

CURRICULUM VITAE ~ Chen Guang Yu, M.D., Ph.D.

CONTENT ORGANIZATION

- I. GENERAL INFORMATION**
- II. ACADEMIC APPOINTMENTS**
- III. EDUCATION**
- IV. PROFESSIONAL EXPERIENCES**
- V. HOSPITAL or CLINICAL APPOINTMENTS**
- VI. CONSULTING ACTIVITIES**
- VII. TEACHING ACTIVITIES**
- VIII. ADVISING ACTIVITIES**
- IX. HONORS & AWARDS**
- X. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT**
- XI. SPEAKING ENGAGEMENTS**
- XII. RESEARCH & INTELLECTUAL CONTRIBUTIONS**

Date Prepared: 11/01/2016

CURRICULUM VITAE



I. GENERAL INFORMATION

Citizenship: USA
Gender: Male
Residence: 360 Hays Blvd
Lexington, KY 40509
Email: cyu4@uky.edu
Phone: 859-556-9558

II. ACADEMIC APPOINTMENTS

- 01/2017-present Research Assistant Professor at Spinal Cord and Brain Injury Research Center, Department of Neuroscience, University of Kentucky College of Medicine, 741 S Limestone St., Office: B455 BBSRB, Lexington, KY 40536
- 05/2016-11/2016 Chief Scientist, RNA Nanotechnology Transfer Project, Matt Holding Pharmaceutical LLC at Rev1 Ventures, 1275 Kinnear Rd, Ohio State University SciTech (Office) and 1381 Kinnear Rd, Ohio State University Nanotech West Lab (Laboratory), Columbus OH 43212
- 01/2008-05/2016 Research Assistant Professor/Principal Investigator at Spinal Cord and Brain Injury Research Center, Department of Anatomy and Neurobiology, University of Kentucky College of Medicine, 741 S Limestone St., B465 BBSRB, Lexington, KY 40536
- 05/2005-12/2007 Research Scientist III in Dr. James Geddes's laboratory at Spinal Cord and Brain Injury Research Center, Department of Anatomy and Neurobiology University of Kentucky College of Medicine, 741 S Limestone St., B465 BBSRB, Lexington, KY 40536

- 02/2001-05/2005 Research Assistant Professor/Principal Investigator at University of Florida Medical Center, 1600 SW Archer Road Box 100265, Gainesville, Florida 32610
- 03/1998-12/2000 Visiting Scientist/Post-Doctoral Associate at The Miami Project to Cure Paralysis, Miller School of Medicine University of Miami, 1095 NW 14th Terrace, Miami, Florida 33136 USA
- 04/1997-03/1998 Associate Professor of Pharmacology, academic, full time
Shanghai Second Medical University (its current name:
Shanghai Jiao Tong University School of Medicine)
Shanghai, China

III. EDUCATION

- 01/1978-08/1982 Medical Doctor Training
Anhui Medical University
Hefei, China
- 08/1982-08/1986 Surgery Residency Program
Anhui Wangjian County Hospital
Wangjiang, China
- 08/1986-08/1989 Master Degree (Major: Pharmacology)
Bengbu Medical College
Department of Pharmacology
Bengbu, China
- 08/1993-07/1996 Ph.D. Program Training (Major: Pharmacology, Mentor: Professor Jin Zhen-Jun), Shanghai Second Medical University
Department of Pharmacology, Shanghai. China
- 03/1998-12/2000 Visiting Scientist/Post-doctoral Associate in Spinal Cord Injury Research
University of Miami School of Medicine, Miami Project to Cure Paralysis
Miami, USA
- 12/2000-12/2001 Post-doctoral Associate in Molecular and Cellular Biology
University of Nebraska Medical Center, Omaha, NE
Department of Biochemistry and Molecular Biology, full-time

IV. PROFESSIONAL EXPERIENCES

- 08/1982-08/1986 **Anhui Wangjiang County Hospital**

- Wangjiang, Anhui, China
Surgeon, Department of Surgery, full-time
- 08/1989-08/1993 **Bengbu Medical College**
Bengbu, Anhui, China
Lecturer, Department of Pharmacology, full-time
- 07/1996-03/1997 **Shanghai Second Medical University (its current name: Shanghai Jiao Tong University School of Medicine)**
Shanghai, China
Lecturer, Department of Neurobiology and Pharmacology, full-time
- 03/1997-03/1998 **Shanghai Second Medical University (its current name: Shanghai Jiao Tong University School of Medicine)**
Shanghai, China
Associate Professor, Department of Neurobiology and Pharmacology, full-time
- 03/1998-12/2000 **University of Miami School of Medicine (its current name: University of Miami Miller School of Medicine) Miami USA**
Visiting Scientist/Post-Doctoral Associate, Miami Project to cure Paralysis, Department of Neurosurgery, full-time
- 12/2000-12/2001 **University of Nebraska Medical Center at Omaha, NE**
Post-Doctoral Associate/Research Associate, Department of Biochemistry and Molecular Biology, full-time
- 12/2001-04/2004 **University of Florida Medical Center, McKnight Brain Institute**
Gainesville, FL
Assistant Scientist, Comprehensive Center for Pain Research, Department of Orthodontics and Neuroscience, full-time
- 04/2004-05/2005 **University of Florida Medical Center, McKnight Brain Institute**
Gainesville, FL
Research Assistant Professor, Comprehensive Center for Pain Research, Department of Orthodontics and Neuroscience, full-time
- 05/2005-12/2007 **University of Kentucky College of Medicine at Lexington, KY**
Scientist III in Professor James Geddes's Laboratory at Spinal Cord and Brain Injury Research Center, Department of Anatomy & Neurobiology, full-time
- 01/2008-06/2016 **University of Kentucky College of Medicine at Lexington, KY**

Research Assistant Professor in Professor James Geddes's Laboratory at Spinal Cord and Brain Injury Research Center, Department of Anatomy & Neurobiology, full-time

06/2016-Present Chief Scientist, Research & Development of RNA Nanotechnology & Nanomedicine, Laboratory: Nanotech West lab of OSU 1381 Kinnear Road, Office: Rev1 Venture 1275 Kinnear Road, Matt Holding Ltd at Columbus OH 43212

V. HOSPITAL or CLINICAL APPOINTMENTS

08/1982-08/1986 Surgeon, Department of Surgery, full-time
Anhui, Wangjiang County Hospital, Wangjiang, Anhui, China

VI. CONSULTING ACTIVITIES

07/1990-08/1991 Part-time Student Counselor, Bengbu Medical College, Bengbu, China

VII. TEACHING ACTIVITIES

09/1993-02/1998 Teaching Neurobiology for graduate students at Shanghai Second Medical University, Shanghai, China

09/1993-02/1998 Teaching Pharmacology for medical students at Shanghai Second Medical University Shanghai, China

09/1986-08/1993 Teaching Pharmacology for medical students at Bengbu Medical College Bengbu, China

VIII. ADVISING ACTIVITIES

Student Advising

05/2002-04/2005 University of Florida Medical Center, Gainseville, FL
Supervised, taught, and trained undergraduate students, graduate students, and post-doctors in SCI surgical techniques, tissue sectioning, histological analysis, behavioral assessments, and molecular biology techniques in summer student research program, graduate student rotation, and post-doctor training in Dr. Yeziarski lab, Comprehensive Center for Pain Research.

05/2005-06/2016 University of Kentucky Medical Center, Lexington, KY
Supervised, taught, and trained undergraduate students, graduate students, and post-doctors in SCI surgical techniques, tissue sectioning, histological analysis, behavioral assessments, molecular cloning and molecular biology techniques in summer student research program, graduate student rotation, and post-doctor training in Dr. James Geddes's lab at Spinal Cord and Brain Injury research Center.

IX. HONORS & AWARDS

08/1991 Award for outstanding Part-time Student Counselor, issued by Bengbu Medical College, China
09/1994 Best Paper Award for my academic thesis titled "Study of anti-inflammatory effects of Ferulofen and its mechanisms", in the Outstanding Academic Thesis Competition for 1991-1993, issued by Evaluation Committee of Outstanding Thesis in the Natural Science, Anhui Province, China
09/1995 "Three Best Ph.D. Student" Award Certificate, issued by Shanghai Second Medical University
10/1995 "Shanghai Outstanding Ph.D. Student Award", awarded by the Shanghai Municipal Education Commission
03/1997 Associate Professor Certificate, awarded by the Shanghai Municipal Education Commission and Shanghai Second Medical University

X. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT

Memberships

01/2000-present Society for Neuroscience
01/2008-present Society for Neurotrauma

Grant Review Panels (for the Department of Defense, DOD)

12/2016 Scientist Reviewer for 2016 Department of Defense (DOD) Congressionally Directed Medical Research Programs (CDMRP) Pain Medicine Panel
12/2015 Scientist Reviewer for 2015 Department of Defense (DOD) Congressionally Directed Medical Research Programs (CDMRP) Spinal Cord Injury Research Program EACA Panel

- 03/2015 Scientist Reviewer for Pain Management Grant Peer Review Pain Panel of the 2014/2015 DOD CDMRP Clinical and Rehabilitative Medicine Research Program.
- 12/2014 Scientist Reviewer, DOD CDMRP, Spinal Cord Injury Research Program (SCIRP) Grant Review PIR Panel.
- 12/2014 Scientist Reviewer (Ad Hoc), DOD CDMRP, Spinal Cord Injury Research Program (SCIRP) Grant Review Pain Panel.
- 03/2014 Scientist Reviewer of the 2014 DOD (CRM RP) Pain Management-1 Grant Review Panel.
- 10/2012 Scientist Reviewer, DOD CDMRP, Neuroscience Grant Review Panel, Spinal Cord Injury Research Program (SCIRP).

Editorial Boards

- 10/2011-present Associate Editor-in-Chief, Frontiers in Biology, Publishers: Springer and Higher Education Press
<http://www.springer.com/life+sciences/biochemistry+%26+biophysics/journal/11515?detailsPage=societies>
- 10/2012-present Special Issue Editor, J of Spine, Publisher: OMICS Publishing Group
<http://www.omicsgroup.org/journals/specialissue-spine-open-access.php>
- 02/2014-present Editor Board Member of Austin Journal of Anatomy

Ad-Hoc Journal Reviewer

- 08/2009-present Spinal Cord,
01/2010-present Journal of Neurotrauma
03/2011-present Journal of Neurobiology
03/2012-present Molecular Neurobiology
08/2012-present PLOS ONE/Publisher: PLOS
2013-present Metabolic Brain Disease
2014-present The Journal of Spinal Cord Medicine

XI. SPEAKING ENGAGEMENTS [Invited lectureships, panel sessions; oldest at top, newest at bottom in each section]

- 10/2015 Speaker at Neuroscience 2015 (Society for Neuroscience 45th Annual Neuroscience Meeting, October 17-12 Chicago

“Flubendazole reduces pathogenic B cell activation, attenuates pain, and improves recovery after spinal cord injury”

- 12/2014 University of Kentucky Medical Center, SCoBIRC Lexington, KY
SCoBIRC Seminar: “Targeting ERK1/2 for treatment of spinal cord injury and pain”
- 05/2014 Invited Speaker at AALAS District V Meeting, Lexington, KY,
“FENBENDAZOLE IMPROVES PATHOLOGICAL AND FUNCTIONAL RECOVERY FOLLOWING TRAUMATIC SPINAL CORD INJURY”.
- 09/2014 Invited Speaker at 3rd International conference on Neurology and Therapeutics, Philadelphia, USA
“Novel signal transduction therapies for paralysis and pain.
- 03/2013 University of Kentucky Medical Center, Lexington, KY
“Novel therapeutic strategies for spinal cord injury and pain”, Faculty (Associate Professor Position) Candidate Seminar, University of Kentucky College of Medicine.
- 09/2012 Invited Speaker, 2nd International Neural Regeneration Symposium Shenyang, China
“Involvement of ERK1/2 and calpain 1 signaling pathways and their cross-talk in pathophysiology of spinal cord injury and pain”.
- 11/2011 Invited Speaker, BIT’s 1st World Congress of Small RNAs Shenzhen, China
“Novel lentiviral shRNA therapy targeting ERK1/2 and calpain 1 for SCI and pain”
- 04/2011 University of Kentucky Medical Center, Lexington, KY
“Targeting ERK1/2 and/or calpain 1 for treatment of SCI and pain”, SCoBIRC Seminar
- 07/2011 University of Kentucky Medical Center, Lexington, KY
“Delayed intrathecal delivery of RhoA siRNA to the contused spinal cord inhibits allodynia, preserves white matter, and increases serotonergic fiber growth”. SCoBIRC Seminar.
- 10/2007 University of Kentucky Medical Center, Lexington, KY
Faculty Candidate Seminar: “ERK1/2 inhibition strategy for spinal cord injury”, Department of Anatomy and Neurobiology, SCoBIRC.

XII. RESEARCH & INTELLECTUAL CONTRIBUTIONS

A. PUBLICATIONS (Peer-Reviewed Original Research in Professional and Scientific Journals)

1. Crowdus C, Singh R, Power R, Pandya J, Patel S, Sullivan P, Rabchevsky A, **Yu CG**, Geddes J (2016). Dietary supplementation with organoselenium accelerates recovery of bladder expression, but does not improve locomotor function, following spinal cord injury. PLOS ONE, 2016 Jan 29;11(1): e0147716.
2. Schaefer K, Toral M, Velez G, Cox A, Baker S, Borcharding N, Colgan D, Bondada V, Mashburn C, **Yu CG**, Geddes JW, Tsang S, Bassuk A, and Mahajan V (2016). Calpain-5 expression in the retina localizes to photoreceptor synapses. Invest Ophthalmol Vis Sci. 2016 May 1;57(6):2509-21.
3. Bondada V, Y XX, Rogers C, Meyer CA, Ghoshal S, Singh R, Harrar S, Geddes JW, and **Yu CG***. Flubendazole attenuates autoimmune neuroinflammation, pain, and paralysis. J Neurotrauma (in preparation).
4. **Yu CG**, Raza K, Thompson LE, Saatman K, and Geddes JW. Calpastatin overexpression reduces calpain activation, neuronal loss, and locomotor deficits after contusion spinal cord injury in transgenic mice. (in preparation).
5. Yu XX, Bondada V, Rogers C, Meyer CA, and **Yu CG** (2015). Targeting ERK1/2-calpain 1-NF- κ B signal transduction in secondary tissue damage and astrogliosis after spinal cord injury. Frontiers in Biology. 10 (5):427-438.
6. **Yu CG**, Singh R, Crowdus C, Raza K, Kincer J, and Geddes JW. Fenbendazole improves functional recovery following spinal cord injury in mice. 2014; Neuroscience 256:163-9.
7. **Yu CG**, Li Y, Raza K, Yu XX, Ghoshal S, and Geddes JW. Calpain 1 knockdown improves tissue sparing and functional outcomes following spinal cord injury. J Neurotrauma 2013; 30(6):427-33.
8. **Yu CG**. RNAi approaches for neuroprotection and regeneration after brain and spinal cord injury. J Spine 2013, 2: S4-e001 (Editorial).
9. **Yu CG**. Distinct roles for ERK1 and ERK2 in pathophysiology of CNS (Review) Front. Biol. 2012, 7(3): 267–276.
10. **Yu CG**, Crowdus C, Raza K, and Geddes JW. Fenbendazole improves functional recovery following spinal cord injury in mice. 30th National Neurotrauma Meeting, July 22-25, 2012 Phoenix, Arizona. JOURNAL OF NEUROTRAUMA 2012, 29: A-132.
11. **Yu CG**, Yeziarski RP, Joshi A, Raza K, Li Y, and Geddes J. Involvement of ERK2 in traumatic spinal cord injury. J Neurochemistry, 2010, 113:131-142.

12. **Yu CG**, Aashish Joshi, and Geddes JW. Intraspinal MDL28170 microinjection improves functional and pathological outcome following contusive spinal cord injury. *J Neurotrauma* 2008; 25(7):833-40.
13. **Yu CG**, Yeziarski RP, Joshi A, Geddes JW. Targeting ERK2 with lentiviral shRNA improves tissue sparing and locomotor function after spinal cord injury. *J Neurotrauma* 2008; 25(7): 910-910.
14. **Yu CG** and Geddes JW. Sustained calpain inhibition improves locomotor function and tissue sparing following contusive spinal cord injury. *Neurochem Res.* 2007; 32:2046-53.
15. **Yu CG** and Yeziarski RP. Activation of the ERK1/2 signaling cascade by excitotoxic spinal cord injury. *Brain Res.* 2005; 138(2):244-55.
16. 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.* 2005; 26(7):1612:22.
17. 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.* 2004; 361(1-3):232-6.
18. Berens SA, Yeziarski RP, **Yu CG**, et al. Use of MRI to study the neuroprotective effects of agmatine following excitotoxic SCI in the rat. *J Neurotrauma.* 2004; 21 (9):1267-1267.
19. **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* 2003; 4:129-140.
20. 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.* 2003; 349:37-40.
21. **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.* 2001; 49(1):152-158, discussion 158-159.
22. **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*, 2000; 93:329-337.
23. **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. 2000; 11 (14).
24. 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* 2001; 168:144-154.
 25. 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* 2001; 2(4):229-240.
 26. 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)*, 2000; 97(19):10584-10589.
 27. **Yu CG**, Zhang L, Jin AJ. 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.* 1998; 12(1): 73-74.
 28. **Yu CG**, Zhang L, Gu PK, Jin ZJ. Effects of all trans retinoic acid on EGF-R gene expression and intracellular calcium ion concentration in vascular smooth muscle cells. *Acta Universitatis Medicinalis Secundae Shanghai.* 1998; 18(2): 100-103.
 29. **Yu CG**, Zhang L, Gu PK, Jin ZJ. Effects of all trans retinoic acid on DNA synthesis and expression of TGF-beta mRNA in vascular smooth muscle cells. *Chinese Pharmacol Bulletin.* 1997; 13(4):305-308.
 30. **Yu CG**, Zhang L, Gu PK, Jin ZJ. Effects of ARTA on proliferation of rabbit vascular smooth muscle cells. *Acta Universitatis Medicinalis Secundae Shanghai.* 1997; 17 (2):99-101.
 31. Song XH, Wu L, **Yu CG**. Initiating action of estrogen, progesteron and prostaglandins on mechanism of labor. *J. Postgraduates of Med.* 1996; 19(6):19-2
 32. Song XH, Wu L, **Yu CG**. Prostaglandin E2 levels analysis in maternal serum and amniotic of fluid pre- and post-parturition. *Acta Academiae Medicinae Bengbu.* 1996; 21(1):35-36.
 33. Yu CB, Zhao MM, and **Yu CG**. The evaluation of primary Pharmacodynamics and toxicology of ferulofen. *Acta Academiae Medicinae Bengbu* 1991; 16(3):157-160.
 34. **Yu CG**, Yu CB, and Zhao MM. Study of anti-inflammatory effects of ferulofen and its mechanisms. *Chinese Pharmacol Bulletin.* 1991; 7(1):36-39.
 35. **Yu CB**, **Yu CG**, and Zhao MM. Anti-inflammatory, analgesic and anticancer effects of ferulofen. *Chinese Pharmacol Bulletin.* 1989; 5(5):303-306.

Books, Book Chapters, Monographs

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

XII. RESEARCH & INTELLECTUAL CONTRIBUTIONS - *continued*

B. ABSTRACT PRESENTATIONS

National/International Meetings

1. **Yu CG**. Speaker at Neuroscience Meeting 2015, October 17-12 Chicago
“Flubendazole reduces pathogenic B cell activation, attenuates neuropathic pain, and improves recovery after spinal cord injury”
2. **Yu CG**, et al., FENBENDAZOLE IMPROVES PATHOLOGICAL AND FUNCTIONAL RECOVERY FOLLOWING TRAUMATIC SPINAL CORD INJURY. AALAS District V Meeting, Lexington, KY, May 15-17, 2014.
3. **Yu CG**. Novel signal transduction therapies for paralysis and pain. Invited Speaker, 3rd International conference on Neurology and Therapeutics, Philadelphia, USA September 8-10, 2014
4. **Yu CG** and Geddes JW. Targeting calpain 1 and its cross-talk with ERK1/2 signaling pathway in pain hypersensitivity after CNS injury. FASEB Science Research Conference: The Biology of Calpains in Health and Disease-2013, July 21-26. Vermont Academia, Saxtons River, Vermont.
5. **Yu CG** and Geddes JW. Involvement of ERK2 and calpain 1 signaling pathways and their cross-talk in neuropathic pain and locomotor deficits of CNS injury, 2nd International Neural Regeneration Symposium, September 21-25, 2012, Shenyang, China.
6. **Yu CG**, Crowdus C, Raza K, and Geddes JW. Fenbendazole improves functional recovery following spinal cord injury in mice. 30th National Neurotrauma Meeting, July 22-25, 2012 Phoenix, Arizona. JOURNAL OF NEUROTRAUMA 2012, 29: A-132.
7. Crowdus C, **Yu CG**, Singh R, Power R, Pandya J, Patel S, Sullivan P, Rabchevsky A, Geddes J. Enhancing endogenous protective mechanisms following spinal cord injury. 30th National Neurotrauma Meeting, July 22-25, 2012 Phoenix, Arizona. JOURNAL OF NEUROTRAUMA 2012, 29: A82-A83.
8. Madathil SK, Tuttle B, **Yu CG**, Geddes JW, Saatman K. Conditional overexpression of Insulin-like growth factor-1 improves white matter sparing and functional outcome following spinal cord injury. 30th National Neurotrauma Meeting, July 22-25, 2012 Phoenix, Arizona. JOURNAL OF NEUROTRAUMA 2012, 29: A181.

9. **Yu CG**. Novel shRNA Therapy Targeting ERK2 and / or Calpain 1 for SCI, BIT's 1st World Congress of Small RNAs, November 3-5, 2011, Shenzhen, China (Invited Speaker).
10. **Yu CG**, Raza K, Thompson LE, Saatman K, and Geddes JW. Calpastatin overexpression reduces calpain activation, neuronal loss, and locomotor deficits after contusion spinal cord injury in transgenic mice. Society for Neuroscience 41th Annual Meeting, Nov. 12-17, 2011, Washington DC, USA.
11. **Yu CG**, Li Y, Raza K, and Geddes JW. Calpain 1 knockdown improves tissue sparing and locomotor function following spinal cord injury in rats. Abstract from The 29th Annual National Neurotrauma Society Symposium. June 14-17, 2010, Las Vegas, NV.
12. **Yu CG**, Li Y, Raza K, and Geddes JW. Lentiviral calpain 1 shRNA attenuates the progression of spinal cord injury. Abstract from National Calpain Meeting, Summer Research Conferences, FASEB, July 25-30, 2010, Carefree, AZ
13. **Yu CG**, Yeziarski RP, Joshi A, Raza K, Li Y, and Geddes J. RNAi approach reveals a specific role of ERK2 in the deleterious consequences of spinal cord injury. Abstract from The 27th Annual National Neurotrauma Society Symposium Sept. 7-11, 2009, Santa Barbara, CA.
14. **Yu CG**, Yeziarski RP, Joshi A, Raza K, Li Y, and Geddes J. Targeting ERK2 with Lentiviral shRNA improves tissue sparing and locomotor function after spinal cord injury. *J Neurotrauma*, 25(7):910, 2008, Abstract from The 26th Annual National Neurotrauma Society Symposium July 27-30, Orlando, FL.
15. Clark JM, **Yu CG**, Geddes JW. Role of cyclophilin D in acute CNS injury. Poster, The 26th Annual NNS Symposium, July 27-30, 2008, Orlando, FL.
16. **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.
17. **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
18. **Yu CG** and Yeziarski RP. Agmatine targets multiple signaling pathways to produce neuroprotective effects against neuropathic pain and locomotor deficits following spinal cord injury. Society for Neuroscience 34th Annual Meeting, Oct. 23-27, 2004, San Diego, CA, USA
19. 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.

- 20 Caudle RM, Perez FM, King C, **Yu CG**, and Yeziarski RP. NMDA receptor NR1 subunit expression and phosphorylation following excitotoxic spinal cord injury in rat pain model. Society for Neuroscience 33th Annual Meeting, November 2-7, 2003, New Orleans, La. USA
- 21 **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 in neuropathic pain after excitotoxic spinal cord injury. Society for Neuroscience 33th Annual Meeting, November 2-7, 2003, New Orleans, La. USA
- 22 **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
- 23 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.
- 24 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
- 25 Wilcox GL, **Yu CG**, Fairbanks CA, and Yeziarski RP (1999). Effects of agmatine on neuronal survival and pain 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.
- 26 **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
- 27 **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.
- 28 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
- 29 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

- 30 **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.

XII. RESEARCH & INTELLECTUAL CONTRIBUTIONS - *continued*

C. SPONSORED RESEARCH PROJECTS, GRANT & CONTRACT ACTIVITIES

Active Grant:

Project Title: “BTK inhibition for treatment of spinal cord injury”
Principal Investigator(s): James Geddes, Ph.D.
Role in Project: Co-Principal Investigator
Institution/University: University of Kentucky College of Medicine SCOBIRC
Source of Funding: Neilsen Foundation (Extramural)
Duration of Project: 07/2016-06/2018
Total Award: \$300,000 (two years)

Inactive Grants:

Project Title: Flubendazole treatment targeting immune/inflammation and pain for spinal cord injury
Project Number: NIH Center for Clinical and Translational Science (CCTS) Award # UL1TR000117
Principal Investigator(s): Chen Guang Yu, M.D., Ph.D.
Effort: 20%
Institution/University: University of Kentucky College of Medicine SCoBIRC
Source of Funding: NIH UK Pilot Award
Duration of Project: 06/2014-06/2016
Total Award: \$50,000/year
Grant Number: # UL1TR000117

Project Title: Calpain knockdown minimizes damage and deficits after spinal cord injury and pain
Project Number: Kentucky Spinal Cord and Head Injury Research Trust (KSCHIRT) Grant #11-19A
Principal Investigator(s): Chen Guang Yu, M.D., Ph.D.
Role in Project: Principal Investigator
Effort: 47 %
Institution/University: University of Kentucky College of Medicine SCoBIRC
Source of Funding: Kentucky Spinal Cord and Head Injury Research Trust (Extramural)

Duration of Project: 03/2012-07/2016
Total Award: \$100,000/year
Grant Number: Grant #11-19A, Account # 3048108955

Project Title: Inhibition of ERK1/2 for treatment of spinal cord injury and pain
 Project Number: KSCHIRT Grant #7-6A
 Principal Investigator(s): James Geddes
 Role in Project: Co-Principal Investigator
 Effort: 48 %
 Institution/University: University of Kentucky College of Medicine SCoBIRC
 Source of Funding: KSCHIRT (Extramural)
 Duration of Project: 02/2008-01/2015
 Total Award: \$297,870 Grant Number: Account # 3048104347

Project Title: “Inhibition of ERK1/2 for spinal cord injury and pain”
 Project Number: Paralysis Project of America
 Principal Investigator(s): James Geddes, Ph.D.
 Role in Project: Co-Principal Investigator
 Effort: 30%
 Institution/University: University of Kentucky SCoBIRC
 Total Award: \$50,000
 Grant Agency: Paralysis Project of America

Project Title: “Effects of ERK2 siRNA on spinal injury pain”
Project Number: Seed Grant, University of Florida
Principal Investigator(s): Chen Guang YU, M.D., Ph.D.
Role in Project: Principal Investigator
Effort: 30%
Institution/University: University of Florida Comprehensive Center for Pain Research
Source of Funding: University of Florida (Intramural)
Duration of Project: 01/2004-05/2005
Total Award: \$10,000
Grant Number: UF Seed Grant

Project Title: “Anti-atherogenic effects of all trans retinoic acid in atherosclerotic rabbits”
Project Number: The National Science Foundation
Principal Investigator(s): Chen Guang Yu
Role in Project: Principal Investigator
Effort: 100 %
Institution/University: Shanghai Second Medical University, Shanghai, China
Source of Funding: The National Science Foundation Grant
Duration of Project: 07/1994-06/1996
Total Award: \$20,000

ND OF DOCUMENT