EMORY UNIVERSITY SCHOOL OF MEDICINE STANDARD CURRICULUM VITAE FORMAT

[The following order is required; may omit non-applicable sections]

Name: Shan Ping Yu
Office Address:
Department of Anesthesiology
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E-mail Address: spyu@emory.edu

Citizenship: USA

Current Titles and Affiliations:

a. Academic appointments:

I. Primary appointments:

Professor

O. Wayne Rollins Chair for Cancer Pain Research

Department of Anesthesiology

Department of Hematology and Oncology (Joint appointment since January 1, 2011)

Emory University School of Medicine

08/15/2008

Professor and Research Biologist Center for Excellence for Visual and Neurocognitive Rehabilitation Atlanta VA Medical Center

Previous Academic and Professional Appointments:

1993 - 1998 Assistant Professor

Department of Neurology

School of Medicine, Washington University

St. Louis, MO, USA

1999- 2002 Associate Professor

Department of Neurology

School of Medicine, Washington University

St. Louis, MO, USA

2002-2005 Associate Professor

Department of Pharmaceutical Sciences Medical University of South Carolina

Charleston, SC, USA

2005-2008 Associate Professor (with tenure)

Department of Pharmaceutical Sciences Medical University of South Carolina

Charleston, SC, USA

2003-2008 Associate Professor (joint appointment)

Department of Pathology

Medical University of South Carolina

Charleston, SC, USA

2005-present Honorary Professor

ZheJiang University School of Medicine

Hong Zhou, China

2006-present Honorary and Lecture Professor

Capital University of Medical Sciences

Beijing, China

Education:

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	Supervisor
Capital Institute of Medicine, Institute of	MD & MS	1982	Dr. Chuan-qui Liu
Pharmacology & Toxicology, Beijing, China			
Beijing Friendship Hospital, Beijing, China	Internship	1980	
State University of New York at Stony Brook, NY	PhD	1990	Dr. William Van der Koot
Howard Hughes Medical Institute	Postdoctoral	1992	Dr. Paul Adams
-	TRAINING		

Postgraduate Training:

1985 - 1986 Research Associate of Neuropharmacology

Department of Pharmacology

University of Lund

Lund, Sweden

1986 - 1987 Research Associate of Neurophysiology

Department of Physiology and Biophysics

SUNY at Stony Brook

Stony Brook, NY, USA

1990 - 1992 Postdoctoral Research Associate

Howard Hughes Medical Institute

Stony Brook, NY, USA

Committee Memberships:

a. National and International:

Nation Institute of Health

Study Section (2005) - American Heart Association/Stroke and Neurovascular Diseases

Study Section (2005, 2006) - American Heart Association/Heart and Ion Channel Regulation

Study Section (2006, 2007, 2008) - American Heart Association/Brain 2

Study Section member (2008-2011) - NIH/NINDS: BDCN Study Section

Study Section member (2007-2014) - NIH/NINDS: BINP Study Section; Regular charter member

Study Section (2015) - NIH/SREA Study Section

The Netherlands Organization for Health Research and Development, Netherlands (2013)

TAS DB Program ZonMw, Netherlands (2014)

Study Section: National VA Brain Injury (2015)

Czech Science Foundation, Czech Republic (2015)

National Natural Science Foundation, China (2012-2015).

Missouri Spinal Cord Injury/Disease Research Program (SCIDRP), MO, USA (2015)

Oak Ridge Associated Universities (ORAU), PA, USA (2014-2015)

b. Editorships and Editorial Boards:

Editorships:

OMICS Group Publisher: Editorial Board member (2011 -)

Book Editor: Brain Hypoxia and Ischemia: Emphasis on Developmental Aspects, Humana Press, 2008

Book Editor: Stem Cells and Ion Channels, Stem Cell Publisher, 2013

Member of Editorial Board:

International Journal of Physiology, Pathophysiology and Pharmacology (2008-present)

The Journal of Neuroscience Research (2007 – present)

Translational Stroke Research (2010 – present)

Journal of Pain & Relief (2011 – present)

Acta Pharmaceutica Sinica (2011 – present)

Journal of Stem Cell Research (2011 - present)

Journal of Pain & Relieve (2011 -)

Frontiers in Biology (2012 -)

Annual of Neurobiology and Neuroscience (2015-)

Manuscript reviewer: 1995 to present

- Apoptosis
- Brain Research
- Cellular and Molecular Life Sciences
- Experimental Neurology
- Experimental Cell Research
- EMBO Journal
- Journal of Cell Biology
- Journal of Cellular Physiology
- Journal of Cerebral Blood Flow & Metabolism
- Journal of Cellular Biochemistry
- Journal of Neurochemistry
- Journal of Neuroscience Research
- Journal of Neuroscience
- Journal of Pharmacology and Experimental Therapeutics
- Journal of Neurophysiology
- Life Sciences
- Leukemia
- Molecular Pharmacology
- Neurobiology of Disease
- Physiological Genomics
- Proceedings of the National Academy of Sciences of America (PNAS)
- Stroke
- Toxicology
- The American Journal of Physiology: Cell Physiology
- Translational Stroke Research
- Neurochemical Research
- PLOS ONE
- Stem Cells
- Stem Cell Research and Therapeutics

Honors and Awards:

The World Health Organization (WHO) Postdoctoral Fellowship (1985)

American Heart Association and Bugher Award (2000)

Honorary Professor, ZheJiang University School of Medicine, Hong Zhou, China (2005)

Honorary and Lecture Professor Capital University of Medical Sciences, Beijing, China (2006)

Society Memberships:

Member of Society for Neuroscience, USA (1987 to present)

Member of American Association for the Advancement of Science, USA (1987 to present)

Member of American Association for Neurochemistry, USA (2005 to present)

Member of The American Society for Pharmacology and Experimental Therapeutics (2005 to present)

Member of International Society for Stem Cell Research

Member of British Pharmacological Society

Organization of National or International Conferences:

a. Administrative positions:

Chair of Organizing Committee

Chair of Program Committee

The 29th Annual Meeting of Southeastern Society for Pharmacology (2008)

Symposium Organize Committee; 2011 ACRM-ASNR Annual Conference (American Congress of

Rehabilitation Medicine) (2011)

Co-Chair of local organizing committee

The 46the Annual Meeting of American Society of Neurochemistry, Atlanta, GA (2014-2015)

b. Sessions as chair:

Symposium for neuroscientists worldwide, Hong Kong/Guanzhou, China (2004)

Symposium for neuroscientists worldwide, Hong Kong/Guanzhou, Kuenming, China (2006)

35th Annual Meeting of Society for Neuroscience (Symposium Chair and Speaker): symposium: "Ion Channels, Mitochondria and Neuronal Cell Death", Washington DC (2005)

The 29th Annual Meeting of Southeastern Society for Pharmacology (2008)

The 8th Asia Pacific Symposium on Neural Regeneration & The 5th Pan Pacific Symposium on Stem

Cells and Cancer Research: Session Chair and invited speaker, Taipei, Taiwan (2012)

5th Annual Congress of Regenerative Medicine and Stem Cell, Guangzhou, China (2012)

NeuroTalk International Conference, Xi'an, China (2013)

Membrane mechanism and cell death, 46th Annual Meeting of American Society of Neurochemistry, Atlanta, 2015

Pharmacological hypothermia as session chair; 46th Annual Meeting of American Society of

Neurochemistry, Atlanta, 2015

Stem cell therapy as session chair; 46th Annual Meeting of American Society of Neurochemistry, Atlanta, 2015

Optogenetics Workshop: 46th Annual Meeting of American Society of Neurochemistry, Atlanta, 2015 Pan Pacific Symposium on Stem Cells and Cancer Research 2015 (PPSSC), Hsinchu, Taiwan, 2015 13th International Symposium on Neural Transplantation and Repair, Beijing, China (2015)

Research focus:

My research has been focused on ionic and molecular mechanisms underlying cell death and neurodegeneration related to brain disorders and cancer pain regulation. Specifically, we are interested in apoptotic regulation of potassium channels, NMDA receptor channels and Na⁺,K⁺-ATPase in neuronal and cancer cells. In this regard, we have been investigating the roles of channels/receptors in cell differentiation, migration, pain sensation, and have integrated our research into stem cell therapy for CNS and PNS injuries.

In our cancer pain related research, we have been investigating the mechanism of cancer cell survival and developing novel therapies for increasing apoptotic cell death among cancer cells. We have submitted a paper to report our discovery that the hormone erythropoietin, EPO, has a pain-relieving effect, likely due to its neuroprotective and anti-inflammatory actions. We have identified a membrane receptor that plays an important role in regulating pain sensation. We are now working on translating the basic knowledge of the analgesic effect of EPO into clinical treatments for cancer and post-surgery pain. A five year R01 research proposal has been developed for NIH funding in order to perform the translational research project in animal models and patients.

Grant Support:

[Investigator status (P.I., Co-P.I.), source, title, award type, amount, year(s)]

a. Active support:

I. Federally funded:

R0 NS085568 01/01/2015 to 12/31/2019 2.16 cal months

NIH/NINDS \$218,750/year (Direct cost)

Application of optogenetics in iPS cell transplantation therapy for ischemic stro

The overall goal of this investigation is to test the hypothesis that cell and time specific optogenetic stimulation can promote neuronal differentiation and therapeutic benefits of iPS cell transplantation after ischemic stroke. Role: PI (Multiple PIs: Ling Wei and Robert Gross)

R42 NS073378-03A1 05/01/2015 to 04/30/2017 2.4 cal months

NIH/NINDS \$348,000/Year

Stroke Treatment by Chemically-induced Hypothermia

Role: PI

National Merit Grant RX000666 01/01/2014 to 12/31/2018 2.4 cal months

VA National Center \$275,000/year

Protect the Brain by Chemical Hypothermia

The overall goal of this investigation is to examine chemical induced hypothermia in CNS injury models of rats.

Role: PI

R21 NS092385 10/01/2015 - 09/30/2017 1.2 cal months

NIH/NINDS \$125,000/Year

Non-invasive transcranial magnetic stimulation as protective and regenerative treatment of stroke

Role: PI (multiple PIs: Cathrin M. Buetefisch and Shan Ping Yu)

R01 NS088413-01 07/01/2014 to 06/30/2018 1.8 cal months

NIH/NINDS \$341,250/year

GPR37 & GPR37L1 signaling pathways promoting cell survival: relevance to stroke

The overall goal of this study is to examine the novel role of GPR37 and GPR37L genes in neuroprotection against ischemic stroke.

Role: Co-investigator (PI: Randy A. Hall)

R01 NS091585 03/01/2016 to 02/28/2020

\$250,000/year

Stem cell transplantation therapy via intranasal delivery after stroke

The overall of this investigation is to investigate the novel intranasal delivery of stem cells and neural progenitors into the brain bypassing the blood brain barrier for enhanced therapeutic benefits and clinical translation.

Role: Co-investigator (PI: Ling Wei)

II. Private foundation funded:

GRNT12060222 07/01/2012 to 08/30/2015 1.68 cal months

AHA Grant-in-Aid \$82,500/year (non-cost extension)

Novel Stroke Therapy using Human Adult Induced Pluripotent Stem Cells

Role: Principal Investigator

III. Contracts:

IV. Other:

TBS seed grant

10/2014-09/2015

Effect of erythropointin on post-operative and chronic pain

Role: PI

b. Previous Support

R01 NS057255 NIH/NINDS

09/01/2007 to 10/30/2014

Neuroprotection of NR3A in cultured neurons and ischemic neonates

PI: Shan Ping Yu

R41 NS073378-01A1 NIH/NINDS

09/012011 to 08/30/2014

Stroke Treatment by Chemically-Induced Hypothermia

PI: Shan Ping Yu (multiple PIs with Dr. Thomas Dix at Medical University of South Carolina)

R01 NS 058710 NIH/NINDS ``

10/01/2008 - 09/30/2013

Combination Therapy in Human ES cell Transplantation after Neonatal Stroke

Role: Co-Investigator; (PI: Ling Wei)

R01 NS062097-01 NIH/NINDS

02/01/2010 to 01/31/2015

Transplantation of Pre-conditioned Bone Marrow Mesenchymal Stem Cells after

Ischemia.

Role: Co-Investigator; (PI: Ling Wei)

R21NS75338 NIH/NINDS

08/01/2011 to 07/30/2013

Axonal Growth after Stem Cell Transplantation into the Ischemic Brain

Role: Co-Investigator; (PI: Ling Wei)

• University Research Committee Seed Grant

2012 - 2014

Emory University

Non-invasive brain stimulation for neuroprotection in an acute stroke model

Role: PI

P51 NIH/Yerkes National Center

05/01/2010 to 04/30/2012

Hypothermia therapy for ischemic stroke

PI: Shan Ping Yu

R01 NS 045155 -01

07/01/03 to 06/30/09

NIH/NINDS

Function restoration by stem cell implant after focal ischemia.

Role: Co-Investigator (PI: Ling Wei)

R21 NS42236-01 Shan Ping Yu (PI)

08/02/01 to 07/31/06

NIH/NINDS

Chloride channel modulation and neuronal apoptosis

Role: PI

0170064N Shan Ping Yu (PI)

01/01/01 to 12/31/05

American Heart Association (AHA-Bugher Award)

K+ channel modulation in apoptosis and effects of K+ channel blockers on ischemic cell death.

Role: PI

IBN-9817151 Shan Ping Yu (PI) 10/01/99 to 09/31/04

National Science Foundation

Membrane-delimited modulation of non-NMDA receptors by metabotropic glutamate receptors.

Role: PI

Pilot Investigation; Shan Ping Yu (PI) 01/31/99 to 12/31/99

NIH and Alzheimer's Disease Research Center Potassium channel modulation in β -amyloid toxicity

Role: PI

9950207N; Shan Ping Yu (PI) 1/1/99 – 12/31/01

American Heart Association

Membrane-delimited modulation of AMPA/kainate receptor channels by metabotropic glutamate

This grant ended early because of the funding of the AHA-Bugher Award.

Role: PI

R01NS031622-13A2 12/1993 – 5/2012

Role of Proteinase in Spinal Cord Injury

Role: Co-investigator (PI: Naren Banik; may not be transferable to Emory)

R01NS056176-02 8/2006 – 1/2011

Attenuation of Axonal Damage and Neuronal Death in EAE

Role: Co-investigator (PI: Naren Banik, MUSC, may not be transferable to Emory)

R01; Dennis Choi (PI) 1995 to 2000

NIH/NINDS

Cell-cell Interaction and Hypoxic Brain Injury

Role: Co-investigator

R01; Dennis Choi (PI) 2000-2005

NIH/NINDS Program Project ES cells and spinal cord injury

Role: Co-investigator

R01; Chung Y. Hsu (PI) 2001-2005

NIH

Amyloid-induced cerebroendothelial degeneration"

Role: Co-investigator

Formal Teaching:

[Activity, year(s)]

- a. Medical Student Teaching
- b. Graduate Program

Course Coordinator and Instructor (2004 - 2008): Environmental Stress Signaling and Cellular Consequences (PHMSC-715; Elective graduate course, spring semesters, MUSC; 3 credits). My duties included selection of instructors, organizing course subject and syllabus, preparation of lecture materials and exams, grading and analyzing students' exams, and fill the final report to school. I have also taught the topic of Mechanism of Cell Death: Apoptosis and Necrosis in this course (4 lectures, 3 hrs each lecture).

Instructor (2003 - 2008): 4 lectures (2 hrs each lecture) in Rational Drug Design, Pharmacogenomics and Toxicology, MUSC

Instructor (2003 - 2008): Cell death the central nervous system (3 hr lecture in Organ Systems Toxicology, PCOL-736, Pharmacy/Pharmacology course, MUSC)

Instructor (2003 - 2008): Apoptosis (3 hr lecture in Foundation of Biomedical Sciences: Mechanism of Disease, Pathology Unit CGS70GU17, MUSC)

Instructor (2004, 2007, 2008): Cell death and protection (2-hr lecture in Medicinal Chemistry II; Pharmacy professional course PHRSC-651; 77 pharmacy students, MUSC)

Instructor (2007, 2008): Endocrine and calcium (4-hr lectures in Pharmacology; Pharmacy professional course; >100 pharmacy students, MUSC)

Instructor (2008): Opioid and pain regulation (4 hrs lectures in Pharmacology; Pharmacy professional course; >100 pharmacy students, MUSC)

Training programs Residency program

c. Other categories

[Physician assistant, physical therapist, etc.]

Supervisory Teaching:

a. Ph.D. and Master students directly supervised:

Michelle Hedrick, Ph.D. Student (Graduated in 2006, MUSC, currently an Assistant Professor at University of Virginia.

Rally V. Whitaker, Master student (graduated in 2006, MUSC, currently a Research Associate in Research Triangle, North Carolina)

Christian C. Keogh, PhD student (graduated in 2007, MUSC, currently a science editor in New York) Xin Zhou, fourth year PhD Student (MUSC, 2005 -2011)

Adrian D. Sproul, fourth year MD/PhD student (MUSC, 2005 -2011), currently a resident at MUSC.

Kavin Francis, PhD Student (MUSC, 2005 -2010); currently an Assistant Professor at University of South Dakota

Howard Ying, MD/PhD student, graduated in 1999; Washington University in St. Louis; currently a neurologist at Barns Hospital, St. Louis, MO

Frank Gottron, PhD student (graduated in 2000; Washington University, St. Lois;

Osama Mohamad, MD/PhD student (graduated in 2014), Emory University; currently a resident doctor at MD Anderson Cancer Center, Texas.

b. Post-doctoral fellows directly supervised:

Minke Song, Ph.D. (2009-2015). Post-doctoral fellow.

Zheng Z. Wei, PhD, (2012-2015). Post-doctoral fellow.

Xue Qing Wang, Ph.D. (2000 – 2004). Current position: postdoctoral fellow in Department of Neurobiology, the University of Chicago, Chicago, IL.

Tomoni Ichinose, M.D., Ph.D. (1999 – 2001). Current position: Assistant Professor in Department of Ophthalmology, Washington University School of Medicine, St. Louis, MO.

Shun Yu, M.D., Ph.D. (2001-2003). Current position: Director of Neuroscience Division, Beijing Xuang Wu Hospital, Beijing, China.

Toshihiro Takata (2001 –2004); Current position: Assistant Professor, Kobe University Graduate School of Medicine, Kobe, Japan

Ai Ying Xiao, M.D., Ph.D. (2000 – 2002). Current position: Postdoctoral fellow in Department of Neurology, Washington University, St. Louis, MO.

Chuan-Shu Sun, M.D. (2004 – 2005). Postdoctoral Fellow

Yan Zhou, Ph.D. (2004 - 2005). Research Assistant Professor, MUSC

Jiang-feng Wei (2004-2007) Research Associate. Current position: Attending doctor and assistant professor, Zhejiang University School of Medicine, Hangzhou, China

- c. Residency Program
- d. Other \

Visiting Professors trained and collaborated:

Da-jun Ying, M.D. (Jan - Dec, 2000). Visiting Professor. Currently a Professor in Department of Neuroanatomy, The Third Military Medical University, Chongqing, China.

Xiao Zhang, M.D., Ph.D. (Sep – Dec, 2004). Visiting Associate Professor. Currently an Associate Professor in Division of Molecular Neuropharmacology, Karolinska Institutet, Stockholm, Sweden.

Jin-ping Li, M.D., Ph.D. (Nov – Dec, 2004). Visiting Associate Professor. Currently an Associate Professor in Department of Biochemistry, Biomedical Center, Uppsala University, Sweden.

Summer research program:

Joylaina Speaks (Minority undergraduate research program; 2005) Kaja Richard (Minority undergraduate research program; 2006)

Eric Wang (MUSC summer research program; 2007)

Adams Cho (MUSC summer research program; 2008)

Lectureships, Seminar Invitations, and Visiting Professorships (last 5 years):

Title: Mitochondrial Damage in Brain Ischemic Stroke

Capital University of Medical Sciences

Beijing, China (2005, 2006, 2007, 2008)

• Title: Mechanism of Neuronal Cell Death

Department of Cardiovascular Diseases

Zhejiang University, China (2006)

• Title: Ionic Mechanism of Apoptosis: Ionic homeostasis and K+ channels

Department of Neurological Surgery

University of Louisville (2007)

Regulation of Ionic Homeostasis and Neurodegeneration

Department of Nephrology (2008)

University of Virginia, VA

Department of Neurosurgery

Waisman Center

University of Wisconsin (2009)

Department of Cellular Biology and Anatomy

Louisiana State University (2010)

Division of Neuroscience

Ligancy Health System

Portland, OR (2010)

Department of Neurology

Okayama University

Okayama, Japan (2012)

Department of Chemistry

Center for Diagnostics & Therapeutics (CDT)

Center for Advanced Biotechnology and Drug design

Georgia State University (2013)

• Department of Pharmacology & Neuroscience

University of North Taxes Health Science Center (2014)

- Institute of Molecular Medicine
 The Brown Foundation, The University of Texas (2015)
- Department of Pharmaceutical Sciences University of Georgia (2015)

Invitations to National or International Conferences (last 5 years):

- Title: Novel Ionic Homeostasis in Apoptosis Apoptosis European/International Conference, Luxembourg (2004)
- Title: Critical Role of Na+/K+-ATPase in Apoptosis World Congress of Pharmaceutical Sciences Kyoto, Japan (2004)
- Title: K+ Channels and Na+/K+-ATPase in Neuronal Apoptosis
 35th Annual Meeting of Society for Neuroscience (Symposium Chair and Speaker)
 Symposium: "Ion Channels, Mitochondria and Neuronal Cell Death"
 Washington DC (2005)
- Title: Regulation of NMDA Receptor K+ permeability Winter Conference for Neuroscience Steamboat, CO (2006)
 - Title: Mechanism of Cell Death in Ischemic Stroke The Second International Stroke Summit Nanjing, China (2006)
- Title: Critical Roles of Src Kinases in Stem Cell Neuronal Differentiation National Conference of Stem Cell Research Hongzhou, China (2006)
- Title: Hypoxic-preconditioning as a Novel Strategy for Stem Cell Transplantation International Conference of Brain 07 Osaka, Japan, 2007
 - Title: The Ionic Mechanism of Apoptosis
 The 21th Annual Meeting of International Society for Neurochemistry
 Cancun, Mexico (2007)
- Title: Critical Role of Kv2.1 Channel in Cell Migration 37th Annual Meeting of Society for Neuroscience San Diego, CA (2007)
- Title: Hypoxic-preconditioning for Stem Cell Transplantation Therapy Keystone Symposia: Hypoxia and Cellular Response Vancouver, Canada (2008)
- Title: Shanghai International Neurodegenerative Diseases Symposium Shanghai, China (2009)
- World Forum on Cerebral Blood Flow & Metabolism (CBFM) Kyoto, Japan (2010)
- ACRM-ASNR Annual Conference (2011)
- 8th International Stroke Summit, Nanjing, China (2012)
- Biomedical Center, Uppsala University, Uppsala, Sweden (2012)
- The 11th biennial meeting of Asian Pacific Society for Neurochemistry (APSN) and 55th Meeting of Japanese Society of Neurochemistry (2012)
- 5th Annual Congress of Regenerative Medicine and Stem Cell, Guangzhou, China (2012)
- The 2nd Pangu Stroke Summit; Beijing China (2013)
- Third Biotechnology World Congress, Dubai, UAE (2013)
- International Conference on Neuroscinces, Cuttack, India (2013) Session Chair
- 5th Annual International Congress of Cardiology, Rome, Italy (2013)
- 45th Annual Meeting of American Society for Neurochemistry, Long Beach, CA (2014)
- Adaptive Responses in Biology and Medicine Conference, University of Massachusetts at Amherst (2014).

- 46th Annual Meeting of American Society for Neurochemistry, Atlanta (2015)
- 25th International Society for Neurochemistry, Cairns, Australia (2015)
- 13th International Symposium on Neural Transplantation and Repair, Beijing, China (2015)

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Other Activities: Bibliography:

- a. Published and accepted research articles (clinical, basic science, other) in refereed journals:
- 1. **Yu, S.P.** & Lui, C.G. Direct action of soman on the neuromuscular junction of the isolated rat's diaphragm. *Medical J. Chinese P.L.A.* 8(4): 245-248, 1983
- 2. **Yu, S.P.** & Lui, C.G. Antagonism of non-depolarization muscle relaxants and aminoglycoside antibiotics to the neuromuscular block of rat's diaphragm caused by soman. *Acta Pharmacologica Sinica* 6(1): 11-16, 1985
- 3. Lupa, M.T. & Yu, S.P. A comparison of miniature end plate potentials at normal, denervated, and long-term botulinum toxin poisoned neuromuscular junctions. *Pflugers Arch* 407:476-481, 1986
- 4. Lupa, M.T., Tabti, N., Thesleff, S., Vyskocil, F & Yu, S.P. The nature and origin of calcium-insensitive miniature end-plate potentials at rodent neuromuscular junctions. *J. Physiol.* 381: 607-618, 1986
- 5. Tabti, N., Lupa, M.T., **Yu, S.P.** & Thesleff, S. Pharmacological characterization of the calcium-insensitive, intermittent acetylcholine release at the rat neuromuscular junction. *Acta Physiol. Scand.* 128: 429-436, 1986
- 6. **Yu, S.P.** & Van der Kloot, W. Increase in quantal size produced by hypertonic solutions and its antagonism by AH5183 and Na⁺/K⁺ exchange pump inhibition at mouse neuromuscular junctions. *Federation Proceedings* 46(3): 337, 1987
- 7. **Yu, S.P.** & Van der Kloot, W. Non-quantal acetylcholine release at mouse neuromuscular junction: effects of elevated quantal release and aconitine. *Neurosci. Letter.* 117: 111-116, 1990
- 8. Yu, S.P. & Van der Kloot, W. Increasing quantal size at the mouse neuromuscular junction and role of choline. *J. Physiol.* 433: 677-704, 1991
- 9. Csernansky, C.A., Canzoniero, L.M.T., Sensi, S.L., **Yu, S.P.** & Choi, D.W. Delayed application of aurintricarboxylic acid reduces glutamate-induced neuronal injury. *J. Neurosci. Res.* 38: 101-108, 1994
- 10. **Yu, S.P.**, O'Malley, D.M. & Adams, P.R. M current regulation by intracellular calcium in bullfrog sympathetic neuron. *J. Neurosci.* 14: 3487-3499, 1994
- Lynch III, J.J., Yu, S.P., Canzoniero, L.M.T., Sensi, S.L., & Choi, D.W. Sodium channel blockers reduce oxygen-glucose deprivation-induced cortical neuronal injury when combined with glutamate receptor antagonists. *J. Pharmacol. Exp. Ther.* 273: 554-560, 1995
- Gubitosi-Klug, R., Yu, S.P., Choi, D.W. & Gross, R.W. Concomitant acceleration of the activation and inactivation kinetics of the human delayed rectifier K+ channel (Kv1.1) by Ca2+-independent phospholipase A₂. J.Biol. Chem. 270: 2885-2888, 1995
- 13. Buisson, A., **Yu, S.P.** & Choi, D.W. DCG-IV selectively attenuates rapidly-triggered NMDA-induced neurotoxicity on cortical neurons. *Eur. J. Pharmacol.* 8: 138-143, 1995

14. **Yu, S.P.** Roles of arachidonic acid, lipoxygenases and phosphatases in calcium-dependent modulation of M current in bullfrog sympathetic neurons. *J. Physiol.* 487: 797-811, 1995

- 15. Dugan, L.L., Gabrielsen, J.K., **Yu, S.P.**, Lin, T-S. & Choi, D.W. Buckminsterfullerenol free radical scavengers reduce excitotoxic and apoptotic death of cultured cortical neurons. *Neurobiol. Dis.* 3: 129-135, 1996
- Yu, S.P., Sensi, S.L., Canzoniero, L.M.T., Buisson, A. & Choi, D.W. Membrane-delimited modulation of NMDA receptor currents by metabotropic glutamate receptor subtype 1/5 in mouse cortical neurons. *J. Physiol.* 499: 721-732, 1997
- 17. **Yu, S.P.** & Choi, D.W. Na⁺-Ca²⁺ exchanger currents in cortical neurons: concomitant forward and reverse operation and effect of glutamate. *Eur. J. Neurosci.* 9: 1273-1281, 1997
- 18. **Yu, S.P.**, Yeh, C-H., Sensi, S.L., Gwag, B., Canzoniero, L.M.T., Farhangrazi, Z.S., Ying, H.S., Tian, M., Dugan, L.L. & Choi, D.W. Mediation of neuronal apoptosis by enhancement of outward potassium current. *Science* 278: 114-117, 1997
- 19. Sensi, S.L., Canzoniero, L.M.T., **Yu, S.P.**, Ying, H., Koh, J.Y. and Choi, D.W. Modulation of intracellular free zinc in living cultured cortical neurons: routes of entry. *J. Neurosci.* 17: 9554-9564, 1997
- 20. **Yu, S.P.** and Kerchner, G.A. Endogenous Voltage-gated Potassium Channels in Human Embryonic Kidney (HEK293) Cells. *J. Neurosci. Res.* 52: 612-617, 1998
- 21. Yu, S.P., Farhangrazi, Z.S., Ying, H.S. & Choi, D.W. Enhancement of outward potassium current participates in ß-Amyloid peptide-induced cortical neurons death. *Neurobiol. Dis*, 5: 81-88, 1998
- 22. **Yu, S.P.**, Yeh, C-H., Strasser, U. and Choi, D.W. NMDA receptor mediated K⁺ efflux and neuronal apoptosis. *Science* 284: 336-339, 1999
- 23. **Yu, S.P.**, Yeh, C-H. Gottron, F., Wang, X., Margaret, M. and Choi, D.W. Role of the outward delayed rectifier K⁺ current in ceramide-induced caspase activation and apoptosis in cultured cortical neurons. *J. Neurochem.* 73: 933-941, 1999
- 24. Behrens, M.M., Strasser, U., Heidinger, V., Lobner, D., **Yu, S.P.**, McDonald, J.W., Won, M. and Choi, D.W. Selective activation of group II mGluRs with LY354740 does not prevent neuronal excitotoxicity. *Neuropharmacol.* 38: 1621-1630, 1999
- 25. Wang, X., Ichinoshi, T., Xiao, A. and **Yu, S.P**. Effects of tetraethylammonium analogues on apoptosis and membrane currents in cultured cortical neurons. *J. Pharmocol. Exp. Ther.* 295: 524-530, 2000
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