

CURRICULUM VITAE

Date: 09/07/07

PERSONAL

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Current Academic Rank: Scientist III
Department: Spinal Cord and Brain Injury Research Center
University of Kentucky Medical Center
Citizenship: P.R. China
Visa: USA Permanent Resident
Gender: Male
Married Status: Married with a child
Spouse: Xiao-Hong Song, Scientist II, Department of
Neurology, College of Medicine, University of
Kentucky

HIGHER EDUCATION

Institutional:
1998-2000 University of Miami, Miami, USA Post-Doc.,
Neuroscience
1993-1996 Shanghai Second Medical University, Shanghai,
P.R.China, Ph.D., Pharmacology
1986-1989 Bengbu Medical college, Bengbu, P.R. China
Master Degree, Pharmacology
1977-1982 Anhui Medical University, Hwfw, P.R. China
M.D., Medicine
Non-Institutional: N/A

EMPLOYMENT / EXPERIENCE

Academic:
05/2005-present Scientist III, Spinal Cord and Brain Injury Research
Center, University of Kentucky Medical Center
05/2004-05/2005 Research Assistant Professor
Comprehensive Center for Pain Research
Department of Orthodontics and Neuroscience
College of Dentistry and McKnight Brain Institute,
University of Florida, Gainesville, Florida

2001-2004	Assistant Scientist Comprehensive Center for Pain Research Department of Orthodontics and Neuroscience College of Dentistry and McKnight Brain Institute, University of Florida, Gainesville, Florida
2000-2001	Research Associate Department of Biochemistry and Molecular Biology University of Nebraska Medical Center, Omaha, NE
1998-2000	Post Doctoral Associate The Miami Project to Cure Paralysis, Department of Neurosurgery, University of Miami, Miami, FL
1997-1998	Associate Professor Department of Neurobiology Shanghai Second Medical University, Shanghai, P.R. China
1996-1997	Lecturer Department of Neurobiology Shanghai Second Medical University, Shanghai, P.R. China
1993-1996	Lecturer and PhD Candidate Department of Biology and Pharmacology Shanghai Second Medical University, Shanghai, P.R. China
1989-1993	Lecturer, Department of Pharmacology Bengbu Medical College, Bengbu, P.R. China
1982-1986	Surgeon, Department of Surgery, Wangjiang County Hospital, Anhui, P.R. China
Non-Academic:	N/A
Military:	N/A

PUBLICATIONS AND ABSTRACTS

Journal articles:

- (1) **Yu CG** and Geddes JW. Sustained calpain inhibition improves locomotor function and tissue sparing following contusive spinal cord injury. Neurochem Res. 2007, May 3.
- (2) **Yu CG**, Aashish Joshi, and Geddes JW. Intraspinal MDL28170 microinjection improves functional and pathological outcome following contusive spinal cord injury (preparation).

- (3) Berens SA, Colvin DC, **Yu CG**, Yeziarski RP, Mareci TH. Evaluation of the pathologic characteristics of excitotoxic spinal cord injury with MR imaging. *AJNR Am J Neuroradiol.* 26(7):1612-22, 2005.
- (4). **Yu CG**, and Yeziarski RP. Activation of the ERK1/2 signaling cascade by excitotoxic spinal cord injury. *Mol. Brain Res.* 138(2):244-55, 2005.
- (5). Yeziarski RP, **Yu CG**, Mantyh PW, Vierck CJ, and Lappi DA. Spinal neurons involved in the generation of at-level pain following spinal injury in the rat. *Neurosci. Lett.* 361(1-3):232-6, 2004.
- (6). Caudle RM, Perez FM, King C, **Yu CG**, and Yeziarski RP. NMDA receptor NR1 subunit expression and phosphorylation following excitotoxic spinal cord injury in rats. *Neuroscience Lett.* 349:37-40, 2003.
- (7). **Yu CG**, Fairbanks CA, Wilcox GL, and Yeziarski RP. Effects of agmatine, IL-10, and cyclosporin on sponstanous pain behavior after excitotoxic spinal cord injury in rats. *J Pain* 4:129-140, 2003.
- (8). Plaunkett JA, **Yu CG**, Easton JM, Bethea JR, and Yeziarski RP. Effects of interleukin-10 on pain behavior and gene expression following excitotoxic spinal cord injury in rats. ***Exp. Neurology*** 168:144-154, 2001
- (9). **Yu CG**, Ruenes G, Sanchez D, Marcillo AE, Dietrich WD, and Yeziarski RP. Detrimental effects of hyperthermia on locomotor function and histopathological outcome following traumatic spinal cord injury in the rats. ***Neurosurgery.*** 49(1):152-158, 2001, discussion 158-159.
- (10). Groman AL, **Yu CG**, Sanchez D, Ruenes GR, Daniels L and Yeziarski RP. Conditions affecting the onset, severity, and progression of a spontaneous pain-like behavior after excitotoxic spinal cord injury. *J Pain* 2(4):229-240, 2001
- (11). **Yu CG**, Jimenez O, Marcillo AE, Weider B, Bangerter K, Dietrich WD and Yeziarski RP Beneficial effects of modest systemic hypothermia on lomotor function and histopathological damage following contusion induced spinal cord injury in rats. ***J. Neurosurgery,*** 93:329-337. 2000
- (12). **Yu CG**, Marcillo AE, Fairbanks CA, Wilcox GL and Yeziarski RP. Agmatine improves locomotor function and reduces tissue damage following contusion spinal cord injury. ***NeuroReport.*** 11 (14), 2000.
- (13). Fairbanks CA, Schreiber KL, Brewer KL, **Yu CG**, Stone LS, Kitto KF, Nguyen HO, Grocholski BM, Shoeman DW, Kehl LJ, Regunathan S, reis DJ, Yeziarski RP, and Wilcox GL. Agmatine reverses pain induced by inflammation, neuropathy, and spinal cord injury. ***PNAS (Proc. Nat. Acad. Sci. USA),*** 97(19):10584-10589, 2000

- (14). **Yu CG**, Zhang L, Jin AJ (1998). Effects of all trans retinoic acid on proliferation, intracellular free calcium content and intracellular pH of rabbit vascular smooth muscle cells. **Chinese J. Pharmacol. Toxicol.** 12(1): 73-74.
- (15). **Yu CG**, Zhang L, Gu PK, Jin ZJ (1998). Effects of all trans retinoic acid on EGF-R gene expression and intracellular calcium ion concentration in vascular smooth muscle cells. **Acta Universitalis Medicinalis Secundae Shanghai.** 18(2): 100-103.
- (16). **Yu CG**, Zhang L, Gu PK, Jin ZJ (1997). Effects of all trans retinoic acid on DNA synthesis and expression of TGF-beta mRNA in vascular smooth muscle cells. **Chinese Pharmacol Bulletin.** 13(4):305-308.
- (17). **Yu CG**, Zhang L, Gu PK, Jin ZJ (1997). Effects of ARTA on proliferation of rabbit vascular smooth muscle cells. **Acta Universitalis Medicinalis Secundae Shanghai.** 17 (2):99-101.
- (18). Song XH, Wu L, **Yu CG** (1996). Initiating action of estrogen, progesteron and prostaglandins on mechanism of labor. **J. Postgraduates of Med.** 19(6):19-2
- (19). Song XH, Wu L, **Yu CG** (1996). Prostaglandin E2 levels analysis in maternal serum and amniotic of fluid pre- and post-parturition. **Acta Academiae Medicinae Bengbu.** 21(1):35-36.
- (20). Yu CB, **Yu CG**, and Zhao MM(1991). The evaluation of primary Pharmacodynamics and toxicology of ferulofen. **Acta Academiae Medicinae Bengbu** 16(3):157-160.
- (21). **Yu CG**, Yu CB, and Zhao MM (1991). Study of anti-inflammatory effects of ferulofen and its mechanisms. **Chinese Pharmacol Bulletin.** 7(1):36-39.
- (22). Yu CB, **Yu CG**, and Zhao MM (1989). Anti-inflammatory, analgesic and anticancer effects of ferulofen. **Chinese Pharmacol Bulletin.** 5(5):303-306.

Abstracts :

- (23). **Yu CG**, Aashish Joshi, and Geddes JW. Inhibition of ERK1/2 by U0126 for spinal cord injury. **Society for Neuroscience 37th Annual Meeting**, Nov. 2-7, 2007, San Diego, CA, USA
- (24) **Yu CG** and Geddes JW. Sustained calpain inhibition improves locomotor function and tissue sparing following contusive spinal cord injury. **Society for Neuroscience 36th Annual Meeting**, Nov. 2-7, 2006, Atlanta, GA, USA

- (25). Yu CG and Yeziarski RP. Agmatine targets multiple signaling pathways to produce neuroprotective effects following spinal cord injury. **Society for Neuroscience 34th Annual Meeting**, Oct. 23-27, 2004, San Diego, CA, USA
- (26). Berens SA, Yu CG, Yeziarski RP, and Marcei TH. Effects of agmatine on the pathological characteristics of excitotoxic spinal cord injury by in vivo and in vitro magnetic resonance imaging (MRI). 2004 Neurotrauma Meeting, Oct. 20-22, 2004, San Diego, CA USA.
- (27). Caudle RM, Perez FM, King C, Yu CG, and Yeziarski RP. NMDA receptor NR1 subunit expression and phosphorylation following excitotoxic spinal cord injury in rats. **Society for Neuroscience 33th Annual Meeting**, November 2-7, 2003, New Orleans, La. USA
- (28). Yu CG, and Yeziarski RP. AMPA/metabotropic receptor activation-mediated upregulation of gene transcription of NMDA and NK-1 receptors via ERK1/2 signaling cascades after excitotoxic spinal cord injury. **Society for Neuroscience 33th Annual Meeting**, November 2-7, 2003, New Orleans, La. USA
- (29). Yu CG, Marcillo AE, Dietrich WD, Fairbanks CA, Wilcox GL, and Yeziarski RP (1999). Beneficial effects of hypothermia and / or agmatine on locomotor outcome following contusion spinal cord injury. **Society for Neuroscience 29th Annual Meeting**, Oct. 24-27, Abstract, 579.10, p1443., Miami Beach, FL. USA
- (30). Fairbanks CA, Brewer KL, Schreiber KL, Nguyne HO, Trempe TM, Kitto KF, Grocholski BM, Yu CG, Kehl LJ, Yeziarski RP, Wilcox GL(1999). Agmatine modifies behavioral plasticity in distinct models of pain and neuronal injury in rodents. **9th World Congree On Pain**, Aug. 22-27, Vienna, Austria. Abstract p520-521.
- (31). Bethea JR, Yu CG, Plunkett JA, and Yeziarski RP (1999). Effects of interleukin-10 on pain behaviors following excitotoxic spinal cord injury. **Society For Neuroscience 29th Annual Meeting**, Oct. 24-27, Abstract 579.9, p1443, Miami Beach, FL. USA
- (32). Wilcox GL, Yu CG, Fairbanks CA, and Yeziarski RP (1999). Effects of agmatine on neuronal survival and spontaneous grooming behavior following excitotoxic spinal cord injury in the rat. **Society for Neuroscience 29th Annual Meeting**, Oct. 24-27, Abstract 579.11, p1443, Miami Beach, FL.
- (33). Yu CG, Bethea JR, Fairbanks CA, Wilcox GL, and Yeziarski RP (2000). Effects of cyclosporin, Interleukin-10, and agmatine on a sponstaneous pain behavior following excitotoxic spinal cord injury in rats. **Society for**

Neuroscience 30th Annual Meeting, November 4-9, II-82, Abstract 733.8, p1959, New Orleans, La. USA

(34). Yu CG, Marcillo AE, Sanchez D, Ruenes GR, Dietrich WD, and Yeziarski RP (2000). The effects of hyperthermia on locomotor outcome and histopathology following traumatic spinal cord injury in the rat. **J Neurotrauma**, 17(10): 964, 2000 (**18th Annual National Neurotrauma Society Symposium**, November 3-4, New Orleans, La.

(35). Yeziarski RP, Yu CG, and Wiley RG (2000). Prevention and treatment of a spontaneous pain-like behavior following excitotoxic spinal cord injury by ablation of neurons expressing the substance P receptor. **Society for Neuroscience 30th Annual Meeting**, November 4-9, II-83, Abstract 733.9, p1959, New Orleans, La. USA

(36). Groman AL, Yu CG, Sanchez D, Ruenes GR, and Yeziarski RP (2000). Influence of strain, gender, and extent of injury on a spontaneous pain-like behavior following excitotoxic spinal cord injury in the rat. **Society for Neuroscience 30th Annual Meeting**, November, 4-9, Abstract 158.12, p436, New Orleans, La. USA

(37). Yu CG, Zhang L, Wei PJ, Gu PK, and Jin ZJ (1996). Experimental study on antiatherogenic effects of all trans retinoic acid and its mechanisms in atherosclerotic rabbits. **2eme Reunion Franco-Chinoise de Pharmacologie Cardio-vasculaire et Respiratoire**. O12, 14-17, Octobre 1996-LYON, France.

Book and chapters:

(38). Yu CG (1997). Experimental methods of protein and enzyme. In: Modern Medical Experimental Methods. Q. Wang(ed). Beijing: **People Health Press**, pp. 420-440.

HONORS

- (1). 1994 The publication "Study of anti-inflammatory effects of ferulofen and its mechanisms" was awarded the certificate of excellent thesis issued by Anhui Province Science and Technique Committee in 1991-1993's.
- (2). 1995 Shanghai Institutions of Higher Education Outstanding Student Award. Shanghai Institution Society.
- (3). 1995 Shanghai Second Medical University Outstanding Student Award.
- (4). 1997 Associate Professor Certificate was awarded by Shanghai Second Medical University in 1997.
- (5). Membership of Society for Neuroscience, USA (2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007).

Research Support.

“Inhibition of ERK1/2 Signaling for Spinal Cord Injury”
Paralysis Project of America, PI: J Geddes, Co-PI: Chen-Guang Yu.
Total Direct Costs: \$50,000
Period: 05/01/06-04/30/07

“Effects of ERK2 siRNA on spinal injury-pain”
Principal Investigator: Chen-Guang Yu, M.D., Ph.D.
Agency: University of Florida Seed Grant
Period: 06/01/04-05/30/05.
Total Direct Costs: \$10,000

“Inhibition of ERK1/2 Signaling following Spinal Cord Injury”
(NIH R21-pending, Priority Score: 172 in first submission)
PI: Chen-Guang Yu, M.D., Ph.D.
Co-PI: James Geddes, Ph.D.
Agency: NIH/NINDS
Type: Research Grant (R21-pending)
Period: 02/01/08-01/31/10

“Selective inhibition of ERK2 strategy for traumatic brain injury”
(DOD-TBI Concept Grant, pending)
PI: Chen-Guang Yu, M.D., Ph.D.
Agency: DOD
Type: Research Grant
Period: 05/01/08-11/30/09

“Inhibition of ERK2 by lentiviral-ERK2 shRNA for treatment of SCI”.
PI: James Geddes, Co-PI: Chen-Guang Yu
Agency: KCHIRT Grant, pending
Type: Research Grant
Period: 02/01/08-01/31/11

“Selective inhibition of ERK2 by ERK2 siRNA for treatment of SCI”.
PI: Chen-Guang Yu
Agency: PVA Grant, pending
Type: Research Grant
Period: 02/01/08-01/31/10