the Royal Society FRS
2013-2023 Wellcome Trust Senior Investigator
2014 Steve Pfeiffer Memorial Lecture, University of Connecticut

selected publications, last 10 years (from 53 total over that period)

Jolly, S.*, Bazargani, N.*, Quiroga, A.C., Pringle, N.P., Attwell, D.[§], Richardson, W.D.[§] and Li, H.[§] (2018). G protein-coupled receptor 37-like 1 modulates astrocyte glutamate transporters and neuronal NMDA receptors and is neuroprotective in ischemia. *Glia* 66, 47-61. [§]joint senior authors

Tripathi, R. B., Jackiewicz, M., McKenzie, I.A., Kougioumtzidou, E., Grist, M. and Richardson, W.D. (2017). Remarkable stability of myelinating oligodendrocytes in mice. *Cell Reports* 21, 316-323.

Kougioumtzidou, E., Shimizu, T., Hamilton, N.B., Tohyama, K., Sprengel, R., Monyer, H., Attwell, D.[§] and Richardson, W.D.[§] (2017). Signalling through AMPA receptors on oligodendrocyte precursors promotes myelination by enhancing oligodendrocyte survival. *eLife* 2017;6:e28080 [§]joint senior

Espinosa-Medina, I., Saha, O., Boismoreau, F., Cettouh, Z., Rossi, F., Richardson, W.D. and Brunet, J.-F. (2016) The sacral autonomic outflow is sympathetic. *Science* 354, 893-897.

Xiao, L., Ohayon, D., McKenzie, I.A., Sinclair-Wilson, A., Wright, J.L., Fudge, A.D., Emery, B., Li, H. and Richardson, W.D. (2016). Rapid production of new oligodendrocytes is required in the earliest stages of motor-skill learning. *Nat Neurosci* 19, 1210-1217.

Ohayon, D., Garcès, A., Joly, W., Soukkaieh, C., Yageki, T., Sabourin, J.-C., Agius, E., Darling, D.S., De Santa Barbara, P., Higashi, Y., Stolt, C.C., Hugnot, J.-P., Richardson, W.D., Carroll, P. and Pattyn, A. (2016). Onset of spinal cord astrocyte precursor emigration from the ventricular zone involves the Zeb1 transcription factor. *Cell Reports* 17, 1473-1481.

Marques, S., Zeisel, A., Codeluppi, S., van Bruggen, D., Mendanha Falcão, A., Xiao, L., Häring, M., Hochgerner, H., Romanov, R.A., Gyllborg, D., Muñoz Machado, A., La Manno, G., Lönnerberg, P., Rezayee, F., Ernfors, P., Arenas, E., Hjerling-Leffler, J., Harkany, T., Richardson, W.D., Linnarsson, S. and Castelo-Branco, G. (2016). Oligodendrocyte heterogeneity in the mouse juvenile and adult central nervous system. *Science* 352, 1326-1329.

Crawford, A.H., Tripathi, R.B., Richardson, W.D.* and Franklin, R.J.M.* (2016). The developmental origin of oligodendrocyte lineage cells determines their response to demyelination and susceptibility to age-related decline. *Cell Reports* 15, 761-773. *joint senior authors.

McKenzie, I.A., Ohayon, D., Li, H., Paes de Faria, J., Emery, B., Tohyama, K. and Richardson, W.D. (2014). Motor skill learning requires active central myelination. *Science* 346, 318-322.

Young, K.M., Psachoulia, K., Tripathi, R.B., Dunn, S.-J., Cossell, L., Attwell, D., Tohyama, K. and Richardson, W.D. (2013). Oligodendrocyte dynamics in the healthy adult CNS: evidence for myelin remodelling. *Neuron* 77, 873-885.

Li, H., Paes de Faria, J., Andrew, P., Nitarska, J. and Richardson, W.D. (2011). Phosphorylation regulates OLIG2 cofactor choice and the motor neuron-oligodendrocyte fate switch. *Neuron* 69, 918-929.

Rivers, L.E., Young, K.M., Rizzi, M., Jamen, F., Psachoulia, K., Wade, A., Kessaris, N. and Richardson, W.D. (2008). PDGFRA/NG2-positive glia generate myelinating oligodendrocytes and piriform projection neurons in adult mice. *Nat. Neurosci.* 11, 1392-1401.

Selected from 140 publications total. "h-index" 73, >18,900 lifetime citations (excluding self-citations). >400 citations/year in each of the past 20 years (>1000/year since 2016). 58 articles cited ≥100 times. (Web of Science).

current and recent funding

2019-2023	Wellcome Trust Investigator Award 214286/Z/18/Z "Adaptive myelination in learning and memory" <i>sole applicant</i>	£1.3M
2019-2022	BBSRC Research Grant BB/S008934/1 "Control of oligodendrocyte development by OLIG2 and chromatin remodelling complexes" <i>principal applicant</i>	£505k
2015-2020	Wellcome Trust Strategic Award 108726/Z/15/Z "Functional neuromics of the cerebral cortex" <i>co-applicant</i> with Kenneth Harris (UCL, principal applicant), and others at UCL, Oxford U and Karolinska Institute	£300k (of £4.19M total)
2013-2019	Wellcome Trust Senior Investigator Award 100269/Z/12/Z "Transcriptional control of CNS myelination in development and maturity" <i>sole applicant</i>	£1.95M
2012-2017	European Research Council Advanced Grant "Ideas" Programme 293544 "MOTOGLIA: axoglial synapses, adult myelination and motor skills learning" <i>sole applicant</i>	€2.47M