

**Matthew Sadgrove**

*Postdoctoral Research Associate*  
Division of Molecular Pharmaceutics

**Street Address**

Division of Molecular Pharmaceutics  
UNC Eshelman School of Pharmacy  
CB #7362  
Genetic Medicine Building, Rm 1048  
Chapel Hill, NC 27599-7362

**Contact Information:**

Email: [mpsadgrove@unc.edu](mailto:mpsadgrove@unc.edu)  
Office: 919-966-7778

**Education**

2004 Ph.D., Neuroscience, School of Medicine, University of Southampton, UK  
2000 MSc, Biochemical Pharmacology, School of Biological Sciences, University of Southampton, UK  
1998 BSc(Hons), Biochemistry with Chemistry, School of Biological Sciences, University of Southampton, UK

**Employment**

Sept 2009 – Present, Postdoctoral Research Associate, University of North Carolina - Chapel Hill, Eshelman School of Pharmacy, Division Molecular Pharmaceutics

Jan 2009- April 2009, Tax Associate, H+R Block, Durham, NC

Sept 2003 – Dec 2008, Associate in Research, Duke University Medical Center, Department of Surgery, Division of Neurosurgery

**Background**

In 2003 I took a Post-doc position at Duke University, when I wasn't investigating the effects of hypoglycemia on the hippocampus I planned to see a bit of the US and then after a couple of years head back to the UK and a proper job, etc. 7 years later, the plan has gone pleasantly awry. Having still only seen a very little bit of the US (San Diego and Ely, Minnesota are the only trips west of the Appalachians) I am stuck here with a young family to occupy most of my free time and an old house to consume the little that is left - those dreams of travel must wait for retirement and an RV. The triathlons of college days (swim, bike and run) have mellowed into the triathlons of suburbia (T-ball,

decorating and mowing – always mowing, I've never seen grass grow so fast as it does here).

## **Publications**

Galeffi F, Foster KA, **Sadgrove MP**, Beaver CJ, Turner DA (2007) Lactate uptake contributes to the NAD(P)H biphasic response and tissue oxygen response during synaptic stimulation in area CA1 of rat hippocampal slices. *J Neurochem.* 103(6):2449-2461.

**Sadgrove MP**, Beaver CJ, Turner DA (2007) Effects of relative hypoglycemia on LTP and NADH imaging on rat hippocampal slices. *Brain res.* 1165(1):30-39.

**Sadgrove MP**, Laskowski A, Gray WP (2006) Examination of granule layer cell count, cell density, and single-pulse BrdU incorporation in rat organotypic hippocampal slice cultures with respect to culture medium, septotemporal position, and time in vitro. *J Comp Neurol.* 497(3): 397-415.

**Sadgrove MP**, Chad JE, Gray WP (2005) Kainic acid induces rapid cell death followed by transiently reduced cell proliferation in the immature granule cell layer of rat organotypic hippocampal slice cultures. *Brain Res.* 1035(2): 111-9.

McManus T\*, **Sadgrove M\***, Pringle AK, Chad JE, Sundstrom LE. (2004) Intraischemic hypothermia reduces free radical production and protects against ischaemic insults in cultured hippocampal slices. *J Neurochem.* 91(2): 327-36.

Huttmann K\*, **Sadgrove M\***, Wallraff A\*, Hinterkeuser S, Kirchhoff F, Steinhauser C, Gray WP. (2003) Seizures preferentially stimulate proliferation of radial glia-like astrocytes in the adult dentate gyrus: functional and immunocytochemical analysis. *Eur J Neurosci.* 18(10): 2769-78.

\* authors contributed equally to this work.