

Dr Mandy Jackson  
**Selected publications**

**2011**

Gao Y, Perkins EM, Clarkson YL, Tobia S, Lyndon AR, Jackson M, Rothstein JD (2011) Beta-III spectrin is critical for development of Purkinje cell dendritic tree and spine morphogenesis. *J Neuroscience* 31, 16581-90

**2010**

Gordon-Keylock SAM, Jackson M, Huang CX, Samuel K, Axton RA, Oostendorp RAJ, Taylor H, Wilson J, Forrester LM Induction of Hematopoietic Differentiation of Mouse Embryonic Stem Cells by an AGM-Derived Stromal Cell Line is Not Further Enhanced by Overexpression of HOXB4. *Stem Cells and Development* 19:1687-1698.

Clarkson YL, Gillespie T, Perkins EM, Lyndon AR and Jackson M (2010) Beta-III spectrin mutation L253P associated with spinocerebellar ataxia type 5 interferes with binding to Arp1 and protein trafficking from Golgi. *Hum. Mol. Genet.* 19: 3634-3641

Yamamoto-Watanabe Y, Watanabe M, Hikichi M, Ikeda Y, Wakasaya Y, Jackson M, Matsubara E, Kawarabayashi T, Kannari K and Shoji M (2010) Prevalence of autosomal dominant spinocerebellar ataxia in Aomori, the northern prefecture of Honshu, Japan *Intern Med* (in press)

Watanabe M, Adachi Y, Jackson M, Yamamoto-Watanabe Y, Wakasaya Y, Shirahama I, Takamura A, Matsubara E, Kawarabayashi T, Shoji M (2010). An unusual case of elderly-onset CADASIL with multiple cerebrovascular risk factors. *J Stroke Cerebrovasc Dis.* (in press)

Watanabe M, Okamoto K, Fujita Y, Jackson M, Ikeda M, Nakazato Y, Yamamoto-Watanabe Y, Shirahama I, Ikeda Y, Takamura A, Matubara E, Kawarabayashi T, Wakasaya Y and Shoji M (2010). A Japanese ALS6 family with mutation R521C in the FUS/TLS gene: a clinical, pathological and genetic report *J. Neurol. Sci.* 296; 59-63

Perkins EM, Clarkson YL, Sabatier N, Longhurst DM, Millward CP, Jack J, Toraiwa J, Watanabe M, Rothstein JD, Lyndon AR, Wyllie DJA, Dutia MB & Jackson M (2010). Loss of  $\beta$ -III spectrin leads to Purkinje cell dysfunction recapitulating the behaviour and neuropathology of SCA5. *J Neurosci* 30: 4857-4867

**2009**

Wakasaya Y, Watanabe M, Tomiyama M, Suzuki C, Jackson M, Fujimuro M, Kimura T, Seino Y, Kawarabayashi T, Yamamoto-Watanabe Y, Matsubara E, Shirahama I, Takamura A, Nakahata N, Shoji M (2009). An unusual case of chronic relapsing tetanus associated with mandibular osteomyelitis. *Intern Med.* 48: 1311-1313

**2008**

Watanabe M, Monai N, Jackson M, Yamamoto-Watanabe Y, Ikeda Y, Suzuki C, Tomiyama M, Kawarabayashi T, Kimura T, Seino Y, Wakasaya Y, Miki Y, Matsubara E, Shoji M (2008) A small trinucleotide expansion in the TBP gene gives

rise to a sporadic case of SCA17 with abnormal putaminal findings on MRI. *Intern. Med.* 47:2179-2182

Suzuki C, Watanabe M, Tomiyama M, Sugimoto K, Nanba E, Jackson M, Arai A, Kimura T, Seino Y, Wakasaya Y, Kawarabayashi T, Miki Y, Shoji M (2008) A novel mutation in the arylsulfatase A gene associated with adult-onset metachromatic leukodystrophy without clinical evidence of neuropathy. *Eur. Neurol.* 60: 310-311

### **2006**

Longhurst DM, Watanabe M, Rothstein JD, and Jackson M (2006) Interaction of PDZrhoGEF with microtubule-associated protein 1 light chains: Link between microtubules, actin cytoskeleton and neuronal polarity. *J. Biol. Chem.* 281: 12030-12040

Ganel R, Ho T, Maragakis N, Jackson M, Steiner J, and Rothstein JD (2006) Selective up-regulation of the glial Na<sup>+</sup>-dependent glutamate transporter GLT1 by a neuroimmunophilin ligand results in neuroprotection. *Neurobiol. Dis.* 21: 556-67

Watanabe M, Jackson M, Ikeda M, Mizushima K, Amari M, Takatama M, Hirai S, Ikeda Y, Shizuka-Ikeda M, Okamoto K (2006). Genetic analysis of the cystatin C gene in familial and sporadic ALS patients. *Brain Res.* 20:1073-1074

### **2003**

Maragakis NJ, Jackson M, Ganel R, Rothstein JD (2003). Topiramate protects against motor neuron degeneration in organotypic spinal cord cultures but not in G93A SOD1 transgenic mice. *Neurosci. Letts.* 338:107-110

### **2002**

Wells CD, Liu M-Y, Jackson M, Gutowski S, Sternweis PM, Rothstein J.D, Kozasa T, Sternweis PC (2002). Mechanisms for reversible regulation between G13 and Rho exchange factors. *J. Biol. Chem.* 277:1174-81

Jackson M, Llado J, Rothstein J.D (2002). Therapeutic developments in the treatment of amyotrophic lateral sclerosis. *Expert. Opin. Investig. Drugs* 11:1343-1364

### **2001**

Jackson M, Song W, Liu M-Y, Jin L, Dykes-Hoberg M, Lin, C-LG, Bowers WJ, Federoff HJ, Sternweis PC and Rothstein JD (2001). Modulation of the neuronal glutamate transporter EAAT4 by two interacting proteins. *Nature* 410:89-93

Lin C.G, Orlov I, Ruggiero AM, Dykes-Hoberg, Lee A, Jackson M, Rothstein J.D (2001). Modulation of the neuronal glutamate transporter EAAC1 by an interacting protein GTRAP3-18. *Nature* 410:84-88

### **1999**

Jackson M, Steers G, Leigh PN and Morrison KE (1999). Polymorphisms in the glutamate transporter gene EAAT2 in European ALS patients. *J. Neurol.* 246:1140-1144

Evangelou N, Jackson M, Beeson D and Palace J (1999). Association of the APOE epsilon4 allele with disease activity in multiple sclerosis. *J. Neurol. Neurosurg. Psychiatry* 67:203-205

**1997**

Jackson M, Al-Chalabi A, Enayat ZE, Chioza B, Leigh PN and Morrison KE (1997). Copper/zinc superoxide dismutase 1 and sporadic amyotrophic lateral sclerosis: analysis of 155 cases and identification of a novel insertion mutation. *Ann. Neurol.* 42:803-807

**1996**

Jackson M, Morrison KE, Al-Chalabi A, Bakker M and Leigh PN (1996). Analysis of Chromosome 5q13 Genes in Amyotrophic Lateral Sclerosis: Homozygous NAIP deletion in a Sporadic Case. *Ann. Neurol.* 39:796-800

Horrocks P, Jackson M, Cheesman S, White JH and Kilbey BJ (1996). Stage specific expression of Proliferating Cell Nuclear Antigen and DNA Polymerase  $\delta$  from *Plasmodium falciparum*. *Mol. Biochem. Parasitol.* 79:177-182