CURRICULUM VITAE

NAME: Jie Wu
Division of Neurology
Barrow Neurological Institute
St. Joseph's Hospital and Medical Center
350 W. Thomas Rd, Phoenix AZ 85013

EDUCATION:

1978 – 1983 M.D., Xuzhou Medical College, China (Medicine)
1985 - 1990 Ph.D., Sun Yat-Sen University of Medical Sciences, China (Physiology)

POSTGRADUATE TRAINING:

1993.1 – 1994.9 Postdoctoral Fellow with Dr. Norio Akaike
Dept. of Neurophysiology, Tohoku University School of Medicine
1994.9 – 1996.9 Research Associate with Dr. Yoshio Okada
Dept. of Neurology, New Mexico University School of Medicine

ACADEMIC APPOINTMENTS:

1983 - 1985 Assistant Lecture
Dept. of Physiology, Xuzhou Medical College, Xuzhou, China
1990 - 1991 Lecture
Dept. of Physiology, Sun Yat-Sen University of Medical Sciences, China
1991 - 1993 Associate Professor
Dept. of Physiology, Sun Yat-Sen University of Medical Sciences, China
1996 - 1997 Research Scientist
Dept. of Neurology, New Mexico University School of Medicine, USA
1997 - 1998 Assistant Professor
Dept. of Neurology, New Mexico University School of Medicine, USA
1998 - 2000 Assistant Staff Scientist (equivalent to Assistant Professor)
Division of Neurology, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, USA
2000 - 2009 Associate Staff Scientist (equivalent to Associate Professor)
Division of Neurology, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, USA
2009 - present Senior Staff Scientist/Full Professor
Division of Neurology, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, USA

HONORS AND AWARDS:

1988 Guangdong Province Natural Scientific Excellent Thesis Prize, China
1989 Young Scientist Excellent Thesis Prize in Sun-Yat Sen Univ. of Med. Sci., China
1990 Young Scientist Excellent Thesis Prize in Sun-Yat Sen Univ. of Med. Sci., China
1991 Guangdong Province Natural Scientific Excellent Thesis Prize, China
1992 Xi-Jun Zhang Foundation, National Young Physiologist Excellent Thesis Prize, China
2005 Beijing Science and Technique Advance Prize, Beijing, China
2006 Chinese National Nature and Science Award, China
2008 Excellent Presentation Award in "International Meeting for Nicotinic Receptor Study", UK
2010 Acta Phamarcologica Sinica Outstanding Contribution Award, Shanghai, China

PATENTS:

1. “Method for decreasing nicotine and other substance use in human” approved in March 11, 2008. Inventor: Jie Wu
2. “A new method for smoking cessation” allowed in 2010. Inventor: Jie Wu
3. “Method for decreasing blood glucose level”. Inventor: Jie Wu, filed in 2006 (pending).
4. “Using cholesterol reducing drags for smoking cessation” Inventor: Jie Wu, filed in 2008 (pending).
5. “A novel target mediates amyloid toxicity” Inventor: Jie Wu, filed in 2008 (pending).
6. “Developing native drugs for treating diabetes” Inventor: Jie Wu, filed in 2010 (pending).

SCIENTIFIC SOCIETIES:

1988 – 1993	Society for Chinese Physiology
1988 – 1993	International Association for the Study of Pain (IASP)
1995 – present	Society for Neuroscience
1995 – 1998	New York Academy of Sciences
1995 – present	Chinese-American Neuroscientist Society
1999 – present	American Epilepsy Society
2003 – 2004	American Chemistry Society
2004 – present	American Society for Pharmacology and Experimental Therapeutics
2007 – present	American Physiology Society
2009 – present	Translational Neuroscience Society (Chinese in USA)

TEACHING AND STUDENT TRAINING

1983-1985: Department of Physiology, Xuzhou Medical College, Jiangsu, China.
Assistant Lecturer: Teaching Human Physiology to undergraduate medical students.

1990-1991: Dept of Physiology, Sun Yat-Sen University of Medical Sciences, Guangzhou, China.
Lecturer: Teaching Human Physiology to undergraduate medical students.

1991-1992: Dept of Physiology, Sun Yat-Sen University of Medical Sciences, Guangzhou, China
Associate Professor: Teaching Human Physiology to undergraduate medical students.
Advising two postgraduate students (Medical Master Student).

Adjunct Professor: Advanced Physiology course (experiments) for postgraduate students, Arizona State University, ASU (2002, 2004, 2006)

Associate Professor: Lecture for Medical students, University of Arizona School of Medicine (Phoenix Campus), USA (2007-2009)

Student Training (2000-present):

Visiting Scientist:	4
Summer Internship Student:	5
High-School Research Student:	5
Undergraduate Research Student (ASU):	1
PH.D. Student (ASU-Barrow Neuroscience PhD program):	3
PH.D. Student (China):	3
Postdoctoral Fellow:	9
Clinician Investigator:	1

PH.D. Thesis Advisor (mentor):
Jun Hu, Nangjing Medical University, P.R. China 2006

Ke-Chun Yang, Shanghai Institute of Materia Medica,
Chinese Academy of Sciences, Shanghai 201203, China, P.R. China 2008

Yu Jin, Nangjing Medical University, P.R. China 2010

MS Thesis Committee Member:
Mallika H, Arizona State University, USA 2003

MS Thesis Advisor (mentor):
Qiang Liu, Nanjing Medical University, P.R. China 2007

Undergraduate Thesis Advisor/Committee Member:
Michael Treiman, Arizona State University, USA 2006

JOURNAL REVIEWS

J. Neurochemistry
Life Science
J Pharmacol Exp Thera
Brain Res
Neuroscience
J Neurosci Methods
J Neurosci Res
Neurosci Lett
Acta Pharmacologica Sinica
American Journal of Physiology
Biophy Biochem Res Communication
Pesticide Biochemistry and Physiology
Cancer Letter
Cancer Res
Biochem Pharmacol
Neuropsychopharmacology
Eur J Neurosci
Exp. Neurol
Auto Neuroscience: Basic and Clinic
Hippocampus
Neurobiology of Disease

EDITOR IN BOARD

Acta Pharmacologica Sinica (2008 - 2012)
Journal of Biomedical Research (2009 – 2013)

GRANT REVIEWS:

American Alzheimer's Association Research Grant (2005)
American Alzheimer's Association Research Grant (2007)
Chinese Nature and Science (CNSF) Central Research Grant (2007, 2009, 2010)
Hong Kong Government Research Grant (2007)
Austria National Academy Research Grant (2010)

INVITED TALKS:

1. "Genesis of MEG signals". Sixth International Evoked Potential Symposium. National Institute for Physiological Sciences, Okazaki, Japan. March 21-25, 1998

2. "Hyperthermia-induced spreading depression in rat hippocampal slices". Hirosaki University School of Medicine, Department of Physiology, Hirosaki, Japan, 2000.8 (Invited by M. Wakui, M.D., Professor and Department Chair)

3. "Molecular mechanisms of 2-APB modulation of intracellular IP_3 receptors and intracellular Ca^{2+} signals". Tokyo University, Department of Molecular Neurobiology, Tokyo, Japan, 2001.9 (Invited by K. Mikoshiba, Professor and Department Chair)

4. "Functional, pharmacological and molecular properties of nAChR activation and desensitization". New Jersey Medical and Dentist University, Pain Research Center, USA, 2001.11 (Invited by Dr. J.H. Ye, Professor, Director, Receptor/Ion Channel Laboratory)

5. "Hyperthermia-induced spreading depression: An *in vitro* model of febrile seizures". Georgetown University Medical Center, Department of Physiology & Biophysics, USA, 2001 (Invited by Dr. JY Wu, Associate Professor).

6. "Cellular and molecular mechanisms of hyperthermia-induced spreading depression". Hirosaki University School of Medicine, Department of Physiology, Hirosaki, Japan, 2002.8 (Invited by M. Wakui, M.D., Professor and Department Chair).

7. "Acute dissociation of single neurons from brain: A powerful approach to study neuronal function". Medical Research Seminar, Hirosaki University School of Medicine, Department of Physiology, Hirosaki, Japan, 2004.8 (Invited by M. Wakui, M.D., Professor and Department Chair, and Vice Dean of Medical School)

8. "Nicotinic acetylcholine receptors in the VTA and nicotine dependence". Hirosaki University School of Medicine, Department of Physiology, Hirosaki, Japan, 2004.8 (Invited by M. Wakui, M.D., Professor and Department Chair, and Vice Dean of Medical School)

9. "Cellular mechanisms of iptakalim and protection of DA neurons against neurotoxin-induced degeneration". Nanjing Medical University, P.R. China, 2004.11 (Invited by G. Hu, Professor and Vice President of Nanjing Medical University).

10. "Human nicotinic acetylcholine receptors: from molecular levels to overall function". Beijing Pharmacology and Toxicology Institute, P.R. China, 2004.11 (Invited by H. Wang, Professor and Vice President of Institute)

11. "Midbrain nicotinic acetylcholine receptors and pharmacology". Shanghai Institute of Materia Medica, Chinese Academy Science, P.R. China, 2004.11 (Invited by GZ Jin, Professor, and member of Chinese Academy Science)

12. "Gene-engineering manipulations of human neuronal nicotinic acetylcholine receptor □4 subunits in the SH-EP1 cell line: function, pharmacology and biophysics". Shanghai International Conference on Physiological Biophysics, Shanghai, P.R. China, 2004.11. (Chair, mini-symposium 7)

13. “Novel mechanisms of iptakalim on pancreatic beta-cell K-ATP channels”. Hirosaki University School of Medicine, Department of Physiology, Hirosaki, Japan, 2005.7 (Invited by M. Wakui, Professor and Department Chair, and Vice Dean of Medical School).

14. “GABAergic excitation in human hamartoma neurons: A novel hypothesis for gelastic seizure epileptogenesis”. Phoenix, BNI, Epilepsy Month Meeting. 2006.3.17.

15. “Hetermeric □7□2-nAChR in forebrain cholinergic neurons, a selective target to mediate beta-amyloid neurotoxicity”. Phoenix, BNI Alzheimer’s Disease Month Meeting. 2006.5.17.

16. “The switch of nicotinic acetylcholine receptor subunits in brain reward center after chronic exposure to nicotine.” Phoenix, BNI Neuroscience Seminar. 2006.6.27.

17. “Iptakalim study: from pharmacology to diseases”. Chinese Pharmacology University, P.R. China, 2006.9 (Invited by Professor You, dean of Pharmacology College).

18. “New concept, pharmacology and application of iptakalim”. Nanjing Medical University, P.R. China, 2006.9 (Invited by G. Hu, Professor and Vice President of Nanjing Medical University).

19. “Role of MPP^+ in $GABA_A$ receptor: A new hypothesis for MPP^+-induced acute dopamine neuron degeneration”. 6th Internation symposium: Molecular and cellular mechanisms of neurodegeneration, Qingdao, P.R. China, Sep 21-22, 2006.

20. “Gene-engineering manipulation of human nicotinic receptors: The model for novel nicotinic drug discovery”. Shanghai Institute of Materia Madica, P.R. China, 2006.9. (Invited by Professor Guozhang Jin, a Member of Chinese Academy Science).

21. “Nicotinic acetylcholine receptors and nicotine dependence” Beijing Pharmacology Institute, P.R. China, 2006.9 (Invited by Hai Wang, professor and Vice President of Institute).

22. “ATP-sensitive K^+ channels and neuronal protection” Shanghai Institute of Materia Medica, 05-13-2007. (Invited by Professor Guozhang Jin, a Member of Chinese Academy Science).

23. “Novel pharmacological mechanisms of iptakalim” Nanjing Medical University, P.R. China, 05-17-2007. (Invited by G. Hu, Professor and Vice President of Nanjing Medical University).

24. “Why are forebrain cholinergic neurons selectively lost in Alzheimer disease?” Beijing Institute of Pharmacology and Toxicology, P.R. China, 05-23-2007. (Invited by Hai Wang, professor and Vice President of Institute).

25. “Iptakalim, a novel compound for diabetic therapy” University of Wollongong, School of Health Science, Australia, 07-19-2007. (Invited by Professor Xufeng Huang, Director of Neurobiology Research Center).

26. “Hetromeric α7β2 nAChRs”, UNIVERSIT ÄTSMEDIZIN, BERLIN 03-28-2008. (Invited by Dr. Congjian Zhao).
27. “Epileptogenesis of human gelastic seizures with hypothalamic hamartoma” Landeskrankenhaus Universitätsklinikum, Graz, 05-01-2008. (Invited by Hans G. Eder, Professor for Neurosurgery and Dr. Michael Feichtinger, Head of Epilepsy Unit).

28. “Cellular Mechanisms of nicotine excites dopamine neurons in brain reward center”. University of Wyoming, 02-19-2009 (Invited by Professor Sun, Qian-Quan).

29. "Cellular mechanisms of nicotine excites dopamine neurons in brain reward center" Wuan-Nan Medical College, 05-13-09 (Invited by Professor Wang, Meng-Ya).

30. "Why are base forebrain cholinergic neurons selectively degenertaed in Alzheimer's disease?" Shantou University School of Medicine, China, 05-16-09 (Invited by Professor Shi, Gon-Gon).

31. "Developing new compounds for smoking cessation" First Pearl River International Biopharmaceutical Forum, Guangzhou, China, Invited speaker, July 18-21, 2009.

32. "A novel type of nicotinic receptor in basal forebrain cholinergic neurons" University of Alberta, Canada 09-09-09 (Invited by Professor Jack Jhamanda).

33. "Epileptogenesis of gelastic seizures with hypothalamic hamartomas" University of California in Los Angeles. 08-24-10 (Invited by Professor C. Cepeda).

34. "Do α7 type nicotinic receptors mediate amyloid toxicity?" University of Second Army Medicine, Shanghai, China. 09-01-10 (Invited by Professor Su, Dingfeng).

35. "Mechanisms of nicotine reward" APS 30th Anniversary Pharmacology Symposium (Invited speaker, 08/31/2010 – 09/01/2010, Shanghai).

INSTITUTE SERVICE

Senior Research Consul Committee, BNI
Promotion Committee, BNI
BNI high-school student research program
BNI summer research program
BNI-ASU Neuroscience Ph.D. program

RESEARCH GRANT SUPPORT

Past

1. Barrow Neurological Institute Start Fund **1998-2000**

2. National Institute of Health Grant NS40417 2000-2005 $1,300,000 (total)
Homomeric nicotine acetylcholine receptors
Co-investigator (PI: Ronald. Lukas, PH.D.)
Wu portion: 20% salary, 100% postdoctoral fellow, and one patch-clamp system and lab supplement

3. Barrow Neurological Foundation Women's Board 2000-2001 $25,000 (direct)
Mechanisms of febrile seizures
Principal Investigator

4. Barrow Neurological Foundation Women's Board 2001-2002 $13,000 (direct)
Two-channel thermic pen recorder and tissue culture microscope
Principal Investigator

5. Bioengineering Seed Funding, Arizona State University 2002-2003 $20,000 (direct)

Engineering a novel GABA sensor to study the role of $GABA_A$ receptor abnormalities in absence epilepsy
Principal Investigator

6. Bioengineering Seed Funding, Arizona State University 2002-2003 $20,000 (direct)
Dynamics of hyperthermia-induced seizures in immature rat hippocampal slices
Co-Investigator (PI: Leon Iasemidis, PH.D.)
Wu portion: $8,000 (direct)

7. Alzheimer's Disease Pilot Research Grant 2002-2004 $31,000 (total)
□-amyloid directly modulates □4 nicotinic acetylcholine receptor function
Principal Investigator

8. Barrow Neurological Foundation Women's Board 2002-2003 $25,000 (direct)
Role of $GABA_A$ receptors in MPP^+-induced DA neuron degeneration
Principal Investigator

9. New Vision Company 2002-2003 $31,000 (direct)
Effects of jojoba meal on rat body weight, food intake and blood cells
Principal Investigator

10. Barrow Neurological Foundation Women's Board 2003-2004 $40,000 (direct)
Nicotinic antagonist allosterically enhances □4□2-nAChR function: A new strategy for Alzheimer's disease therapy
Principal Investigator

11. Barrow Neurological Foundation 2004-2005 $32,375 (direct)
Cellular basis of epileptogenesis in human hypothalamic hamartoma
Principal Investigator

12. Barrow Neurological Foundation Women's Board 2004-2005 $40,000 (direct)
Epileptogenesis of human hypothalamic hamartoma
Principal Investigator

13. Institute for Mental Health Research Foundation 2005-2006 $25,000 (direct)
VTA nicotinic acetylcholine receptors and nicotine dependence
Principal Investigator

14. Barrow Neurological Foundation Women's Board 2007-2008 $40,000 (direct)
ATP-sensitive K+ channels in human temporal lobe epilepsy
Principal investigator

15. Barrow Neurological Foundation Women's Board 2006-2008 $40,000 (direct)
Iptakalim, a novel nicotinic receptor antagonist, selectively blocks VTA α4β2-nAChRs--- A new compound for smoking cessation
Principal Investigator

16. Arizona Biomedical Research Commission (ABRC) Phase I 2005-2008 $147,850 (direct)
VTA nicotinic acetylcholine receptors and nicotine dependence
Principal Investigator

17. Institute for Mental Health Research Foundation 2007-2008 $25,000 (direct)
Hippocampal gamma oscillations in nicotine- and katamine-treated rats
Principal Investigator

18. National Institutes of Health, DA015389 2003-2008 $1,540,000(total)
Molecular mechanisms of nicotine dependence (No cost extend to 2009)
Co-investigator. (PI: Ronald J. Lukas, PH.D.)
Wu portion: 25% salary, 100% postdoctoral and lab supplement:

19. Philip Morris External Research Grant 2005-2008 $965,860 (total)
Nicotinic receptors involved in mood and reward (No cost extend to 2009)
Co-Principal investigator (PI: Ronald J. Lukas, PH.D.)
Wu portion: 15% salary, 100% postdoctoral and lab supplement:

20. National Institutes of Health, NIH RO1 2007-2008 $119,874 (total)
Chemistry and Pharmacology of New Nicotine Ligands
Co-Investigator, PI: Alan P. Kozikowski, Ph.D. (University of Illinois)

21. Barrow Neurological Foundation Women's Board 2008-2009 $93,000 (direct)
α7β2 nAChRs in forebrain cholinergic neurons are highly sensitive to beta amyloid
Principal investigator

22. National Institutes of Health, NS056104 2006-2009 $385,443 (total)
GABAergic excitation in human hypothalamic hamartoma (No cost extend to 2009)
Principal Investigator

23. ADCC Pilot Grant 2007-2009 $31,000 (direct)
Heteromeric □7□2-nicotinic receptors in forebrain cholinergic neurons are highly susceptible to A□ peptides
Co-Investigator (Mentor), PI: Qiang Liu (Postdoctoral in Wu Lab)

24. CHW Marketing-associate Seed Foundation 2008-2009 $20,000 (direct)
Effects of iptakalim on nicotine-induced locomotor sensitization
Principal Investigator

25. National Institutes of Health, U19-DA019377 2005-2010 $980,000 (total)
Development of pharmacotherapies for nicotine addiction
Co-investigator (PI: Ronald J. Lukas, PH.D., in project 2)
Wu portion: 20% salary, 50% postdoctoral plus lab supplement

Current active

1. Barrow Neuroscience Foundation 2010-2011 $230,000 (direct)
Mechanism of nicotine-induced glutamatergic synaptic plasticity in VTA DA neurons
Principal investigator

2. Philip Morris External Research Grant 2007-2012 $704,000 (total)
Remodeling of nicotinic receptor subunits and nicotine dependence
Principal Investigator

3. CHW Marketing-associate Seed Foundation 2009-2010 $20,000 (direct)

Effects of U18666A on nicotine-induced locomotor sensitization
Principal Investigator

4. CHW Marketing-associate Seed Foundation 2010-2011 $25,000 (direct)
Developing new compounds for diabetic therapy
Principal Investigator

5. National Institutes of Health DA026627 2009-2011 $43,000 (total)
Construction and expression of concatemeric α6β2* nicotinic acetylcholine receptors
Co-investigator (PI: Paul Whiteaker)
Wu portion: 10% salary, 50% postdoctoral plus lab supplement

6. National Institutes of Health U01 MH085193 2009-2014 $3,510,000 (total)
Design and study of new nicotine analogs for use in depression
Co-investigator (PI: Ronald J. Lukas, project leader)
Wu portion: 12.5% salary, 50% postdoctoral plus lab supplement

7. Arizona Biomedical Research Commission (ABRC) Phase II 2009-2011 $125,000 (direct)
Develop a new Ratt animal model
Co-investigator (PI: Vinodh Narayanan)
Wu portion: 50% postdoctoral plus lab supplement

Pending

1. American Alzheimer's Association, Initial Research Grant 2010-2013 $240,000 (direct)
Mechanisms of amyloid beta induces neuronal hyperexcitation
Principal Investigator

2. National Institutes of Health, RO1 2011-2016 $1,844,859
Nicotinic acetylcholine receptors and amyloid toxicity
Principal Investigator

3. National Institutes of Health, RO1 2011-2016 $1,640,000
Signaling and molecular basis of GABAergic excitation in human hypothalamic hamartoma
Principal Investigator

4. National Institutes of Health, RO21 2011-2013 $440,300 (total)
6-nAChR on GABAergic boutons in the VTA dopamine neurons and nicotine dependence
Principal Investigator

5, National Institutes of Health, RO1 2011-2015 $1,844,859
Interaction of nicotinic acetylcholine receptors and anesthetics
Co-Investigator

PUBLICATIONS

Peer-Reviewed Manuscripts (* means corresponding author):

1. **Wu, Jie*** & Zhang Jian-Fu, Effect of magnetized oral rehydration salts (MORS) on gastrointestinal propulsive motility in mouse. *J. Chinese Physical Med.* 1985; 7:230-231.

2. **Wu, Jie*** & Chen Pei-Xi, Averaged evoked potentials in cerebellar cortex elicited by A- and C-fiber inputs of saphenous nerve. *Guangdong Physiol. Bull*. 1988; 1-5.

3. **Wu, Jie*** & Chen Pei-Xi, Slow pain response in cat cerebellar cortex. *Res. Acupuncture* 1989; 14:23-26.

4. **Wu, Jie*** & Chen Pei-Xi, Effect of rotation magnetic field on cerebral evoked potentials in cat. *Chinese Biomagnetic J.* 1988; 2:20-25.

5. **Wu, Jie*** & Chen Pei-Xi, Effect of permanent magnetic potential on conduction velocities of different types peripheral nerve fiber in cat. *Chinese Biomagnetic J*. 1989; 3:51-55.

6. **Wu, Jie*** & Chen Pei-Xi, Effect of Electro-acupuncture (EA) on slow pain response in cerebellar cortex of cat. *Res. Acupuncture* 1989; 14:328-332.

7. **Wu, Jie*** & Chen Pei-Xi, Electrical responses evoked by C-fiber input from saphenous nerve in cat cerebellar cortex. *Acta Physiologica Sinica* 1989; 41:529-535.

8. **Wu, Jie*** & Chen Pei-Xi, Interaction between descending impulse of somatosensory cortex and peripheral C-fiber input on cerebellar cortex. *Acad. J. SUMS* 1990; 11:33-37.

9. **Wu, Jie*** & Chen Pei-Xi, Cerebellar evoked potentials elicited by stimulation of C-fiber in saphenous nerve in cat. *Brain Res*. 1990; 522:144-146.

10. **Wu, Jie*** & Chen Pei-Xi, Power spectrum analysis on spontaneous and driven firing activities of cerebellar Purkinje cells. *Guangdong Physiol. Bull*. 1991; 8:12-17.

11. **Wu, Jie*** & Chen Pei-Xi, Effect of stimulation of cerebellar dentatus nucleus on responses of cerebral cortex to slow pain stimulation. *Acad. J. SUMS* 1992; 13:22-25.

12. **Wu, Jie*** & Chen Pei-Xi, Effect of C-fiber input on inter-spike interval of cerebellar Purkinje cells. *Acad. J. SUMS* 1992; 13:8-14.

13. **Wu, Jie*** & Chen Pei-Xi, Simple spike response of cerebellar Purkinje cell to stimulation of C-fiber in saphenous nerve in cat. *Acta Physiologica Sinica* 1992; 13:22-25.

14. **Wu, Jie*** & Chen Pei-Xi, Discharge response of cerebellar Purkinje cell to stimulation of C-fiber in saphenous nerve. *Brain Res*. 1992; 581:269-272.

15. **Jie Wu,** Nobutoshi Harata & Norio Akaike*, Sevoflurane-induced ionic currents in acutely dissociated rat hippocampal CA1 pyramidal neurons of rat. *Brain Res*. 1994; 645:303-308.

16. **Jie Wu***, Nobutoshi Harata & Norio Akaike, Potentiation by sevoflurane of the $GABA_A$-induced Cl- current in acutely dissociated CA1 pyramidal neurons from rat hippocampus. *Br. J. Pharmacol*. 1996; 119:1013-1021.

17. **Jie Wu***, Pei-Xi Chen & Guo-Zhang Jin, Dopamine-induced ion currents in acutely dissociated neurons from the CNS, *Acta Pharmacologica Sinica* 1996; 17:23-27.

18. **Jie Wu*** & Guo-Zhang Jin, Tetrahydroberberine suppresses dopamine-induced K+ current in acutely dissociated hippocampal CA1 pyramidal neurons of rat. *Neurosci. Lett*. 1996; 207:155-158.

19. **Jie Wu***, N. Kamimura, T. Takeo, J. Wada, S. Suga, Y. hoshina & M. Wakui, Thimerosal modulates agonist-specific cytosolic Ca^{2+} oscillatory patterns in single pancreatic acinar cells isolated from the mouse. *FEBS Lett*. 1996; 390:149-152.

20. Y.X. Zen, **J. Wu**, S.T. Yee, H. & N. Hirokawa*, Abnormality in the early signal transduction pathway is responsible for the impaired proliferative response and low K+ current in a T-cell clone by stimulation with anti-CD3 antibody. *Cell. Signal*. 1996; 8:263-267.

21. Nobutoshi Harata, **Jie Wu**, Tetsuya Kira, Hitoshi Ishibashi, Kyushu Ono & Norio Akaike*, Rundown of $GABA_A$ response under experimental ischemia in acutely dissociated CA1 pyramidal neurons of the rat. *J. Physiol*. 1997; 500:673-688.

22. **Jie Wu*** & Guo-Zhang Jin, Tetrahydroberberine blocks the K+ channels underlying the inhibition of intracellular message-mediated outward currents in acutely dissociated hippocampal CA1 pyramidal neurons of rat. *Brain Res*. 1997; 775:214-218.

23. **Jie Wu*** & Guo-Zhang Jin, Tetrahydroberberine inhibits accetylcholine-induced K+ current in acutely dissociated hippocampal CA1 pyramidal neurons of rat. *Neurosci. Lett*. 1997; 222:115-118.

24. Yoshio C. Okada*, **Jie Wu** & Shinichi Kyuhou, Genesis of MEG signals in a mammalian CNS structure. *Electroenceph. Clini. Neurophysiol*. 1997; 103:474-485.

25. **Jie Wu*** & L. Donald Partridge, Dissociated dopaminergic neurons from substantia nigra zone compacta in young rat lack functional NMDA receptors. *Pflug. Arch*. 1998; 435:699-704.

26. T. Takeo, S. Suga, **Jie Wu***, N. Kamimura, J. Wada, Y Hoshina & M. Wakui, Kinetics of Ca^{2+} release by photolysis of caged InsP3 in rat submandibular gland cells. *J. Cell. Physiol*. 1998; 174: 387-397.

27. **Jie Wu** & Yoshio C. Okada*, Physiological bases of the synchronized population spikes and slow wave of the magnetic field generated by a guinea-pig longitudinal CA3 slice preparation. *Electroenceph. Clini. Neurophysiol*. 1998; 107:361-373.

28. Takahiro Kanno, Sechiko Suga, **Jie Wu**, Masao Kimura and Makoto Wakui*, Intracellular cAMP potentiates voltage-dependent activation of L-type Ca2+ channels in rat islet □-cells. *Pflug. Arch*. 1998; 435:578-580.

29. **Jie Wu***, YiXin Zen & K. Hirokawa, Signal pathway of Mitogen-induced Ca2+-activated K+ currents in young and aged T-cell clones of C57BL/6 mice. *Cell. Signal*. 1999; 11:391-398.

30. **Jie Wu** & Yoshio C. Okada*, Roles of a potassium afterhyperpolarization current in generating neuromagnetic fields and field potentials in longitudinal CA3 slices of the guinea-pig. *Clini. Neurophysiol*. 1999; 110:1858-1867.

31. **Jie Wu** & Yoshio C. Okada*, Roles of calcium- and voltage-sensitive potassium currents in the generation of neuromagnetic signals and field potentials in CA3 longitudinal slice of the guinea-pig. *Clini. Neurophysiol*. 2000; 111:150-160.

32. **Jie Wu** & Robert S. Fisher*, Hyperthermic spreading depressions in the hippocampal slice. *J. Neurophysiol*. 2000; 84:1355-1360.

33. **Jie Wu*,** Noritaka Kamimura, Teruko Takeo, Sechiko Suga, Makoto Wakui, Takayuki Maruyama & Katsuhiko Mikoshiba. 2-Aminoethoxydiphenyl borate (2APB) modulates kinetics of intracellular Ca^{2+}

34. Sechiko Suga, **Jie Wu*,** Terulo Takeo, Yoshiji Ogawa, Noritaka Kamimura, Takahiro Kanno, Junko Nakamura, Toshihiro Suda, Makoto Wakui, Phorbol Ester Impaires Electrical Excitation of Rat Pancreatic β-Cells Through PKC-Independent Activation of KATP Channels. *BMC Pharmacol.* 2001; 1:3 (12pp).

35. **Jie Wu***, Sam P. Javedan, Kevin Ellsworth, Kris Smith, and Robert S. Fisher, □ oscillation underlies hyperthermia-induced epileptiform-like spikes in immature rat hippocampal slices. *BMC Neurosci.* 2001; 2:18 (7pp).

36. Sam P. Javedan, Robert S. Fisher, Hans G. Eder, Kris Smith, and **Jie Wu*,** Cooling abolished neuronal network synchronization in rat hippocampal slices. *Epilepsia* 2002; 43(6):574-580.

37. **Jie Wu***, Piu Chan, Katherire M. Schroeder, Kevin Ellsworth and L. Donald L. Partridge, 1-methyl-4-phenylpridinium (MPP^+)-induced functional run-down of $GABA_A$ receptor-mediated currents in acutely dissociated dopaminergic neurons. *J. Neurochem.* 2002; 83(1):87-99.

38. K.M. Schroder, **Jie Wu**, L.Zhao & R.J. Lukas*, Regulation by cycloheximide and temperature of cell-surface expression of □7-nicotinic acetylcholine receptors in transfected cells. *J. Neurochem.* 2003; 85:581-591.

39. T. Dunckley, **J. Wu**, L. Zhao, and R.J. Lukas*, Mutational analysis of the effects of disulfide bond formation on the assembly and function of the α7 nicotinic acetylcholine receptor. *Biochem.* 2003; 42:870-876.

40. Lingke Zhao, Yen-Ping Kuo, Andrew A. George, Jian-Hong Peng, Madhuri Singh Purandare, Katherine M. Schroeder, Ronald J. Lukas and **Jie Wu***, Functional properties of homomeric, human α7-nicotinic acetylcholine receptors heterologously expressed in the SH-EP1 human epithelial cell line. *J. Pharmacol. Exp. Ther.* 2003; 305:1132-1141.

41. **J. Wu***, T. Takeo, M. Wakui, K. Ellsworth & R.S. Fisher, Intracellular energy failure does not underlie hyperthermic spreading depressions in immature rat hippocampal slice. *Brain Res.* 2003; 987:240-243.

42. Nakada M, Niska JA, Miyamori H, McDonough WS, **Wu J**, Sato H, Berens ME*****, The phosphorylation of EphB2 receptor regulates migration and invasion of human glioma cells. *Cancer Res.* 2004; 64:3179-3185.

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