

C U R R I C U L U M V I T A E

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EDUCATION AND TRAINING

Education

08/1980 - 07/1985	The Third Military Medical University Chongqing, P. R. China, 630038 M.D.
08/1985 - 07/1988	Institute of Medical Sciences Beijing, P. R. China, 100850 M. Sc. in Biochemistry
01/1991- 06/1995	Western University London, Ontario, Canada Ph.D. in Molecular Genetics

Postdoctoral Training

07/1988 – 12/1990	Fellow in the Department of Cardiology, Research Associate in the Department of Biochemistry, Beijing General Hospital, Beijing, China 100853.
02/1995 – 01/1997	Postdoctoral Fellow at the Banting and Best Diabetes Center, University of Toronto, Canada.
02/1997 – 06/1998	Postdoctoral Fellow in Cardiovascular Division, Brigham and Women's Hospital, Harvard Medical School.

ACADEMIC, ADMINISTRATIVE, AND RESEARCH APPOINTMENTS

Employment History

07/1998 – 10/1999	Instructor of Medicine, Harvard Medical School.
11/1999 – 06/2003	Assistant Professor of Biochemistry, Cardiovascular Research Institute; Co-Director, Functional Genomics Center, Morehouse School of Medicine, Atlanta. GA
07/2003 – 11/2005	Associate Professor of Biochemistry, Cardiovascular Research Institute; Co-Director, Functional Genomics Center, Morehouse School of Medicine, Atlanta. GA
12/2005 – 08/2009	Associate Professor (tenured) of Internal Medicine, University of Michigan Medical School, Ann Arbor, MI
09/2009 –	Professor of Internal Medicine (tenured), University of Michigan Medical School, Ann Arbor, MI

06/2011-	Frederick G. L. Huetwell Professor of Cardiovascular Medicine, University of Michigan Medical School
07/2012-	Director, Center for Advanced Models for Translational Sciences and Therapeutics
07/2012-	Vice-Chair for Basic and Translational Research, and Professor in the Department of Cardiac Surgery
03/2014-	Professor of Physiology, University of Michigan Medical School, Ann Arbor, MI
07/2014-	Professor of Pharmacology, University of Michigan Medical School, Ann Arbor, MI
01/2019-	Professor of Department of Medicinal Chemistry, University of Michigan School of Pharmacy, Ann Arbor, MI

RESEARCH INTERESTS

My research in vascular medicine focuses on elucidating the molecular basis of obesity/diabetes-induced cardiovascular diseases (CVD) and on developing new drugs/technologies to study and treat diabetes and CVD.

GRANT SUPPORT

Ongoing projects

T32HL166113 (Chen, Contact PI, MPIs: Ailawadi and Likosky) 01/01/2023-12/31/2027
NIH/NHLBI

Surgeon Scientist Training in Cardiac Diseases

The goal of this training grant is to prepare the next generation of exceptional surgeon-scientists to tackle the most pressing scientific questions in CVD.

R01-HL169976 (MPIs: Chen, Contact PI / Han) NIH/NHLBI 04/01/2024-03/31/2028.

Targeted editing of ASGR1 for cardiovascular diseases

Major Goals: The overall goal of this project is to develop a controllable gene editing based therapy for cardiovascular diseases by targeting ASGR1.

R01-HL159871 PI (Chen) 04/01/2022-03/31/2026
NIH/NHLBI

Browning of perivascular adipose tissue protects against thoracic aortic aneurysm

Major Goals: This work will accelerate clinical translation of a nitro-fatty acid-based treatment for TAA targeting PVAT homeostasis with this new class of drugs, currently on clinical trials.

R01-HL159900 (MPIs: Chen, Contact PI / Han) 07/01/2021-06/30/2025
NIH/NHLBI

Development of gene editing based therapy for cardiovascular diseases

Major Goals: Developing gene-editing approaches to target ApoC3 for treating cardiovascular diseases.

R01-HL162294 (Chen, Contact PI MPI: Garcia-Barrio, M) 07/01/2022-06/30/2026
NIH/NHLBI

Nitro-Fatty Acids and Cardiovascular Disease

Major Goals: To define vascular protective nature of TFEB-GPNMB pathway and establish the feasibility of an oral therapy aimed at enhancing NO₂-CLA endogenous production for the treatment of atherosclerosis.

R01-HL109946 Chen (PI) 09/01/2019-07/31/2028
NIH/NHLBI

Using genetics to discover mechanisms of myocardial infarction

The goal of this R01 proposal is to uncover biological mechanisms underlying association at known CAD and MI loci to provide insight into treatment and prevention of cardiovascular disease.

R01-HL147527 Chen (PI) 09/01/2019-07/31/2023
NIH/NHLBI

IDOL and dyslipidemia in cardiovascular diseases

To determine that increased LDLR through inhibition of IDOL will result in enhanced LDL-C clearance, reduced TC and reduced atherosclerosis in rabbits.

R01 HL134569 Chen (PI) 04/01/2017-03/31/2025
NIH/NHLBI

KLF14 and Atherosclerosis

To understand the function and underlying mechanism of KLF14 in atherosclerosis and develop novel therapy for atherosclerosis by targeting KLF14.

R01-HL164416 Chen (Co-I), PI (Tang) 07/01/2022-06/30/2027
NIH/NHLBI

Targeting Immune-Responsive Gene 1 (Irg1) and Itaconate for Cardioprotection of the Donor Heart for Transplantation

Major Goals: To determine the mechanism by which Irg1 and its product itaconate mediate its cardioprotective effects on donor hearts.

R01- HL166140 Chen (Co-I), PI (Tang) 12/01/2022-11/30/2026
NIH/NHLBI

Targeting Mineralocorticoid Receptor Condensates to Optimize Donor Heart Preservation

Major Goals: To determine the mechanism by which MR mediates its cardioprotective effects on donor hearts.

R01-HL127564 Chen (Co-I), PI (Peloso) 07/01/2021-06/30/2025

NIH/NHLBI

Using Genetic Variation to Study Biology of Blood Lipids & Coronary Heart Disease

Major Goals: T The goal of this proposal is to study the human genetics of an intermediate modifiable trait for preventing the leading cause of death and provide critical advancements toward novel therapeutics and near-term clinical practice.

R01HL151776 Chen (Co-I), PI: (Yang)

05/01/2020-4/30/2025

NIH/NHLBI

Defining mechanisms of aortic root aneurysm in Loeys-Dietz syndrome using induced pluripotent stem cells and genome editing

To define that mutations in TGFBR1 or SMAD3 will disrupt SMC differentiation and thus decrease SMC contractile activity and secretion of extracellular matrix, resulting in aortic aneurysm.

AHA Career Development Grant (PI: ienglam Lei)

7/1/2022 – 6/30/2025

Mineralocorticoid receptor condensates in donor heart preservation and transplantation

Role: Mentor

AHA Career Development Grant (PI: Guizhen Zhao)

1/1/2023 – 12/31/2025

The Role of BAF60c in Atherosclerosis

Role: Mentor

AHA Career Development Grant (PI: Liu Liu)

4/1/2024 – 3/31/2027

Crotonylation of Histones and Proteins Mediated by ACSS2 Enhances Heart Protection After Myocardial Injury

Role: Mentor

AHA Predoctoral Scholarship (PI: Hongyu Liu)

1/1/2024 – 12/31/2025

The Roles of Smooth Muscle Cell SMARCD2 in Abdominal Aortic aneurysm

Role: Mentor

AHA Predoctoral Scholarship (PI: Zhenguo Wang)

1/1/2024 – 12/31/2025

RDM16-Mediated Browning in Perivascular Adipose Tissue Inhibits Aortic aneurysm

Role: Mentor

Completed Projects

R01-HL141891 Chen (Co-I), PI (Yang)

04/13/2018-3/31/2024

NIH/NHLBI:

Define the mechanisms of aortopathy in bicuspid aortic valve patients

Major Goals: To determine the molecular mechanisms responsible for the aortopathy associated with BAV and develop therapeutic strategies for aortic aneurysm in BAV.

No project grant # (PI: Chen) 04/26/2018-12/31/2023
 ATGC, Inc. \$201,998
Develop Rabbit Models for Immunotherapy Studies
 To develop a series of rabbit models for immunotherapy as ATGC requested.

AHA Predoctoral Fellowship (PI: Yang Zhao) 7/1/2021 – 6/30/2023
The Role of Smooth Muscle Cell BAF60c in Abdominal Aortic Aneurysm
 Role: Mentor

R01 HL136231 Chen (PI) 02/01/2013-11/30/2022
 NIH/NHLBI
Two-stage miRNA delivering scaffolds for patient-originated cells to regenerate blood vessels
 To determine that sustained and highly efficient DNA/RNA delivery into fibroblasts and SMCs on a 3D nanofibrous scaffold will regenerate a contractile SMC-laden functional vascular graft.

K08 HL130614 (PI: Yang) No-cost-extension 7/01/2016-6/30/2022
 NIH/NHLBI
Effect of mutations in the TGF-beta pathway genes on smooth muscle cell differentiation using patient derived iPSCs.
 Role: Mentor

No project number (PI: Chen) 09/01/2020-08/31/2022
 Genentech, Inc. \$193,500
Production of gene knockout and knockin rabbit models
 To generate the rabbit models as Genentech requested

No project # 8/05/2019-12/31/2021
 University of Michigan – Israel Partnership Collaborative Research Grant (MPI: Chen/Gottlieb)
Metabolic mechanisms of DT-109 protection against non-alcoholic fatty liver disease

AHA Predoctoral Fellowship (PI: Huilun Wang) 1/1/2020 – 12/31/2021
The role of myeloid Krüppel-like factor 14 in the development of abdominal aortic aneurysm
 Role: Mentor

AHA Postdoc Fellowship (PI: Guizhen Zhao) 1/1/2020 – 12/31/2021
The role of KLF11 in abdominal aortic aneurysm
 Role: Mentor

K99/R00 HL150233 (PI: Rom) 12/15/2019 – 05/31/2021
 NIH/NHLBI
Mechanisms of glycine-based therapy for atherosclerosis

Role: Mentor

R42-TR001711

6/01/2017-01/31/2022

NIH/ATGC, Inc. (PI: Kuroda)

University of Michigan (PI: Chen)

A nanoparticle delivery system for CRISPR/Cas9 based therapeutics

Major Goals: To determine that HP-based nanoparticle delivery system (HNDS) can be optimized for effective delivery of Cas9 elements both *in vitro* and *in vivo*.

Role: Co-Investigator

R01 HL137214

Chen (PI)

04/1/2017 - 03/31/2022

NIH/NHLBI

The Role of TM6SF2 in Cardiovascular Disease

Major Goals: To determine that endothelial TM6SF2 is required for atherosclerosis by activating ER stress and inflammation both gain- and loss-of-function strategies *in vivo* and *in vitro*.

R01-HL133162

7/05/2016-6/30/2020

Wayne State University/NIH (PI: Sun)

University of Michigan (PI: Xu)

A rabbit model of Cystic Fibrosis

Major Goals: To develop and systematically characterize a rabbit model carrying the most common mutation $\Delta F508$ at the endogenous CFTR locus, different from what is proposed in the R21 project where human CFTR $\Delta F508$ cDNA will be knocked-in to the Exon 1 of rabbit CFTR, for cystic fibrosis studies.

Role: Co-Investigator

AHA Predoctoral Fellowship (PI: Wenying Liang)

7/1/2018 – 6/30/2020

Role of Kruppel-like Factor 11 in Diabetic Thrombosis

Role: Mentor

No project #

8/05/2018-8/04/2020

University of Michigan – Israel Partnership Collaborative Research Grant (MPI:

Chen/Hayek)

Glycine and its biosynthetic enzyme serine hydroxymethyltransferase 2 (SHMT2 as anti-atherogenic targets

Major Goals: To test the central hypothesis that glycine, via its key biosynthetic pathway (SHMT2), is athero-protective by inhibiting SREBP2-mediated cholesterol biosynthesis.

R01HL068878

Chen (PI)

01/01/2002-12/31/2019

NIH/NHLBI

PPAR-gamma and vascular lesion formation

Major goals: To define the role of PPAR-gamma as an essential inhibitory modulator of vascular lesion formation and further characterize novel PPAR-gamma responsive target genes in VSMC that may function as endogenous inhibitors of vascular lesion formation.

Diapin Therapeutics

Examine the potency of Diapin derivatives

UM-Israel award Chen (PI) 06/15/2016-05/31/2017
Nitro-fatty acid-base cardiovascular therapeutics: Atheroprotective role for HDL-PON1

R01HL105114 Chen (PI) 07/01/2010-06/30/2015
Nitro-Fatty Acids and Nrf2 in Vascular Remodeling
NIH/NHLBI

The major goals of this project are to define the role of Nrf2-signaling as an essential inhibitory modulator of vascular lesion formation.

R01NS066652 Chen (PI) 09/01/2011-08/31/2015
NIH/NINDS

Mechanisms of Nitroalkene-Mediated Protection in Ischemic Stroke

The major goals of this project are to define the role of nitroalkene-signaling as an essential inhibitory modulator of ischemic stroke.

PAF07064 Chen (PI) 12/01/2013 -11/30/2015
Beijing ShuangLu Pharmaceutical Co., Ltd
Production of human blood-coagulation factor VIIa transgenic rabbits

PAF01118 Chen (PI) 07/01/2013 - 06/30/2015
Children's National Medical Center
Multiple gene mutations in mice using CRISPR-Cas systems

R01HL088391 Chen (PI) 12/01/2008-11/30/2013
NIH/NHLBI
CRP Biology and Vascular Disease

The major goals of this project are to define CRP functions in the vascular system using novel transgenic rabbits.

R01HL089544 Chen (PI) 04/01/2008-03/31/2013
NIH/NHLBI
Nitroalkenes and Blood Pressure Regulation

The goal of this proposal is to provide new insights to the development of nitroalkene derivatives with antihypertensive properties.

R44 RR023774 Chen (co-PI) 08/01/2010-03/31/2013
NIH/NHLBI

Derivation of Germline Competent Rabbit Embryonic Stem Cell Lines

Dr. Chen was the Co-PI for this grant (30%). He collaborated with Dr. Jack Xu at Renova to develop rabbit ES cells.

American Heart Association: Chen (PI) 01/01/2008-12/31/2012

Established Investigator Award 0840025N

PPARs and Vascular Disease

The goal of this proposal is to enhance Dr. Chen's research on PPARs in the cardiovascular system.

R01HL093196

Chen (co-PI)

04/01/2009- 03/31/2011

NIH/NHLBI

Nitrated Fatty Acids, Novel Anti-inflammatory Mediators in Allergic Airway Disease

Dr. Chen is the Co-PI for this proposed grant (5%). The goal of this grant is to define the role nitrated fatty acids in allergic airway disease. This grant has no overlapping with the current proposal.

R44HL091605

Chen (co-PI)

01/01/2008-05/31/2011

NIH/NHLBI

Novel Transgenic Rabbit Model for Cardiovascular Disease

Dr. Chen is the Co-PI for this proposed grant (40%). He will collaborate with Dr. Fuliang Du at Evergen to develop a novel method to produce transgenic rabbits.

AHA Postdoctoral Fellowship: PI (Luis Villacorta)

07/01/2008-06/30/2010

Mechanism of Nitroalkene-Induced Downregulation of AT1 Receptor in Vascular Smooth Muscle Cells

Role: Mentor

CVC Inaugural Grant

Chen (PI)

11/01/2008- 10/31/2010

Development of Patient-Specific Vessels for Vascular Therapy

University Of Michigan Cardiovascular Center Inaugural Grant fund

R21HL092421

Chen (PI)

04/01/2008-03/31/2010

MicroRNA and smooth muscle cell differentiation

This proposed grant is the initial phase of our long-term objective to define the role of microRNA in SMC differentiation.

R01HL075397

Chen (PI)

08/01/2004-07/31/2009

NIH/NHLBI

PPAR-delta in obesity-related vascular modeling

The major goals of this project are to define the role of PPAR-delta as the key modulator of obesity-induced vascular remodeling.

Role: Mentor

Takeda Pharmaceuticals: Chen (PI)

03/01/2007-07/31/2009

The Role of Pioglitazone in Vasculature

AHA Postdoctoral Fellowship: PI (Lin Chang)

07/01/2006-06/30/2008

Molecular Mechanism of Nitrolinoleic Acid (LNO2)-Activated PPARgamma and Its Role in Vascular Smooth Muscle Cells (VSMC) Growth

American Heart Association: PI (Taixin Cui) 07/01/2005-06/30/2007
A vasculoprotective Role for Nrf2 Through the Inhibition of Vascular Smooth Muscle Cell Proliferation
Role: Mentor

American Heart Association: Chen (PI) 07/01/2005-06/30/2007
The Role of Rad on Vascular Smooth Muscle Cell Apoptosis during Vascular Lesion Formation

R01HL69196 Chen (Co-PI) 12/01/2001-09/30/2006
NIH/NHLBI
The Vascular Transcriptome in Hypertensive Remodeling
Dr. Chen was the Co-PI for this proposed grant (40%). He collaborated with Dr. Gary Gibbons to develop the gene expression database of vascular smooth muscle cells in hypertension using SAGE and microarray technology.

Program Project S06GM008248 Chen (Sub-project PI) 08/01/2002-07/31/2006
NIH/NIGMS
The Role of PPARdelta in Vascular Smooth Muscle Cells
The major goals of this project are to define the role of PPAR δ as an essential promoter of vascular lesion formation, and further characterize novel PPARdelta-responsive target genes in VSMC.

R43RR020261 Chen (Co-PI) 12/01/2004-07/31/2006
NIH/NCRR
Novel Method to Produce Transgenic Rabbits
Dr. Chen is the Co-PI for this proposed grant (20%). He will collaborate with Drs. Fuliang Du at Evergen and Dr. Xiangzhong Yang at University of Connecticut to develop a novel method to produce transgenic rabbits.

American Heart Association Chen (PI) 07/01/2000-06/30/2002
The role of PPAR-alpha in vascular smooth muscle cells
The major goals of this project are to define the role of PPAR α as an essential inhibitory modulator of LTB₄-activated IL-8 gene transcription in VSMC and further characterize novel PPAR α -responsive target genes in VSMC that may function as endogenous inhibitors of atherogenesis.

S06GM08248 Chen (Sub-project PI) 08/01/2000-07/31/2002
NIH/NIGMS
Oxysterol-induced vascular genes: Roles of LXR α
The major goal of this project is to focus on examining role of LXR α (an orphan nuclear hormone receptor known as 'Liver X Receptor') as a determinant of vascular smooth muscle cell biology.

HONORS AND AWARDS

1991-1992	Danish Science Academy Fellowship
1991-1994	University of Western Ontario Graduate Research Fellowship
1994-1995	Ontario Graduate Scholarship
1995-1997	Juvenile Diabetes Foundation International Postdoctoral Fellowship
1998-2000	American Heart Association Fellowship
2005-	Honorary Professorship, Institute of Molecular medicine, Beijing University, Beijing, China
2007-	Honorary Professorship, Southern Medical University, Guangzhou, China
2007-	Honorary Professorship, Xiangya Medical College, Changsha, China
2008-2012	American Heart Association Established Investigator
2010	Honorary Professorship, Peking Union Medical College and Chinese Academy of Medical Sciences
2014	Elected member of American Society for Clinical Investigation
2015	UM Cardiovascular Center Outstanding Education Award
2016	Award to Promote Michigan and Israel Partnership for Research and Education
2017	AHA Ambassador for Personalized Medicine.
2018	Life-time Achievement Award, Chinese American Diabetes Association

PROFESSIONAL MEMBERSHIPS

1997-	AHA, Council on Basic Cardiovascular Sciences
1997-	AHA, Council on Arteriosclerosis, Thrombosis, and Vascular Biology
1999-	American Society for Biochemistry and Molecular Biology
1999-	American Diabetes Association
2005-	Academy of Cardiovascular Research Excellence
2009-	American Society for Pharmacology and Experimental Therapeutics
2014-	American Association for the Advancement of Science

EDITORIAL POSITIONS, BOARDS, AND PEER-REVIEW SERVICES

Invited Reviewer

American Journal of Physiology
American Journal of Pathology
Arteriosclerosis, Thrombosis, and Vascular Biology
Cellular and Molecular Biology
Cell Metabolism
Circulation
Circulation Research
Diabetes
FASEB Journal
Stem Cells

Nature Communication
Hypertension
Journal of Biological Chemistry
Journal of Clinical Investigation
Journal of Lipid Research
Molecular Pharmacology
PNAS

Editorial Board

2024-	Associate Editor for EngMedicine
2023-	Associate Editor for Medical Review
2023-	Editorial Board for Science China Life Sciences
2022-	Associate Editor for Global Translational Medicine
2020-	Deputy Editor for JCI Insight
2009-	Associate Editor for Cardiovascular Drugs and Therapy (CDT)
2009-	Editorial Board, Arteriosclerosis, Thrombosis and Vascular Biology
2014 - 2016	Editorial Board, Stem Cells International
2011 - 2017	Editorial Board, Journal of Biological Chemistry
2004 - 2008	Editorial Board, Journal of Geriatric Cardiology

Scientific Advisory Board

2023-	Chair, Scientific advisory board for Sanocare Nutrition and Health Center, Xiangya Medical School
2020-	Chair, Board of Directors, GeneToBe, Michigan
2019-2026	Scientific Consultant for Merck
2016-2024	Scientific advisory board member at the Shanghai Institute of Nutrition and Health
2017-	Chair, Board of Directors, ATGC Inc, Michigan
2019-	Board Director, Sinocare Diabetes Foundation (SDF)
2012-	Chair, Board of Directors, Diapin Therapeutics, Michigan

Grant Peer Review

2002	Ad hoc member for reviewing grants on cardiovascular disease, Pennsylvania Department of Health
2002	Ad hoc member for reviewing grants on cardiovascular disease, The Department of Veterans Affairs.
2004	Ad hoc member, NIH/NHLBI Study Section on Progression of CV Disease in Diabetes
2003- 2005	Member, AHA Vascular Biology Study Section (Southern and Ohio Valley).
2005	Ad hoc member, Peer Reviewed Medical Research Program, US Army Medical Research and Materiel Command (USAMRMC)
2005, 2006	Ad hoc member, NIH Vascular Cellular & Molecular Biology Study Section
2006, 2007	Ad hoc member, NIH Hypertension and Microcirculation Study Section
2008	Ad hoc member, peer review panel, Canadian Diabetes Association
2006-2009	Member, AHA (National), Lipoproteins, Lipid Metabolism & Nutrition Study Section
2007-2011	Member, NIH Vascular Cellular and Molecular Biology Study Section
2009	Member, NHLBI Program Project Study Section (ZHL1 CSR-J)
2009	Member, NIH hESC Challenge Grant Review (ZRG1 BDA-A)

2008-	Ad hoc member, peer review panel, Nature Science Foundation of China
2009-2011	Member, NIH SBIR/STTR review (ZRG1 EMNR)
2009-	Ad hoc member, peer review panel, Research Grants Council of Hong Kong
2010	Member, NIH Vascular Cellular and Molecular Biology Study Section (3)
2010	Ad hoc member, peer review panel, Nature Science Foundation of China (2)
2011	Member, AHA (National), Established Investigator Award Study Section
2012	Ad hoc member, NIH Hypertension and Microcirculation Study Section
2012	Ad hoc member, NIH SBIR/STTR review (ZRG1 EMNR)
2012	Chair, NIH Vascular and Hematology ZRG1 VH-D (02) M
2012	Chair, SCORE Grant Applications ZGM1 TWD-Y (SN)
2012	Chair, NIH Vascular and Hematology ZRG1 VH-D (03) M
2013	Member, NIH Special Emphasis Panel ZRG1VH-B02M
2013	Member, NIH Special Emphasis Panel ZRG1 VH-D03
2013	Member, peer review panel, Research Grants Council of Hong Kong
2013	Member, peer review panel, Chinese Nature Science Foundation Grants
2013	Member, peer review panel, Chinese Academy of Sciences
2013	Member, peer review panel, French Agence nationale de la recherche
2013	Chair, NIH Vascular and Hematology SS ZRG1 VH-D (90) S
2014	Member, peer review panel, NIMHD Health Disparities Research (R01)
2014	Member, peer review panel ZRG1 VH-A (03) M
2014	Chair NIH Vascular and Hematology SEP SS ZRG1 VH-D
2014	Chair NIH NIDDK Special Emphasis Panel R13 Study Section
2014	Member, peer review panel NIGMS P20 SS
2014	Member, peer review panel, Research Grants Council of Hong Kong
2014	Member, peer review panel, Chinese Nature Science Foundation Grants
2014	Member, peer review panel, Chinese Academy of Sciences
2015	Chair, NIH NIDDK ZDK1-GRB-7-J1 Study Section
2015	Member, peer review panel, Diabetes UK Foundation
2015	Member, peer review panel, NIMHD Health Disparities Research (R15)
2015	Member, peer review panel, NIH AICS
2015	Member, AHA EIA Panel, 2015/10
2015	Member, NIH ZRG1-VH-B-02 Study Section, 2015/11
2016	Chair, NIH NIGMS ZGM1-RCB-6-S2 Study Section
2016	Chair, NIH NIDDK ZDK1-GRB-7-M2 Study Section 2016/03
2016	Member, peer review panel, Research Grants Council of Hong Kong
2016	Member, peer review panel, Chinese Nature Science Foundation Grants
2016	Member, peer review panel, Chinese Academy of Sciences
2016	Member, NIH HM Study Section, 2016/02
2016	Member, NIH NIGMS ZDK1-GRB-7-M2 Study Section 2016/05
2016	Member, NIH NIGMS ZGM1-RCB-6-SC Study Section 2016/10
2017	Member, NIH NIDDK ZDK1-GRB-7-M1 Study Section 2017/02
2017	Member, NIGMS ZGM1-RCB-4-S2 Study Section 2017/06
2017	Member, NIH CSR CIDO Study Section 2017/06
2017	Member, peer review panel, Chinese Academy of Sciences
2017-	Member, peer review panel, Research Grants Council of Hong Kong
2017	Member, peer review panel, Chinese Nature Science Foundation Grants
2018	Member, NIH CSR ZRG1-CVRS-A-12 Study Section 2018/03

2018	Member, NIH NHLBI ZHL1-CSR-H-M4 Study Section 2018/04
2018	Member, NIH CSR ZRG1-VH-J-02 Study Section 2018/06
2018	Member, NIH VCMB Study Section 2018/10
2018	Member, peer review panel, Chinese Academy of Sciences
2019	Member, NIH ZDK1-GRB-7-M3 Study Section 2019/02
2019	Member, NHLBI ZHL1-CSR-X-M1 Study Section 2019/04
2019	Member, peer review panel, Chinese Academy of Sciences
2019	Member, AHA EIA Study Section 2019/02
2019	Member, NIH ZDK1 GRB-7 (O3) Study Section 2019/06
2019	Chair, NIH ZDK1-GRB-7-J3 2019/10
2020	Member, NIH ZRG1-VH-D-02 2020/01
2020	Member, NIH ZDK1-GRB-7-J3 2020/01
2020	Member, NIH CIDO 2020/06
2020	Member, NIH ZDK1-GRB-7-O3 2020/06
2021	Member, NIH NCATS-U01-ZTR1 NTU-7 2021/05
2022	Member, NIH ZRG1 VH-C 2022/07
2022	Member, NIH ZES1 LWJ-S RI 2022/10
2023	Member, NIH ZES1 ZRG1 F10C-D 2023/June
2024	Member, AHA EIA 2024/March

TEACHING

Teaching Service Courses

1. Biochemistry for Medical Students (12 Lectures per year)	2002-2005
2. Advanced Molecular Biology for Ph.D. Students (6 Lectures per year)	2001-2005
3. Advanced Cardiovascular Medicine for Ph.D. Students (4 Lectures per year)	2002-2005

Current Junior Faculty Members in Dr. Chen's Research Team:

1. Jifeng Zhang, Ph.D.	2018 - (Research Professor)
2. Jie Xu, Ph.D.	2019 - (Research Associate Professor)
3. Lin Chang, MD, Ph.D.	2014 - (Research Associate Professor)
4. Yanhong Guo, MD, Ph.D.	2018 - (Research Assistant Professor)
5. Dongshan Yang, Ph.D.	2020 - (Research Assistant Professor)
6. Xiaoqiang Huang, Ph.D.	2022 - (Research Investigator)
7. Ida Surakka, Ph.D.	2022 - (Research Investigator)
8. Guizhen Zhao, MD, Ph.D.	2023 - (Research Investigator)

Current Postdoctoral Fellows in Dr. Chen's Research Team

1. Zhenguo Wang, Ph.D	2020-
2. Kemao Xiu, Ph.D	2021-
3. Xiangbo Kong, MD	2021-
4. Wenjuan Mu, Ph.D	2022-
5. Yang Zhao, Ph.D	2022-
6. Zhuying Wei, Ph.D	2023-
7. Yeachan Lee, Ph.D	2023-
8. Yaozhong Liu, MD	2024-

- | | |
|--------------------------|-------|
| 9. Xiaokang Wu, MD, Ph.D | 2024- |
| 10. Xu Zhang, MD, Ph.D | 2024- |

Current PhD Students in Dr. Chen's Research Team

- | | |
|------------------|-------|
| 1. Zhouying Ren | 2020- |
| 2. Jun Zhou | 2021- |
| 3. Hongyu Liu | 2021- |
| 4. Yongjie Deng | 2022- |
| 5. Hongling Chen | 2022- |
| 6. Ruiyan Xu | 2023- |
| 7. Yalun Cheng | 2023- |

Current Undergraduates in Dr. Chen's Research Team

- | | |
|---------------|-------|
| 1. Ajah Hentz | 2024- |
|---------------|-------|

Trainees in the past years:

- | | |
|---|---|
| 1. Kouichi Tumura, MD, Ph.D.
Current position: | 1998-1999 (Postdoctoral Fellow)
Associate Chief of Renal Division
Department of Medicine
Fujisawa Municipal Hospital, Japan |
| 2. Qin Chen, MD, Ph.D.
Current position: | 1998-1999 (Postdoctoral Fellow)
Senior Scientist, Serono, MA, USA |
| 3. Zhiyong Yang, Ph.D.
Current position: | 1998-1999 (Postdoctoral Fellow)
Senior Scientist, Pfizer, USA |
| 4. Qian Wang, MD, Ph.D.
Current Position | 1999-2001 (Postdoctoral Fellow)
Chair and Professor of Surgery
Sun Yat-Sen University Medical School
Guangzhou, China |
| 5. Xiaojun Zhu, MD
Current Position | 2000-2003 (Postdoctoral Fellow)
Associate Professor of Biochemistry
Peking University Medical School
Beijing, China |
| 6. Mingui Fu, MD, Ph.D.
Current Position | 2000-2003 (Postdoctoral Fellow)
Assistant Professor
Molecular biology and Microbiology Department
Burnett College of Biomedical Sciences
University of Central Florida
Orlando, FL 32816 |
| 7. Yiming Lin, MD, Ph.D. | 2001-2005 (Postdoctoral Fellow) |

Current Position	Assistant Professor Yerkes National Primate Research Center Emory University School of Medicine Atlanta, GA
8. Lingjia Qian, MD, Ph.D. Current Position:	2004 (Visiting Professor) Director Institute of Health and Environmental Medicine 1 Dali Road, Tianjin, China
9. Changyong Xue, MD Current position:	2005 (Visiting Professor) Chairman, Department of Nutrition Beijing General Hospital Beijing, China
10. Sharon Francis-David, PhD Current Position:	2004 - 2006 (Supported by the NIH/NHLBI grant for mentoring a minority scientist) Assistant Professor of Medicine Morehouse School of Medicine
11. Methode Bacanamwo, Ph.D Current Position:	2002 -2005 (Supported by the NIH/NHLBI grant for mentoring a minority scientist) Scientific Review Officer Center for Scientific Review National Institutes of Health Bethesda, MD.
12. Taixing Cui, MD, Ph.D. Current Position:	2003 – 2007 (Postdoctoral Fellow/Junior Faculty) Assistant Professor of Department of Cell & Developmental Biology & Anatomy University of South Carolina School of Medicine
13. Luis Villacorta Perez, Ph.D. Current Position:	2004 -2008 Research Assistant Professor Cardiovascular Research University of Michigan Ann Arbor, MI
14. Dong Liu, MD Current Position:	2003 – 2004 (Postdoctoral Fellow) Assistant Professor of Physiology Morehouse School of Medicine
15. Chen Xiong, MD Current Position	2002 – 2005 (Postdoctoral Fellow) Scientist Principe Felipe Centro de Investigacion C/ E.P. Avda. Autopista del Saler

46013 Valencia, Spain.

16. David Myles
Current Position 2000-2002 (Undergraduate Student)
MD/Ph.D Student at Yale University Medical School
17. Kefeng Xu, MD 2003 - 2006 (Postdoctoral Fellow)
18. Xiaoming Zhang, MD 2006 - 2007 (Postdoctoral Fellow)
19. Tomonaga Ichikawa, Ph.D. 2005 – 2007 (Postdoctoral Fellow)
20. Lingyun Jia, Ph.D 2006 - 2008 (Postdoctoral Fellow)
21. Lauren Graham, Ph.D. 2003 – 2006
22. Isfahan Chambers, Ph.D. 2004 – 2006
23. Farron L. McIntee 2002 – 2005 Undergraduate Student
24. Roosevelt Faulkner 2002 – 2004 Undergraduate Student
25. Huarong Huang, Ph.D.
Current Position: 2007 - 2010
Associate Professor
Institute of Development and Regeneration
Hangzhou Normal University. Hangzhou, China
26. Zhen Deng, MD
Current Position: 2007 - 2010
Neurologist,
Department of Neurology, Nanfang Hospital
Southern Medical University, Guangzhou, 510515,
China
27. Xiaochun Tang, PhD
Current Position 2008 - 2010
Assistant Professor
College of Animal Husbandry and Veterinary Medicine
Jilin University. Changchun, China
28. Xuan Sun, MD
Current Position: 2007 – 2009
Assistant Professor
Institute of Reproductive and Stem Cell Engineering
Central South University. Changsha, 410078, China
29. TzuAn Lin, Ph.D.
Current Position: 2008 – 2010

Department of Animal Science
National Chung Hsing University. Taichung, Taiwan
30. Raquel Ritchie, Ph.D.
Current Position: 2008 - 2010
Instructor, Biochemistry and Molecular Biology
Michigan State University
31. Kun Yang, MD
Current Position: 2007- 2009
Res. Lab Specialist Associate, Hematology

	University of Michigan
32. Kae Nakamura, Ph.D.	2009 - 2011
33. Milton H. Hamblin, Ph.D. Current Position:	2006 - 2011 Assistant Professor, Pharmacology Tulane University School of Medicine, New Orleans, LA
34. Changqing Xie, MD, Ph.D. Current Position:	2005 - 2012 Assistant Professor of Medicine University of Virginia School of Medicine
35. Ling Liu, M.D. Current Position:	2011 - 2012 Associate Professor of Medicine Xiangya Medical School
36. Lijie Sun, MD, Ph.D	2012 - 2013 Assistant Professor of Medicine Peking University Medical School
37. Li Qin, MD, Ph.D	2012 - 2013 Associate Professor of Pharmacology Southern China University Medical School
38. Liyun Yuan, Ph.D	2012 - 2014 Research Scientist Shanghai Bioinformatics Center
39. Yongyu Wang, Ph.D	2012 - 2014 Assistant Professor of Pharmacology University of Illinois at Chicago Medical School
40. Zhou Zhou, MD, PhD	2012-2014 Scientist NIDDK, NIH
41. Jingyan Liang, MD, Ph.D	2013 - 2014 Professor of Anatomy Dean of Basic Sciences Yangzhou University Medical School
41. Nick Brown, Ph.D	2013-2014 Scientist of Clinical Biochemistry University of Chicago Medical School
42. Bo Yang, MD, Ph.D.	2011 – 2014

	Assistant Professor of Cardiac Surgery University of Michigan Medical Center
43. Kejie Yin, MD, Ph.D.	2008 -2015 Assistant professor of Department of Neurology University of Pittsburgh Medical School
44. Ji Zhang, Ph.D.	2009 - 2015 University of Southern California
45. Yuan Li, PhD.	2014- 2015 University of Copenhagen, Denmark
46. Laiyuan Wang, MD, Ph.D	2015- 2016 Associate Professor of Cardiovascular Medicine Fuwai Hospital Chinese Academy of Medical Sciences
47. Zhen Gao, Ph.D.	2015- 2016 Baylor Medical School
48. Will Xiong, MD	2014-2016 Cardiac Surgery, Xiangya Medical School
49. Lunchang Wang, MD	2014-2016 Vascular Surgery, Xiangya Medical School
50. Jiao Jiao Ph.D	2012-2016 VP for Stem Cell Research, Gan & Lee Pharmaceutical
51. Bilian Liu, MD, Ph.D.	2015-2017 Assistant Professor of Cardiology, Xiangya Medical School
52. Yin Li, MD, Ph.D.	2015-2017 Associate Professor of Physiology, Peking University Health Science Center
53. Hiroyuki Hirai, Ph.D.	2014-2018 Research Assistant Professor, Pediatrics Department Northwestern University Medical School
54. Luan Wen, Ph.D.	2016-2018 Assistant Professor of Biochemistry, Shenzhen Advance Institute, Chinese Academy of Sciences
55. Jianxue Ruan, Ph.D.	2016-2018

	Assistant Professor of Animal Sciences, Central China Agriculture University
56. Tomonari Koike, Ph.D.	2016-2020 Assistant Professor of Molecular Pathology University of Yamanashi School of Medicine Japan
57. Die Hu, MD, Ph.D.	2017-2018 Assistant Professor Cardiology Department, Xiangya 2 nd Hospital Xiangya Medical School, South China University
58. Ziyi Chang, MD	2016-2019 Assistant Professor, Pathology Department, Sino-Japan Friendship Hospital, Beijing
59. Yanbo Fan, MD, Ph.D.	2008 – 2019 Assistant Professor, Cancer Biology Department University of Cincinnati Medical School
60. Luis Villacorta Perez, Ph.D.	2004 - 2020 Associate Professor, Physiology Department Morehouse School of Medicine
61. Brooke Pallas, Ph.D	2018-2020 Assistant Professor, ULAM University of Michigan
62. Tomonari Koike	2016-2020 Assistant Professor of Pathology, University of Yamanashi, Japan
63. Jinjian Sun	2017-2020 Xiangya Hospital, Changsha, China
64. Yui Koike	2016-2020 University of Yamanashi, Japan
65. Jun Song	2013-2021 Professor of Animal Sciences, Northeast Agricultural University
66. Linyun Ma, Ph.D	2017- 2021 Massachusetts General Hospital

67. Oren Rom, Ph.D., RD	2017- 2021 Assistant Professor of Pathology Louisiana State University Health Shreveport
68. Yonghong Luo, MD	2019-2021 Cardiologist, Xiangya Second Hospital, Changsha, China
69. Yuhao Liu, MD	2018-2021 Nephrologist, Peking Union Hospital, Beijing, China
70. Wenying Liang, MD, PhD	2015-2021 Postdoctoral Fellow, Michigan Medicine
71. Huilun Wang, MD, PhD	2016-2021 Postdoctoral Fellow, Michigan Medicine,
72. Yifei Sun, PhD	2019-2022 Nanjing Medical School, Nanjing, China
73. Haocheng Lu, MD, PhD	2014-2022 (2014-2019 PhD, 2019-2022 Postdoc) Assistant Professor of Physiology Southern University of Science and Technology, China
74. Minerva Garcia-Barrio, PhD	2018-2022 (Junior Faculty) Research Assistant Professor of Internal Medicine University of Michigan Medical School
75. Cao Xue, MD, Ph.D	2020-2023 Postdoctoral Fellow Resident, Rochester University Medical School

COMMITTEE, ORGANIZATIONAL, AND ADMINISTRATIVE SERVICES

1999-2005	Founder of Atlanta Vascular Research Organization
2002-2004	Co-Director, Functional Genomics Center, Morehouse School of Medicine
2002-2004	Member, Ph.D. Admissions Committee, Morehouse School of Medicine
2002-2005	Chair, Subcommittee of Administration and Business, Committee of the Faculty Assembly, Morehouse School of Medicine
2002-2005	Director, Human Embryonic Stem Cell Core Facility, Morehouse School of Medicine
2002-2005	Director, Adenoviral Vector Core, Morehouse School of Medicine
2006-2008	Secretary General, the Academy of Cardiovascular Research Excellence
2010-	Program Leader, UM China Cardiovascular Medicine Initiative
2012-	Director, Center for Advanced Models for Translational Sciences and Therapeutics
2012-	Chair, Board of Directors, Diapin Therapeutics, Michigan
2012-	Vice-Chair for Basic and Translational Research, Department of Cardiac Surgery
2013-2017	Mentor at UM R01 Boot Camp

2013-2017	PhD Admission committee, University of Michigan Medical School
2015-2018	Program committee member for AHA-ATVB Council annual meetings
2015-	Associate Director, UMHS-PUHSC (University of Michigan Health System-Peking University Health Science Center) Joint Institute for Translational and Clinical Research
2014-	Director, UMHS-Xiangya Physician Scientist Training Program
2016-2017	President, The University of Michigan Association of Chinese Professors
2017-	Chair, Board of Directors, ATGC Inc, Michigan
2019-2021	ATVB Scientific & Clinical Education Lifelong Learning Committee
2020-	Chair, Board of Directors, GeneToBe, Michigan
2020-	University of Michigan International Activities Assessment Committee
2020-	Deputy Editor for JCI Insight
2021-2026	Scientific consultant for Merck
2022-2024	Vice Chair Program committee for AHA Annual Scientific Sessions-ATVB Council
2024-2026	Chair Program committee for AHA Annual Scientific Sessions-ATVB Council

VISITING PROFESSORSHIPS, SEMINARS, & EXTRAMURAL INVITED PRESENTATIONS

National Invited Lectures

11/2000	"Nuclear Receptor and Cardiovascular Medicine". Department of Biology, Morehouse College, Atlanta, GA
02/2002	"PPARs and Vascular Biology". MBRS Seminar, Morehouse School of Medicine
03/2002	"PPARs and Vascular Biology", Atlanta Vascular Biology Organization Seminar
03/2002	"PPARs and Vascular Biology", Department of Pathology, University of Alabama, Birmingham
04/2002	"The role of PPAR-gamma in Vasculature", Department of Obstetrics & Gynecology, Emory University
06/2002	"The role of PPAR-gamma in Vasculature", Atherogenics, Inc. Atlanta
10/2002	"The role of PPAR-gamma in Vasculature", National Institute on Aging, NIH
02/2003	"The Update of PPAR-gamma in Vasculature", Atherogenics, Inc
03/2003	"PPARs and Vascular Biology", University of Alabama at Birmingham, Center for Free Radical Biology
04/2003	"The role of PPAR-gamma in Vasculature", Cardiology Grand Rounds, Emory University, Atlanta GA
07/2003	"The role of PPAR-gamma in Vasculature", University of Connecticut Cardiology Grand Rounds
10/2003	"The role of PPAR-gamma in Vasculature", National Heart, Lung and Blood Institute, NIH
04/2004	"PPARs and the Cardiovascular System", University of Alabama at Birmingham, Department of Nutrition
11/2004	"Novel Transgenic Rabbit Models for Cardiovascular Research". Center for Regenerative Biology, University of Connecticut, Storrs, CT
12/2004	"The role of Rad in Vasculature", University of California at Davis

- 02/2005 "The biology of Nitro-Lipids", Baylor College of Medicine Cardiology Grand Rounds
- 02/2005 "The biology of Nitro-Lipids", University of Kentucky Cardiovascular Grand Rounds
- 05/2005 "PPARs and the Cardiovascular System", XXVII Annual Meeting of the International Society for Heart Research, New Orleans, LA
- 09/2005 Co-Chair, South Eastern Lipid Research Conference at Callaway Gardens, GA
- 11/2005 "Metabolic Syndrome: A Disease for the 21st Century", Invited Lecture for Endocrine City-Wide Conference at University of Minnesota, Minneapolis
- 04/2006 "Nitro-Lipids, PPAR and the Cardiovascular System", Department of Physiology and Biophysics, University of Louisville School of Medicine
- 08/2006 "Nitro-Lipids and PPARs in Metabolic Syndrome", Endocrine Grand Rounds, University of Virginia School of Medicine, Charlottesville, VA
- 08/2006 "Nitro-Lipids and PPARs in the Cardiovascular System", Department of Pharmacology, Temple University, Philadelphia
- 08/2006 "Nitro-Lipids and PPARs in the Cardiovascular System", Department of Pharmacology, Michigan State University, East Lansing, MI
- 10/2006 "Nitro-Lipids and PPAR in Metabolic Syndrome", Van Andel Research Institute, Grand Rapids, MI 49503, VA
- 12/2006 "Nitro-Lipids and PPAR in Metabolic Syndrome", Cardiovascular Center, Texas Southwestern University, Houston, TX
- 01/2007 "Nitro-Lipids and PPAR in Metabolic Syndrome" Grand Rounds, Department of Medicine, Wayne State University, Detroit MI 48201
- 03/2007 "Nitro-Lipids and PPAR in Metabolic Syndrome", Endocrinology Grand Rounds, Department of Medicine, University of Oklahoma Health Science Center
- 04/2007 "SMC derived from human ES cells", Center for Regenerative Biology University of Connecticut, Storrs, CT
- 09/2007 "PPAR-gamma and Cardiovascular Diseases, Discovery Lecture Series, The Ohio State University Medical Center, Columbus, OH
- 02/2008 "Rosiglitazone Controversy in diabetic cardiovascular complications", Department of Pediatrics, Georgetown University Medical Center
- 05/2008 "Nitro-Lipids and PPAR in the cardiovascular system", Department of Physiology, University of Tennessee Health Science Center, Memphis
- 09/2008 "Nitro-Lipids and PPAR in the cardiovascular system", Department of Gene and Cell Medicine, Mt. Sinai School of Medicine, New York
- 10/2009 "Potential Application of Induced Pluripotent Stem Cells in Treatment of Vascular Diseases"" at the College of Vet Med within University of Georgia.
- 10/2009 "Nitro-lipids, PPARs, and the Cardiovascular System", Cardiovascular Research Institute, Morehouse School of Medicine, Atlanta
- 12/2009 "PPAR-gamma and Vascular Disease", The University of Tennessee College of Veterinary Medicine at Knoxville, TN
- 02/2010 "Nitro-fatty acids, PPAR-gamma and Metabolic Syndrome", Grand Round of Endocrinology, Wayne State University, MI
- 03/2010 "The Future of PPAR γ drugs: Why TZD increases cardiovascular risk", Endocrinology Grand Round at Wayne State University, Detroit

- 08/2010 "The future of TZD, from lab bench to bedside" at the Davis Heart and Lung Research Institute, Ohio State University College of Medicine
- 10/2010 "Nitro-fatty acids and PPAR-gamma in the cardiovascular system" at the Department of Physiology, Tennessee Health Science Center, Memphis
- 02/2011 "Novel Transgenic Pigs for Translational Medicine" at the Department of Critical Care, University of Pittsburgh Medical School, Pittsburgh
- 05/2011 "Engineering patient-specific vessels for potential vascular therapy" at the College of Vet Med within University of Georgia
- 09/2011 "Nitro-fatty acids and PPAR-gamma in the cardiovascular system" at the Environmental Health Sciences, College of Public Health, The Ohio State University
- 09/2011 "Novel Transgenic Pigs/Rabbits for Translational Medicine, Department of Biochemistry, Wayne State University, Detroit
- 01/2012 "Novel Transgenic Pigs/Rabbits for Translational Medicine", a seminar speaker for Systems Biology and Translational Medicine, College of Medicine Texas A&M Health Science Center in Temple
- 02/2012 "Nitro-fatty acids and PPAR-gamma in the cardiovascular system" at the Department of Pharmacology & Toxicology, Boonshoft School of Medicine, Wright State University, Dayton, OH
- 02/2012 "Novel Transgenic Pigs/Rabbits for Translational Medicine" at the Department of Physiology and Pharmacology, School of Medicine West Virginia University, Morgantown, WV
- 03/2012 Novel Knockout, Knockdown, and Transgenic Pig and Rabbit Models for Cardiovascular Research, NIH/NHLBI
- 05/2012 "KLF Transcription Factors in the Modulation of Vascular Biology" Mayo Clinic, Division of Gastroenterology and Hepatology.
- 06/2012 "Novel Transgenic Pigs/Rabbits for Translational Medicine" Brown University Cardiovascular Center
- 11/2012 Chair the scientific Session of "Peri-vascular and Vascular Adventitia Biology" in AHA Annual Scientific Meeting at Los Angeles
- 11/2012 "Novel Knockout, Knockdown, and Transgenic Pig and Rabbit Models for Cardiovascular Research", Northwestern University Medical School, Cardiovascular Center
- 12/2012 "Novel Knockout, Knockdown, and Transgenic Pig and Rabbit Models for Cardiovascular Research", Tulane University Medical School, Cardiovascular Center
- 09/2013 "Novel Knockout, Knockdown, and Transgenic Pig and Rabbit Models for Cardiovascular Research", Northeast Ohio Medical University
- 04/2014 Invited Speaker on "The role of perivascular adipose tissue in atherosclerosis and hypertension", 2014 EB meeting San Diego
- 04/2014 Invited Speaker on "Novel Knockout, Knockdown, and Transgenic Pig and Rabbit Models for Translational Research and Drug Development", 2014 EB meeting San Diego
- 11/2014 Invited Speaker on "The Role of Perivascular Adipose Tissue in Atherosclerosis and Hypertension", American Heart Association Annual Scientific Meeting 2014 in Chicago.

- 11/2014 Invited Speaker on “Advancing Lipid GWAS Discoveries to Innovative Targets for CVD”, Chinese American Academy of Cardiology Annual Meeting in Chicago
- 10/2015 Invited Speaker on “Nitro-fatty acids, a new class of anti-inflammation lipid” International Symposium on Inflammation and Health in Orlando.
- 11/2015 “Advancing Lipid Gene Discoveries to Innovative Targets for CVD”, Davis Heart and Lung Research Institute, Ohio State University College of Medicine
- 11/2015 Invited Speaker on “Creation of iPS cell-derived smooth muscle cells” American Heart Association Annual Scientific Meeting 2014 in Chicago.
- 03/2016 “Larger Animal Model for Cardiovascular Tissue Engineering” NIH Progenitor Cell Biology Consortium at The University of Alabama at Birmingham
- 03/2016 “Smooth Muscle Cells for Cardiovascular Tissue Engineering” Cardiovascular Tissue Engineering (CVTE) Symposium at The University of Alabama at Birmingham
- 03/2016 “Advancing Lipid Gene Discoveries to Innovative Targets for CVD” Department of Pharmaceutical Sciences, Wayne State University
- 08/2016 KLF11 and KLF14 in Cardiovascular Diseases and Stroke, 2016 FASEB Science Research Conferences in Snowmass, Colorado
- 08/2016 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Disease, Department of Pharmacology, Virginia Commonwealth University
- 09/2016 Novel Transgenic Rabbit and Pig Models for Cardiovascular Research and Drug Development, Creighton University Clinical & Translational Science
- 11/2016 Creation of iPS cell-derived smooth muscle cells: The Promise of Vascular Disease Modeling, University of Georgia College of Veterinary Medicine, GA
- 11/2016 Advancing Lipid Gene Discoveries to Innovative Targets for CVD” Morehouse School of Medicine
- 11/2016 Nitro-Fatty Acids, a New Class of Anti-Inflammation Lipids, American Heart Association Annual Scientific Meeting 2016 in New Orleans.
- 11/2016 Nuclease Mediated Gene Editing in Rabbits, American Heart Association Annual Scientific Meeting 2016 in New Orleans.
- 03/2017 Advancing Lipid Gene Discoveries to Innovative Targets for CVD, University of Missouri School of Medicine
- 04/2017 Roles of Perivascular Adipose Tissue in Hypertension and Atherosclerosis, Experimental Biology 2017, Chicago
- 04/2017 Advancing Lipid Gene Discoveries to Innovative Targets for CVD, Mayo Clinic in Jacksonville for Russell and Elizabeth Bunday Visiting Professorship
- 05/2017 “Novel Rabbit Models for Cardiovascular Research, Maine Medical Center Research Institute
- 10/2017 Advancing Lipid Gene Discoveries to Innovative Targets for CVD, Yale Center for Vascular Biology & Therapeutics, Yale University
- 11/2017 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Diseases, Department of Pharmacology, Michigan State University
- 09/2018 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Diseases, Department of Surgery, University of Wisconsin at Madison.

- 10/2018 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Disease, Department of Cell Biology, SUNY Downstate Medical Center
- 11/2018 Nitration of Unsaturated Fatty Acids: from Bench to Bedside, American Heart Association Annual Scientific Meeting 2018 in Chicago
- 09/2019 Nitro-fatty Acids: from Bed to Bench back to Bed, Nutrition and Food Science Distinguished Seminar Series, Texas A&M University
- 09/2019 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Disease, McAllister Heart Institute, University of North Carolina
- 11/2019 Adipose Tissue and Smooth Muscle Cell Cross-Talk, American Heart Association Annual Scientific Meeting 2019 in Philadelphia
- 12/2019 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Disease, Department of Physiology, Wayne State University
- 01/2020 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Disease, Vascular Biology Center, Augusta University
- 11/2021 Transgenic Rabbits for Cardiovascular Research and Drug Development, University of Cincinnati Medical School
- 02/2023 Nitro-fatty Acids from Bed to Bench back to Bed", Diabetes Center at Columbia University
- 08/2023 Advancing Causal Gene Discoveries to Innovative Targets for CVD Frontiers in Vascular Biology and Diseases International Conference at University of Wisconsin-Madison
- 10/2023 Nitro-fatty Acids from Bed to Bench back to Bed, The 1st Conference Biopharmaceutical Innovation and Entrepreneurship in Philadelphia
- 11/2023 Mechanisms underlying the benefits of GLP-1 RAs, AHA Annual Scientific Sessions 2023, Philadelphia, PA
- 01/2024 Transgenic Rabbits for Cardiovascular Research and Drug Development, Herman B. Wells Center for Pediatric Research, Indiana University School of Medicine
- 01/2024 Transgenic Rabbits for Cardiovascular Research and Drug Development, Department of Biomedical Sciences, University of California, Riverside
- 01/2024 Transgenic Rabbits for Cardiovascular Research and Drug Development, Science of Medicine Grand Rounds at Mayo Clinic, Scottsdale, AZ 85259
- 02/2024 A Personal Journey for Translational Research and Drug Development, Seminar on Chinese American Diabetes Association
- 02/2024 DT-109 and its Beneficial Effects on Nonalcoholic Steatohepatitis in Nonhuman Primates. The 5th conference on PharmScience Research & Development, Boston, MA
- 03/2024 Adipose Tissue and Smooth Muscle Cell Cross-Talk, 2024 Keystone Symposia on Unraveling Vascular Layers to Understand Human Disease

International Invited Lectures

- 12/2003 "The role of PPAR-gamma in Vasculature", Department of Pathology, University of Tsukuba, Japan
- 12/2004 "PPARs and Nitro-Lipids" Department of Pathology, University of Tsukuba, Japan

- 03/2005 “Novel Mouse Models for PPAR-gamma Drug Development” The 3rd International Symposium on “PPARS EFFICACY AND SAFETY: From Basic Science to Clinical Applications” Monte Carlo, Monaco
- 08/2005 “Metabolic Syndrome, A Disease for the 21st Century” in the “Chinese Symposium for Medical Research Biomed & Cross-Knowledge Innovation” in Beijing International Meeting Center
- 10/2005 “New Concept of Treating Diabetes and Cardiovascular Complications” in Chinese Diabetes Society Congress 2005, Shanghai, China
- 02/2006 “Nitro-lipids, endogenous anti-inflammatory mediators”, Department of Pathology, University of Tsukuba, Japan
- 04/2006 “PPAR and Metabolic Syndrome,” The 1st Xiangya Diabetes/Immunology Symposium in Changsha, China
- 06/2006 “Nitro-lipids and the Cardiovascular System”, The 11th International Vascular Neuroeffector Mechanisms and Cardiovascular Pharmacology and Medicine Symposia in Suzhou University, China
- 07/2006 “Nitro-lipids, PPARs, and the Cardiovascular System”, Institute of Molecular Medicine, Peking University, Beijing, China.
- 04/2007 “Nitrated lipids: Novel anti-inflammatory signalling molecules in vasculature” The 2nd Xiangya International Diabetes Immunology Forum in Changsha, China
- 11/2007 “Human ES and SMC Differentiation”, Southern Medical University, Guangzhou
- 12/2007 “Nitro-lipids, PPARs, and Diabetes”, Xiangya Medical College, Changsha, China
- 12/2007 “Nitro-lipids, PPARs, and the Cardiovascular System”, Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan
- 12/2007 “Nitro-lipids, PPAR and Metabolic Syndrome”, Chang Gung Memorial Hospital, Linkou, Taiwan
- 12/2007 “SMC differentiation and vascular diseases”, Chang Gung University, College of Medicine, TaoYuan, Taiwan
- 03/2008 “PPAR-gamma in diabetic cardiovascular complication”, Conference on Creative Research Teams of Diabetes-Systems Biology, Shanghai Institutes for Biological Sciences
- 04/2008 “The Update of PPARgamma Drug Development” The 3rd Xiangya International Diabetes Forum in Naning, China
- 06/2008 “Rosiglitazone Controversy in diabetic cardiovascular complications”, Shanghai Institute of Nutrition, China
- 09/2008 “PPAR and Nitro-lipids in the Cardiovascular System” Taiwan Society of Lipids and Atherosclerosis, Taipei, Taiwan
- 09/2008 “PPAR and Nitro-lipids in the Cardiovascular System”, Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan
- 11/2008 “The Update of PPARgamma Drug Development”, in Chinese Diabetes Society Congress 2008, Xiamen, China
- 04/2009 “The Future of TZD, from Lab Bench to Bedside”, The 4th Xiangya International Diabetes Forum in Changsha, China
- 08/2009 “The Future of TZD, from Lab Bench to Bedside”, The 10th Symposium of Chinese Society of Arteriosclerosis in Hu-He-Hao-Te, Inner Mongolia

- 08/2009 "Potential Application of Induced Pluripotent Stem Cells in Treatment of Vascular Diseases" at the International Congress of Biochemistry and Molecular Biology Meeting in Shanghai
- 08/2009 The development of next generation of PPAR-gamma drugs" at the Center for Systems Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences.
- 08/2009 "Transgenic rabbits/pigs for cardiovascular medicine" at the 21st IUBMB and 12th FAOBMB International Congress of Biochemistry and Molecular Biology- Guangzhou Satellite Meeting
- 09/2009 "PPAR and Nitro-lipids in the Cardiovascular System", The National Laboratory of Medical Molecular Biology, Peking Union Medical College, Beijing
- 04/2010 "The Future of PPAR γ drugs: Why TZD increases cardiovascular risk?" The 5th Xiangya International Diabetes Forum in Changsha, China
- 04/2010 "Transgenic rabbits/pigs for translational medicine" at Hunan University of Chinese Medicine, Changsha, China
- 08/2010 "Engineering patient-specific vessels for potential vascular therapy" at the Frontier Institute of Science and Technology, Xi'an Jiaotong University, China
- 10/2010 "Transgenic rabbits/pigs for translational medicine" at Guangzhou Institute of Biomedicine and Health, China
- 10/2010 "Nitro-fatty acids and PPAR-gamma in the cardiovascular system" at Peking Union Medical College and Chinese Academy of Medical Sciences
- 11/2010 "The future of TZD, from lab bench to bedside" at the Diabetes System Biology Center, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences
- 05/2011 "Dysfunctional HDL and Atherosclerosis", Cardiovascular Research Center, Peking University
- 07/2010 "Nitro-lipids and Cardiovascular Diseases" at the Chinese Forum on Frontier of Atherosclerosis, Beijing, China
- 07/2011 "Transgenic Pigs/Rabbits for Translational Medicine", Metabolic Disease Center, Central South University, Changsha, China
- 07/2011 "Targeting novel lipids for developing new diabetic and cardiovascular drugs" The Chinese Biological Investigators Society Biannual Meeting, Zhangjiajie, China
- 12/2011 "Novel Transgenic Pigs/Rabbits for Translational Medicine", Beijing Forum of Cardiovascular Medicine sponsored by Natural Science Foundation of China.
- 04/2012 "Targeting novel lipids for developing new diabetic and cardiovascular drugs", The 7th Xiangya International Diabetes Forum in Changsha, China
- 04/2012 "Engineering patient-specific vessels for potential vascular therapy" Northeast Cardiovascular Forum (NCF), the 14th Annual Meeting in Shenyang, China
- 05/2012 "Engineering patient-specific vessels for potential vascular therapy" at the Oriental Congress of Cardiology, Shanghai, China
- 07/2012 "Engineering patient-specific vessels for potential vascular therapy" Renji Hospital, Shanghai, China
- 08/2012 "Nitro-fatty acids and PPAR-gamma in the cardiovascular system" at the China Heart Congress, Beijing

08/2012 "Nitro-fatty acids and PPAR-gamma in the cardiovascular system"
Cardiovascular Center, Kings College London, UK

05/2013 "Nutrients and Cardiovascular Disease Control" The 11th China Nutrition
Science Conference & International DRIs Summit in Hangzhou, China

05/2013 "Perivascular Adipose Tissue Biology and Cardiovascular Disease" Oriental
Congress of Cardiology, Shanghai, China

05/2013 "Novel Knockout, Knockdown, and Transgenic Pig and Rabbit Models for
Cardiovascular Research" Oriental Congress of Cardiology, Shanghai, China

12/2013 Chaired and Organized "Frontier of Metabolic Research and Translational
Medicine in Shanghai on December 9 and 10, 2013.

10/2013 "Advancing Lipid GWAS Discoveries to Innovative Targets for CVD" at the
Annual Meeting of China society of Atherosclerosis in Suzhou October 2013

10/2013 "Nitro-fatty acids and PPAR-gamma in the cardiovascular system" Southern
China University Medical School

10/2013 "Nutrients and Cardiovascular Disease Control" in the Institute for Nutritional
Sciences, Shanghai Institutes for Biological Sciences of Chinese Academy of
Sciences

10/2013 Novel Knockout, Knockdown, and Transgenic Pig and Rabbit Models for
Cardiovascular Research", Guangxi Medical School, Nanning, China

12/2013 "The role of perivascular Adipose Tissue in atherosclerosis and hypertension" at
the Frontier of Metabolic Research and Translational Medicine in Shanghai on
December 2013

02/2014 "Advancing Lipid GWAS Discoveries to Innovative Targets for CVD" at the
Department of Physiology, Peking University Health Sciences Center

05/2014 "Perivascular Adipose Tissue in Vascular Health and Disease: Friend or Foe?"
Oriental Congress of Cardiology, Shanghai, China

05/2014 "Advancing Lipid GWAS Discoveries to Innovative Targets for CVD" Oriental
Congress of Cardiology, Shanghai, China

06/2014 "Advancing Lipid GWAS Discoveries to Innovative Targets for CVD" Harbin
Medical University, China

07/2014 "Rabbit Models for CV Research and Drug Development" A keynote speaker for
International Rabbit Genome and Diseases Model in Japan, Kofu City

07/2014 "Advancing Lipid GWAS Discoveries to Innovative Targets for CVD" Yamanashi
University School of Medicine, Japan

07/2014 "The Update of Rabbit Genome", Shanghai International Symposium on Rabbit
Models

08/2014 "Advancing Lipid GWAS Discoveries to Innovative Targets for CVD" China Heart
Congress 2014, Beijing

08/2014 "Novel Transgenic Pig/Rabbit Models for CV Research" Jilin University College
of Animal Sciences, China

10/2014 "The role of Perivascular Adipose Tissue in hypertension and
Atherosclerosis" 3th International Conference on cardiovascular science in
Wuhan, China

10/2014 "Novel Transgenic Pig/Rabbit Models for CV Research" Institute of Translational
Medicine, Zhejiang University, China

04/2015 Invited Speaker on “Advancing Lipid Gene Discoveries to Innovative Targets for CVD”. The 3rd Yangtze River International Congress of Cardiology in Chongqing, China

04/2015 “Incretin-based treatments for type 2 diabetes: the past, present and future” in 10th Xiangya Diabetes Immunology, Changsha, China

07/2015 “Novel Transgenic Pig/Rabbit Models for CV Research” West China Hospital, Sichuan University, China

08/2015 “TM6SF2, a novel target for treating cardiovascular disease” China Heart Congress 2015, Beijing

09/2015 “Perivascular Adipose Tissue, Arterial Stiffness and Hypertension” Oriental Congress of Cardiology, Shanghai, China

09/2015 “Advancing novel gene targets for treating atherosclerosis” the 9th Oriental Congress of Cardiology, Shanghai, China

11/2015 “Novel Rabbit Models for Cardiovascular Research 6th Rabbit Biotechnology Meeting in Lyon, France

12/2015 “Nitration of unsaturated fatty acids: from signaling actions to diabetic and cardiovascular therapeutics” University of Toronto Medical School, Canada

12/2015 “Nitration of unsaturated fatty acids: from signalling actions to diabetic and cardiovascular therapeutics” Chinese Diabetes Society Annual Scientific Meeting, Suzhou

04/2016 “Nitration of unsaturated fatty acids: from signalling actions to therapeutics” future” in 11th Xiangya Diabetes Immunology, Changsha, China

04/2016 “Advanced technology for diabetes management” in 11th Xiangya Diabetes Immunology, Changsha, China

05/2016 “The update of perivascular adipose tissue in hypertension and atherosclerosis” the 10th Oriental Congress of Cardiology, Shanghai, China

05/2016 TM6SF2, a novel target for treating cardiovascular disease, the 4th Wuhan International Conference on Cardiometabolic Sciences in Wuhan, China

08/2016 “Advancing novel genes for innovative targets of cardiovascular diseases” China Heart Congress 2016, Beijing, China

09/2016 Advancing novel genes for innovative targets of cardiovascular diseases, the 1st Xiangya International Cardiovascular Forum, Changsha, China

10/2016 Advancing novel genes for innovative targets of cardiovascular diseases, 2016 China-US Translational Medicine Forum, Nanjing, China

11/2016 Nitro-fatty acids, a new class of anti-inflammation lipid, International Conference on Drug Discovery and Translational Medicines, Zhengzhou, China

11/2016 Nitro-lipids and cardiovascular and metabolic diseases, 2016 World Life Science Conference, Beijing, China

12/2016 Advancing novel genes for innovative Targets for CVD, Fuwai Hospital, Beijing

04/2017 Advancing Lipid Gene Discoveries to Innovative Targets for CVD, the 19th South China International Congress of Cardiology in Guangzhou

04/2017 Novel Rabbit Models for Cardiovascular Research, Sun Yat-Sen University of Medical Sciences in Guangzhou

04/2017 Transgenic Pig/Rabbit Models for CV Research, Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences

04/2017 Novel Rabbit Models for Cardiovascular Research, South China University Medical School, Hengyang, China

04/2017 Translational Research for Cardiovascular Medicine: The Past, Current and Future, Xiangya 2nd Hospital, Changsha, China

04/2017 Nitro-fatty acids: a new class of anti-inflammation lipids from signalling actions to diabetic and cardiovascular therapeutics, Wuhan International CV Metabolism Meeting, China

05/2017 Cross-Talk between Adipose Tissue and the Cardiovascular System, the 11th Oriental Congress of Cardiology, Shanghai, China

06/2017 Translational Research for Cardiovascular Medicine: The Past, Current and Future, Peking University 2017 CV Symposium, Beijing, China

09/2017 Translational Research for Cardiovascular Medicine, Department of Cardiology, Nagoya University Graduate School of Medicine, Nagoya, Japan

12/2017 International Collaborations for Cardiovascular Medicine, Department of Cardiac Surgery, Xiangya Medical School, China

08/2018 TFEB: a novel regulator of cardiovascular disease, 2017 China Heart Congress, Beijing

08/2018 Rabbit models for translational research, Keynote Speaker for the 7th international conference on rabbit biotechnology, Kofu City, Japan

08/2018 Advancing Cardiovascular Research and Drug Discovery Using Novel Transgenic Rabbit Models Department of Molecular Pathology, University of Yamanashi, Japan

04/2018 Update of perivascular adipose tissue in hypertension and atherosclerosis, the 13th Xiangya Diabetes Immunology, Changsha, China

05/2018 Rabbit models for translational research, Department of Pharmacology, Hong Kong University

06/2018 Perivascular adipose tissue in vascular metabolism and diseases, the 12th Oriental Congress of Cardiology, Shanghai, China

06/2018 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Diseases, Cardiovascular Center, Xi'an Jiaotong University

06/2018 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Diseases, Fuwai Hospital, Beijing

12/2018 Nitro-fatty acids: from bed to bench and back to bed, Institute of Nutrition, Chinese Academy of Sciences, Shanghai

12/2018 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Diseases, Cardiovascular Center, Ruijin Hospital, Shanghai Jiaotong University

01/2019 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Diseases, Cardiovascular Center, Harbin Medical School, China

05/2019 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Diseases, Cardiovascular Center, Xiangya Medical School, Changsha, China

05/2019 Rabbit models for translational research, Nanjing Medical University, Nanjing, China

05/2019 Rabbit models for translational research, Yangzhou University Medical School, Yangzhou, China

06/2019 TFEB and Vascular Biology, the 13th Oriental Congress of Cardiology, Shanghai, China

10/2019 Nitro-fatty Acids: from Bed to Bench back to Bed, The 3rd Hospital of Peking University Health Science Centre

10/2019 International Collaboration on Cardiovascular Medicine, Peking University Health Science Centre

11/2019 Nitro-fatty Acids: from Bed to Bench back to Bed, The 2nd International Symposium on Diabetes and Obesity in Guangzhou, China

11/2019 Rabbit models for translational research, The 8th International Congress on Rabbit Biotechnology, Guangzhou, China

11/2020 Nitro-fatty Acids: from Bed to Bench back to Bed, Shanghai Jiao-Tong University Cardiology Forum & Translational Atherosclerosis Summit (TAS2020)

11/2021 “Translating Genomic Medicine to Potential CVD Treatments”, Annual Lecture for the Academy of Cardiovascular Research Excellence

03/2022 “Biomedical Innovation in Ann Arbor: A Personal Perspective”, Xiangya Medical School, Changsha, China

02/2023 Nitro-fatty Acids from Bed to Bench back to Bed, Novo Nordisk Meeting H-Metabolism

05/2023 Glycine metabolism in atherosclerosis and NASH, Nutrition and Health Center, Xiangya Medical School, Changsha, China

05/2023 Glycine metabolism in atherosclerosis and NASH, Cardiovascular Center, Hengyang Medical School, Hengyang, China

05/2023 Glycine metabolism in atherosclerosis and NASH, Center for Metabolic Disease Wuhan University, Wuhan, China

05/2023 Glycine metabolism in atherosclerosis and NASH, Shanghai Institute of Materia Medica, Chinese Academy of Sciences

06/2023 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Disease, Sino-US Heart and Vascular Medicine Exchange Forum

07/2023 Transgenic Rabbit Models for Translation Research and Drug Development, International Conference on Animal Models for Cardiovascular Disease, the Keynote Lecture in Yamanashi, July 12-15, 2023

08/2023 Glycine metabolism in atherosclerosis and NASH, CALS Annual Symposium on Organelle Stress, Lipid Metabolism and Cell-Cell Cross Talk in Liver Disease Banff Moose Hotel & Suites, Canada August 6-10, 2023

09/2023 DT-109 ameliorates non-alcoholic steatohepatitis in nonhuman primates, 2023 Shanghai Institute of Precision Medicine Symposium, Central Hotel Shanghai, September 23-24, 2023.

09/2023 Advancing Causal Gene Discoveries to Innovative Targets for CVD, Shanghai Ruijin Hospital Cardiovascular Center

09/2023 Glycine metabolism in atherosclerosis and NASH, Shanghai 9th Hospital Metabolic Disease Center

09/2023 Advancing Causal Gene Discoveries to Innovative Targets for CVD, Tianjin Medical University Cardiovascular Center

10/2023 Glycine metabolism in atherosclerosis and NASH, Department of Pharmacology, Hong Kong University Medical School

06/2024 The role of perivascular adipose tissue in hypertension and atherosclerosis, The 20th Vascular Medicine Annual Meeting, Chengdu, China.

06/2024 A Personal Journey for Translational Research and Drug Development, Nutrition and Health Center at Xiangya Medical School

University of Michigan Departmental Lectures

05/2006 "Nitro-Lipids and PPARs in the Cardiovascular System", Department of Physiology
08/2007 "PPAR-gamma and Cardiovascular Diseases", Cardiology Ground Round
10/2007 "SMC Differentiation and Vascular Diseases." Cell and Development Biology Seminar Series
01/2008 "SMC derived from human ES cells." Center for Human ES Cell Research
02/2008 "Nitro-Lipids and PPARs in the Cardiovascular System", University of Michigan Stroke Program
09/2009 "Nitro-fatty acids and PPAR in the Cardiovascular System", University of Michigan Cardiovascular Frontier Seminar
10/2009 "Novel transgenic rabbits/pigs for cardiovascular medicine", University of Michigan Cardiology Ground Round
01/2010 "PPAR-gamma and Blood Pressure Regulation", University of Michigan Nephrology Ground Round
07/2011 "Novel Transgenic Pigs/Rabbits for Translational Medicine" Cardiology Ground Round
11/2012 "Novel Knockout, Knockdown, and Transgenic Pig and Rabbit Models for Cardiovascular Research", Cardiovascular Frontier Seminar
02/2013 "Novel Knockout, Knockdown, and Transgenic Pig and Rabbit Models for Translational Research" University of Michigan Endocrine Research Seminar
04/2013 "Perivascular Adipose Tissue Biology and Cardiovascular Disease, University of Michigan Diabetes, Obesity and Metabolism Research Seminar
12/2013 "Novel Knockout, Knockdown, and Transgenic Pig and Rabbit Models for Translational Research", Physiology Seminar
12/2013 "Perivascular Adipose Tissue in Vascular Health and Disease: Friend or Foe?" Cardiovascular Frontier Seminar
01/2014 'Update on Atherosclerosis from the Bench" Seminar on Hypertension, Vascular Medicine, Lipids/Atherosclerosis Preventive Cardiology
03/2014 "Novel Knockout, Knockdown, and Transgenic Pig and Rabbit Models for Translational Research", Pharmacology Seminar
09/2015 Rabbit models for HIV research, UM HIV/retrovirus forum
10/2016 Advancing Lipid Gene Discoveries to Innovative Targets for Cardiovascular Disease, UM Nephrology Basic Science Seminar
10/2018 Nitro- fatty acids: from bench to bedside, Department of Medicinal Chemistry, School of Pharmacy, University of Michigan
01/2019 Nitration of unsaturated fatty acids: from bench to bedside, Michigan Biology of Cardiovascular Aging, University of Michigan
03/2021 Translating Genomic Medicine to Potential Treatments at CAMTraST, Internal Medicine Grand Round, University of Michigan
04/2022 Biomedical Innovation in Ann Arbor: A Personal Perspective, Michigan Medicine Global REACH Xiangya Physician Scientist Training Program

PATENTS

1. “CNRE binding factors and uses thereof”

Inventors: Chen, YE, Horiuchi M, Dzau VJ, Tamura K

Patent No: US1999/008502

2. “Nitro fatty acids as regiomers and related mimetics “

Inventors: Freeman BA, Chen YE, Xu HE

Patent No: US2009/052386

3. Nitrated lipids and methods of making and using thereof”

Inventors: Freeman BA, Schopfer F, O'Donnell V, Baker P, Chen YE, Branchaud B

Patent No: US 7,776,916 B2

4. “Novel tripeptide (Diapin) to treat diabetes and associated complications”

Inventors: Chen, YE, Zhang J, and Xue C

Patent No: US8664177 B2

5. Discover KLF14 as a Key Mediator for HDL Metabolism and Identify a KLF14 Activator for the Treatment of Coronary Heart Disease

Inventors: Chen, YE, Guo Y, and Zhang J

Patent No: US 62/215,410 PCT/US2016

6. Synthetic High Density Lipoproteins For Delivery Of Drugs, Nutrients And Imaging Agents To Prevent, Image And Treat Cardiovascular Diseases

Inventors: Chen, YE, Guo Y, and Zhang J

Patent No: 62/138,193 PCT/US2016/024230

7. mi-CRISPR for Genome Editing

Inventors: Yuqing Eugene Chen, Jie Xu, Dongshan Yang, Jifeng Zhang

PCT/US2021/046247

8. Fusion Peptides for Improvement of Genome Editing

Inventors: Yuqing Eugene Chen, Linyun Ma, Jie Xu, Dongshan Yang, Jifeng Zhang

PCT/US2019/030913

9. DT-109 and DT-110 for Treating Atherosclerosis and NASH

Inventors: Yuqing Eugene Chen, Oren Shalom Rom, Jifeng Zhang, Ying Zhao

PCT/US2019/046052

10. Repurposing Valproic Acid for Preservation of Hearts for Donor Heart Transplantation and Non-Transplant Cardiac Surgery

Inventors: Yuqing Eugene Chen, Paul Tang, Zhong Wang

PCT/US 2020/48442

11. N-fatty-acyl Amino Acids for the Treatment of Cardiovascular Disease, Steatohepatitis and Fibrosis

Inventors: Yuqing Eugene Chen, Oren Rom, Jifeng Zhang, Ying Zhao

PCT/US2021/46357

12. IDOL Rabbits for Drug Development. Filing date: Feb 15, 2024
UM Invention #: 2024-356

13. USH2A and USH3A rabbits. Filing date: Oct 20, 2023
UM Invention #: 2024-186.

14. Lowering triglycerides to treat abdominal aortic aneurysm. Filing date: May 20, 2024. UM Invention #: 2024-537

15. Isthmin-1 is a novel biomarker and potential therapeutics for heart failure. Filing date: Jul 25, 2022. UM Invention #: 2023-033.

16. MicroRNA-derived RNAs and proteins in human and their biological effects thereof. Filing date: Oct 31, 2022. UM Invention #: 2023-180.

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