

GANGJIAN QIN, MD, FAHA

Date of Birth: August 26, 1965

Citizenship: United States

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EDUCATION

1981–1989	Tongji Medical University, China	M.D./M.S.	Medicine
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TRAINING

1989–1991	Union Hospital of Tongji Medical University	Resident	Pediatrics
1991–1992	Union Hospital of Tongji Medical University	Pediatric Fellow	Neonatology
1995–1998	Postdoctoral Fellowship of United Nations Industrial Development Organization Department of Molecular Medicine, International Centre for Genetic Engineering & Biotechnology (ICGEB), Trieste, Italy Field of Research: Molecular Biology & Genetics		
1998–2001	Postdoctoral Fellowship of William M. Keck Foundation Hematology/Oncology Division, Department of Medicine, University of Illinois at Chicago, IL Field of Research: Stem Cell Biology & Gene Transfer		

ACADEMIC APPOINTMENTS

2001–2003	Instructor in Medicine St. Elizabeth's Medical Center of Boston, Tufts University School of Medicine, MA
2004–2006	Assistant Professor of Medicine St. Elizabeth's Medical Center of Boston, Tufts University School of Medicine, MA
2007–2012	Assistant Professor of Medicine, Molecular Pharmacology and Biological Chemistry Feinberg Cardiovascular Research Institute

Department of Medicine – Cardiology
Department of Molecular Pharmacology and Biological Chemistry
Northwestern University Feinberg School of Medicine

2012–present Associate Professor of Medicine, Molecular Pharmacology and Biological Chemistry
Feinberg Cardiovascular Research Institute
Department of Medicine – Cardiology
Department of Molecular Pharmacology and Biological Chemistry
Northwestern University Feinberg School of Medicine

2013–present Associate Professor of Medicine, Molecular Pharmacology and Biological Chemistry
(Tenured)
Feinberg Cardiovascular Research Institute
Department of Medicine – Cardiology
Department of Molecular Pharmacology and Biological Chemistry
Northwestern University Feinberg School of Medicine

HOSPITAL APPOINTMENTS (in China)

1992–1995 Attending Physician, Director of Neonatal Wards and NICUs, Department of
Pediatrics, Union Hospital of Tongji Medical University
Lecturer, Tongji Medical University, China

HONORS AND AWARDS

1991 Science and Technology Progress Award, Wuhan Science and Technology Ministry, China

2000 Travel Award, NIDDK / NIH

2004 Melvin L. Marcus Young Investigator Award in Cardiovascular Sciences (Finalist), AHA's
Scientific Sessions, New Orleans, LA

2005 Visiting Professor, NanKai University, China

2007 Department of Medicine's Investigators Developing Excellence in Academics Award,
Northwestern University Feinberg School of Medicine

2007 Searle Fellow for Teaching Excellence, Northwestern University

2010 Fellow of the American Heart Association Basic Research Council (FAHA)

2012 Lecture Professor, Tianjin University of Traditional Chinese Medicine

2012 Fellow of the Chinese American Heart Association (cnAHA)

2013 Guest Professor, Huazhong University of Science and Technology Tongji Medical College

2013 Member, World herb medicine reevaluation committee

PROFESSIONAL ORGANIZATIONS

- Member, American Heart Association (AHA)

- Member, American Physiological Society (APS)
- Member, International Society for Stem Cell Research (ISSCR)

PROFESSIONAL ACTIVITIES

INSTITUTIONAL SERVICE

- 2007–2009 Faculty Search Committee, FCVRI, Northwestern University Feinberg School of Medicine; Member
- 2008–present Tumor Invasion, Metastasis and Angiogenesis (TIMA), Robert H. Lurie Comprehensive Cancer Center, Northwestern University Feinberg School of Medicine; Membership Roster
- 2008–present Student Research Committee, Northwestern University; Member
- 2009–present Institutional Animal Care and Use Committee (IACUC), Northwestern University; Member
- 2010–present Integrated Graduate Program (IGP) Admission Committee, Northwestern University; Member
- 2012–present Medical Scientist Training Program (MSTP; MD/PhD program) Admission Committee, Northwestern University; Member
- 2013–present Faculty Search Committee, FCVRI, Northwestern University Feinberg School of Medicine; Member

TEACHING

Present:

- Fall 2011 Northwestern University, IGP 401-0-20 (15730), BIOCHEMISTRY I (Lecture): 20 points.

Teaching Faculty:

- Integrated Graduate Program in Life Sciences (IGP)
- PhD Program in Life and Biomedical Sciences (IBiS)

TRAINEES

Trainee	Years	Education	Title	Project	Distinction	Subsequent positions

Wuqiang Zhu	2007 – 2008	MD, PhD	Postdoc	Harness embryonic pathways in adult cardiovascular repair		<ul style="list-style-type: none"> • Research Associate (2008-2011) • Research Assistant Professor (2011-present) Indiana University
Junlan Zhou	2007 –	MD, PhD	<ul style="list-style-type: none"> • Postdoc (2007-2011) • Research Assistant Professor (2011-present) 	Transcriptional regulation of endothelial function and blood pressure homeostasis	AHA postdoctoral fellowship grant (07/01/2010-06/30/2012)	(Current)
Chantal Boutros	2007 – 2008	Undergrad (Pre-med)	Research Trainee	Vascular contractility and blood pressure regulation		DMD student University of Medicine and Dentistry of New Jersey
Min Cheng	2007 – 2010	MD	International PhD student	Bone marrow stem cell niche signaling and vascular repair	<ul style="list-style-type: none"> • The State Scholarship Fund, China (2007-2010); • 2nd prize in basic science competition, Northwestern 4th annual Lewis Landsberg Research Day (2008) • AHA Travel Award (2009) • Thesis Award, the 21st Great Wall –Int'l Congress of Cardiology 	<ul style="list-style-type: none"> • Attending physician, Union Hospital of Tongji Medical College, China (2010-2013) • Obtained NSFC youth grant (2011) • Associate Chief Physician (2013-present)
Min Wu	2009 – 2011	MD	International PhD student	E2F in cardiac neovascularization	<ul style="list-style-type: none"> • The State Scholarship Fund, China (2009-2011) • AHA travel award (2010) 	<ul style="list-style-type: none"> • Attending Physician, Tongji Hospital of Tongji Medical College, China (2011-present) • Obtained NSFC youth grant (2012)
Shivanyaa Kanapathy	2009	Undergrad (Pre-med)	Research Trainee	In vitro models of bone marrow stem-cell niche		UIC College of Medicine

Ingrid Hsiung	2009 – 2011	High school student	Research Trainee	In vitro models of bone marrow stem-cell niche	The Student Inquiry and Research (SIR) investigation program of the Illinois Mathematics and Science Academy (IMSA)	UMKC's 6-year BA/MD program
Pranusha Pinna	2010 – 2012	High school student	Research Trainee	In vitro models of bone marrow stem-cell niche	The Student Inquiry and Research (SIR) investigation program of the Illinois Mathematics and Science Academy (IMSA)	
Jonathan Cho	2010		MD student	GPCR and receptor tyrosine kinase (RTK) signaling in bone marrow stem cell maintenance	The Northwestern Medical Student Summer Research Program (MSSRP) grant	Northwestern Feinberg School of Medicine
Dauren Biyashev	2010 –	PhD	Research Assistant Professor	microRNA in the regulation of ischemic angiogenesis	AHA Scientist Development Grant (SDG) (01/01/2012-12/31/2016)	(Current)
Hong Wang	2010 –	PhD	Postdoc	Mechanisms of “promoting blood-circulation and removing blood-stasis” (活血化瘀类) traditional Chinese medicine in the treatment of ischemic disease	Tianjin Municipal Education Commission training grant, China (2010-2011)	<ul style="list-style-type: none"> • Associate Professor, Tianjin University of Traditional Chinese Medicine, China • Professor
Jasmine Ng	2011		MD student	E2F1-regulated microRNA and ischemic angiogenesis	The Northwestern Medical Student Summer Research Program (MSSRP) grant	Northwestern Feinberg School of Medicine
Shiyue Xu	2011 –	MD	International PhD student	Oxidative metabolism and stem cell differentiation	<ul style="list-style-type: none"> • The State Scholarship Fund, China (2011-2013) • AHA Predoctoral fellowship (2013-2015) 	(Current)
Baron Arnone	2011–		PhD student	Long non-coding regulatory RNAs in ES cell biology and cardiovascular	Northwestern University Driskill Graduate Program (DGP) in Life Sciences	(Current)

				regeneration		
Eman Bedri Yousif	2012	Undergrad (Pre-med)	Research Trainee	Identification of CXCR4 – ckit signaling mediators in bone marrow stem cells	The Undergraduate Research Grant (URG), Northwestern University	
Yang Yu	2012	MD, PhD	Postdoc	Use of nanoparticles to facilitate stem cell mediated cardiovascular tissue repair	• AHA postdoc fellowship (2013-2014)	(Current)
Alex Wang	2012	High school student	Research trainee	ES cell pluripotency and cardiac differentiation		Harvard University student.
Nikhil Dhall	2012	High school student	Research trainee	ES cell pluripotency and cardiac differentiation		
Shuang Zhang	2012		Rotating PhD student	Adipocyte progenitor cells for cardiovascular repair	Northwestern University Driskill Graduate Program (DGP) in Life Sciences	Northwestern DGP student
Mingyi Zhao	2012	MD, PhD	Postdoc	Somatic stem cells and cardiovascular tissue repair	China Natural Science Foundation Grant	(Current)
Suji Jeong	2012		Rotating PhD student	Interaction between bone marrow stem cells and cardiac stem cells	Northwestern University Driskill Graduate Program (DGP) in Life Sciences	Northwestern DGP student
Shuling Han	2012	MD, PhD	Postdoc	Lipid metabolism and atherosclerosis	The State Scholarship Fund, China (2012-2014)	(Current)
Jiawei Shi	2014	MD, PhD	Postdoc	Activation of endogenous cardiac stem cell (plan)		(incoming)

EXTRAMURAL MEMBERSHIP

- 2012 Director, Division of Administration Services, Tongji Medical College Overseas Association (TJMCOAA)
- 2012 Vice president, Huazhong University of Science and Technology Alumni Association in Greater Chicago
- 2014 Vice president for finance, TJMCOAA

EDITORIAL RESPONSIBILITIES

- 2010– Academic Editor, *PLoS ONE*
- 2010– Editorial Board Member, *World Journal of Hypertension*
- 2010– Editorial Board Member, *Journal of Geriatric Cardiology*
- 2010–2011 Section Editor, *Journal of Geriatric Cardiology*
- 2011– Editorial Board Member, *American Journal of Cardiovascular Disease*
- 2011– Advisory Board Member, *Journal of Geriatric Cardiology*
- 2011 Invited Review Editor, *Antioxidants & Redox Signaling*
- 2011– Editorial Board Member, *Current Angiogenesis*
- 2011– Editorial Board Member, *International Scholarly Research Network Stem Cells*
- 2012– Editorial Board Member, *Dataset Papers in Medicine*
- 2013– Editorial Board Member, *Advances in Regenerative Medicine*

REVIEW RESPONSIBILITIES

Review of grants and awards:

- 2009 Louisiana Board of Regents RCS proposal; Ad Hoc reviewer
- 2011 NIH NHLBI Program Project Review Committee, Initial Review Group, HLBP ZHL1 SRC (99); Ad Hoc member
- 2011 American Heart Associate (AHA) Genetics and Epigenetics (GE1) Peer Review Committee; Member
- 2012 NIH Bioengineering Sciences & Technologies Integrated Review Group, Special Emphasis Panel 2012/05 BMBI; Ad Hoc member
- 2012 NIH NIEHS Special Emphasis Panel ZES1 TN-D ST 1, Environmental Stem Cells Research; Ad Hoc member
- 2012 AHA Genetics and Epigenetics (GE3) Peer Review Committee; Member
- 2012 NIH NHLBI Program Project Review Committee, HLBP 2, Workgroup; Ad Hoc member

- 2012 The Fundació la Marató de TV3, Spain; Reviewer
- 2012 AHA Student Scholarship Awards Peer Review Committee; Member
- 2012 NIH BMBI study section (2013/01 BMBI); Ad Hoc member
- 2012 AHA Genetics and Epigenetics (GE2) Peer Review Committee; Member
- 2012 Portuguese Foundation for Science and Technology; Reviewer
- 2012 NIH AICS study section (2013/01 AICS); Ad Hoc member
- 2012 Programs of Alberta Innovates – Health Solutions (AIHS) Collaborative Research & Innovation Opportunities (CRIO), Canada; Reviewer
- 2013 AHA Regenerative Cell Biology (RCB1) Peer Review Committee; Member
- 2013 Natural Science Foundation of China (NSFC); Reviewer
- 2013 The Center for the Advancement of Science in Space (CASIS); Reviewer
- 2013 NIH BMBI study section (2014/01 BMBI); Ad Hoc member
- 2013 New York State Department of Health and the Empire State Stem Cell Board NYSTEM Program 2013 Generic – Cardiovascular Panel; Reviewer
- 2014 Medical Research Council of UK; Reviewer
- 2014 AHA Regenerative Cell Biology (RCB1) Peer Review Committee; Member

Review of manuscripts for journals:

Circulation, Circulation Research, Journal of Clinical Investigation, Molecular Therapy, Human Gene Therapy, Journal of American College of Cardiology, American Journal of Cardiology, International Journal of Cardiology, Experimental Hematology, Cancer Research, Journal of Cell Physiology, Diabetes, Arteriosclerosis, Thrombosis and Vascular Biology, Journal of Molecular and Cellular Cardiology, FASEB Journal, Cytokine, Molecular Biology Reports, World Journal of Hypertension, Journal of Geriatric Cardiology, Alcohol, Antioxidants & Redox Signaling, PLoS one, Cytokine, Neurochemistry International, Trends in Cardiovascular Medicine, American Journal of Cardiovascular Disease, Aging Cell, Gene Therapy, Immunology, Journal of Cellular and Molecular Medicine, EMBO Molecular Medicine, Cell Transplantation, Cardiovascular Drugs and Therapy, Stem Cell Research and Therapy, Clinical and Experimental Hypertension, American Journal of Hypertension, Journal of Huzhong University of Science and Technology, Journal of Endocrinology.

Grading abstracts for symposia:

- 2010 American Heart Association (AHA) Scientific Sessions
- 2011 AHA Scientific Sessions
- 2012 AHA Scientific Sessions
- 2013 AHA Scientific Sessions

CONFERENCE ORGANIZER

- 2010 The 10th International Conference for the Critical Assessment of Massive Data Analysis (CAMDA), Chicago; Committee member
- 2010 The 21st Great Wall International Congress of Cardiology (GW-ICC), Beijing, China; Overseas faculty
- 2011 The 5th National Conference of Vascular Disease, Guangzhou, China; Faculty
- 2011 The 22nd Great Wall International Congress of Cardiology (GW-ICC), Beijing, China; Overseas faculty
- 2012 The 14th South China International Congress of Cardiology & International Symposium of Cardiovascular Science and Translational Medicine, Guangzhou, China; Co-chair
- 2012 The 4th International Forum of Cardiovascular Target Therapy (CTT) and the 2nd Central Congress of Cardiology (CCC), Wuhan, China; Academic faculty
- 2013 AHA Scientific Sessions 2013, Dallas, USA;
Builder of session (710 Experimental Myocardial Infarction)
Chair for sessions CVS.503 (Systems Physiology of Cardiac Ischemia and Cell Death: New Molecular Regulators) and AOS.703.01 (New Concept in the Regulation of Vascular Endothelial Function); Poster Professor for sessions APS.710.01 (Myocardial Infarction: Novel Mechanisms of Injury and Repair) and APS.705.03h Session Title: Stem Cells and Tissue Engineering for Regeneration

GRANT AWARDS

Past

AHA Scientist Development Grant (0430135N) Qin (PI) 01/01/2004–12/31/2008

Molecular Mechanisms of E2F1-mediated Inhibition of Angiogenesis

The goal of this project was to understand the molecular mechanisms by which E2F1, a classic cell-cycle activator, suppresses hypoxia/ischemia-induced VEGF expression, and the physiological significance of this regulation in blood vessel growth following limb ischemia and during cancer growth.

Role: PI

Total direct costs: \$260,000

AHA Postdoctoral Grant (10POST4360009) Zhou (PI) 07/01/2010-06/30/2012

Mechanisms of Sam68 in blood pressure regulation

This fellowship provides salary support for Dr. Junlan Zhou in my lab to facilitate her training in the areas of vascular biology and hypertension. The goal of this project is to understand the role of Sam68 in the regulation of endothelial gene expression, endothelial and smooth muscle cell interaction, and blood pressure.

Role: Mentor

Total direct costs: \$100,000

NIH R01 HL091983 Kishore (PI) 05/01/2009–04/30/2013

TNF mRNA Stability and Restenosis

The goal of this project is to understand the molecular mechanisms of inflammatory cytokines TNF and IL-10 in the pathogenesis of restenosis.

Role: Co-Investigator

Total direct costs: \$1,000,000

Current

NIH R01 HL093439

Qin (PI)

04/09/2010–02/28/2014

E2F1 in Cardiac Neovascularization

The goal of this project is to understand the role of E2F1 in the regulation of cardiac neovascularization, circulating endothelial progenitor cells (EPCs), and cardiac function during ischemic heart disease.

Role: PI

Total direct costs: \$1,000,000

NIH R01 HL113541

Qin (PI)

04/01/2012–03/31/2016

CXCR4–c-kit signaling in BM progenitor cell recruitment in the ischemic heart

The goal of this application is to establish the role of SDF-1/CXCR4–c-kit signaling in BM PC recruitment, and to determine whether techniques that target this pathway could enhance the effectiveness of cell therapy.

Role: PI

Total direct costs: \$1,000,000

AHA Predoctoral Fellowship (13PRE14710033)

Xu (PI)

01/01/2013-12/31/2014

CCR2 and CXCR4 signaling crosstalk in stem cell homing to ischemic heart

This fellowship provides salary support for Shiyue Xu, MD, PhD student in my lab to facilitate his training in the areas of stem cell biology and ischemic cardiac repair. The goal of this project is to understand the molecular mechanism by which CCR2 and CXCR4 signaling crosstalk regulates stem cell trafficking and explore the therapeutic potential of harnessing this signaling pathway for treatment of myocardial infarction.

Role: Mentor

Total direct costs: \$46,000

AHA Postdoctoral Fellowship (13POST17350000)

Yu (PI)

07/01/2013-06/30/2015

Matricellular protein CCN1 and PC-mediated cardiac neovascularization

This fellowship provides salary support for Dr. Yang Yu in my lab to facilitate her training in the areas of stem cell biology. The goal of this project is to understand the functional significance of CCN1 in the ischemic cardiac repair and the underlying molecular and cellular mechanisms.

Role: Mentor

Total direct costs: \$102,040

AHA SDG Grant (12SDG8970022)

Biyashev (PI)

01/01/2012-12/31/2016

E2F1/Syndecan4 signaling in ischemic tissue injury

This scientist development grant investigates the molecular mechanisms by which E2F1 regulates Sdc4 expression under hypoxia, the role of E2F1/Sdc4 signaling in the regulation of endothelial cell functions and the physiological significance of this regulation in the recovery of heart function after myocardial infarction.

Role: Mentor

Total direct costs: \$308,000

AHA SDG Grant (13SDG17120011)

Zhou (PI)

07/01/2013-06/31/2017

Src Family Kinase and Progenitor cell-mediated Cardiac Repair

This scientist development grant investigates the mechanism by which the SDF-1/CXCR4–Src family kinase (SFK) pathway regulates BM stem/progenitor cell recruitment and retention in the ischemic tissue and attempt to identify new therapeutic approaches and targets that could enhance the effectiveness of cell therapy for treatment of ischemic heart disease.

Role: Mentor
Total direct costs: \$308,000

NIH 2R01 HL091983

Kishore (PI) 09/01/13 - 08/31/17

Interleukin-10, stem cells and myocardial ischemia

The objective of this project is to define the role of IL-10 in modulating the biology and function of EPCs, as it pertains to their ability for post-infarct myocardial vascular repair as well as to identify and elucidate the molecular signaling downstream of IL-10 that mediates IL-10 effects in EPCs.

Role: Co-Investigator

Total direct costs: \$1,000,000

Dixon Translational Research Grant

Stupp (PI) 12/01/2010–11/30/2014

Enhancing Progenitor Cell Function using Bioactive Peptide Amphiphiles

The goal of this project is to develop innovative therapeutic approaches for refractory ischemic conditions such as critical limb ischemia with the use of novel bioactive nanopeptides amphiphiles (PA) to augment the potential of endothelial progenitor cell (EPC) based therapies.

Role: Co-Investigator

Total direct costs: \$600,000

INVITED LECTURES

1. St. Elizabeth's Medical Center of Boston, Tufts University, Boston, MA
A Novel Function of Transcription Factor E2F1 in Angiogenesis
May 13, 2005
2. Nankai University Institute of Life Sciences, Tian Jin, China
E2F Family of Transcription Factors and Tumor Angiogenesis
July 12, 2005
3. China TEDA Bioforum. Tianjin, China
Endothelial Progenitor Cells for Therapeutic Angiogenesis
Nov 4, 2005
4. Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China
Somatic Stem Cells for Cardiovascular Repair: The Promise and the Challenge
July 24, 2006
5. The 4th Annual Symposium of the American Heart Association Council on Basic Cardiovascular Sciences, Keystone, CO
Mobilization of Endothelial Progenitor Cells as A Potential Angiogenic Therapy for Ischemic Disease: Functional Study on α 4 Integrin
Aug 2, 2007
6. Riley Heart Research Center (RHRC) PPG Seminar Series
Herman B Wells Center for Pediatric Research
E2F Transcription Factors and Vascular Function
September 8, 2010
7. The 21st Great Wall International Congress of Cardiology, Beijing, China
Targeting Stem Cell Mobilization and Homing for Vascular Repair
Oct 14, 2010

Cardiac Stem Cell and Ischemic Heart Disease

Oct 16, 2010

8. Mechanisms of Organ Repair & Regeneration (MORR), Ellicott City, MD
NIDDK, NIH
CXCR4 and c-kit signaling in Bone Marrow Progenitor Cell Maintenance and Mobilization
Sept 15, 2011
9. The 5th National Conference of Vascular Disease, Guangzhou, China
(Keynote Speaker) *A Novel Genetic Link between Obesity and Hypertension*
Sept 18, 2011
10. Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China
Bone Marrow Niche and Ischemic Tissue Repair
Oct 25, 2011
11. The 9th Annual Congress of International Drug Discovery Science and Technology, Shenzhen, China
Targeting Bone Marrow Stem Cell Niche for Vascular Repair: An Experimental Study
Nov 5, 2011
12. Tianjin University of Traditional Chinese Medicine, Tianjin, China
New Targets for Therapy of Human Hypertension
Dec 25, 2011
13. The 14th South China International Congress of Cardiology, Guangzhou, China
Hypoxic Preconditioning of Cardiac Stem Cells
April 11, 2012
14. Hubei University of Traditional Chinese Medicine, Wuhan, China
Stem Cells and Cardiovascular Tissue Repair
April 19, 2012
15. Union Hospital of Tongji Medical College, Huazhong University of Science and Technology &
The Pediatrician Association of Hubei Province, Wuhan, China
Lipid Metabolism and Neonatal Death of Unknown Reason
April 20, 2012
16. The 4th Cardiovascular Target Therapy (CTT) and the 2nd Central Congress of Cardiology
(CCC) Forum, Wuhan, China
Targeting Stem Cell Niche for Myocardial Repair
April 21, 2012
17. Tianjin University of Traditional Chinese Medicine, Tianjin, China
*Mechanisms of “promoting blood-circulation and removing blood-stasis” (活血化癥类) traditional
Chinese medicine in the treatment of ischemic disease*
April 23, 2012
18. The Feinberg Cardiovascular Research Institute Seminar Series, Northwestern University,
Chicago
Stem Cells and Ischemic Tissue Repair
May 3, 2012
19. University of Louisville Institute of Molecular Cardiology, KY
SDF-1/CXCR4 Signaling in Stem Cell-mediated Cardiovascular Repair

May 31, 2012

20. The Inaugural XiangYa Milestone International Forum on Medicine (XiangYa MIFM)–Translational Medicine and Clinical Application, Hunan, China
Targeting bone marrow niche for vascular repair
September 21, 2012
21. The 3rd International Symposium on the Frontiers in Cardiovascular Diseases (3rd ISFC)
Xiamen, China
The SDF-1/CXCR4 signaling in ischemic tissue repair
September 22, 2012
22. The 15 South China International Congress of Cardiology, Guangzhou, China
(Distinguished Lecture) *E2F and vascular function*
April 11, 2013
23. Invited seminar at Fuwai hospital, Beijing, China
Bone marrow stem cells
July 22, 2013
24. The annual meeting of the 2011-plan modern Chinese medicine collaborative innovation center and modern Chinese medicine national key laboratory, Tianjin, China
Cardiac stem cells
July 29, 2013
25. Rush University Medical Center
Department of Internal Medicine Research Grand Rounds (IMRGR)
Mobilization and recruitment of stem cells for cardiovascular repair
March 4, 2014 (confirmed)
26. Wayne State University School of Medicine
Department of Biochemistry and Molecular Biology
Karmanos Cancer Institute
The E2F1-PDK pathway in EPC Metabolism and Differentiation
April 1, 2014 (confirmed)
27. The 8th Five-Continent International Symposium on Cardiovascular Diseases
Beijing, China
Stem Cells and Ischemic Tissue Repair: A mechanistic study
April 10, 2014 (confirmed)
28. The 16 South China International Congress of Cardiology, Guangzhou, China
E2F1 and stem cell metabolism
April 11, 2014 (confirmed)
29. The 8th Oriental Congress of Cardiology (OCC)
Shanghai, China
Targeting Stem Cell Metabolism for Ischemic Tissue Repair
May 29, 2014 (confirmed)

PUBLICATIONS

A. Original Investigations

1. Takenaka T., **Qin G.**, Brady R.O., and Medin J.A., Circulating alpha-galactosidase A derived from transduced bone marrow cells: relevance for corrective gene transfer for Fabry disease. ***Hum Gene Ther***, 1999. 10(12): p. 1931-9.
2. Takenaka T., Murray G.J., **Qin G.**, Quirk J.M., Ohshima T., Qasba P., Clark K., Kulkarni A.B., Brady R.O., and Medin J.A., Long-term enzyme correction and lipid reduction in multiple organs of primary and secondary transplanted Fabry mice receiving transduced bone marrow cells. ***Proc Natl Acad Sci U S A***, 2000. 97(13): p. 7515-20.
3. Zentilin L.*, **Qin G.***, Tafuro S., Dinauer M.C., Baum C., and Giacca M., Variegation of retroviral vector gene expression in myeloid cells. ***Gene Ther***, 2000. 7(2): p. 153-66.
4. **Qin G.**, Takenaka T., Telsch K., Kelley L., Howard T., Levade T., Deans R., Howard B.H., Malech H.L., Brady R.O., and Medin J.A., Preselective gene therapy for Fabry disease. ***Proc Natl Acad Sci U S A***, 2001. 98(6): p. 3428-33.
5. li M., Nishimura H., Kusano K.F., **Qin G.**, Yoon Y.S., Wecker A., Asahara T., and Losordo D.W., Neuronal nitric oxide synthase mediates statin-induced restoration of vasa nervorum and reversal of diabetic neuropathy. ***Circulation***, 2005. 112(1): p. 93-102.
6. Iwakura A., Dean J., Hamada H., Eaton E., **Qin G.**, Losordo D.W., and Aikawa R., Use of recombinant adeno-associated viral vectors as a tool for labeling bone marrow cells. ***J Mol Cell Cardiol***, 2005. 38(5): p. 799-802.
7. Kishore R., **Qin G.**, Luedemann C., Bord E., Hanley A., Silver M., Gavin M., Yoon Y.S., Goukassian D., and Losordo D.W., The cytoskeletal protein ezrin regulates EC proliferation and angiogenesis via TNF-alpha-induced transcriptional repression of cyclin A. ***J Clin Invest***, 2005. 115(7): p. 1785-96.
8. Luedemann C., Bord E., **Qin G.**, Zhu Y., Goukassian D., Losordo D.W., and Kishore R., Ethanol modulation of TNF-alpha biosynthesis and signaling in endothelial cells: synergistic augmentation of TNF-alpha mediated endothelial cell dysfunctions by chronic ethanol. ***Alcohol Clin Exp Res***, 2005. 29(6): p. 930-8.
9. Yoon Y.S., Wecker A., Heyd L., Park J.S., Tkebuchava T., Kusano K., Hanley A., Scadova H., **Qin G.**, Cha D.H., Johnson K.L., Aikawa R., Asahara T., and Losordo D.W., Clonally expanded novel multipotent stem cells from human bone marrow regenerate myocardium after myocardial infarction. ***J Clin Invest***, 2005. 115(2): p. 326-38.
10. Fu J., Lin G., Wu Z., Ceng B., Wu Y., Liang G., **Qin G.**, Li J., Chiu I., and Liu D., Anti-apoptotic role for C1 inhibitor in ischemia/reperfusion-induced myocardial cell injury. ***Biochem Biophys Res Commun***, 2006. 349(2): p. 504-12.
11. Fu J., Lin G., Zeng B., Wu Z., Wu Y., Chu H., **Qin G.**, Liang G., Li J., Gan X., Yu X., Li C., and Liu D., Anti-ischemia/reperfusion of C1 inhibitor in myocardial cell injury via regulation of local myocardial C3 activity. ***Biochem Biophys Res Commun***, 2006. 350(1): p. 162-8.
12. Hamada H., Kim M.K., Iwakura A., li M., Thorne T., **Qin G.**, Asai J., Tsutsumi Y., Sekiguchi H., Silver M., Wecker A., Bord E., Zhu Y., Kishore R., and Losordo D.W., Estrogen receptors alpha and beta mediate contribution of bone marrow-derived endothelial progenitor cells to functional recovery after myocardial infarction. ***Circulation***, 2006. 114(21): p. 2261-70.
13. Iwakura A., Shastry S., Luedemann C., Hamada H., Kawamoto A., Kishore R., Zhu Y., **Qin G.**, Silver M., Thorne T., Eaton L., Masuda H., Asahara T., and Losordo D.W., Estradiol enhances

recovery after myocardial infarction by augmenting incorporation of bone marrow-derived endothelial progenitor cells into sites of ischemia-induced neovascularization via endothelial nitric oxide synthase-mediated activation of matrix metalloproteinase-9. **Circulation**, 2006. 113(12): p. 1605-14.

14. **Qin G.**, li M., Silver M., Wecker A., Bord E., Ma H., Gavin M., Goukassian D.A., Yoon Y.S., Papayannopoulou T., Asahara T., Kearney M., Thorne T., Curry C., Eaton L., Heyd L., Dinesh D., Kishore R., Zhu Y., and Losordo D.W., Functional disruption of alpha4 integrin mobilizes bone marrow-derived endothelial progenitors and augments ischemic neovascularization. **J Exp Med**, 2006. 203(1): p. 153-63.
15. **Qin G.**, Kishore R., Dolan C.M., Silver M., Wecker A., Luedemann C.N., Thorne T., Hanley A., Curry C., Heyd L., Dinesh D., Kearney M., Martelli F., Murayama T., Goukassian D.A., Zhu Y., and Losordo D.W., Cell cycle regulator E2F1 modulates angiogenesis via p53-dependent transcriptional control of VEGF. **Proc Natl Acad Sci U S A**, 2006. 103(29): p. 11015-20.
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E. Patents

1. Methods of Using E2F2 for the Treatment of Hypertension (USPTO No. 60/855,986) (Inventors: DW Losordo, G Qin).