

## Robert Justin Williams BSc PhD

Reader in Molecular and Cellular Neuroscience

Dept of Biology and Biochemistry, University of Bath, Claverton Down, Bath, BA2 7AY

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### Employment:

2009-                      Reader in Molecular and Cellular Neuroscience, University of Bath, UK  
2004-2009                Senior Lecturer in Biochemistry, Wolfson Centre For Age-Related Disease, School of Biomedical and Health Sciences, King's College London, UK  
1995-2004                Lecturer in Biomolecular Sciences, School of Biomedical and Health Sciences, King's College London (UMDS until merger with KCL in 1998), UK  
1993-1995                INSERM Research Fellow, College de France, Paris, France  
1993.                      Postdoctoral Research Associate, Dept. Pharmacology, University of Bristol, UK

### Education:

1986                      BSc (Hons), University of Leeds, UK  
1990                      PhD, University of Leeds, UK

### Membership of Scientific Advisory Boards

- Michael J Fox Foundation: *ad hoc* member 2013 -
- Alzheimer's Research UK SAB: 2013 - 2018

### Membership of Editorial Boards

- *Nutrition and Aging* (2012 - )
- *Neurochemistry International* (2015 - )
- *Journal of Neurochemistry* (1998 - 2010)

### Research Profile

Expert in the area of synaptic signalling, oxidative stress and in the neuroprotective properties of dietary flavonoids. Research areas relate to: glutamate receptors; Ca<sup>2+</sup> signalling; oxidative stress; dietary antioxidants; Alzheimer's Disease, amyloid precursor protein (APP) processing; amyloid  $\beta$ ; development of novel metal chelators and biomarker identification. Technical expertise in the development of cell platforms for studying proteostasis in neurones, astrocytes and microglia and for screening novel neuroprotective compounds.

### Career Grant Support:

BBSRC, MRC, Wellcome Trust, MND, Alzheimer's Society, ARUK, Dunhill, BRACE.

### Selected Publications:

Cox CJ, Choudhry F, Peacey E, Perkinson MS, Richardson JC, Howlett, DR, Lichtenthaler SF, Francis PT, Williams RJ (2015). Dietary (-)-epicatechin as a potent inhibitor of  $\beta\gamma$ -secretase amyloid precursor protein processing. *Neurobiology of Aging*, 36, 178-

Williams RJ, Spencer, JPE (2012) Flavonoids, cognition, and dementia: Actions, mechanisms, and potential therapeutic utility for Alzheimer disease. *Free Radical Biology and Medicine*, 52, 35-

Bahia PK, Rattray M, Williams, RJ (2008) Dietary flavonoid (-)-epicatechin stimulates PI3-kinase dependent anti-oxidant response element activity and up-regulates glutathione in cortical astrocytes. *Journal of Neurochemistry* 106, 2194-

Schroeter H, Bahia P, Spencer JP, Sheppard O, Rattray M, Cadenas E, Rice-Evans C, Williams RJ (2007) (-)-Epicatechin stimulates ERK-dependent cyclic AMP response element activity and up-regulates GluR2 in cortical neurons. *J Neurochemistry* 101, 1596-

Williams RJ, Spencer JPE, Rice-Evans C (2004) Flavonoids: antioxidants or signalling molecules? *Free Radical Biology and Medicine* 36, 838-

