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NAME Haiyun Xu, M.D., Ph.D. Date of birth: 03/16/1962		POSITION TITLE Assistant Professor	
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i>)			
INSTITUTION AND LOCATION	DEGREE (<i>if applicable</i>)	YEAR(s)	FIELD OF STUDY
College of Medicine, Wuhan University, Wuhan, China	M. D.	9/1979- 8/1984	Medicine
College of Medicine, Wuhan University, Wuhan, China	Master	9/1987- 7/1990	Anatomy
Peking Union Medical College, Beijing, China	Ph. D.	9/1993- 7/1996	Neuroscience

Employment

1984-1987 Teacher in Department of Anatomy, College of Medicine, Wuhan University, Wuhan, China
 1990-1993 Lecturer in Department of Anatomy, College of Medicine, Wuhan University, Wuhan, China
 1996-1998 Pos-doctoral research fellow, Medical College of Wisconsin, Milwaukee, WI
 2000-2002 Pos-doctoral research fellow, Department of Psychiatry, University of Saskatchewan, Canada
 2003-8/2006 Professional research associate, Department of Psychiatry, University of Saskatchewan, Canada
 9/2006- Assistant Professor of Anatomy, tenure track, full-time, School of Medicine, Southern Illinois University at Carbondale, IL

Honors

1979-1984 Wuhan University Scholarship
 1984 Graduation with high distinction, Wuhan University
 1987-1990 Wuhan University Scholarship
 1993-1996 Peking Union Medical College Scholarship
 2002 Laura E. Chapman Award, Saskatchewan Psychiatry Research Foundation
 2003 W.G. Dewhurst Award, CCNP (Canadian College of Neuropsychopharmacology)
 2004 Molstad Trust Intramural Research Award, University of Saskatchewan
 2005 W.G. Dewhurst Award, CCNP

Professional Societies

American Association of Anatomists
 Society of Neuroscience
 Schizophrenia International Research Society

Selected peer-reviewed publications (In English Journals)

1. Wong-Riley M, Huang Z, Liebl W, **Xu H**, Zhang C (1998): Neurochemical organization of the macaque retina: effect of TTX on levels and gene expression of cytochrome oxidase and nitric oxide synthase and on the immunoreactivity of Na⁺K⁺ ATPase and NMDA receptor subunit I. *Vision Res.* **38**:1455-1477.
2. Bodurka J, Jesmanowicz A, Hyde JS, **Xu H**, Estkowski L, Li SJ (1999): Current-induced magnetic resonance phase imaging. *J. Magn. Reson.* **137**:265-271.
3. **Xu H**, Li SJ, Bodurka J, Zhao X, Xi ZX, Stein EA (2000): Heroin-induced neuronal activation in rat brain: assessed by functional MRI. *Neuroreport* **11**: 1085-1092.
4. **Xu H**, Qing H, Lu W, Keegan D, Richardson JS, Li XM (2002): Quetiapine attenuates the immobilization stress-induced decrease of brain-derived neurotrophic factor expression in rat hippocampus. *Neurosci. Lett.* **321**:65-68.

5. **Xu H**, Richardson JS, Li XM (2003): Dose-related effects of chronic antidepressants on the neuroprotective proteins BDNF, Bcl-2, and Cu/Zn-SOD in rat hippocampus. *Neuropsychopharmacology* **28**:53-62. (Featured article)
6. Qing H*, **Xu H***, Wei Z, Gibson D, Li XM (2003): The ability of atypical antipsychotic drugs vs. haloperidol to protect PC12 cells against MPP⁺-induced apoptosis. *Eur. J. Neurosci.* **17**:1563-1570.
7. He J, **Xu H**, Yang Y, Zhang X, Li XM (2004): Neuroprotective effects of olanzapine on methamphetamine-induced neurotoxicity are associated with an inhibition of hyperthermia and prevention of Bcl-2 decrease in rats. *Brain Res.* **1018**:186-192.
8. **Xu H**, Richardson JS, Luo C, Li X M (2004): The recovery of hippocampal neurogenesis and BDNF levels, both of which are reduced by repeated restraint stress, is accelerated by chronic venlafaxine. *Pharmacogenomics J.* **4**:322-331.
9. **Xu H**, He J, Richardson JS, Li XM (2004): The response of synaptophysin and microtubule-associated protein 1 to restraint stress in rat hippocampus and its modulation by venlafaxine. *J. Neurochem.* **91**:1380-1388.
10. Luo C, **Xu H**, Li XM (2004): Post-stress changes in BDNF and Bcl-2 immuno-reactivities in hippocampal neurons: effect of chronic administration of olanzapine. *Brain Res.* **1025**:194-202.
11. He J, **Xu H**, Yang Y, Zhang X, Li XM (2005): Chronic administration of quetiapine alleviates the anxiety-like behavioural changes induced by neurotoxic regimen of *dl*-amphetamine in rats. *Behav. Brain Res.* **160**:178-187.
12. He J*, Yang Y*, **Xu H***, Zhang X, Li XM (2005): Olanzapine attenuates the okadaic acid-induced spatial memory impairment and hippocampal cell death in rats. *Neuropsychopharmacology* **30**:1511-1520.
13. Wang H*, **Xu H***, Dyck L, Li XM (2005): Atypical antipsychotics protect PC12 cells against amyloid-induced apoptosis by inhibiting oxidative stress. *J. Neurosci. Res.* **81**:572-580.
14. Chen Z, **Xu H**, Haimanot S, Li X, Li XM (2005): Quetiapine and venlafaxine synergically regulate heme oxygenase-2 protein expression in hippocampal formations of stressed rats. *Neurosci. Lett.* **389**:173-177.
15. Luo C*, **Xu H***, Li X, Li XM (2005): Quetiapine reverses the suppression of hippocampal neurogenesis caused by repeated restraint stress. *Brain Res.* **1063**:32-39.
16. **Xu H**, Chen Z, He J, Haimanot S, Li XM (2006): Quetiapine and venlafaxine share common actions on the hippocampal formation in rats exposed to chronic restraint stress. *Hippocampus* **16**: 551-559.
17. Bai O, **Xu H**, Li XM (2006): Haloperidol and atypical antipsychotics share a same action of decreasing p75NTR mRNA levels in PC12 cells. *Life Sci.* **79**: 570-574.
18. He J, **Xu H**, Yang Y, Rajakumar D, Li X, Li XM (2006): The effects of chronic administration of quetiapine on the phencyclidine-induced reference memory impairment and decrease of Bcl-XL/Bax ratio in the posterior cingulate cortex in rats. *Behav. Brain Res.* **168**: 236-242.
19. Zhang Y, **Xu H**, H J, Yan B, Jiang W, Li XM (2007): Quetiapine reverses altered locomotor activity and tyrosine hydroxylase immunoreactivity in rat caudate putamen following long-term haloperidol treatment. *Neurosci. Lett.* **420**: 66-71.
20. Yan B, He J, **Xu H**, Zhang Y, Bi X, Thakur S, Gendron A, Kong J, Li XM (2007): Quetiapine attenuates the depression and anxiolytic-like behavioural changes induced by global cerebral ischemia in mice. *Behav. Brain Res.* **182**: 36-41.
21. Yan B, Bi X, He J, Zhang Y, Thakur S, **Xu H**, Gendron A, Kong J, Li XM (2007): Quetiapine attenuates spatial memory impairment and hippocampal neurodegeneration induced by bilateral common carotid artery occlusion in mice. *Life Sci.* **81**: 353-361.
22. Xiao L*, **Xu H***, Zhang Y, Wei Z, Dyck LE, Devon RM, Li XM (2008): Quetiapine facilitates oligodendrocyte development and prevents mice from myelin breakdown and behavioral changes. *Mol. Psychiatry* **13**: 697-708 (Featured article).
23. **Xu H**, Wang H, Zhuang L, Yan B, Yu Y, Wei Z, Zhang Y, Dyck LE, Richardson SJ, He J, Li X, Kong J, Li XM (2008): Demonstration of an anti-oxidative stress mechanism of quetiapine: Implications for the treatment of Alzheimer's disease. *FEBS J.* **275**: 3718-3728.
24. Zhang Y, **Xu H**, Jiang W, Xiao L, Yan B, He J, Kong J, Li X-M (2008): Quetiapine alleviates the cuprizone-induced demyelination and promotes the remyelination following withdrawal of cuprizone. *Schizophr. Res.* **106**: 182-191.

25. He J, Luo H, Yan B, Yu Y, Wang H, Wei Z, Zhang Y, **Xu H**, Tempier A, Li X, Li XM: Beneficial effects of quetiapine in a transgenic mouse model of Alzheimer's disease. *Neurobiol Aging* Dec 11 of 2007; [Epub ahead of print]
26. **Xu H**, Yang H-J, Zhang Y, Clough R.W, Browning R. A, Li X-M (2009): Behavioral and neurobiological changes in C57BL/6 mice exposed to cuprizone. *Behav. Neurosci.* **123**: 418-429.
27. Yang H-J, Wang H, Zhang Y, Xiao L, Clough RW, Browning R, Li X-M, **Xu H** (2009): Region-specific susceptibilities to cuprizone-induced lesions in the mouse forebrain: implications for the pathophysiology of schizophrenia. *Brain Res.* (in press).

*Note: Authors labeled with * contributed equally.*

Book chapters

1. Li XM, **Xu H** (2007): In vitro and in vivo evidence for neuroprotective effects of antipsychotic drugs: implications for the pathophysiology and treatment of schizophrenia. *Int. Rev. Neurobiol.* **77**: 107-142.
2. **Xu H**, Li XM (2007): Cellular Metabolism. In McIntyre & Konarski (ed), *Psychiatric and metabolic disorders: research synthesis and clinical translation*. Nova Publishers Inc. Page: 57-73.

C. Research Support

Southern Illinois University at Carbondale, Start-up fund -- (Xu) 7/2006--7/2009
Animal models of schizophrenia
Role: PI

Southern Illinois University at Carbondale, Faculty see grant
Testing putative roles of oligodendrocytes in the pathophysiology of schizophrenia.
7/2008--6/2009

Past Funding

Canadian Institute of Health Research -- (Li) 7/2003--6/2005
Atypical Antipsychotics in Haloperidol-induced Neurotoxicity
Role: Co-PI

Royal University Hospital Foundation -- (Xu) 7/2002--6/2005
Neuroprotective effects of atypical antipsychotics.
Role: PI

Canadian Institute of Health Research -- (Xu) 7/2000--6/2002
Neuroprotective effects of antidepressants.
Role: Fellowship