

MING C. GONG, M.D, Ph.D.
(Curriculum Vitae)

CURRENT POSITION

Associate Professor
Department of Physiology
University of Kentucky Medical Center
Lexington, KY 40536

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E-mail Ming.Gong@uky.edu

EDUCATION

M.D. 1986 Hunan Medical University, China

Ph.D. 1994 Peking Union Medical College, China

PROFESSIONAL POSITIONS

07/1994 to 11/1999 Assistant Professor of Research
Department of Physiology; University of Virginia

12/1999 to 06/2006 Assistant Professor of Physiology
University of Kentucky

07/2006 to present Associate Professor of Physiology
University of Kentucky

HONORS AND AWARDS

Best Graduate of Hunan Medical University (1986, one of the seven awarded from over 400 graduates)

Postdoctoral Fellowship, American Heart Association, Virginia Affiliate (1992 to 1994)

Career Development Award, American Diabetes Association (2004 to 2008)

Wethington Award, University of Kentucky (2003, 2004, 2005, 2006)

Co-Chair of the “smooth muscle” platform session, 48th and 50th American Biophysics Meeting, 02/2004

Co-Chair of the “smooth muscle” platform session, 50th American Biophysics Meeting, 02/2006

PROFESSIONAL ASSOCIATIONS

The American Biophysical Society (1994 to present)
The American Physiological Society (1999 to present)
American Diabetes Association (2004 to present)

GRANT REVIEW

Local

2000 American Heart Association, Ohio Valley Affiliate Undergraduate Student
Summer Research Fellowship
2001 American Heart Association, Ohio Valley Affiliate Undergraduate Student
Summer Research Fellowship
2004 American Heart Association, Ohio Valley Affiliate Research Grant
2005 American Heart Association, Ohio Valley Affiliate Research Grant
2006 American Heart Association, Ohio Valley Affiliate Research Grant

National

2002 American Heart Association, National Center Research Grant (Spring)
American Heart Association, National Center Research Grant (Fall)
2003 American Heart Association, National Center Research Grant (Spring)
2004 American Heart Association, National Center Research Grant (Spring)
NIH RFAHL-04-013 Progression of cardiovascular disease in type1 diabetes
(July 7&8)
2005 American Heart Association, National Center Research Grant (Spring)

FUNDING

Active

01/2002 to 12/2006	RO1 HL67284 (NIH)	PI	30% effort
	Regulation of vascular smooth muscle contraction; Total: \$1,013,950		
01/2004 to 12/2008	Career Development Award (1-04-CD-04) (Am. Diabetes Association)	PI	30% effort
	Vascular smooth muscle hyperreactivity and type II diabetes-associated hypertension; Total: \$920,000		
06/2006 to 05/2011	RO1 HL082791-01 (NIH)	PI	30% effort
	Vascular smooth muscle hyper-contractility and hypertension in type-II- diabetes Total Cost Requested: \$1,647,675		

07/2005 to 06/2009 RO1 NS039774 (NIH) co-PI 5% effort
PI: David Randall, Dept. of Physiology
Sympathetic Function in Diabetes
Total: 1,378,408

03/2006 to 02/2011 RO1 HD052694-01(NIH) Co-PI 5% effort
PI: Dr. Jay (CheMyong) Ko, Ph.D, Dept. of Clinical Sciences
The functional role of endothelin-2 in the ovulation
Total Cost Requested: \$ 1,443,099

Completed

07/2001 to 07/2004 Grant-in-Aid (American Heart Association Ohio-Valley-Affiliate)
Rho kinase and Ca²⁺-sensitization mediated arterial smooth muscle
contraction in hypertension; Total: \$110,000

08/2001 to 07/2002 Pilot Grant (NIH P20RR1559201; COBRE)
The vascular protective effect of estrogen
Total: \$72,500

01/1998 to 12/2002 Scientist Development Grant (Am. Heart Association National Center)
Signal Transduction in Vascular Smooth Muscle: Functional Relationship
Between rho and Arachidonic Acid Pathways; Total: \$ 260, 000

07/1992 to 06/1994 Post-doctoral Fellowship (Am. Heart Association, Virginia Affiliate)
Is free fatty acid the second messenger in agonist induced sensitization in
smooth muscle? Total: \$ 46,000

ORAL PRESENTATIONS

Myosin Light Chain Phosphatase Activities and the Effect of Phosphatase Inhibitors in Tonic and
Phasic Smooth Muscle; "Research Day" talk, Dept. of Pathology, University of Virginia; May
1991

Which G-protein(s) Mediate Ca²⁺ -sensitization in smooth muscle: Monomeric, Trimeric or
both?; "Research Day" talk, Dept. of physiology, University of Virginia; May 1993

Signal Transduction of Agonist Induced Contraction in Smooth Muscle; Defense of
dissertation,

RhoA in Ca²⁺-sensitization of smooth muscle-rho rho-ing to the membrane; Departmental
Seminar, Dept. of Mol. Physiology and Biological Physics, Uni. of Virginia; April, 1997

Signal Transduction in Vascular Smooth Muscle--role of rhoA and Arachidonic Acid;
Departmental Seminar, Cardiovascular Research Laboratory, University of California, Los
Angeles; March 1998

Signal Transduction in Vascular Smooth Muscle--role of rhoA and Arachidonic Acid;
Departmental Seminar, Department of Physiology and Biophysics, University of South Florida;
November, 1998

Signal Transduction in Vascular Smooth Muscle--role of rhoA and Arachidonic Acid;
Department Seminar, Department Physiology, University of Kentucky; January 22, 1999

Signal Transduction in Vascular Smooth Muscle--role of rhoA and Arachidonic Acid;
Department of Physiology, University of Tennessee; February 25, 1999

Signaling Mechanisms in Vascular Smooth Muscle--Implications for Hypertension; Department
of Physiology; University of Kentucky; March 17, 1999

Signaling Mechanisms in Vascular Smooth Muscle—Implications for Hypertension and
Vasospasm; Gill Heart Institute; University of Kentucky; Dec.1, 2000

Regulation of Vascular Smooth Muscle Contraction—under normal and diabetic conditions;
Division of pharmaceutical Sciences, College of Pharmacy, UK; Sep 13, 2002

Regulation of Vascular Smooth Muscle Contraction--under normal and diabetic conditions;
Nutritional Sciences Graduate Program, UK; Jan 29, 2003

Vascular Smooth Muscle Dysfunction Under Type 2 Diabetic Conditions—Endocrinology
Research Dinner, UK, May 20, 2004

Vascular Smooth Muscle Dysfunction in Type 2 Diabetes; Graduate Center For Nutritional
Sciences Seminar, UK, Oct. 6, 2004

Regulation of the Ca^{2+} -sensitivity of smooth muscle contraction; Department of Physiology,
Medical College of Georgia, Augusta, GA; Oct 29, 2001

Important role of rhoA/rho kinase in agonist-induced CPI-17 phosphorylation---platform
presentation in the 48th annual Biophysics meeting, Feb 25, 2004

Regulation of Vascular Smooth Muscle Contraction-under normal of diabetic conditions;
Department of Pathology and Laboratory Medicine, University of Cincinnati; June 23, 2004

Vascular Smooth Muscle Hyperreactivity in Diabetes; Department of Physiology, Thomas
Jefferson University; May 4, 2006

Vascular Smooth Muscle Hyperreactivity in Diabetes; The First International Conference On
Frontiers in Biomedical and Environmental Health Sciences: From Molecular and Systems
Biology to Human Diseases; Wuhan, China; June 29, 2006

Vascular Smooth Muscle Hyperreactivity in Diabetes; Department of Physiology, Peking Union Medical College, Beijing, China; June 30, 2006

Vascular Smooth Muscle Hyperreactivity in Diabetes; Department of Biochemistry, FuWai Hospital, Beijing, China; June 30, 2006

JOURNAL REVIEW

- Journal of Biological Chemistry
- Journal of Physiology
- FEBS lett.
- Journal of Molecular and cellular Cardiology
- Hypertension
- American Journal of Physiology- Heart and Circulation;
- American Journal of Physiology-Cell
- Biochemical Pharmacology
- Cardiovascular Research

TEACHING EXPERIENCE

Courses Directed

2003	PGY 774 Graduate Seminars	28 contact hours
2004	PGY 602, Readings in Systems, Cellular and Molecular Physiology	

Lectures

2001	Spring	PGY 604, Advanced Cardiovascular Physiology	6 lectures
	Spring	PGY 818, Human Function; Sat through the 20 CV lectures	
2002	Spring	PGY 818 (OBI 814), Human Function	2 lectures
	Fall	PGY412G, Human Physiology	3 lectures
2003	Spring	PGY 412G, Human Physiology	4 lectures
	Spring	PGY 818, Human Function	2 lectures
	Fall	PGY412G, Human Physiology	4 lectures
2004	Spring	PGY 412G, Human Physiology	4 Lectures
	Spring	PGY 818, Human Function	2 Lectures
	Fall	PGY 818, Human Function EKG Lab	12 Hours
2004	Fall	PGY 412G, Human Physiology	5 Lectures
	Fall	PGY 502, Systems, Cellular and Molecular Physiology;	2 lectures
	Fall	PGY 602, Readings in Systems, Cellular and Molecular Physiology;	2 lectures

2005	Spring	PGY412G, Human Physiology	4 Lectures
	Spring	PGY604, Advanced Cardiovascular Physiology	6 Lectures
	Spring	PGY818, Human Function	12 Hours
2006	Spring	OBI 814, Human Physiology	4 Lectures
		PGY 818, Human Physiology	12 Lectures
			10 hours EKG lab

Students and Postdoctoral Fellows Supervised

Post-doctoral Fellow and Research Associates

Current

Wen Su	Research Associate	07/2000 to present
Zhongwen Xie	Research Associate	05/2004 to present
Dongping Xie	Visiting Professor	03/2006 to present

Past

Name	Time	Current Position
Z. Guo	12/1999 to 6/2004	Assistant Professor of Research, UK
J. Tian	02/2002 to 07/2002	Postdoctoral Fellow, U. of Virginia
Pang Huan	08/2002 to 08/2005	Postdoctoral Fellow, Mount Sinai
Chia-Hung Yen	03/2004 to 11/2004	Postdoctoral Fellow

Summer Students

Veronica Hurst	KYYY	05/2001 to 08/2001
Stuart Lichtenberg	SOR Summer Student	06/2001 to 08/2001
Shannon Allen	Summer Employment Research	06/2002 to 08/2002
Kathryn J. Fleming	“Bucks for brains”	06/2002 to 08/2002
Andrea Joy Murray	“Bucks for brains”	06/2002 to 08/2002
Kimeleta M. Stevenson	“Bucks for brains”	06/2004 to 08/2004
Derek Savells	Summer Employment Research	06/2004 to 08/2004
Amanda Keeton	Summer Employment research	06/2006 to 08/2006
Jessica Cranfield		06/2006 to 08/2006
Brittany Johnson	“Bucks for brains”	05/2006 to 08/2006

Rotation IBS Students

Zhan Ye	IBS student	08/2004 to 10/2004
Jianing Yang	IBS student	08/2004 to 10/2004
Chunxia Zhao	IBS student	10/2004 to 12/2004
Daniel Anderson	IBS student	01/2006 to 03/2006

Dissertation Committee Member of Ph.D. Students

Zhenze Zhao	Ph.D. Student of Nutritional Sciences, UK, Awarded Ph.D. 2004
Denjar M Nikolic	Ph.D. Student of Pharmacology, UK , Awarded Ph.D. 2005

Kristina Rutkute	Ph.D. Student Physiology, UK
Sara Beth Police	Ph.D. Student of Nutritional Sciences, UK
Emily Lyn Helfrich	Ph.D. Student of Physiology, UK
Allen-klee Leah	Ph.D. Student of Pharmaceutical Sciences, UK
Lei Wang	Ph.D. Student of Nutritional Sciences, UK
Jill Cholewa	Ph.D. Student of Nutritional Sciences, UK

SERVICE

Departmental

Graduate Affairs Committee member (Dept. of Physiology): July 2002 to present
Committee for Organization of Physiology Open house for IBS students: 2002, 2003, 2004
Seminar Series Coordinator: 2003 to 2004 academic year
Physiology New Faculty Search Committee: 2004

College and University

Research and Graduate Education Committee (College of Medicine): August 2002 to September 2005
Committee for reviewing major research equipment grant (College of Medicine) October, 2003
Poster Judge for UK Gill Heart Cardiovascular Research Day 2000, 2001, 2002, 2003, 2004
IBS admission committee 2005 to present
Interviewer for the IBS program admission

National

Co-Chair of the “smooth muscle” platform session in 48th annual Biophysics Meeting, Feb 25, 2004 and 50th annual American Biophysics Meeting, Feb 10, 2006

PEER-REVIEWED MANUSCRIPTS

1. Chen Meng Qin and **Gong Ming Cui** (1986) Dysfunction of calcium regulation and essential hypertension. *Physiological Sciences* 6(5):275-279
2. **Gong Ming Cui**, Chen Meng Qin, and Wen Yun Yi (1990) The Ca²⁺ transport and vascular reactivity in renal hypertensive rats. *Chinese Circulation Research* 5 (5): 382-385
3. **Gong Ming Cui** and Chen Men Qin (1989) The vascular hyperreactivity and Ca²⁺ transport in spontaneously hypertensive rats. *Proceedings of XVIII Chinese Physiological Conference* 206
4. Chen Meng Qin, Wang Zi Nian, **Gong Ming Cui**, Gun Cao Ran, Wang Y He & Luo Tao (1991) The Cardiovascular effect of Ligustrasin *Basic and Clinical Medicine* 11(6): 36-39
(The title of articles and the name of journals above are translated from Chinese)

5. Sei Kobayashi, **Ming Cui Gong**, A.V. Somlyo, and A.P.Somlyo (1990) Ca²⁺ Channel blockers distinguish between G-protein-coupled, Pharmacomechanical Ca²⁺ release and Ca²⁺-Sensitization *American Journal of Physiology (Cell Physiol.)* 260: C364-C370
6. **Ming Cui Gong**, Philip Cohen, Toshio Kitazawa, Mitsuo Ikebe, Masatoshi Masuo, Andrew P. Somlyo, and Avril V. Somlyo (1992) Myosin light chain phosphatase activities and the effects of phosphatase inhibitors in the tonic and phasic smooth muscle *Journal of Biological Chemistry* 267(21): 14662-14668
7. **Ming Cui Gong**, Annette Fulgsang, Dario Alessi, Sei Kobayashi, Philip Cohen, Avril V. Somlyo and Andrew P. Somlyo (1992) Arachidonic acid inhibits myosin light chain phosphatase and sensitizes smooth muscle to calcium *Journal of Biological Chemistry* 267(30): 21492-21498
8. **Ming Cui Gong**, Michael T. Kinter, Avril V. Somlyo and Andrew P. Somlyo (1995) Arachidonic acid and diacylglycerol release associated with inhibition of myosin light Chain dephosphorylation in rabbit smooth muscle. *Journal of Physiology (London)* 486(1): 113-122
9. **Ming Cui Gong**, Kunihiko Iizuka, Graeme Nixon, J. Peter Brown, Alan Hall, John F. Eccleston, Motoyuki Sugai, Sei Kobayashi, Avril V. Somlyo and Andrew P. Somlyo (1996) The role of G-proteins, ras-family, trimeric or both, in Ca²⁺-sensitization of smooth muscle. *Proceedings of the National Academy of Sciences of the USA* 93: 1340-1345
10. Peter E. Jensen, **Ming Cui Gong**, Avril V. Somlyo and Andrew P. Somlyo (1996) Separate upstream and convergent downstream pathways of G-protein- and phorbol ester-mediated Ca²⁺-sensitization of myosin light chain phosphorylation in smooth muscle. *Biochemical Journal* 318: 469-475
11. Philippe Gailly, **Ming Cui Gong**, Avril V. Somlyo and Andrew P. Somlyo (1997) Possible role of atypical protein kinase C activated by arachidonic acid in Ca²⁺-sensitization of rabbit smooth muscle. *Journal of Physiology (London)* 500: 95-109
12. **Ming Cui Gong**, Hideyoshi Fujihara, Avril V. Somlyo and Andrew P. Somlyo (1997) Translocation of p21^{thoA} associated with Ca²⁺-sensitization of smooth muscle. *Journal of Biological Chemistry* 272: 10704-10709
13. **Ming Cui Gong**, Hideyoshi Fujihara, Lori A. Walker, Avril V. Somlyo and Andrew P. Somlyo (1997) Down-regulation of G-protein-mediated Ca²⁺-sensitization in smooth muscle. *Molecular Biology of the Cell* 8: 279-286
14. Hideyoshi Fujihara, Lori A. Walker, **Ming Cui Gong**, Emmanuel Lemichez, Patrice Boquet, Avril V. Somlyo and Andrew P. Somlyo (1997) Inhibition of RhoA translocation and calcium sensitization by in vivo ADP-ribosylation with the chimeric toxin DC3B. *Molecular Biology of the Cell* 8: 2437-2447

15. Xiaohong Fu, **Ming Cui Gong**, Taiping Jia, Avril V. Somlyo and Andrew P. Somlyo (1998) The effect of the Rho-kinase inhibitor Y-27632 on arachidonic acid-, GTP γ S, and phorbol ester-induced Ca²⁺ -sensitization of smooth muscle. *FEBS Letter*: 440: 183-187
16. **Ming Cui Gong**, Paul Read, Isabelle Gorenne, Taiping Jia, Robert k. Nakamoto, Avril V. Somlyo and Andrew P. Somlyo (2001) Regulation by GDI of RhoA/Rho-kinase-induced Ca²⁺-sensitization of smooth muscle myosin II. *American Journal of Physiology (Cell)* 281:C257-C269
17. Wen Su, Zhenheng Guo, Christian Deschepper, David Randall and **Ming C. Gong** (2003) Dissociation of coronary artery contractile hyperreactivity from hypertension. *American Journal of Hypertension*, 16: 570-576
18. Zhenheng Guo, Wen Su, Z. Ma, George Smith, and **Ming C. Gong** (2003) Ca²⁺-independent phospholipase A₂ is required for agonist-induced Ca²⁺-sensitization of contraction in vascular smooth muscle. *Journal of Biological Chemistry* 278: 1856-1863
19. **Ming Cui Gong**, Melinda Wilson, Thomas Kelley, Wen Su, James Dressman, Jeanie Kincer, Sergey V. Matveev, Ling Guo, Theresa Guerin, Xiang-An Li, Weifei Zhu, Annette Uittenbogaard, and Eric Smart (2003). Estradiol Associated with Female HDL Stimulates Endothelial Nitric Oxide Synthase and Vasodilation in an SR-BI-Dependent Manner. *Journal of Clinical Investigation*, 111: 1579-1587
20. Lisa A. Cassis, Jing Huang, **Ming C. Gong**, and Alan Daugherty (2004) Role of Metabolism and Receptor Responsiveness in the Attenuated Responses to Angiotensin II in Mice Compared to Rats. *Regulatory Peptides*, 117(2): 107-116
21. Huan Pang, Zhenheng Guo, Wen Su, Masumi Eto and **Ming C. Gong** (2005). RhoA/rho kinase mediates thrombin- and U-46619-induced phosphorylation of a myosin phosphatase inhibitor, CPI-17, in vascular smooth muscle cells. *American Journal of Physiology (Cell)*, 289: C352-C360
22. Zhenheng Guo, Wen Su, Shannon Allen, Huan Pang, Alan Daugherty, Eric Smart and **Ming C. Gong** (2005). COX-2 Up-regulation and vascular smooth muscle contractile hyperreactivity in spontaneous diabetic db/db mice. *Cardiovascular Research* 67: 723-735
23. **Ming C. Gong**, Sandrine Arbogast, Zhenheng Guo, Jeremy Mathenia, Wen Su, and Michael B. Reid (2006). Calcium-Independent Phospholipase A₂ Modulates Cytosolic Oxidant Activity and Contractile Function in Murine Skeletal Muscle Cells. *Journal of Applied Physiology* 100: 399-405
24. Huan Pang, Zhenheng Guo, Zhongwen Xie, Wen Su, and **Ming C. Gong** (2006): Divergent kinase signaling mediates agonist-induced phosphorylation of phosphatase inhibitory

proteins, PHI-1 and CPI-17, in vascular smooth muscle cells. *American Journal of Physiology (Cell)*, 290: C892-C899

25. Zhongwen Xie, Wen Su, Zhenheng Guo, Huan Pang, Steven Post and **Ming C. Gong (2006)**: Up-regulation of CPI-17 Phosphorylation in Diabetic Vasculature and High Glucose Cultured Vascular Smooth Muscle Cells. *Cardiovascular Research*, 69: 491-501
26. Chemyong Ko, Mary C. Gieske, Linah Al-Alem, YunKyung Hahn, **Ming Gong**, Wen Su, and Youngbum Koo (2006). Endothelin-2 in ovarian follicle rupture. *Endocrinology*, 147 (40): 1770-1779
27. Carine M. Boustany, **Ming Gong**, W. Scott Akers, Zhenheng Guo, Lisa A. Cassis: Enhanced Vascular Contractility and Diminished Coronary Artery Flow in Rats made Hypertensive from Diet-Induced Obesity. *International Journal of Obesity*, In press

Manuscript in Preparation

28. **Ming C. Gong**, Zhongwen Xie, Wen Su, John Turk and Zhenheng Guo. A Novel mechanism for up-regulation of RGS2 by Ang II In vascular smooth muscle cells-requirement of Ca²⁺-independent phospholipase A₂.
29. Karyn Esser, John McCarthy, Wen Su, Zhenheng Guo, and **Ming C. Gong**. Voluntary running ameliorates vascular smooth muscle hyperreactivity in diabetic db/db mice.

Reviews and Book Chapters

30. **Gong Ming Cui** and Chen Meng Qin (1987) Vascular reactivity in hypertensive disease (Review). *Physiological Sciences* 7(4): 211-214 (in Chinese)
31. **Gong Ming Cui** (1988) Neurotension (Review) *Physiological Sciences* 8(4): 124-127 (in Chinese)
32. Andrew P. Somlyo, Toshio Kitazawa, Sei Kobayashi, **Ming Cui Gong** and A.V. Somlyo (1991) Pharmacomechanical coupling: the membranes talk to the crossbridges *Regulation of smooth muscle*, edited by Robert S. Moreland:185-208
33. Zhen Yung Fan and **Gong Ming Cui** (2001) Mechanism of vascular smooth muscle contraction (Hypertension), edited by Liu Li Shen: 186-212 (in Chinese)

Abstracts

1. **M. Gong**, S. Kobayashi, A. V. Somlyo and A. P. Somlyo (1991) Ca^{2+} channel blockers distinguish between G-protein-coupled, pharmacological Ca^{2+} -release and Ca^{2+} -sensitization in smooth muscle. 35th Annual Meeting of Biophysical Society, San Francisco, California; *Biophysical Journal* 59: 237a
2. **M. Gong**, A.V. Somlyo and A.P. Somlyo (1994) Free arachidonic acid (AA) and diacylglycerol (DAG) are increased by agonists in smooth muscle. 38th Annual Meeting of Biophysical Society, New Orleans, Louisiana; *Biophysical Journal* 66: A409
3. **M. C. Gong**, P. Gailly, M. Kinter, A. V. Somlyo and A. P. Somlyo (1995) Arachidonic acid (AA) and diacylglycerol as potential Ca^{2+} -sensitizing messengers in smooth muscle. 39th Annual Meeting of Biophysical Society, San Francisco, California; *Biophysical Journal* 68: A277
4. P. E. Jensen, **M. C. Gong**, A. V. Somlyo and A.P. Somlyo (1996) Downregulation and recovery of kinase C (PKC) isoforms dissociate phorbol ester-induced from $\text{GTP}\gamma\text{S}$ -induced Ca^{2+} -sensitization. 40th Annual Meeting of Biophysical Society, Baltimore, Maryland; *Biophysical Journal* 70: A390
5. L. A. Walker, **M. C. Gong**, P. Gailly, J. Sando, A. V. Somlyo and A.P. Somlyo (1997) The identification of specific PKC isoforms in PDBu-induced Ca^{2+} -sensitization of smooth muscle. 41st Annual Meeting of Biophysical Society, New Orleans, Louisiana. *Biophysical Journal* 72: A179
6. Ph. Gailly, **M. C. Gong**, A. V. Somlyo and A.P. Somlyo (1997) Possible role of atypical protein kinase C (PKC) activated by arachidonic acid (AA) in Ca^{2+} -sensitization of smooth muscle. 41st Annual Meeting of Biophysical Society, New Orleans, Louisiana. *Biophysical Journal* 72: A383
7. **M. C. Gong**, H. Fujihara, L. A. Walker, A. V. Somlyo and A. P. Somlyo (1997) Downregulation of G-protein-mediated calcium-sensitization in smooth muscle. 41st Annual Meeting of Biophysical Society, New Orleans, Louisiana. *Biophysical Journal* 72: A385
8. **M. C. Gong**, H. Fujihara, A. V. Somlyo and A. P. Somlyo (1997) Calcium-sensitization and translocation of p21rhoA in vascular smooth muscle 41st Annual Meeting of Biophysical Society, New Orleans, Louisiana. *Biophysical Journal* 72: A385
9. Paul Read, Xiaopu Liu, K. Longencker, **Ming Cui Gong**, Avril V. Somlyo, Andrew P. Somlyo and Robert Nakamoto (1999) The expression and purification in *S. cerevisiae* of posttranslationally modified human rho GTPases in complexation with human rhoGDI. Keynote Synposia abstract-small molecular weight G-protein. Keynote Symposium
10. Zhenheng Guo Wen Su, and **Ming C. Gong** (2000) Ca^{2+} -independent phospholipase A_2 and vascular smooth muscle contraction. Gill Heart Institute Cardiovascular Research Day, University of Kentucky, p. 28

11. **Ming Cui Gong**, Wen Su and Zhenheng Guo (2001) Physiological level of estrogen inhibits Ca^{2+} -sensitization of coronary artery contraction. *Genome and Hormones: An integrative approach to gender differences in physiology*.
12. **Ming C. Gong**, W. Su, Z. Guo (2002) Role of Ca^{2+} -independent phospholipase A_2 (iPLA $_2$) in the regulation of vascular smooth muscle contraction. 46th Annual Meeting of Biophysical Society, San Francisco, California. *Biophysical Journal* 82: 423a
13. Zhenheng Guo, Wen Su, Zhongmin Ma, George Smith and **Ming Gong** (2002) Ca^{2+} -independent phospholipase A_2 is required for agonist-induced Ca^{2+} -sensitization of contraction in vascular smooth muscle. Gill Heart Institute Cardiovascular Research Day, University of Kentucky, p 11
14. Huan Pang, Zhenheng Guo, Wen Su, Shannon Allen and **Ming Gong** (2003) An Important role of RhoA/Rho kinase in Agonist-induced CPI-17 Phosphorylation in Vascular Smooth Muscle Cells. Gill Heart Institute Cardiovascular Research Day, University of Kentucky, p. 23
15. Zhenheng Guo, Wen Su, Shannon Allen, Huan Pang, and **Ming Gong** (2003) Critical role of PGHS-2 up-regulation in vascular smooth muscle hyperreactivity in diabetic leptin receptor mutant mice. Gill Heart Institute Cardiovascular Research Day, University of Kentucky, p.18
16. Huan Pang, Zhenheng Guo, Wen Su, Maumi Eto, and **Ming Gong** (2004) RhoA/Rho kinase mediates thrombin- and U-46619-induced phosphorylation of a myosin phosphatase inhibitor, CPI-17, in vascular smooth muscle cells. 48th Annual Meeting of Biophysical Society, Baltimore, Maryland. *Biophysical Journal*: A
17. Zhenheng Guo, Wen Su, Shannon Allen, Huan Pang, and M. Gong (2004) Type 2 diabetes induces COX-2 expression and increases vascular smooth muscle contractile responses. XIII International Vascular Biology Meeting, Toronto, Canada. *Cardiovascular Pathology* 13: S84-S85
18. Zhongwen Xie, Wen Su, Zhenheng Guo, Huan Pang, and **Ming C. Gong** (2004) Ca^{2+} -independent phospholipase A_2 (iPLA $_2$) is required for agonist-induced phosphorylation of a myosin phosphatase inhibitory protein, CPI-17, in vascular smooth muscle. Oct. 25, 2004; Cardiovascular Research Day, University of Kentucky
19. Chia-Hung Yen, Wen Su, Zhenheng Guo and **Ming C. Gong** (2004) Differential Blood Pressure Alterations in STZ-induced Type 1 and Genetic Type 2 db/db Diabetic Mice. Oct. 25, 2004; Cardiovascular Research Day, University of Kentucky
20. Zhenheng Guo, Wen Su, Shannon Allen, Huan Pang, Alan Daugherty, Eric Smart and **Ming C. Gong**. COX-2 up-regulation and vascular smooth muscle contractile hyperreactivity in spontaneous diabetic db/db mice. June 10-13; 65th American Diabetes Association Scientific Sessions, San Diego, California

21. Zhenheng Guo, Zhongwen Xie, Huan Pang, Wen Su and **Ming Gong**. A novel mechanism for up-regulation of RGS2 expression by AngII in vascular smooth muscle cells. Oct. 7, 2005, Cardiovascular Research Day, University of Kentucky
22. Huan Pang, Zhenheng Guo, Zhongwen Xie, Wen Su, and **Ming Gong**. Divergent Kinase Signaling Mediates Agonist-Induced Phosphorylation of Phosphatase Inhibitory Proteins, PHI-1 and CPI-17, in Vascular Smooth Muscle Cells. Oct. 7, 2005, Cardiovascular Research Day, University of Kentucky
23. Zhongwen Xie, Wen Su, Zhenheng Guo, Huan Pang, Steven Post and **Ming Gong**. Up-regulation of CPI-17 Phosphorylation in Diabetic Vasculature and High Glucose Cultured Vascular Smooth Muscle Cells. Oct. 7, 2005, Cardiovascular Research Day, University of Kentucky.
24. Huan Pang, Zhenheng Guo, Zhongwen Xie, Wen Su, and **Ming Gong**. Divergent Kinase Signaling Mediates Agonist-Induced Phosphorylation of Phosphatase Inhibitory Proteins, PHI-1 and CPI-17, in Vascular Smooth Muscle Cells. Feb.18-22, 50th American Biophysical Society Meeting, Salt Lake City, Utah; Biophysical Journal, p.167a, 789-Plat