

## CURRICULUM VITAE

---

**Bin Ren, M.D., Ph.D., FAHA**

Assistant Professor  
(Traditional Track)  
Division of Hematology and Oncology  
Medical College of Wisconsin

### OFFICE ADDRESS

Vascular Pathobiology Laboratory (BRI West Room 235)  
Blood Research Institute, Blood Center of Wisconsin  
8733 Watertown Plank Road, Milwaukee, Wisconsin 53226

Phone: 414-937-6806 (O); 603-738-9707 (C)

E-mail: [bren@mcw.edu](mailto:bren@mcw.edu); [ren.science@gmail.com](mailto:ren.science@gmail.com)

Website Links

<http://www.mcw.edu/Hematology-Oncology/Faculty/Bin-Ren-MD-PhD-FAHA.htm>

[https://fcd.mcw.edu/?module=cv&func=view&name=Bin\\_Ren\\_MD\\_PhD&id=4925](https://fcd.mcw.edu/?module=cv&func=view&name=Bin_Ren_MD_PhD&id=4925)

**CITIZENSHIP** United States

### EDUCATION

7/2005-6/2006 Research Fellow, Brookdale Department of Geriatrics and Adult Development, Division of Experimental Diabetes and Aging, Mount Sinai Medical School, New York (Mentor: Helen Vlassara)

7/2002-7/2005 Postdoctoral Fellowship, Angiogenesis and Cancer Biology, Molecular Pathology, Harvard Medical School, Boston, MA (Mentors: Drs. Roya Khosravi-far and Jack Lawler)

9/1999-7/2002 PhD, Biochemistry & Molecular Biology, School of Life Sciences, University of Science and Technology of China, Hefei (Chinese Academy of Science); US News and World Report ranking: #145 Best Global University

9/1996-7/1998 Master Courses in Cell Biology, School of Life Science, University of Science and Technology of China, Hefei, China (Chinese Academy of Science)

8/1985-7/1987 Bachelor of Art in English (STE Program), Anhui Normal University, Wuhu, China

9/1980-8/1985 Bachelor of Medicine (MD equivalent), Anhui Medical College, Hefei, China

### FACULTY AND STAFF APPOINTMENTS

6/2006 - 08/2008 Research Associate, Angiogenesis Research Center, Department of Medicine and Department of Pharmacology and Toxicology, Dartmouth Medical School, Hanover, New Hampshire (Mentor: Dr. Michael Simons, Founding Director of Yale Cardiovascular Research Center)

8/2008 -10/2011 Staff Research Associate (dependent faculty, Department of Cell Biology, Cleveland Clinic Lerner Research Institute, Cleveland, OH (Mentor: Dr. Roy Silverstein, Chairman of Department of Cell Biology, Vice Chair of Lerner Research Institute, Cleveland Clinic Foundation)

10/2011 - Present Assistant Professor, Department of Medicine, Division of Hematology and Oncology, Medical College of Wisconsin

10/2011 - 10/2017 Research Scientist I, Blood Research Institute, Vascular Pathobiology Lab, Blood Center of Wisconsin, Milwaukee

- 11/2017- Present Assistant Investigator, Blood Research Institute, Vascular Pathobiology Lab, Blood Center of Wisconsin, Milwaukee  
03/2012 - Present Member, Cancer Center, Medical College of Wisconsin, Milwaukee, Wisconsin  
05/2012 - Present Member, Clinical & Translational Science Institute of Southeast Wisconsin (NIH sponsored), Medical College of Wisconsin, Milwaukee  
04/2016 - Present Primary Member, Cardiovascular Center (CVC), Medical College of Wisconsin

## **AWARDS AND HONORS**

- 2017 American Federation for Medical Research (AFMR) Scholar Award (Mid-western region)  
2017 MCW Program Mentor Award/Honor recognition, MCW Convocation Ceremony  
2017 ATVB Cover Art Demonstration and Award Competition in ATVB Scientific Sessions  
2016 K Award, Central Society for Clinical and Translational Research, USA  
2016 Faculty Development Award, Department of Medicine, Medical College of Wisconsin  
2016 AHA Scientific Sessions 2016 Best of Basic Science Posters  
2015 K Award, Central Society for Clinical and Translational Research, USA  
2015 Faculty Development Award, Department of Medicine, Medical College of Wisconsin  
2014 Fellow of American Heart Association, Elected, American Heart Association  
2014 Career Development Award, Central Society for Clinical and Translational Research  
2014 Oral Abstract Award Winner, CSCTR/MWAMFR Combined Annual Meeting, Chicago, April 24-25  
2013 Visiting professor, School of Life Science, Anhui Medical University, China  
2012 Visiting professor, School of Life Science, Anhui Medical University, China  
2011 Elsa Albrecht Research Associate/Project Scientist Award (the 1st Place), Department of Cell Biology, Cleveland Clinic Foundation Lerner Research Institute  
2010 Young Investigator Travel Award for AHA Scientific Sessions  
2009 Cell Biology's Employee of the Quarter Award, Cleveland Clinic Foundation

## **RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS**

### **ACTIVE**

R01HL136423 Ren (PI) 07/01/2017-04/30/2021  
Title: Epigenetic and Transcriptional Regulation of CD36 and Transformation of Capillaries into Small Arteries  
Source: NIH/NHLBI (R01HL136423)  
Goals: This project is to further understand how epigenetic regulation of CD36 transcription is associated with the transformation of microvascular endothelial cells into arteriolar endothelial cells for *de novo* arteriogenesis.

FP11709 Ren (PI) 06/01/2017-05/31/2018  
Title: Tumor Arteriogenesis in Melanoma Progression  
Source: Ann's Hope Foundation  
Goals: A melanoma angiogenesis model will be established in endothelial-specific PKD-1- null mice to test the whether and how PKD-1 signaling axis regulates *de novo* "arteriogenesis" in melanoma microenvironment and novel therapeutic strategy.

### **COMPLETED**

Title: Epigenetic Regulation of CD36 Transcription & Angiogenesis  
Source: American Heart Association (National Scientist Development Grant)  
PI: **Bin Ren**  
Dates: 01/01/2013 - 06/30/2017 (no cost extension)  
This project is to understand the molecular mechanisms of CD36 transcription and its role in angiogenesis and ischemic disease *in vivo*.

Title: Transcriptional Regulation of Angiogenic Gene Expression  
Source: Central Society for Clinical and Translational Research (Career Development Award)

PI: **Bin Ren**

Dates: 07/01/2014 – 06/30/2015

Title: Obesity-derived LPA & Breast Cancer Angiogenesis

Source: American Cancer Society Pilot Grant (National)

Medical College of Wisconsin Cancer Center (ACS Supplementary) (NCE)

PI: **Bin Ren**

Date: 07/01/2012 – 12/30/2015

Title: Targeted Proteomics for Transcriptional Regulation of CD36 and Angiogenesis

Source: Medical College of Wisconsin Clinical Translational Science Institute

PI: **Bin Ren**

Date: 07/2013-07/2014

Title: Establishing a Three Dimensional Endothelial Cell-Tumor Cell Co-culture System

Source: Froedtert Hospital Foundation (Patient gift, non-peer reviewed)

PI: **Bin Ren**

Date: 07/2013-07/2014

Title: Regulation of the Anti-angiogenic Switch by CD36, Thrombospondin, and HRGP

Source: NIH/NHLBI

Role: **Bin Ren**, Co-Investigator

PI: Roy Silverstein (09/2008-12/2012)

Date: 08/2008-05/2014

Title: Arteriogenesis (Angiogenesis) and Arterial Branching (NIH/NHLBI R01)

PI: Michael Simons (Cardiovascular Research Center, Yale University School of Medicine)

Role: **Bin Ren**, Key Personnel (2006-2008)

Title: Aging and Vascular Disease: Role of Glycation (NIH/NIA R01)

Role: **Bin Ren**, Key Personnel (2005-2006)

PI: Helen Vlassara (Division of Diabetes and Aging, Mount Sinai School of Medicine, NY)

Title: Spatial and Temporal Regulation of Angiogenesis (NIH/NCI, Program Project)

Role: **Bin Ren**, Key Personnel (2002-2005)

PI: Harold F Dvorak (Experimental Pathology, BIDMC/Harvard Medical School)

## **EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS (Experience)**

### **Editorial Board**

2005 *Frontiers in Bioscience* (USA/ISI and PubMed indexed, Landmark Edition) Managing Editor:

*Tumor Growth and Metastasis: Molecular Signaling and Therapy*

2005 *Chinese Pharmacological Bulletin* (top journal in Pharmacology in China; Indexed by

EMBASE/Excerpta Medica, Chemical Abstract and Scopus)

2014 - *Discoveries, Discoveries Reports* (Open Access journal with distinguished editorial board members;

Indexed by Google Scholar, and will be indexed by PubMed soon)

2015 - *Frontiers in Cell and Developmental Biology* (Associate editor in *Signaling* section; Open Access

journal indexed by PubMed Central etc., Swaziland)

### **Journal Review**

*Angiogenesis; Antioxidants & Redox Signaling (ARS); Arteriogenesis, Thrombosis and Vascular Biology (ATVB); Blood; Cardiovascular Research; Expert Opinion on Therapeutic Targets; Cancer Research; Cytotherapy; Journal of Biological Chemistry; Journal of Clinical Investigation; Journal of Experimental Medicine; Journal of Thrombosis and Homeostasis; Journal of Pathology; Molecular Biology of the Cell; Molecular and Cellular Biochemistry; Molecular and Cellular Endocrinology; Oncotarget; Plos Medicine; Plos One; Science Signaling; Scientific Reports; Theranostics; World Journal of Gastroenterology*

## LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS

- 2016-2018 Judge for abstract awards, MCW Department of Medicine Research Meeting  
2009-2010 Judge for abstract awards, ShowCASE Research Poster Presentations, Case Western Reserve University, Ohio  
2009-2011 Organizer, Cell Signaling Journal Club, Department of Cell Biology, Cleveland Clinic Lerner Research Institute, Ohio  
2008-2011 Member, Postdoctoral Fellow and Research Associate Committee, Department of Cell Biology, Cleveland Clinic Lerner Research Institute, Ohio

## NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS

- 2018 Member, AHA Scientific Sessions Annual Meeting Abstract Review Committee  
2018- Member, Career Development Award Reviewer Committee, American Heart Association  
2017 Peer reviewer, The CTSA (Clinical and Translational Science Award) External Reviewers Exchange Consortium (Ad hoc in Tumor microenvironment) [CEREC](#)  
2016 Member, AHA Scientific Sessions Annual Meeting Abstract Review Committee  
2015 Member, Peer Reviewer for Research Centers in American Heart Association's Go Red For Women Research Network (invited but not served)  
2009- Member, Cardiovascular Development Reviewer Committee, American Heart Association

## INTERNATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS

- 2018 [Evaluate Academic Reputation, Times Higher Education World University Rankings](#)  
2018 Peer reviewer, Future Research Frontiers, Huazhong University of Science and Technology, China (ad hoc reviewer)  
2016 Peer reviewer, Medical Research Council (MRC), United Kingdom (UK) (ad hoc reviewer in Angiogenesis)

## MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES

- Chinese American Academy of Cardiology  
American Heart Association  
North American Vascular Biology Organization  
American Association of Cancer Research  
New York Academy of Science  
Harvard Stem Cell Institute  
Epigenetics Experts Networking  
Young Scientists Society in English in Anhui Province, China (President)

## INVITED LECTURES/WORKSHOPS/PRESENTATIONS

### Local

- 2017 Endothelial Cell Differentiation and Angiogenesis in Ischemic Cardiovascular Disease and Cancer. Department of Cell Biology, Neurobiology and Anatomy, Medical College of Wisconsin  
2016 Angiogenic Signaling in Arteriogenesis in Cardiovascular Ischemia, Department of Physiology, Medical College of Wisconsin  
2016 Angiogenic Signaling in Tumor Angiogenesis and Arteriogenesis in Lung, Skin and Breast Cancer, Division of Hematology and Oncology, Medical College of Wisconsin, June 16  
2015 Tumor Angiogenesis in Breast and Skin Cancer Progression. Division of Hematology and Oncology, Medical College of Wisconsin  
2014 Angiogenic Signaling in Tumor Progression. Division of Hematology and Oncology, Medical College of Wisconsin  
2013 Leader in a Round Table Session for Angiogenesis, Metastasis, & the Tumor Microenvironment Program: Arteriogenesis in Tumor Microenvironment and Tumor Progression, Medical College of Wisconsin Cancer Center  
2013 Signaling Kinase PKD1 in Melanoma Angiogenesis, Department of Dermatology, Medical College of

Wisconsin

- 2012 Transcriptional Signaling in the Regulation of Angiogenesis and Arteriogenesis. Vascular Development Program, Children's Hospital of Wisconsin
- 2005 Molecular Signaling in Endothelial Cell Apoptosis Induced by Antiangiogenic thrombospondin1, Harvard Medical School/MGH Steele Lab (Rakesh Jain is the director)

**National (Guest Speaker)**

- 2017 Bin Ren. Endothelial Cell Differentiation and Angiogenesis in Ischemic Cardiovascular Disease and Breast Cancer. College of Pharmacy, University of Utah
- 2017 Bin Ren. Endothelial Cell Differentiation and Angiogenesis in Ischemic Cardiovascular Disease. Center for Metabolic Disease Research, Temple University
- 2017 Bin Ren. Endothelial Cell Differentiation and Angiogenesis in Ischemic Cardiovascular Disease and Cancer. Cleveland Clinic Foundation, Lerner Research Institute, Cleveland, Ohio
- 2014 Bin Ren. Angiogenic Signaling in the Regulation of Arteriogenesis in Cardiovascular Ischemia and Cancer. University of Pennsylvania, School of Medicine, Institute for Environmental Medicine, Philadelphia, Oct 31, 2014
- 2008 Bin Ren. Molecular Signaling of Angiogenesis and Arteriogenesis, Yale University School of Medicine, Wang Min Lab, New Haven, 2008
- 2005 Bin Ren. Antiangiogenic Signaling and Apoptosis in Endothelial Cells, Mount Sinai School of Medicine Division of Experimental Diabetes and Ageing, New York, 2005

**International (Guest Speaker)**

- 2015 Angiogenic Signaling in Arteriogenesis in Cardiovascular Ischemia, Faculty of Basic Medicine, Anhui Medical University
- 2015 Angiogenic Signaling in Tumor Angiogenesis and Arteriogenesis in Lung, Skin and Breast Cancer, Department of Microbiology, Anhui Medical University, China
- 2013 Signaling Kinase PKD-1 in Angiogenesis and Arteriogenesis, Department of Microbiology, Anhui Medical University, China
- 2013 Protein Kinase PKD1/FoxO1/HDAC7 Signaling Axis in Angiogenesis, Institute of Dermatology, Key Laboratory in Ministry of Education of China, Anhui Medical University

**Selected Journal Publications**

1. Ren B\*. FoxO1 transcriptional activities in VEGF expression and beyond: a key regulator in functional angiogenesis? (Invited Commentary by *Journal of Pathology*, submitted, 2018)
2. Best B, Moran P, Ren B\*. VEGF/PKD-1 signaling mediates arteriogenic gene expression and angiogenic responses in reversible human microvascular endothelial cells with extended lifespan. *Molecular and Cellular Biochemistry* 2018 Jan 29. doi: 10.1007/s11010-018-3286-z. [Epub ahead of print] (\*Corresponding author)
3. Xu S, Zhu W, Wan Y, Wang JB, Chen X, Pi L, Lobo MK, Ren B, Ying Z, Morris M, Cao Q\*. Decreased Taurine and Creatine in the Thalamus May Relate to Behavioral Impairments in Ethanol-Fed Mice: A Pilot Study of Proton Magnetic Resonance Spectroscopy. *Molecular Imaging*, 2018 Jan-Dec;17: 1536012117749051. doi: 10.1177/1536012117749051.
4. Baek KI, Packard RRS, Hsu JJ, Saffari A, Ma Z, Luu AP, Pietersen A, Yen H, Ren B, Ding Y, Sioutas C, Li R, Hsiai TK\*. Ultrafine Particles Exposure Reveals the Importance of FOXO1/Notch Activation Complex for Vascular Regeneration. *Antioxidants & Redox Signaling*, 2017 Nov 17. PMID: 29037123 10/19/2017 (\*Corresponding author)
5. Dong L, Yuan Y, Opansky C, Chen Y, Aguilera-Barrantes I, Wu S, Yuan R, Cao Q, Cheng YC, Sahoo D, Silverstein RL, Ren B \*. Diet-induced obesity links to ER positive breast cancer progression via LPA/PKD-1-CD36 signaling-mediated microvascular remodeling. *Oncotarget*, 2017; 8(14): 22550–22562. PMCID: PMC5410244. (\*Corresponding author)
6. Ren B\*, Best B, Ramakrishnan D, Walcott B, Storz P, Silverstein R. LPA/PKD-1-FoxO1 signaling axis mediates endothelial cell CD36 transcriptional repression, proangiogenic and proarteriogenic reprogramming. *Arterioscler Thromb Vasc Biol*, 2016; 36:1197-1208. PMCID: PMC 4882231. (\*corresponding author, and chosen for cover)

7. **Bin Ren\***. Protein kinase D1 signaling in angiogenic gene expression and VEGF-mediated angiogenesis. *Frontiers in Cell and Developmental Biology*, May 2016 (invited review)
8. Hale JS, Otvos B, Sinyuk M, Alvarado AG, Hitomi M, Stoltz K, Wu Q, Flavahan W, Levison B, Johansen ML, Schmitt D, Neltner JM, Huang P, Ren B, Sloan AE, Silverstein RL, Gladson CL, DiDonato JA, Brown JM, McIntyre T, Hazen SL, Horbinski C, Rich JN, Lathia JD\*. Cancer stem cell-specific scavenger receptor CD36 drives glioblastoma progression. *Stem Cells* 2014; 32(7):1746-58. PMID: 24737733 (\*Corresponding author)
9. **Ren B\***. Endothelial cells: a key player in angiogenesis and lymphangiogenesis. *MOJ Cell Science and Report* 2015, 2 (1): 00015. DOI: 10.15406/mojcsr. 2014.01.00015. (invited review)
10. Chen Y, Devi P, **Ren B\***. Regulation of angiogenesis by phospholipid lysophosphatidic acid. *Frontiers in Bioscience*, 2013; 18:852-61. PMID: 23747852 (invited review; \*Corresponding author)
11. **Ren B**, Hale J, Srikanthan S, **Roy Silverstein\***. Lysophosphatidic acid suppresses endothelial cell CD36 expression and promotes angiogenesis via a PKD-1 dependent signaling pathway. *Blood* 2011; 117:6036-6045. PMID: PMC3112047 (\*Corresponding author)
12. **Ren B**, Deng Y, Mukhopadhyay A, Lanahan AA, Zhuang ZW, Moodie KL, Mulligan-Kehoe MJ, Byzova TV, Peterson RT, Simons M\*. Erk1/2-Akt1 cross-talk-dependent regulation of arteriogenesis. *Journal of Clinical Investigation* 2010; 120 (4):1217–1228. PMID: PMC2846043 (\*Corresponding author).
13. Hermans K, Claes F, Vandevelde W, Zheng W, Geudens I, Orsenigo F, De Smet F, Gjini E, Anthonis K, **Ren B**, Kerjaschki D, Autiero M, Ny A, Simons M, Dewerchin M, Schulte-Merker S, Dejana E, Alitalo K, Carmeliet P\*. Role of synectin in lymphatic development in Zebrafish and frogs. *Blood* 2010; 116 (17): 3356-3366. PMID: 20631376 (\*Corresponding author)
14. **Ren B**, Song K, Parangi S, Jin T, Ye M, Humphreys R, Duquette M, Zhang X, Benhaga N, Lawler J, Khosravi-Far R. \*. A double hit to kill tumor and endothelial cells by TRAIL and antiangiogenic 3TSR. *Cancer Research* 2009; 69 (9): 3856–65. PMID: PMC2981788 (\*Corresponding author)
15. **Ren B**, Yee KO, Lawler J, Khosravi-Far R\*. Regulation of tumor angiogenesis by thrombospondin-1. *Biochimica et Biophysica Acta* 2006; 1765 (2): 178-188. PMID: 1640667 (invited review)
16. Liu H, Zheng F, Li Z, Uribarri J, **Ren B**, Hutter R, Tunstead JR, Badimon J, Striker GE, Vlassara H. Amelioration of oxidant stress by the defensin, lysozyme. *Am J Physiol Endocrinol Metab* 2006; 290(5):824-32. PMID: 16317028
17. Liu H, Zheng F, Li Z, Uribarri J, **Ren B**, Hutter R, Tunstead JR, Badimon J, Striker GE, Vlassara H. Reduced acute vascular injury and atherosclerosis in hyperlipidemic mice transgenic for lysozyme. *Am J Pathol.* 2006; 169(1):303-13. PMID: 16816382
18. **Ren B\***, Wang Y, Ndebele K, Zhi Q, Chen FH, Wang YZ, Parangi S\*. Multiple signaling is involved in apoptosis of endothelial cells induced by recombinant human endostatin. *Frontiers in Bioscience* 10, 2005; 1089-1097. PMID:15769608 (\*Corresponding author)
19. **Ren B**, Hoti N, Rabasseda X, Wang YZ, Wu M. The antiangiogenic and therapeutic implications of endostatin. *Methods Find Exp Clin Pharmacol* 2003; 25:215-24. PMID: 12743627
20. Bu L, Wang Y, **Ren B\***. Molecular mechanisms of angiogenesis and osteotumorigenesis. *Journal of Clinical Orthopaedics* 2003; 6: 86-91 (\*Corresponding author)
21. **Ren B**, Wang Y, Rabasseda X, Wang YZ. Recombinant human endostatin is beneficial to endothelial cell growth exposed to mildly oxidized low density lipoprotein. *Methods Find Exp Clin Pharmacol* 2002; 24:195-9. PMID: 12092005
22. **Ren B\***, Zhu N, Zhi Q, Luo ZF, Wang YZ\*. Effects of recombinant human endostatin on endothelial cell proliferation. *Chinese Journal of Pharmacology and Toxicology* 2002; 16: 195-201 (\*Corresponding Author)
23. Zha XD, **Ren B**, Liu J, Xu KS. cDNA cloning and high-level expression of a thrombin-like enzyme from *Agkistrodon acutus* venom. *Methods Find Exp Clin Pharmacol* 2002; 24:195-9. PMID:12808469
24. **Ren B\***, Zhu HQ, Luo ZF, Zhou Q, Wang Y, Wang YZ\*. Preliminary research on myosin light chain kinase in rabbit liver. *WJG* 2001; 7 (6): 868-871. PMID: 11854919. (\*Corresponding Author)
25. Zhi Qiang, Zhou Qing, **Bin Ren\***. Recombinant staphylokinase and its overexpression in E. Coli and purification. *Acta Universitatis Medicinalis Anhui*, 2001, 36 (1): 18-21(\*Corresponding Author)
26. Zhi Qiang, **Bin Ren**, Zhu Nianchun, Zhang Lixiu, Liu Jianhui. MTT assay for the detection of effect of recombinant human endostatin on endothelial cell proliferation. *Acta Universitatis Medicinalis Anhui*, 2001, 36 (3): 136-140
27. Zhi Qiang, Zhou Qing, **Bin Ren\***. Recombinant staphylokinase and its overexpression in E. Coli and purification. *Acta Universitatis Medicinalis Anhui*, 2001, 36 (1): 18-21(\*Corresponding Author)

28. **Ren B\***, Wang Y, Wang YZ. New views on etiology of atherosclerosis: chlamydia pneumoniae infection. *Journal of Nature*, 2000, 22 (5):259- 264 (Cover, \*Corresponding Author)
29. Wang ML, Hu W, Li JP, Shi BF, Yong H, **Ren B**, Tang JL. Susceptibility of Primary cultured neurogliaocytes from newborn mice cerebral neurons to human cytomegalovirus. *Chin J Neurol*, 1999, 32: 278-281 (\*Corresponding Author)
30. Wang ML\*, Shi BF, Li JP, Bi K, Hu Y, Huang S, **Ren B**. Application of digoxigenin-labelled probe in the study of the neurons of newborn mice from the cerebral cortex with human cytomegalovirus infection. *Acta Universitatis Medicinalis Anhui*, 1999, 34 (4): 250 –253 (\*Corresponding Author)
31. Wang Mingli\*, Chen GH, Tang JL, Shi BF, Hu Y, Wang H, Li JP, **Ren R**. Infection of primary culture of newborn mice cerebral neurons by human cytomegalovirus. *Chinese Journal of Virology*, 1999, 15 (2): 136 – 142 (\*Corresponding Author)
32. **Ren B\***, Zhang XJ, Yang S, Wang PG, Yang CJ. Preliminary analysis of target antigens of IgG type BMZ autoantibodies of bullous pemphigoid. *Acta Laser Biology Sinica*, 1999, 8 (3):167-170)

### Books and Book Chapters

1. **Bin Ren** (Chief Translator). Textbook of Gene Therapy (K.K. Jain). World Book Publishing Company, Xi'An, China. 2000 (Translation from English to Chinese)
2. **Bin Ren**. Cecil Textbook of Medicine. Section Chief Translator: Oncology; Human Immunodeficiency Virus and the Acquired Immunodeficiency Syndrome. World Book Publishing Company, Xi'an, China. 1999 (Translation from English to Chinese)
3. **Bin Ren**. Dowland's English-Chinese Medical Dictionary (28th). One of Chief Translators. World Book Publishing Company, Xi'an, China. 1998 (Translation from English to Chinese)
4. **Bin Ren**, Xiaofeng Yang (Chief Translators). Edward J. Steele, Robyn Lindley Robert V. Blanden (authors). Lamarck's Signature: How Retrogenes Are Changing Darwin's Natural Selection Paradigm. Xinhua News Press, Beijing, China, 2002 (Translation from English to Chinese)

### PEER REVIEWED WORKSHOPS/PRESENTATIONS

#### Oral Presentations

1. AFMR Scholar Award Presentation: Protein kinase D1-CD36 Signaling Axis Promotes Arteriolar Differentiation. MWAMFR/C1SCTR Combined Annual Meeting, Chicago, April 20, 2017 (American Federation for Medical Research)
2. LPA/PKD-1 Signaling Axis Mediates CD36 Transcriptional Repression and Proarteriogenic Reprogramming. ATVB Annual Meeting, San Francisco, 2015.
3. Signaling kinase PKD-1 regulates endothelial cell CD36 transcription and stimulates arteriogenic responses. CSCTR/MWAMFR Combined Annual Meeting, Chicago, April 24-25, 2014 (Oral Abstract Award Winner)
4. HDAC 7 couples LPA signaling to endothelial cell CD36 gene regulation to switch off TSP-1-mediated antiangiogenic Responses. AHA Scientific Session, Chicago, IL, 2010
5. Lysophosphatidic acid suppresses endothelial cell CD36 expression & promotes angiogenesis via a novel PKCmu signaling pathway. ATVB Annual Conference, Washington DC, WA, 2009
6. Recovery of ERK signaling restores defective angiogenesis and arteriogenesis in synectin-deficient animals. AHA Scientific Session, New Orleans, LA, 2008 (E-Poster and Oral)
7. **Bin Ren**, Bailing Wu\*. Functional Genomics and Angiogenesis: Challenges and Future Roadmap. ACGA International Symposium on Genome Medicine, Shanghai, China, 2005 (\*Presenter)

#### Poster Presentations

1. Nicholas Barnekow, Rong Yuan, Patrick Moran, **Bin Ren\***. Protein kinase D1-CD36 signaling in arteriolar differentiation of microvascular endothelial cells: a link between endothelial cells and skin cancer stem cells for tumor progression? The CSCTR-MWAFMR Annual Meeting 2018
2. **Patrick Moran\***, Cynthia Opansky, Dorothee Weihrauch, Rong Yuan, Deron W. Jones, Ramani Ramchandran, **Bin Ren\***. Transcriptional reprogramming of endothelial cells for arteriolar differentiation by small chemical molecule via protein kinase D1 signaling pathway. AHA Scientific Sessions 2017. *Circulation*; November 14, 2017, Volume 136, Issue Suppl 1
3. Ye Yuan, Liuyi Dong, et al, Roy L. Silverstein, **Bin Ren\***. Diet-induced obesity links to ER positive



- breast cancer progression via LPA/PKD-1-CD36 signaling-mediated microvascular remodeling. ATVB Scientific Sessions, Minneapolis, May 3-6, 2017
4. **Bin Ren\***, Romani Ramchandran, Roy L. Silverstein. Protein kinase D1-CD36 Signaling Axis Promotes Arteriolar Differentiation. CSCTR/MWAMFR Combined Annual Meeting, Chicago, April 20-21, 2017 (Also for FAMR Scholar Award Oral Presentation)
  5. **Bin Ren\***. LPA/PKD-1-FoxO1-CD36 signaling axis regulates capillary arterIALIZATION in ischemic conditions, AHA Scientific Sessions 2016, New Orleans, Louisiana, USA, 11/12/2016 -11/16/2016 (Best of Basic Science Poster Presentation)
  6. Cynthia Opansky, Brad Best, Rong Yuan, Qi Cao, **Bin Ren\***. Protein Kinase D1 Signaling is the Key to Arterial Differentiation of Vascular Endothelial Cells, American Heart Association Scientific Sessions. New Orleans, Louisiana, USA, 11/12/2016 - 11/16/2016 (Selected to present again at ATVB Early Career Reception in this AHA Scientific Sessions)
  7. **Bin Ren\***, Gloria Yuan, Roy L. Silverstein. Endothelial cell protein kinase PKD-1 signaling is essential for improving tissue ischemia via arteriogenic reprogramming. CSCTR/MWAMFR Combined Annual Meeting, Chicago, 2016; Department of Medicine, MCW, Milwaukee 2016
  8. **Bin Ren\*** Brad Best, Dorothee Weihrauch, Deron W Jones, Liuyi Dong, Cynthia Opansky, Rong Yuan, Kirkwood A Pritchard, Roy Silverstein. LPA/PKD-1 Signaling Axis Mediates CD36 Transcriptional Repression and Proarteriogenic Reprogramming. AHA Scientific Sessions 2015, November 7-11, in Orlando, FL (This abstract was selected for an oral presentation in ATVB 2015 scientific sessions, and I was invited to present again in the AHA Scientific Sessions as the Best of AHA Specialty Conferences)
  9. **Liuyi Dong\***, Ye Yuan, Gloria Yuan, Silverstein R, **Bin Ren\***. Identification of Signaling Lipid Lysophosphatidic Acid as a Critical Link between Diet-induced Obesity, Angiogenesis and Breast Cancer Progression. CSCTR/MWAMFR Combined Annual Meeting, Chicago, April 24-25, 2015; ATVB Annual Meeting, San Francisco, May 7-9, 2015
  10. Ye Yuan, Jacob D. Kohlenberg, Yiliang Chen, Roy Silverstein, **Bin Ren\***. Diet-induced obesity promotes breast cancer progression by LPA-signaling-mediated functional changes of mitochondria and angiogenesis. AACR Cellular Heterogeneity in the Tumor Microenvironment meeting, San Diego, February 26 - March 1, 2014
  11. **Bin Ren\***, Devi Prasad Ramakrishnan, Brian Walcott, Yiliang Chen, Brad Best, Peter Storz, Roy L. Silverstein. A LPA-PKD-1-HDAC7/NCoR1-FoxO1 signaling axis regulates endothelial cell CD36 transcription and stimulates arteriogenic responses. ATVB Annual Conference, Toronto, Canada, May 1-3, 2014
  12. Jacob Kohlenberg, Yiliang Chen, Brad Best, Peter Storz, Randall T Peterson, Roy L Silverstein, **Bin Ren\***. A novel LPA-PKD-FoxO1 pathway in endothelial cells provides an angiogenic switch via down-regulation of CD36 transcription and induction of arteriogenic responses. (A late-breaking Abstract Presentation) American Association of Cancer Research (AACR) Annual Meeting April 6-10, 2013. (A special subcommittee of the Program Committee is organized to evaluate the merit and select those abstracts that are deemed to be of high scientific priority)
  13. **Bin Ren\***, Yiliang Chen, Rong Yuan, Randall T Peterson, Roy L Silverstein. Protein kinase D-1 regulates CD36 transcription and arteriogenic differentiation of endothelial cells. ATVB Annual Conference, Lake Buena Vista, FL, May 1-3, 2013
  14. **Bin Ren\***, James Hale, et al, Roya Khosravi-far, Roy L Silverstein. Protein kinase PKD-1 signals HDAC7 to regulate CD36 transcription via FoxO1 in endothelial cells, NAVBO Cardiovascular Research Workshop, Cape Cod, MA, 2011
  15. **Bin Ren\***, Sareh Parangi, Carole Perruzzi, Mark Duquette, Eric Galardi, Jack Lawler, Roya Khosravi-Far, 3TSR/TSP-1 Cooperates with TRAIL in Regulation of Endothelial Apoptosis, Harvard Medical School Pathology & Vascular Biology Center Retreat, Cape Cod, MA & Boston, 2005
  16. **Bin Ren\***, Sareh Parangi, Carole Perruzzi, Jack Lawler, Roya Khosravi-Far. TSP-1-mediated Signaling Crosstalk with PI3K/Akt in Endothelial Cells, Beth Israel Deaconess Medical Center, Vascular Biology Center Retreat, Harvard Medical School, Boston, 2004
  17. **Bin Ren\***, Michael Duquette, Jack Lawler, Roya Khosravi-Far. 3TSR/hTSP-1 induces both extrinsic and intrinsic apoptotic pathways and antagonizes VEGF-induced survival pathway. FASEB Summer Meeting, Pine Mountain, GA, 2004
  18. **Bin Ren\***, Sareh Parangi, Jack Lawler. Roya Khosravi-Far. Proapoptotic and Survival Signaling Pathways in TSP-1- mediated Apoptosis in Human Microvascular Endothelial Cells, Harvard Medical School Pathology Retreat, Cape Cod, 2003

**Note:** \*Presenter



### **Preceptor and Mentor for Trainees**

Patrick F. Moran, MCW MD candidate, the Honors in Research program, supported by T35 training grant (Dr. David Harder, PI) from National Heart Lung Blood Institute (NHLBI)

Jacob Knollenberg, MCW M.D. Candidate (current MD at Mayo Clinic), the Honors in Research Program, Medical College of Wisconsin, supported by MCW Cardiovascular Research Center & T35 training grant (Dr. David Harder, PI) from National Heart Lung Blood Institute (NHLBI)

Benjamin Labbe, Ph.D. Candidate (Graduate School of Biomedical Science, Medical College of Wisconsin): Rotation Student

Adrian W. Sturich, M.D. Candidate, Medical College of Wisconsin, supported by MCW Department of Medicine

Auroni Gupta, Undergraduate Summer Student (University of California at San Diego)

Ye Yuan, Visiting Student, Ph.D. Candidate (Edison Biotechnology Institute & Department of Biochemistry, Ohio University)

Ankush Korishettar, Visiting Student, Ph.D. Candidate, Department of Biological Sciences, University of Wisconsin (UWM), Milwaukee, supported by UWM

Liuyi Dong, MD, PhD, Postdoctoral Fellow, Blood Research Institute (Current Professor of Pharmacology, Anhui Medical University)

### **Current Lab/Team members**

Nicholas Barnekow, Assistant Research Technologist

Patrick Moran (NIH/T35), MD Student

Rong (Gloria) Yuan, Research Technician

Brad Best (Core, Senior Technologist)

Cynthia Opansky (Core, Technologist)

### **References**

**Michael Simons**, MD, Robert W. Berliner Professor of Medicine, Professor of Cell Biology, Founding Director, Yale Cardiovascular Research Center, Yale University School of Medicine

e-mail: [michael.simons@yale.edu](mailto:michael.simons@yale.edu) 203.737.4643

**Gangjian Qin**, MD, FAHA, Professor and Director of Molecular Cardiology Program, Department of Biomedical Engineering, School of Medicine & School of Engineering, The University of Alabama at Birmingham (UAB); e-mail: [qqin@uab.edu](mailto:qqin@uab.edu)

**Randall Peterson**, S. Skaggs Presidential Endowed Professor and Dean, School of Pharmacy, University of Utah. E-mail: [randall.peterson@pharm.utah.edu](mailto:randall.peterson@pharm.utah.edu)

**Xiaofeng Yang**, Professor of Pharmacology and Immunology, Center for Metabolic Disease Research, Temple University. e-mail: [xfyang@temple.edu](mailto:xfyang@temple.edu) 215-707-5985

**Roya Khosravi-far**, PhD, Mentor at Harvard Medical School, Associate Professor, Harvard Medical School, and a founder and CSO at one of Harvard Startup Biotech companies.

e-mail: [roya@biomarx.com](mailto:roya@biomarx.com) 617-372-2141 (cell)

**Ramani Ramchandran**, PhD, Patrick J. and Margaret G. McMahon endowed Professor and Vice Chair of Research, Department of Obstetrics and Gynecology, Professor, Developmental Vascular Biology program, Medical College of Wisconsin. e-mail: [rramchan@mcw.edu](mailto:rramchan@mcw.edu)

**Roy Silverstein**, MD, The Linda and John Mellowes Professor and Chairman Department of Medicine, Medical College of Wisconsin. e-mail: [rsilverstein@mcw.edu](mailto:rsilverstein@mcw.edu)

**Jerry S.H. Lee**, Deputy Director, Center for Strategic Scientific Initiative, NCI Senior Leadership, NCI/NIH. (Contact information will be provided per request).