

Curriculum vitae: Lawrence Moon

Wolfson Centre for Age-Related Diseases
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Employment

- 2005- present Research Councils UK Academic Fellow
 Wolfson Centre for Age-Related Diseases, King's College London
 Guy's Campus, 16 - 18 Newcomen Street, London, SE1 1UL, UK
- 2001 - 2005 Miami Project to Cure Paralysis, 1095 NW 14th Terrace, Miami, FL 33136, USA
 Post-doctoral researcher within laboratory of Prof. Mary Bartlett Bunge
 Associate member of the Christopher Reeve Foundation Research Consortium

Grants

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| Medical Research Council | "Enhancing axon growth and functional recovery after stroke".
£354,000 01/2007 - 01/2010 |
| King's College London | "Use of gene therapy techniques to promote CNS axon growth"
£53,868 10/2005 - 10/2010 |
| Royal Society | "Towards therapeutics for axon regeneration"
£14,384 04/2006 - 04/2007 |
| King's College London | Formulaic allocation of PhD studentship plus consumables
£65,000 10/2006 - 10/2009 |
| Research Councils UK | RCUK Academic Fellowship, to King's College London
£125,000 10/2005 - 10/2010 |
| British Pharmacological Society | Integrative Pharmacology Fund Grant, to King's College London
£125,000 10/2005 - 10/2010 |

Peer-reviewed Publications

1. **Moon LDF**, Madani R, Vassalli, J-D, Bunge M (2006) Neuronal overexpression of tissue type plasminogen activator does not enhance sensory axon regeneration or locomotor recovery following dorsal hemisection of adult mouse thoracic spinal cord. *J Neuroscience Research* 84:1245-1254.
2. Thuret S, **Moon LDF**, Gage FH (2006) Therapeutic interventions after spinal cord injury. *Nature Reviews Neuroscience* 7:628-643.
3. **Moon LDF**, Leasure JL, Gage FH, Bunge MBB (2006) Motor enrichment decreases mortality and maintains recovered hindlimb movement after thoracic spinal cord injury. *Restorative Neurology and Neuroscience* 24:147-161.
4. Hill CE, **Moon LDF**, Wood PW, Bunge MBB (2006) Labeled Schwann cell transplantation: Cell loss, host Schwann cell replacement, and strategies to enhance survival. *Glia* 53:338-343.
5. Hurtado A, **Moon LDF**, Maquet V, Blits B, Jerome R, Oudega M (2006) Poly (D,L-lactic acid) macroporous guidance scaffolds seeded with Schwann cells genetically modified to secrete a bi-functional neurotrophin implanted in the completely transected adult rat thoracic spinal cord. *Biomaterials*. 27:430-42
6. Changes in NGF- and pain-related genes during collateral sprouting revealed by microarray analysis Petruska JC, **Moon LDF**, Lee Y, Bunge MB, Mendell L. *Society for Neuroscience Abstracts* 2006
7. **Moon LDF**, Bunge MBB (2005) Recent laboratory advances in spinal cord neuroregeneration. *Journal of Neurologic Physical Therapy* 29:55-69.
8. Oudega M, **Moon LDF**, Leme R. (2005) Schwann cells for spinal cord repair. *Brazilian Journal of Medical and Biological Research*. 38:825-835.

9. Aimone JB, Leasure JL, Perreau VM, Thallmair M, The Christopher Reeve Paralysis Foundation Research Consortium. (2004). Spatial and temporal gene expression profiling of the contused rat spinal cord. *Experimental Neurology* 189:204-21.
10. **Moon LDF**, Asher RA, Fawcett JW (2003) Limited increase in sprouting of severed CNS axons following treatment of adult rat brain with hyaluronidase. *Journal of Neuroscience Research* 71:23-37.
11. Rhodes KE, **Moon LDF**, Fawcett JW (2003) Inhibiting cell proliferation during formation of the glial scar: effects on axon regeneration in the CNS. *Neuroscience* 120:41-56.
12. Bradbury EJ, **Moon LDF**, Popat RJ, King VR, Bennett GS, Patel PN, Priestley JV, Fawcett JW, McMahon SB (2002) Chondroitinase ABC promotes axon regeneration and functional recovery following spinal cord injury. *Nature* 416:636-40.
13. **Moon LDF**, Asher RA, Rhodes KE, Fawcett JW (2002) Relationship between sprouting axons, proteoglycans and glial cells following unilateral nigrostriatal axotomy in the adult rat. *Neuroscience* 109:101-117.
14. **Moon LDF**, Fawcett JW (2001) Reduction in CNS scar formation without concomitant increase in axon regeneration following treatment of adult rat brain with a combination of antibodies to transforming growth factors b1 and b2. *European Journal of Neuroscience* 14:1667-1677.
15. Asher RA, Morgenstern DA, **Moon LDF**, Fawcett JW (2001) Chondroitin sulphate proteoglycans: inhibitory components of the glial scar. *Progress in Brain Research* 132:611-619
16. **Moon LDF**, Asher RA, Rhodes KE, Fawcett JW (2001) Regeneration of CNS axons back to their target following treatment of adult rat brain with chondroitinase ABC. *Nature Neuroscience* 4:465-466.
17. **Moon LDF**, Brecknell JE, Franklin RJ, Dunnett SB, Fawcett J.W. (2000) Robust regeneration of CNS axons through a track depleted of CNS glia. *Experimental Neurology* 161:49-66.

Education

- 1997 - 2001 Brain Repair Centre, University of Cambridge, U.K.
 Ph.D. completed within laboratory of Prof. James Fawcett.
 Thesis entitled "Axon regeneration in the adult rat nigrostriatal tract"
- 1993 - 1997 Jesus College, University of Oxford, U.K.
 Top first in B.A. (Hons) in Psychology, Philosophy and Physiology.
- 1987 - 1992 Tonbridge School, Kent, U.K.
 'A' levels in mathematics, further mathematics, physics and chemistry.
 'AO' levels in mathematics and French, ten G.C.S.Es.

Teaching duties

I teach in the departments of Pharmacology and Physiology, providing lectures and practicals on spinal cord injury and stroke. I am also joint course organiser and curriculum designer for a forthcoming "Animal models of disease and injury" second year undergraduate course.

I currently supervise two PhD students, Tom Hutson and Sara Soleman. I have also supervised the research projects of many BSc and MSc students in my laboratory. Notably, three have won distinctions or first class awards for their research projects.

As an RCUK fellow, I also undertake outreach to schools, discussing methods for developing therapies for stroke and spinal cord injury.