

Curriculum Vitae

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Education

Master degree of Medicine - Tongji Medical University, P. R. China (Sept. 1991 – July 1994)
Bachelor degree of Medicine - Hubei Medical College Xianning Branch, P.R. China (Sept. 1984 – July 1989)

Research Experience

Dec., 1997- present: Dept. of Neurology, Yale University Medical School, New Haven (USA)
June, 1994- Nov., 1997: Dept. of Biomedical Engineering, Research Center of Experimental
Medicine, Tongji Medical University (China)
Sept., 1991-June, 1994: Dept. of Pharmacology, Tongji Medical University (China)

Membership

Chinese Neuroscience Society
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Publications

1. **Wu, Y.**, W. Wang, A. Diez-Sampedro & G.B. Richerson. Nonvesicular inhibitory neurotransmission via reversal of the GABA transporter GAT-1. *Neuron* 56(5): 851-65, 2007.
2. **Wu, Y.**, W. Wang & G.B. Richerson. The transmembrane sodium gradient influences ambient GABA concentration by altering the equilibrium of GABA transporters. *J Neurophysiol* 96: 2425-2436, 2006.
3. Richerson, G.B. & **Y. Wu**. Role of the GABA transporter in epilepsy. *Adv Exp Med Biol.* 548: 76-91, 2004.
4. Richerson, G.B. & **Y. Wu**. The dynamic equilibrium of neurotransmitter transporters: Not just for reuptake anymore. *J Neurophysiol* 90:1363-1374, 2003.
5. **Wu, Y.**, W. Wang & G.B. Richerson. Vigabatrin induces tonic inhibition via GABA transporter reversal without increasing vesicular GABA release. *J Neurophysiol* 89(4): 2021-2034, 2003.
6. **Wu, Y.**, W. Wang & G.B. Richerson. GABA transaminase inhibition induces spontaneous and enhances depolarization-evoked GABA efflux via reversal of the GABA transporter. *J Neurosci* 21(8):2630-2639, 2001.
7. **Wu YM**, Li YJ, Ao MZ, Jia JF. Protective effect of neferine on oxygen free radicals-induced damage of vascular endothelial cells. *Chinese Journal of Pharmacology and Toxicology*, 1997, 11(1):27-30
8. **Wu YM**, Wang AJ, et al. Influence of enkephalin on hippocampal IL-1 α gene expression and the proliferation of splenic lymphocytes in rat. *Acta Universitatis Medicines Tongji*, 1996, 25(6):413-416
9. Wang AJ, Yang YZ, **Wu YM**, et al. Effect of intrahippocampal microinjection of enkephalin on cellular immune function and brain IL-1 gene expression in rat. *Acta Physiologica Sinica*, 1996, 48(4):348-354
10. **Wu YM**, Hu BR, Jia JF. Effect of neferine on change of coronary vascular resistance induced by oxygen free radicals in the isolated rat hearts. *Chinese Journal of Pharmacology and Toxicology*, 1996, 10(2):116-119

11. **Wu YM**, Hu BR, Jia JF. Protective effect of neferine on electrolysis-induced oxygen free radicals injury heart in rat. *Chinese Pharmacological Bulletin*, 1996,12(4):325-328
12. Hu MX, Wang AJ, Xie H, **Wu YM**, et al. The discharging model of neurons of cerebral cortex and hippocampus in *Cariaria Lactone*-induced epilepsy rats. *Acta Universitatis Medicinea Tongji*, 1996, 25(6):425-428
13. **Wu YM**, Gao N, et al. Influence of enkephalin on the cultured hippocampal gliocytes interleukin-1 α gene expression in neonatal rat. *Chinese Journal of Pharmacology and Toxicology*, 1996,10(3):200-203.
14. **Wu YM**, Jia JF. Oxygen free radicals and vascular endothelium., *Chinese Pharmacological Bulletin*, 1995, 11(1):15-19 (Review)

Recent Abstracts

1. Wu, Y., M.R. Hodges & G.B. Richerson. Stimulation by hypercapnic acidosis in mouse 5-HT neurons in vitro is enhanced by age and increased temperature. *Soc. Neurosci. Abstr.*, 34, 2008.
2. Ransom, C.B., Y. Wu & G.B. Richerson. Voltage-dependent properties of extrasynaptic GABA_A receptors in cultured rat hippocampal neurons. *Soc. Neurosci. Abstr.*, 34, 2008.
3. Richerson, G.B., Y. Wu, W. Wang & A. Diez-Sampedro. GAT1 is near equilibrium under normal physiological conditions and reverses easily in response to depolarization. *The GABAergic System*. Cold Spring Harbor Laboratory, NY. 2006.
4. Wu, Y., W. Wang & G.B. Richerson. Tonic inhibition in hippocampal cultures is due to GABA release via two distinct nonvesicular mechanisms. *Soc. Neurosci. Abstr.*, 31, 2005.
5. Wu, Y. & G.B. Richerson. Nonvesicular neurotransmission can occur between hippocampal neurons via reversal of the GABA transporter. *Soc. Neurosci. Abstr.*, 29, 2003.
6. Wu, Y. & G.B. Richerson. Vigabatrin enhances tonic GABAergic inhibition mediated by carrier-mediated GABA release, without affecting vesicular GABA release. *Soc. Neurosci. Abstr.*, 28, 2002.
7. Wu, Y., W. Wang & G.B. Richerson. Inhibition of GABA transaminase induces activation of synaptic GABA_A receptors due to nonvesicular GABA release. *Soc. Neurosci. Abstr.*, 27, 2001.
8. Richerson, G.B. & Y.Wu. Vigabatrin induces an increase in GABA release due to reversal of the GABA transporter. *Epilepsia*, 2000
9. Wu, Y., W. Wang & G.B. Richerson. Rat hippocampal neurons can inhibit each other via reversal of the GABA transporter. *Soc. Neurosci. Abstr.*, 2000.
10. Wu, Y., W. Wang & G.B. Richerson. Non-vesicular GABA release is enhanced by anticonvulsants that increase brain [GABA]. *Soc. Neurosci. Abstr.*, 1999.
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