

Wutian Wu, MD, PhD

Professor

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Wutian Wu, graduated from Sun Yat-Sun University Medical Sciences, Guangzhou, Guangdong, China in 1975, obtained MS degree from the same University in 1981 and PhD degree from Eastern Virginia Medical School, Norfolk, Virginia, USA in 1991. He received his postdoctoral training in Department of Plastic surgery at Eastern Virginia Medical School and received a faculty appointment of Department of Neurosurgery from the same Medical school from 1993 to 1996. Since 1996, Dr. Wu has been working as assistant professor to professor in the Department of Anatomy, LKS Faculty of Medicine, The University of Hong Kong. Dr. Wu's research focuses on neuronal injury (mainly spinal cord and peripheral nerve injury) and axonal regeneration. His recent research focuses on the potential application of neural stem cells for the treatment of spinal cord injury. He has received over 30 research grants with more than HK\$30M. Dr. Wu has published over 100 peer review papers in international journals such as Nature Medicine, Nature Methods, PNAS, Development, Exp Neurol, Brain Res, J Neurotraum which and received good citation. Dr. Wu is an international recognized scientist in the field of nitric oxide and its role in neuronal injury. He was invited to prepare a chapter for a volume in the series Handbook of Chemical Neuroanatomy (the topic of this volume is "Functional Neuroanatomy of the Nitric Oxide System"). Authors of this series Handbook are experts in the field and have been carefully selected from the renowned scientific centers throughout the world. These authors are internationally recognized in the field. Among them is Dr. L.J. Ignarro who was the Winner of the 1998 Nobel Prize in Medicine.

5 representative papers:

1. Zhan XD, Gao MY, Jiang YW, Zhang WW, Wong WM, Yuan QJ, Su HX, Kang XN, Dai X, Zhang WY, Guo JS, **Wu W**, Nanofiber scaffolds facilitate functional regeneration of peripheral nerve injury, *Nanomedicine*, 9:305-315, 2013. (Selected as cover story and feature article).
2. Wang LH, Wang LL, Huang WH, Su HX, Xue YT, Su ZH, Liao BJ, Wang HT, Bao XC, Qin DJ, He JF, **Wu W**, So KF, Pan GJ and Pei DQ. Generation of integration-free neural progenitor cells from cells in human urine. *Nature Methods*, 10:84-89, 2013.
3. Su HX, Zhang WM, Yang XY, Wu CY, Sang YH, Wong WM, Yuan QJ, So KF, **Wu W**: Neural progenitor cells generate motoneuron-like cells to form functional connections with target muscles after transplantation into the musculocutaneous nerve. *Cell transplantation*, 21: 2651-2663, 2012.
4. Su HX, Zhang WM, Guo JS, Guo AC, Yuan QJ, **Wu W**. Neural progenitor cells enhance the survival and axonal regeneration of injured motoneurons after transplantation into the avulsed ventral horn of adult rats. *J. Neurotrauma*, 26(1):67-80, 2009.
5. Mi S, Hu B, Hahm K, Luo Y, Hui SK, Yuan Q, Wong WM, Wang L, Su HX, Chu TH, Guo JS, Zhang WM, So KF, Pepinsky B, Shao ZH, Graff C, Garber E, Jung V, Wu XK, **Wu W**: LINGO-1 Antagonist Promotes Spinal Cord Remyelination and Axonal Integrity in MOG-Induced Experimental Autoimmune Encephalomyelitis. *Nature Medicine*, 13:1228-1233, 2007. (Selected as cover image and story).