Xin Qi, PhD Curriculum Vitae

Department of Physiology and Biophysics	Office: 216-368-4459
Case Western Reserve University School of Medicine	Lab: 216-368-0886
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Cleveland, OH 44106-4970	

EDUCATION:	
2002-2005 Ph.D.	Department of Pharmacology, Graduate
	School of Pharmaceutical Sciences,
	Hokkaido University, Japan
	(Mentor: Yasuyuki Nomura, PhD)
1999-2002 M.S.	Department of Pharmacology, Shenyang Pharmaceutical University, China
1995-1999 B.S. with honors	Department of Pharmacy, Shenyang Pharmaceutical University, China

RESEARCH/WORKING EXPERIENCE:

Tenure-Track Assistant Professor March 1, 2011-Present Department of Physiology and Biophysics, Center for Mitochondrial Diseases, Case Western Reserve University School of Medical Science

Research Associate April 2010-Feb 2011

Department of Chemical and Systems Biology, Stanford University School of Medicine

Postdoctoral Fellow April 2005-April 2010

Department of Chemical and Systems Biology, Stanford University School of Medicine (Mentors: Daria Mochly-Rosen Ph.D.)

TEACHING EXPERIENCE:

ology Lec	ture Teaching Assistant
aduate Sc	hool of Pharmaceutical Science, Hokkaido University of Japan
armacolog	gy Lecture Teaching Assistant
aduate Sc	hool of Pharmaceutical Science, Hokkaido University of Japan
ch 2005	
search As	sistant for 21st century, the Center of Excellence Programs of Japan
r 2006,	Supervisor of graduate student project, Stanford University
2009,	Supervisor of undergraduate student project, Stanford University
, 2010	Supervisor of research assistant project, Stanford University
	aduate Sch armacolog aduate Sch ch 2005 search As 2006, 2009,

AWARDS:

2009Young Investigator Award of The Cardiovascular Institute, Stanford University2003-2005Uehara Memorial Research Foundation Fellowship

2002-2004	Sapporo Zonda Women Fellowship of Japan
1999	Student for Excellence, Liaoning Province, China
1996-1999	Prize for Excellence, Hongkong Federal Group, China

REVIEWER:

Journal of Cell Science, IUBMB life, Acta Phamacologica Sinica

PROFESSIONAL ASSOCIATIONS:

2006-present: Member of American Heart Association 2007-present: Nominated Member of Sigma Xi

PUBLICATIONS:

- <u>Qi X</u>, Disatnik MH, Shen N, Sobel RA, Mochly-Rosen D, Aberrant mitochondrial fission in neurons induced by delta protein kinase C under oxidative stress conditions, *in vivo*. *Mol Biol Cell*. 2011 Jan; 22(2):256-65
- Palaniyandi SS, <u>Qi X</u>, Ferreira JC, Yogalingam G and Mochly-Rosen D, Regulation of mitochondrial processes: a target for heart failure. *Drug Discovery Today: Disease Mechanisms*, 2010; 7:95-102
- <u>Qi X</u>, Inagaki K, Sobel RA and Mochly-Rosen D. Sustained pharmacological inhibition of deltaPKC protects against hypertensive encephalopathy through prevention of blood-brainbarrier breakdown. *J Clin Invest*. 2008 Jan; 118(1):173-82.

--- Commentary: Hypertensive encephalopathy and blood-brain-barrier: is deltaPKC a gatekeeper? J. Clin. Invest. 2008 118: 17-20

--- *Media Report*: New Potential Target In The Treatment Of Fatal Brain Disease Science Daily <u>http://www.sciencedaily.com/releases/2007/12/071220173710.htm</u> *Medical News Today* <u>http://www.medicalnewstoday.com/articles/92566.php</u>

 <u>Qi X</u> and Mochly-Rosen D. Complex of deltaPKC and c-Abl communicates endoplasmic reticulum stress to mitochondria: an essential step for subsequent apoptosis. *J Cell Sci.* 2008 Mar 15; 121(Pt 6):804-13

--- Highlight: deltaPKC/Abl: stressed to death, J Cell Sci 2008 121: e603

- 5. <u>Qi X</u>, Vallentin A, Churchill E and Mochly-Rosen D. DeltaPKC participates in endoplasmic reticulum stress-induced response in cultured cardiac myocytes and ischemic heart. *J Mol Cell Cardiol*. 2007 Oct; 43(4):420-8.
- 6. <u>Qi X</u>, Hosoi T, Okuma Y, Kaneko M and Nomura Y. Sodium 4-phenylbutyrate protects against cerebral ischemic injury. *Mol Pharmacol*. 2004 Oct; 66(4):899-908.
- <u>Qi X</u>, Okuma Y, Hosoi T and Nomura Y. Edaravone protects against hypoxia/ischemiainduced endoplasmic reticulum dysfunction. *J Pharmacol Exp Ther.* 2004 Oct; 311(1):388-93.
- 8. <u>Qi X</u>, Okuma Y, Kaneko M, Hosoi T and Nomura Y. Induction of murine HRD1 in experimental cerebral ischemia. *Brain Res Mol Brain Res.* 2004 Nov 4; 130(1-2):30-8.
- 9. Hosoi T, Okuma Y, Kawagishi T, <u>Qi X</u> and Nomura Y. Bacterial endotoxin induces STAT3 activation in mouse brain. *Brain Res.* 2004 Oct 8; 1023(1):48-53.
- <u>Qi X</u>, Wang MW, Liu XJ, Song ZH and Bi KS. Effects of Lingguizhugan Decoction on acute myocardial ischemia in dogs. *Journal of Shenyang Pharmaceutical University*, 19: 208-213, 2002
- 11. Gong X, Lu X, Zhan L, Sui H, <u>Qi X</u>, Ji Z, Niu X, Liu L. Role of the SNK-SPAR Pathway in the Development of Alzheimer's Disease. *IUBMB Life*. 2010 Mar; 62(3):214-21.

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- Sui H, Lu XG, Zhan LB, Jiang WZ, <u>Oi X</u>, Gong XY, and Niu XP. Decreased expression of spine-associated RapGAP (SPAR) in glutamate treated primary hippocampal neurons. *J Clin Neurosci*, 2010; 17: 1042–1046.
- 13. Shi X, Lu XG, Zhan LB, <u>Qi X</u>, Liang LN, Hu SY, Yun Y, Zhao SY, Sui H, Zhang FL. The effects of the Chinese medicine ZiBU PiYin recipe on the hippocampus in a rat model of diabetes-associated cognitive decline: a proteomic analysis. *Diabetologia*, 2011 April

Invited Presentations

1. Invited speaker, "DeltaPKC regulation of mitochondrial function"

America Heart Association Scientific Sessions, Orlando, FL, USA (2009)

2. Invited speaker, "DeltaPKC Mediates Mitochondrial Fission in Hypertension-Induced Brain Injury"

The 14th Meeting on Protein Phosphorylation and Cell Signaling, Salk Institute, La Jolla, USA (Aug, 2008)

3. Invited speaker, "The Complex of Protein Kinase C delta and c-Abl Communicates Endoplasmic Reticulum Stress to the Mitochondria; an Essential Step in the Subsequent Apoptosis"

2008 Keystone Symposia on Hypoxia, Vancouver, Canada (January, 2008)

4. Invited speaker, "Resistance Against Endoplasmic Reticulum Dysfunction is Involved in Protective Effects of Edaravone on Cerebral Ischemia"

10th Free Radical Conference in Hokkaido, Sapporo, Japan (July 2004)

5. Invited speaker, "Induction of Murine HRD1 in Experimental Cerebral Ischemia" 124th Japanese Pharmaceutical Congress, Sendai, Japan (March 2004)

Conference Abstracts and Poster Presentations

- 1. 2010 Mitochondrial Biology Symposia, NIH, Washington DC (May, 2011)
- 2. 2008 Keystone Symposia on Hypoxia, Vancouver, Canada (January, 2008)
- 2. International Stroke Conference 2007, San Francisco, USA (February, 2007)
- 3. Pharmaceutical Sciences World Congress PSWC, Osaka, Japan (May 2004)
- 4. 5th AFMC International Medicinal Chemistry Symposium AIMECS, Kyoto, Japan (Oct 2003)
- 5. 54th Annual Meeting of Japanese Pharmacological Society, Osaka, Japan (Sep. 2003)
- 6. 46th Annual Meeting of Japanese Neurochemical Society, *Niigata, Japan (July 2003)*

PATENTS:

US 61/486,044	Xin Qi and Daria Mochly-Rosen
	"Inhibitors of Mitochondrial Fission and Methods of Use Thereof"
US 60/899,917	Daria Mochly-Rosen and Xin Qi
	"Methods for Maintaining Blood-Brain-Barrier Integrity in Hypertensive Subjects
	Using a Delta-PKC Inhibitor"

IMMIGRATION STATUS:

Permanent Resident of USA