

2/14/2010

CURRICULUM VITAE

NAME: Chu Chen

BUSINESS ADDRESS: Neuroscience Center, Louisiana State University Health Sciences Center, 2020 Gravier Street, Suite D, New Orleans, LA 70112

BUSINESS PHONE: (504)568-8458 (office), (504)599-0918 (lab)

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CITIZENSHIP: USA

EDUCATION:

9/1979 - 7/1983 Department of Biology, Nanjing University, Nanjing, P.R. CHINA
B.S. degree in Biology

9/1983 - 7/1986 Department of Physiology, Zhejiang University School of Medicine, Hangzhou, P.R. CHINA, M.S. degree in Physiology

8/1989 - 12/1993 Department of Physiology, Tulane University, New Orleans, LA,
Ph.D. degree in Physiology

1/1994 - 7/1995 Department of Otorhinolaryngology, Louisiana State University Medical Center at New Orleans. Post-doctoral fellow

ACADEMIC, PROFESSIONAL, AND RESEARCH APPOINTMENTS:

7/2008- present Tenured Associate Professor, Neuroscience Center and Department of Otorhinolaryngology, LSU Health Sciences Center at New Orleans

2/2002- 6/2008 Tenure track Assistant Professor, Neuroscience Center and Department of Otorhinolaryngology, LSU Health Sciences Center at New Orleans

4/1998-1/2002 Research Assistant Professor, Department of Otorhinolaryngology and Neuroscience Center, Louisiana State University Health Sciences Center at New Orleans

5/1998-present Faculty member of Graduate School, LSU Health Sciences Center

7/1996-1/2002 Research Assistant Professor, Department of Otorhinolaryngology,

Louisiana State University Health Sciences Center at New Orleans

- 8/1995 - 6/1996** Research Instructor, Department of Otorhinolaryngology, Louisiana State University Medical Center at New Orleans
- 8/1988 - 7/1989** Lecturer, Department of Physiology, Zhejiang University School of Medicine, Hangzhou, P.R. CHINA
- 8/1986 - 7/1988** Instructor, Department of Physiology, Zhejiang University School of Medicine, Hangzhou, P. R. CHINA

MEMBERSHIPS:

- Membership of American Physiological Society
- Membership of the Society for Neuroscience
- Membership of American Society for Neurochemistry
- Membership of the American Association for the Advancement of Science

HONORS, AWARDS AND FELLOWSHIPS:

- The travel award for the most outstanding presentation at the 11th Annual Neuroscience Center Retreat in Feb. 1999; LSU Medical Center in New Orleans
- The travel award for the most outstanding presentation at the 7th Annual Neuroscience Center Retreat in Feb. 1995; LSU Medical Center in New Orleans
- The 1993 Excellence in Renal Research Award, the American Physiological Society
- The travel award from Tulane University Graduate School in 1993
- The 1992 Morris F. Shaffer and Margaret H.D. Smith-Shaffer Award for Excellence in Research, Tulane University
- Sigma XI travel award 1992; Tulane University Chapter
- The Adamao-Haarstad Award for the Most Outstanding Presentation at the First GNOSN Annual Research Forum in Nov. 1992; the Society for Neuroscience Greater New Orleans Chapter
- The travel award from Tulane University Graduate School in 1991
- Recipient of the Chancellor's Fellowship (1989 - 1993); Tulane University Medical Center

TEACHING EXPERIENCE:

- 2002-present** Lecture: Investigative Neuroscience 203 to PhD graduate program students
- 2002-present** Lecture: Molecular Neurobiology 250 to PhD graduate program students
- 2006-present** Lecture: Interdisciplinary Biological system 132 to Interdisciplinary PhD graduate program students
- 2006-present** Special topics: Current neuroscience research to Neuroscience graduate students, Course director
- 2004-2005** Lecture: To summer undergraduate students
- 1991 - 1993** Laboratory Demonstration and Assistance for Medical Physiology to Medical Students, Department of Physiology, Tulane University School of Medicine
- 1988 - 1989** Lectures and Laboratory Instruction for Cardiac Physiology to Graduate students, Department of Physiology, Zhejiang University School of Medicine
- 1986 - 1989** Lectures in Medical Physiology to Medical Students, Department of Physiology, Zhejiang University School of Medicine
- 1983 - 1989** Laboratory Instruction for Medical Physiology to Medical Students, Department of Physiology, Zhejiang University School of Medicine

GRADUATE STUDENT AND POST-DOC TRAINING:

- 3/2002-1/2003 Elena Werby, Ph.D., post-doc fellow
- 1/2003-6/2004 Peimin Zhu, MD, Ph.D., post-doc fellow
- 2/2003-8/2005 Xiong Zhang, MD, post-doc fellow
- 7/2004-8/2006 Nan Sang, PhD, post-doc fellow
- 1/2006-10/2008 Hongwei Yang, MD, PhD, post-doc fellow
- 9/2007-9/2009 Jian-Yi Xu, MD, PhD, post-doc fellow
- 7/2008-3/2009 Hao Sun, PhD, post-doc fellow
- 3/2009-12/2009 Huizhi Du, PhD, post-doc fellow
- 8/2009-present Rong-qing Chen, MD, post-doc fellow
-
- 1/2001-5/2003 Ali Genc, MD, MS. Graduate student in Neuroscience program
- 5/2006-8/2009 Ni Fan, MD, PhD, Graduate student in Neuroscience PhD program
-
- Graduate student lab rotation:
- Ali Genc, graduate student in the Neuroscience MS program
- Daniel Navar, graduate student in Neuroscience PhD program
- Michelle Steinhardt, graduate student in Neuroscience PhD program
- Ni Fan, graduate student in Neuroscience PhD program

Mentoring students in Summer Undergraduate Neuroscience Program:
Ryan Date

LSUHSC Summer Science Program for Minority:
Van Vu

THESIS & DISSERTATION COMMITTEES:

Member of Dr. C. Leblanc's PhD dissertation committee, 2000
Member of Dr. Peimin Zhu's PhD dissertation committee, 2002
Chairman of Dr. Ali Genc's MS thesis committee, 2003
Member of Ms. Jessica Waguespack's PhD dissertation committee, 2006
Member of Dr. Fang Liu's MS thesis committee, 2006
Member of Mr. Selvakumar Selandipalayam's PhD dissertation committee, 2009
Chairman of Dr. Ni Fan's PhD dissertation committee, 2009
Member of Feng-Ju Weng's PhD dissertation committee, Cell and Molecular
Biology program, Tulane University, 2008
Member of Ms. Sukhjeevan Grewal's PhD dissertation committee, 2008
Member of Mr. Abhilash Ponnath's PhD dissertation committee, 2009

JUNIOR FACULTY MENTORING:

Laura Schrader, PhD, Assistant Professor, Department of Cell and Molecular
Biology, Tulane University

Gary LeFleur, PhD, Assistant Professor, Department of Biology, Nicholls State
University

ACTIVE RESEARCH SUPPORT:

Source: NIH-NCRR NCRR P20RR16816 (2/1/2007-1/31/2012)
Title: Mentoring Neuroscience in Louisiana, Program Director: Dr. Nicholas, G. Bazan
Role on Grant: Mentor and co-director of two-photon imaging core facility

Source: NIH-NINDS R01NS054886-03S1 (9/25/2009-3/31/2010)
Title: Endocannabinoids in COX-2 mediated synaptic modification and neurotoxicity.
Role on Grant: PI.

Source: NIH-NINDS R01NS054886 (6/1/2007-3/31/2011)
Title: Endocannabinoids in COX-2 mediated synaptic modification and neurotoxicity.
Role on Grant: PI.

Source: NIH-NIDA 1R03DA025971-01 (9/15/2008-8/31/2010)
Title: Astroglial cells in marijuana-altered synaptic plasticity

Role on Grant: PI.

PENDING RESEARCH SUPPORT:

Source: NIH-NIDA (12/01/2010-11/30/2015)
Title: COX-2 signaling in 9 Δ -THC-induced synaptic deficits
Role on Grant: PI.

Source: NIH-NIA (12/01/2010-11/30/2012)
Title: CB1 receptor in development of Alzheimer's disease
Role on Grant: PI.

Source: Alzheimer's Association (7/01/2010-6/30/2013)
Title: Endocannabinoid 2-AG in Alzheimer's disease.
Role on Grant: PI.

PAST RESEARCH SUPPORT:

Source: Alzheimer's Association - IIRG-05-13580 (10/01/2005-9/30/2009)
Title: COX-2 regulation of endocannabinoid signaling in neurodegeneration.
Role on Grant: PI.

Source: National Institute of Health NCRP P20RR16816 (2/1/2002-1/31/2007)
Title: Mentoring Neuroscience in Louisiana, Program Director: Dr. Nicholas, G. Bazan
Role on Grant: PI: Project 4, Cyclooxygenases in neuronal synaptic plasticity

Source: National Science Foundation (4/1/1999-3/31/02)
Title: Functional characterization of three P2X₂ receptor splice variants
Role on Grant: Co-PI. PI: Richard Bobbin, Ph.D.

Source: Deafness Research Foundation (1/1/1996-12/31/1997)
Title: Nitric oxide modulation of glutamate receptor channel in spiral ganglion cells
Role on Grant: PI.

Source: Deafness Research Foundation (1/1/1999-12/31/1999)
Title: Expression of guinea pig P2X₂ ATP receptor variants in HEK 293 cells
Role on Grant: Co-PI. PI: Margaret Parker Ph.D.

Source: National Organization for Hearing Research (1/1/1999-12/31/1999)
Title: Release of ATP from single cells in the organ of Corti
Role on Grant: Co-PI. PI: Richard Bobbin, Ph.D.

GRANTS PARTICIPATED:

Source: National Institute of Health (4/01/1994- 3/31/1999)
Title: Pharmacology of outer hair cells

Role on Grant: Post-doc fellow and research assistant professor. PI: Richard Bobbin, Ph.D.

Source: National Institute of Health (4/01/2001- 3/31/2006)

Title: Signaling by phospholipids and arachidonic acid in epilepsy

Role on Grant: Collaborator. PI: Nicholas, G. Bazan, M.D., Ph.D.

Source: National Science Foundation (4/1/2001- 3/31/2004) LA EPSCoR, NSF

Title: Micro/Nano Technologies: Neural Signaling Research

Role on Grant: Collaborator. PI: Nicholas, G. Bazan, M.D., Ph.D.

Source: Defense Advanced Research Programs Agency (DARPA) (11/1/2001- 8/31/2003)

Title: Identification of Synaptic Signaling Events and Behavioral Correlates in Sleep Deprivations: Development of Novel Pharmacologic Agents

Role on Grant: Collaborator. PI: Nicholas, G. Bazan, M.D., Ph.D.

RESEARCH GRANT REVIEW:

Alzheimer's Association grants (2004-present)

National Science Foundation Grants (2006)

Irish Health Research Board grants (2005-2006)

Indiana University Alzheimer's Disease Research Grants (2008-2009)

INVITED PRESENTATIONS:

Tulane University School of Medicine, May 1993

Tulane University School of Medicine, Department of Physiology, June 1993

University of Washington at Seattle, Department of Physiology and Biophysics; June 1993.

Texas Tech University at Lubbock, Department of Physiology; July, 1993

Emory University School of Medicine, Department of Anatomy and Cell Biology; October, 1994

Indiana University School of Medicine, Department of Physiology, December, 1994

Medical University of South Carolina, Department of Pathology and Laboratory Medicine; May, 1998

Louisiana State University, College of Basic Science, Department of Biological Science, April, 1999

Tulane University School of Medicine, Department of Physiology, September, 2002

Tulane University, Department of Cellular and Molecular Biology, September, 2006

Louisville University School of Medicine, Department of Anatomical Sciences and Neurobiology, November, 2006

Tulane University, Department of Cellular and Molecular Biology, February, 2007

Ohio State University Biomedical School, Department of Pharmacology, May, 2008

Albany Medical College, Center for Neuroscience and Neuropharmacology, September, 2008

Tulane University, Department of Physiology, November, 2008

University of North Texas, Department of Pharmacology and Neuroscience, February, 2009

EDITORIAL ACTIVITY AND JOURNAL REVIEW:

Journal of Neurophysiology, Journal of Neuroscience, Neuropharmacology, Journal of Physiology (Lond), Molecular Neurobiology, Journal of Neuroscience Research, Journal of Neurochemistry, Neuroscience, Journal of Biochemistry, Medical Science Monitor (International Reviewers Panel), Methods and Findings in Experimental and Clinical Pharmacology, Gene Regulation and Systems Biology, Journal of Psychiatric Research, European Journal of Neuroscience, Psychopharmacology, Journal SLEEP, Drug Design, Development and Therapy, Experimental Neurology, American Journal of Physiology, Cellular and Molecular Life Science, Toxicological Sciences, Nature Chemical Biology

INSTITUTIONAL PROFESSIONAL SERVICES:

Served as a judge for the Graduate School Research Day, 2002; 2003, 2005, 2009

Served as a judge for the Travel award committee of Neuroscience Retreat (2003-present)

Member of Neuroscience Graduate Program Advisory Committee

Coordinator of Neuroscience Center Seminar

AD HOC Departmental Promotions Committee, LSU School of Medicine

BOOK CHAPTERS:

1. Bobbin, R.P., Barnes, A.P., **Chen, C.**, Deininger, P.L., LeBlanc, C.S. and Parker, M.S. (2000) Transmitters in the cochlea: ATP as a neuromodulator in the organ of Corti. In C. I. Berlin and B.J.B. Keats (Ed.), *Genetics and Hearing Loss*, Singular Publ., San Diego, CA. pp:87-110.
2. Bobbin, R.P., **Chen, C.**, Nenov, A.P. and Skellett, R.A. (1998) Transmitters in the Cochlea: The quadratic distortion product and its time varying response may reflect the function of ATP in the cochlea. In C. I. Berlin (Ed.), *Otoacoustic Emissions*, Singular Publ., San Diego, CA. pp:61-84.

PUBLICATIONS IN PEER REVIEWED JOURNALS:

1. Xu J, Zhang J & **Chen C.** (2010) Endocannabinoids differentially modulate long-term depression in rat hippocampal CA1 pyramidal neurons. (Submitted)
2. Sang N, Zhang J & **Chen C** (2010) Anandamide potentiation of miniature spontaneous excitatory synaptic transmission is mediated via IP3 pathway. *Neurochemistry International* (In press)
3. Fan N, Yang H, Zhang J & **Chen C.** (2010) Reduced expression of glutamate receptors and phosphorylation of CREB are responsible for Δ^9 -THC-impaired hippocampal synaptic plasticity. *Journal of Neurochemistry* 112:691-702.
4. Zhang X, Zhang J & **Chen C.** (2009) Long-term potentiation at hippocampal perforant path-dentate astrocyte synapses. *Biochemical and Biophysical Research Communication* 383:326-330.
5. Yang H, Zhang J, Breyer RM & **Chen C.** (2009) Altered hippocampal long-term synaptic plasticity in mice deficient in the PGE2 EP2 receptor. *Journal of Neurochemistry* 108:295-304.
6. Grewal S, Defamie N, Zhang X, Gois SD, Shawki A, Mackenzie B, **Chen C**, Varoqui H & Erickson JD. (2009) SNAT2 amino-acid transporter is regulated by osmolytes of the SLC6 GABA transporter subfamily and may play no role in delivering glutamine for spontaneous glutamatergic transmission. *Journal of Biological Chemistry* 284:11224-11236.
7. Zhang J & **Chen C.** (2008) Endocannabinoid 2-arachidonoylglycerol protects neurons by limiting COX-2 elevation. *Journal of Biological Chemistry* 283: 22601–22611.
8. Yang H & **Chen C.** (2008) COX-2 in synaptic signaling. *Current Pharmaceutical Design* 14: 1443-1451. (Invited and peer reviewed review article)
9. Yang H, Zhang J, Andreasson K & **Chen C.** (2008) COX-2 Oxidative metabolism of endocannabinoids augments hippocampal synaptic plasticity. *Molecular and Cellular Neuroscience* 37: 682-695.

10. Sang N, Zhang J & **Chen C** (2007) COX-2 oxidative metabolite of endocannabinoid 2-AG enhances excitatory glutamatergic synaptic transmission and induces neurotoxicity. *Journal of Neurochemistry* 102: 1966- 1977.
11. Cui J, Zhang X, Zhao Y, **Chen C** & Bazan N. (2006) Allodynia and hyperalgesia suppression by a novel analgesic in experimental neuropathic pain. *Biochemical and Biophysical Research Communication* 350: 358-363.
12. Sang N & **Chen C.** (2006) Lipid signaling and synaptic plasticity. *Neuroscientist* 12: 425-434. (Invited and peer reviewed review article)
13. Sang N, Zhang J & **Chen C.** (2006) PGE2 glycerol ester, a COX-2 oxidative metabolite of 2-arachidonoyl glycerol, modulates inhibitory synaptic transmission in mouse hippocampal neurons. *Journal of Physiology* (Lond) 572: 735-745.
14. **Chen C**, Hardy M, Zhang J, LaHoste GJ & Bazan NG. (2006) Altered NMDA receptor trafficking contributes to sleep deprivation-induced hippocampal synaptic and cognitive impairments. *Biochemical and Biophysical Research Communication* 340: 435-440.
15. **Chen C.** (2005) β -Amyloid increases dendritic Ca^{2+} influx by inhibiting the A-type K^+ current in hippocampal CA1 pyramidal neurons. *Biochemical and Biophysical Research Communication* 338: 1913-1919.
16. Sang N, Zhang J, Marcheselli V, Bazan NG & **Chen C.** (2005) Postsynaptically synthesized PGE2 modulates hippocampal synaptic transmission via a presynaptic PGE2 EP2 receptor. *Journal of Neuroscience* 25: 9858-9870.
17. **Chen C** & Bazan, NG. (2005) Lipid Signaling: Sleep, Synaptic Plasticity, and Neuroprotection. *Journal of Prostaglandins & Lipid Mediators* 77: 65-76. (Invited and peer reviewed review article)
18. Gois SD, Schafer MK-H, Defamie N, **Chen C**, Ricci A, Weihe E, Varoqui H & Erickson JD. (2005) Homeostatic scaling of vesicular glutamate and GABA transporters expression in rat neocortical circuits. *Journal of Neuroscience* 25: 7121-7133.
19. **Chen C** & Bazan NG. (2005) Endogenous PGE2 regulates membrane excitability and synaptic transmission in rat hippocampal CA1 pyramidal neurons. *Journal of Neurophysiology* 93: 929-941.
20. Zhu P, Genc A, Zhang X, Zhang J, Bazan NG & **Chen, C.** (2005) Heterogeneous expression and regulation of PGE2 receptors in the hippocampus. *Journal of Neuroscience Research* 81: 817-826.
21. **Chen C.** (2004) ZD7288 inhibits postsynaptic glutamate receptor-mediated responses at hippocampal perforant path-granule cells synapses. *European Journal of Neuroscience* 19: 643-649.

- 22 McDermott CM, LaHoste GL, **Chen C**, Musto A, Bazan NG & Magee JC. (2003) Sleep deprivation causes behavioral, synaptic and membrane excitability alterations in hippocampal neurons. *Journal of Neuroscience* 23: 9687-9695.
- 23 **Chen C** & Bazan NG. (2003) Acetaminophen modifies hippocampal synaptic plasticity via a presynaptic 5-HT₂ receptor. *NeuroReport* 14: 743-747.
- 24 **Chen C**, Magee JC & Bazan NG. (2002) Cyclooxygenase-2 regulates prostaglandin E₂ signaling in hippocampal long-term synaptic plasticity. *Journal of Neurophysiology* 87: 2851-2857.
- 25 Rodriguez de Turco EBR, Tang W, Topham MK, Sakane F, Marcheselli VL, **Chen C**, Taketomi A, Prescott S & Bazan NG. (2001) Diacylglycerol kinase epsilon regulates seizure susceptibility and long-term potentiation through arachidonoyl-inositol lipid signaling. *Proceedings of National Academy of Science USA* 98: 4740-4745.
- 26 **Chen C**, Magee JC, Marcheselli V, Hardy M & Bazan NG. (2001) Attenuated long-term potentiation in hippocampal dentate gyrus neurons of mice deficient in the PAF receptor. *Journal of Neurophysiology* 85: 384-390.
- 27 **Chen C**, Barnes AP, Parker MS, Deininger PL & Bobbin RP. (2000) Functional expression of three P2X₂ receptor splice variants from guinea pig cochlea. *Journal of Neurophysiology* 83: 1502-1509.
- 28 **Chen C** & Bazan NG. (1999) Platelet-activating factor inhibits ionotropic GABA receptor activity in cultured hippocampal neurons. *NeuroReport* 10: 1-5.
- 29 Ruel J*, **Chen C***, Pujol R, Bobbin R & Puel JL. (1999) AMPA-preferring glutamate receptors in cochlear physiology of adult guinea pig. *Journal of Physiology (Lond)* 518: 667-680.
*J. Ruel and C. Chen contributed equally to this work
- 30 **Chen C** & Bobbin RP. (1998) P2X receptors in cochlear Deiters' cells. *British Journal of Pharmacology* 124: 337-344.
- 31 Nenov AP, **Chen C** & Bobbin RP. (1998). Outward rectifying potassium currents are the dominant voltage activated currents present in Deiters' cells. *Hearing Research* 123, 168-182.
- 32 **Chen C**, Skellett RA, Fallon M, & Bobbin RP. (1997). Additional pharmacological evidence that endogenous ATP modulates cochlear mechanics. *Hearing Research* 118: 47-61.
- 33 Skellett RA, **Chen C**, Fallon M, Nenov AP & Bobbin RP. (1997). Pharmacological evidence that endogenous ATP modulates cochlear mechanics. *Hearing Research* 111:42-54.
- 34 **Chen C**. (1997). Hyperpolarization-activated current (I_h) in primary auditory neurons. *Hearing Research* 110: 179-190.

- 35 **Chen C**, Leblanc C & Bobbin RP. (1997). Differences in the distribution of responses to ATP and acetylcholine between outer hair cells of rat and guinea pig. *Hearing Research* 110: 87-94.
- 36 **Chen C**, Leblanc C & Bobbin RP. (1996). Pharmacological differences in the cholinergic receptor on outer hair cells of rat and guinea pig. *Hearing Research* 98: 9-17.
- 37 **Chen C**, Nenov AP & Bobbin RP. (1995). Noise exposure alters the response of outer hair cells to ATP. *Hearing Research* 88: 215-221.
- 38 **Chen C**, Nenov AP, Skellett R, Fallon M, Bright L, Norris CH & Bobbin RP. (1995). Nitroprusside suppresses cochlear potentials and outer hair cell responses. *Hearing Research* 87: 1-8.
- 39 **Chen C**, Nenov AP, Norris CH & Bobbin RP. (1995). ATP modulation of L-type Ca²⁺ channel currents in guinea pig outer hair cells. *Hearing Research* 86:25-33.
- 40 **Chen C** & Schofield GG. (1995). NO donors enhanced calcium currents and blocked noradrenaline-induced calcium current inhibition in rat sympathetic neurons. *Journal of Physiology* (Lond) 482:521-531.
- 41 **Chen C** & Schofield GG. (1993). Nitric oxide modulates calcium channel currents in rat sympathetic neurons. *European Journal of Pharmacology* 243: 83-86.
- 42 **Chen C** & Schofield GG. (1993). Differential neuromodulation of calcium currents by norepinephrine in sympathetic neurons. *Journal of Neurophysiology* 70: 1440-1450.
- 43 **Chen C** & Schofield GG. (1992). Ca²⁺ currents of fast blue labeled superior cervical ganglion neurons. *Journal of Neuroscience Methods* 45: 63-69.
- 44 **Chen C**, Mitchell KD & Navar LG. (1992). Role of endothelium-derived nitric oxide (EDNO) in the renal hemodynamic response to amino acid infusion. *American Journal of Physiology* 263: R510-R516.
- 45 **Chen C**, Hu HC, Chen GX & Hsu HC. (1991). Effects of cimetidine on transmembrane potential in normal and hypoxic papillary muscle cells of guinea pig heart. *Journal of Zhejiang Medical University* 20(3):104-106.
- 46 Hu HC, **Chen C**, Chen GX & Hsu HC. (1989). Measurement of characteristic parameters of ECG and computerized diagnosis of malignant arrhythmia. *Journal of Zhejiang Medical University* 19: 101-104.
- 47 **Chen C**. (1989). The progress in measurements of intracellular free calcium activity in myocardium. *Chinese Journal of Pathophysiology* 5(2): 244-246.

- 48 **Chen C**, Hu HC, Chen GX & Hsu HC. (1989). Histamine induced delayed afterdepolarization and triggered activity of guinea pig papillary muscle. *Journal of Zhejiang Medical University* 18(6): 241-243.
- 49 **Chen C**. (1989). Electrophysiological properties of pancreatic beta-cells. *Progress in Physiological Science* 20: 268-270.
- 50 **Chen C**, Chen GX & Hsu HC. (1989). Effect of calcium concentration on the ventricular fibrillation threshold and its relation to the levels of cAMP, cGMP and ATP in rat ischemic heart. *Chinese Journal of Pathophysiology* 5: 134-138.
- 51 **Chen C**. (1989). Histamine and Cardiac arrhythmia. *Journal of Zhejiang Medical University* 19(1): 37-42.
- 52 **Chen C**. (1988). The role of oxygen free radicals in myocardial injury. *Journal of Zhejiang Medical University* 17(1): 37-40.
- 53 **Chen C**, Chen GX & Hsu HC. (1987). Effect of magnesium on ventricular vulnerability to fibrillation in normal and regional ischemic isolated rat heart. *Journal of Electrocardiology* 6: 54-57.
- 54 **Chen C**. (1987). Calcium and ventricular fibrillation. *Journal of Zhejiang Medical University* 16(5): 229-232.
- 55 **Chen C**, Chen GX & Hsu HC. (1986). Effects of phentolamine, propranolol, verapamil and low extracellular calcium on reperfusion-induced ventricular fibrillation in the isolated guinea pig heart. *Journal of Electrocardiology* 5: 246-249.
- 56 Wu S, **Chen C**, Chen GX & Hsu HC. (1985). Effect of glucose on the threshold of ventricular fibrillation induced by altered calcium concentration in rat. *Journal of Zhejiang Medical University* 14: 257-260.
- 57 Chen J, Wang JJ, **Chen C** & Wang M. (1985). An electrophysiological observation of the fiber connections between paraventricular nucleus of the hypothalamus and solitary tract nucleus and between paraventricular nucleus and periaqueductal gray. *Science Bulletin* (China) 30: 955-959.

SCIENTIFIC PRESENTATION & ABSTRACTS:

1. **Chen, C.**, Chen, G.X. and Hsu, H.C. (1987). Effect of calcium concentration on the ventricular fibrillation threshold and its relation to the levels of cAMP, cGMP and ATP in rat ischemic heart. *J. Mol. Cell. Cardiol.* 19 (suppl iv):s69.

2. **Chen, C.**, Hu, H.C., Chen, G.X. and Hsu, H.C. (1989). Electrophysiological actions of cimetidine on delayed after-depolarization and triggered activity induced by histamine in papillary muscle of guinea pig heart. Chines Physiol. Soci. News Communi. (Suppl):168.
3. Hu, H.C., **Chen, C.**, Jin, C.X., Chen, G.X. and Hsu, H.C. (1989). Differences of ventricular fibrillation threshold in pacing and sinus rhythmic hearts determined by automatic measuring system of VFT. J. Mol. Cell. Cardiol. 21(suppl II):s26.
4. **Chen, C.**, Mitchell, K.D. and Navar, L.G. (1991). Role of endothelium-derived nitric oxide (EDNO) in the renal hemodynamic response to amino acid infusion. FASEB J. 5:A397.
5. **Chen, C.** and Schofield, G.G. (1992). Ca^{2+} currents of fast blue labeled superior cervical ganglion neurons. FASEB J. 6:A248 and Biophysical J. 61:A248.
6. **Chen, C.** and Schofield, G.G. (1992). Heterogeneity of calcium channels of different rat sympathetic neurons. Society for Neurosci. Abstr. 18:430.
7. **Chen, C.** and Schofield, G.G. (1993). Calcium currents of renal efferent sympathetic neurons from spontaneously hypertensive rats. FASEB J. 7:A186.
8. **Chen, C.** and Schofield, G.G. (1993). Nitric oxide modulates calcium currents of superior cervical ganglion neurons. Society for Neurosci. Abstr. 19:1129.
9. **Chen, C.** and Schofield, G.G. (1994). Neuromodulation of calcium currents is altered in superior cervical ganglion neurons of spontaneously hypertensive rat. Biophysical J. 66:A432.
10. **Chen, C.**, Nenov, A.P., Norris, C.H., Kujawa, S.G. and Bobbin, R.P. (1994). Nitric oxide may be involved in the cochlear amplifier. XXXIst Workshop on Inner Ear Biology, Montpellier, France. Abstract:47.
11. **Chen, C.**, Norris, C.H. and Bobbin, R.P. (1995). Acetylcholine inhibits L-type calcium channel currents in outer hair cells via a nicotinic-like receptor. 18th ARO Abstr. 642.
12. **Chen, C.**, Leblanc, C. and Bobbin, R.P. (1995). Pharmacological differences in the cholinergic receptor on outer hair cells of rat and guinea pig. Society for Neurosci. Abstr. 21:2138.
13. **Chen, C.**, Leblanc, C. and Bobbin, R.P. (1996). ATP does not generate a current response in outer hair cells of rat cochlea. 19th ARO Abstr.
14. **Chen, C.** (1996). Hyperpolarization-activated current in guinea pig spiral ganglion cells. Society for Neurosci. Abstr. 22: 423

15. Athas, G.B., **Chen, C.**, Bobbin, R.P. and Garcia, M.M. (1997). Nicotinic acetylcholine receptor subunits in outer hair cells of the guinea pig cochlea demonstrated by expression profiling. 20th ARO Abstr: 57.
16. Nenov, A. P., **Chen, C.**, Norris, C.H. and Bobbin, R.P. (1997) Voltage dependent currents in deiters' cells from guinea pig cochlea. 20th ARO Abstr
17. **Chen, C.** and Bobbin, R.P. (1997) Acetylcholine potentiation of glutamate-induced response in guinea pig spiral ganglion cells. 20th ARO Abstr: 600.
18. Bobbin, R.P., **Chen, C.**, Skellett, R.A. and Fallon, M. (1997). The ATP antagonist, suramin, prevents the time related decrease of the quadratic (f2-f1) otoacoustic distortion product. 20th ARO Abstr: 54.
19. **Chen, C.** and Bobbin, R.P. (1997) Differences in effects of purinergic antagonists on P2X receptor in the cochlea. Society for Neurosci. Abstr: 23:1782.
20. **Chen, C.** and Bobbin, R.P. (1998) Glutamatergic receptors in spiral ganglion neurons are predominantly AMPA-preferring. 21th ARO Abstr:88
21. Bobbin, R.P., **Chen, C.**, Skellett, R. and Fallon, M. (1998) Pharmacological evidence that ATP modulates cochlear mechanics. 21th ARO Abstr:246.
22. **Chen, C.**, DeCoster, M., Magee, J., Bobbin, R.P. and Bazan, N.G. (1998) Platelet-activating factor modulates γ -aminobutyric acid (GABA_A) receptor responses in cultured hippocampal neurons. Sixth International Congress on platelet-activating factor and related lipid mediators. New Orleans, USA.
23. **Chen C.**, Barnes, A.P., Parker, M.S., Deininger, P.L. and Bobbin, R.P. (1999) Functional expression of guinea pig cochlear P2X2 ATP receptor variants in HEK 293 cells. 22th ARO Abstr:
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