University of Alabama at Birmingham
School of Medicine

Date: 08-28-2019

Personal information:

Name: Bin Ren
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Rank/title:

2018 - Present Associate Professor with Tenure
Department of Surgery, University of Alabama School of Medicine
Scientist, O'Neal Comprehensive Cancer Center, UAB

Business address: Molecular and Vascular Pathobiology Laboratory,
School of Medicine, University of Alabama at Birmingham (UAB)
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Education:

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
Bachelor of Art in English (STE Program), Anhui Normal University, Wuhu, China
Bachelor of Medicine (MD equivalent), Anhui Medical College, Hefei, China

Postdoctoral training:

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)

Academic appointments: (in reverse chronological order)

08/2019 - Present Member, Nutrition and Obesity Research Center, UAB
08/2018 - Present Associate Professor with tenure, Vascular Surgery/Biomedical Engineering, UAB
10/2018 - Present Scientist, UAB O'Neal Comprehensive Cancer Center
10/2018 - Present GBS & MSTP Program Faculty, The Graduate School of UAB
11/2017 - 07/2018 Assistant Investigator, Blood Research Institute, Vascular Pathobiology Lab, Blood Center of Wisconsin, Milwaukee

04/2016 - 07/2018 Primary Member, Cardiovascular Center (CVC), Medical College of Wisconsin
05/2012 - 07/2018 Member, Clinical & Translational Science Institute of Southeast Wisconsin (NIH sponsored), Medical College of Wisconsin, Milwaukee
03/2012 - 07/2018 Member, Cancer Center, Medical College of Wisconsin, Milwaukee
10/2011 - 07/2018 Assistant Professor, Department of Medicine, Division of Hematology and Oncology, Medical College of Wisconsin, WI
10/2011 - 10/2017 Research Scientist I, Blood Research Institute, Vascular Pathobiology Lab, Blood Center of Wisconsin, Milwaukee, WI
8/2008 -10/2011 Staff Research Associate (dependent faculty; Mentor: Roy L. Silverstein), Department of Cell Biology, Cleveland Clinic Lerner Research Institute, Cleveland, OH
6/2006 - 08/2008 Research Associate (Mentor: Michael Simons, Founding Director of Yale Cardiovascular Research Center), Angiogenesis Research Center, Department of Medicine, Pharmacology and Toxicology, Dartmouth College, Hanover, NH

Awards/honors:

2019 UAB Bioengineering Surgery Collaborative Award
2019 Atomwise's Artificial Intelligence Molecular Screen (AIMS) Award
2018 American Heart Association/Allen Initiative in Brain Health and Cognitive Impairment Award Review Committee Member (Phase I and Phase II reviewer, up to $34 million per proposal)
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 AHA Scientific Sessions 2015 Best of AHA Specialty Conferences
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
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
2003 State Scientific Achievement of Anhui Province, China (one of awardees)
2002 Kwang-Hua Scholarship, USTC/*Taiwan Kwang-Hua Educational Foundation*
2001 Kwang-Hua Scholarship, USTC/*Taiwan Kwang-Hua Educational Foundation*

Professional societies:

American Association of Cancer Research
American Heart Association
Chinese American Academy of Cardiology
Harvard Stem Cell Institute (Associate Member)
Epigenetics Experts Networking

New York Academy of Science
North American Vascular Biology Organization
Sigma Xi: The Scientific Research Honor Society
Society for Developmental Biology
Young Scientists Society in English in Anhui Province, China (President)

Councils and committees:

2019 Member, NIH Molecular and Integrative Signal Transduction (MIST) Study Section
2018 Member, NIH Molecular and Integrative Signal Transduction (MIST) Study Section
2018 Member, American Heart Association/Allen Initiative in Brain Health and Cognitive Impairment Award Review Committee Phase II (chosen for the second round of review, a smaller reviewer Committee to evaluate the selected proposals in Phase I for the finalists)
2018 Member, American Heart Association/Allen Initiative in Brain Health and Cognitive Impairment Award Review Committee Phase I (up to $34 million per proposal)
2018 Member, AHA Scientific Sessions Annual Meeting Abstract Review Committee
2018 Member, Career Development Award Reviewer Committee, American Heart Association
2018 Peer reviewer, MCW Clinical Translational Science Institute (NIH-sponsored CTSI, Ad hoc in Cardiac Toxicity in Cancer Treatment)
2017 Peer reviewer, The CTSA (Clinical and Translational Science Award) External Reviewers Exchange Consortium (Ad hoc in Tumor Microenvionment) CEREC
2009 Member, Cardiovascular Development Reviewer Committee, American Heart Association
2006 Council on Arteriosclerosis, Thrombosis and Vascular Biology, and on Basic Cardiovascular Sciences, American Heart Association

University activities:

2018 GBS Program Interviewer, The Graduate School, University of Alabama at Birmingham
2018 Job Candidate Interviewer, Department of Surgery, University of Alabama at Birmingham
2018 Guest Speaker Meetings, Department of Surgery, Department of Pathology, University of Alabama at Birmingham
2019 GBS Program Interviewer, The Graduate School, University of Alabama at Birmingham
2019 Job Candidate Interviewer, Department of Biomedical Engineering and O'Neal Comprehensive Cancer Center, University of Alabama at Birmingham
2019 Guest Speaker Meetings, Department of Pathology, University of Alabama at Birmingham
2019 Member, PhD Candidate Thesis Committee (Alyncia D. Robinson), O'Neal Comprehensive Cancer Center, Department of Pathology, University of Alabama at Birmingham
2019 Judge for Oral Presentations, Society for Developmental Biology South Regional Meeting
2019 Judge for Poster Presentations, Graduate Biomedical Sciences Joint Health Sciences Research Symposium, UAB Graduate School

Editorial board memberships:

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): Impact factor: 5.216

Ad hoc Journal Review:

Angiogenesis; Antioxidants & Redox Signaling (ARS); Arteriogenesis, Thrombosis and Vascular Biology (ATVB); Blood; Cancers; Cancer Research; Cardiovascular Research; Expert Opinion on Therapeutic Targets; 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; Neurobiology of Aging; Oncotarget; Plos Medicine; Plos One; Science Signaling; Scientific Reports; Theranostics; World Journal of Gastroenterology

Major research interests: (2-3 sentences):

My major interest focuses on molecular regulation of angiogenesis and arteriogenesis in cancer and cardiovascular and peripheral vascular diseases as well as diabetes and neurological disorders. My long-term goal is to ascertain key molecular targets to stimulate functional angiogenesis in ischemic heart and peripheral vascular diseases but inhibit angiogenesis in the tumor microenvironment so that we can control these common human conditions. I have been recognized by MCW Program Mentor Award/Honor recognition, Convocation Ceremony of Medical College of Wisconsin in 2017.

Teaching experience: I have taught many graduate students, medical students and postdoctoral fellows in the United States in addition of my rich experience for medical education in China.

UAB Graduate course: BME 798 - Non-Dissertation Research
UAB Medical Professional Development Fellowship: Medical Student Training, 2019
USB PARAdiGM & SIBS Program Undergraduate Student Training, 2019
UAB CaRES Program Pharm D Student Training, 2019

Major lectures and visiting professorships:

2019 Transcriptional Reprogramming of Endothelial Cells for Arteriolar Differentiation via LPA/PKD-FoxO1 Signaling. Lysophospholipid and Related Medicators: From Bench to Clinic, Federation of American Societies for Experimental Biology (FASEB) Scientific Conference, Lisbon, Portugal
2018 New Concepts in Arteriogenesis: Implications in Ischemic Vascular Diseases. Alabama Vascular Society, Inc, The Westin Hotel, Birmingham
2018 University of Alabama at Birmingham School of Medicine: Angiogenic Signaling in Endothelial Cell Differentiation in Ischemic Vascular Disease and Breast Cancer
2018 University of Mississippi School of Medicine: Angiogenic Signaling in Endothelial Cell Differentiation in Ischemic Vascular Disease and Breast Cancer
2017 Medical College of Wisconsin Department of Cell Biology, Neurobiology and Anatomy: Endothelial Cell Differentiation and Angiogenesis in Ischemic Cardiovascular Disease & Cancer
2017 University of Utah College of Pharmacy: Endothelial Cell Differentiation and Angiogenesis in Ischemic Cardiovascular Disease and Breast Cancer.
2017 Temple University Center for Metabolic Disease Research: Endothelial Cell Differentiation and Angiogenesis in Ischemic Cardiovascular Disease.
2017 Cleveland Clinic Lerner Research Institute: Endothelial Cell Differentiation and Angiogenesis in Ischemic Cardiovascular Disease and Cancer
2016 Medical College of Wisconsin Department of Physiology: Angiogenic Signaling in Arteriogenesis in Cardiovascular Ischemia
2016 Medical College of Wisconsin Division of Hematology and Oncology: Angiogenic Signaling in Tumor Angiogenesis and Arteriogenesis in Lung, Skin and Breast Cancer

2015 Anhui Medical University Faculty of Basic Medicine (China): Angiogenic Signaling in Arteriogenesis in Cardiovascular Ischemia
2015 Anhui Medical University Department of Microbiology (China): Angiogenic Signaling in Tumor Angiogenesis and Arteriogenesis in Lung, Skin and Breast Cancer
2015 Medical College of Wisconsin Division of Hematology and Oncology: Tumor Angiogenesis in Breast and Skin Cancer Progression
2014 Medical College of Wisconsin Division of Hematology and Oncology: Angiogenic Signaling in Tumor Progression
2014 University of Pennsylvania School of Medicine: Angiogenic Signaling in the Regulation of Arteriogenesis in Cardiovascular Ischemia and Cancer
2013 Anhui medical University Department of Microbiology: Signaling Kinase PKD-1 in Angiogenesis and Arteriogenesis
2013 Anhui Medical University Key Laboratory in Dermatology, Ministry of Education of China & Institute of Dermatology: Protein Kinase PKD1/FoxO1/HDAC7 Signaling Axis in Angiogenesis,
2013 Medical College of Wisconsin Cancer Center: Leader in a Round Table Session for Angiogenesis, Metastasis, & the Tumor Microenvironment Program: Arteriogenesis in Tumor Microenvironment and Tumor Progression
2013 Medical College of Wisconsin Department of Dermatology: Signaling Kinase PKD1 in Melanoma Angiogenesis
2012 Children's Hospital of Wisconsin Vascular Development Program: Transcriptional Signaling in the Regulation of Angiogenesis and Arteriogenesis.
2008 Yale University School of Medicine, Wang Min Lab: Molecular Signaling of Angiogenesis and Arteriogenesis
2005 Mount Sinai School of Medicine Division of Experimental Diabetes and Ageing: Antiangiogenic Signaling and Apoptosis in Endothelial Cells
2005 Harvard Medical School/MGH Steele Lab (Rakesh Jain is the director): Molecular Signaling in Endothelial Cell Apoptosis Induced by Antiangiogenic thrombospondin1

Grant support: (past and current):

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
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.

Bioengineering Surgery Collaborative (BSC) Ren (PI); Andrew Pollard (Co-PI) 09/1/2019-08/31/2020
Title: Establishing Innovative Biomimetic Vascular/Pancreatic Neuroendocrine Tumor Model
Source: University of Alabama Birmingham
Goals: Development of a bioengineered vascular pancreatic neuroendocrine tumor organoid model using 3D printing in combination with 3D bioreactor system.

STARTUP FUND Department of Surgery, UAB School of Medicine

PENDING AND TO BE RESUBMITTED FUND

R21AG067337 -01 Ren (PI) 04/01/2020-03/31/2022

Title: Brain Arteriolar Abnormalities in Cognitive Impairment and Innovative Therapeutic Strategies
Goals: This project will learn whether arterilolar defects in the brain will affect cognitive capacity and contribute to Alzheimer's disease in transgenic animal models (Pending IRG Review).

1R01CA244139-01 Ren (PI) 09/01/2019- 08/31/2024
Title: Unique Vascular Niche in Breast Cancer Progression and Therapeutic Strategies
Source: National Institute of Health (NCI)
Goals: This project will unravel key mechanisms of arteriolar remodeling in the invasive progression of ER+BCs via study on the changes in tumor microenvironment and discover a new therapeutic approach (To be resubmitted).

UAB Diabetes Research Center Pilot Grant Ren (PI) 09/01/2019- 08/31/2020
Title: Regulation of Capillary Arterialization: Mechanisms and Discovery of Innovative Therapeutic Strategies for Peripheral Arterial Disease in Diabetes (plan to re-submission)
Goals: Test the hypothesis that LPA/PKD-1-CD36-FoxO1 signaling axis reprograms MVECs to differentiate into arteriolar ECs to promote arteriolar differentiation and test an innovative therapeutic strategy for ischemic conditions in diabetes (To be resubmitted).

COLABORATORS

Dr. Herb Chen, UAB Chairman of Department of Surgery
Dr. Adam Beck, UAB Director of Vascular Surgery Division
Drs. Joel Berry & Andrew Pollard, UAB Department of Biomedical Engineering
Dr. Lori McMahon, Dean, UAB Graduate School, Director of Neuroscience Center
Dr. Randall Peterson, Dean, College of Pharmacy, University of Utah
Dr. Romani Ramachandran, MCW Department of Obstetrics and Gynecology (Vice Chairman) and Children's Hospital of Wisconsin.
Dr. Roy Silverstein, MCW Chairman of Medicine; President, American Hematology Society

COMPLETED

FP11709 Ren (PI) 06/01/2017-05/31/2018
Title: Tumor Arteriogenesis in Melanoma Progression
Source: Ann's Hope Foundation (75,000 USD)
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.

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 (4 years)
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)

Others:

2018 Evaluate Academic Reputation, *Times* Higher Education World University Rankings
2018 Peer reviewer, MCW CTSI Translational & Clinical Studies Program Traditional Pilot Awards
2018 Peer reviewer, Future Research Frontiers, Huazhong University of Science and Technology, China (ad hoc reviewer)
2018 Poster judge for abstract awards, UAB Comprehensive Neuroscience Center Retreat
2018 Judge for abstract awards, the Second MCW Redox Biology Symposium
2018 Judge for abstract awards, MCW Department of Medicine Research Meeting
2017 Judge for abstract awards, MCW Department of Medicine Research Meeting
2016 Peer reviewer, Medical Research Council (MRC), United Kingdom (UK) (ad hoc reviewer in Angiogenesis)
2016 Judge for abstract awards, MCW Department of Medicine Research Meeting

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)
2010 Judge for abstract awards, ShowCASE Research Poster Presentations, Case Western Reserve University, Ohio
2009 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

Bibliography:

Manuscripts: (Selected publications)
(numbered, in chronological order, faculty member's name should be underlined or highlighted)

1. **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)
2. Wang Mingli*, Chen GH, Tang JL, Shi BF, Hu Y, Wang H, Li JP, **Ren B**. Infection of primary culture of newborn mice cerebral neurons by human cytomegalovirus. *Chinese Journal of Virology*, 1999, 15 (2): 136 – 142 (*****Corresponding Author)
3. 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)
4. Wang ML, Hu W, Li JP, Shi BF, Yong H, **Ren B**, Tang JL. Susceptibility of Primary cultured neurogliocytes from newborn mice cerebral neurons to human cytomegalovirus. *Chin J Neurol*, 1999, 32： 278-281 (*****Corresponding Author)
5. **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)
6. 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)
7. 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
8. 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)
9. **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)
10. 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
11. **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)

12. **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
13. Bu L, Wang Y, **Ren B***. Molecular mechanisms of angiogenesis and osteotumorogenesis. *Journal of Clinical Orthopaedics* 2003; 6: 86-91 (*Corresponding author)
14. **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
15. **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)
16. 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
17. 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
18. **Ren B**, Yee KO, Lawler J, Khosravi-Far R*. Regulation of tumor angiogenesis by thrombospondin-1. *Biochimca et Biophysica Acta* 2006; 1765 (2): 178-188. PMID: 1640667 (invited review)
19. **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. PMCID: PMC2981788 (*Corresponding author)
20. 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)
21. **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. PMCID: PMC2846043 (*Corresponding author).
22. **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. PMCID: PMC3112047 (*Corresponding author)
23. 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)
24. **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)
25. 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)
26. **Bin Ren***. Protein kinase D1 signaling in angiogenic gene expression and VEGF-mediated angiogenesis. *Frontiers in Cell and Developmental Biology*, May 2016 (invited review)
27. **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)

28. 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)
29. 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)
30. 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.
31. 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)
32. **Ren B***. FoxO1 transcriptional activities in VEGF expression and beyond: a key regulator in functional angiogenesis? *Journal of Pathology*, 2018 Jul; 245(3):255-257. doi: 10.1002/path.5088 (Invited Commentary)
33. Cao Q, Xu S, Li S, Chen M, Sun X, Wan Y, Pi L, Ying Z, **Ren B**. Quantification of Hepatic Lipid Using 7.0T Proton Magnetic Resonance Spectroscopy and Computed Tomography in Mild Alcoholic Steatotic Mice. J Liver. 2018;7(4). pii: 234. doi: 10.4172/2167-0889.1000234. Epub 2018 Dec 31.
34. Zhang X, Li G, Guo Y, Song Y, Chen L, Ruan Q, Wang Y, Sun L, Hu Y, Zhou J, **Ren B**, Guo J. Regulation of ezrin tension by S-nitrosylation mediates non-small cell lung cancer invasion and metastasis. Theranostics 2019; 9(9): 2555-2571. doi:10.7150/thno.32479.
35. Li S, Sun X, Chen M, Ying ZK, Wan YM, Pi LY, **Ren B**, Cao Q. Liver Fibrosis Conventional and Molecular Imaging Diagnosis Update. J Liver (2019, accepted).
36. Patrick Moran, **Yichen Guo**, Nicholas Barnekow, Rong Yuan, Jordan Palmer, Adam Beck, **Bin Ren***. Endothelial-specific mRNA purification *in vivo* by translating ribosome affinity purification (TRAP) technique in *cd* 36 knockout TRAP mice. Journal of Visualized Experiments. 2019 (147), e59624. DOI: 10.3791/59624

***Corresponding author**

Manuscripts under review and in preparation:

1. Bin Ren*, Bart Rose, Carlo Contreras, Adam Beck, Herbert Chen. Heterogeneity of vascular endothelial cells and: de novo arteriogenesis and therapeutic implications in pancreatic neuroendocrine tumors (submitted).
2. Yinan Jiang, Yichen Guo, Jinjin Hao, Huihui Liu, Justin Lathia, Roy Silverstein, Adam Beck, Carlo Contreras, Herb Chen, **Bin Ren***. Vascular niche in breast cancer stem-like cell self-renewal and metastasis (in preparation).
3. Hailey Guo, Yinan Jiang, Jinjin Hao, Roy Silverstein, Rong Yuan, Justing Lathia, Anita Hjelmeland, Qi Cao, Adam Beck, Herb Chen, **Bin Ren*.** Arteriolar remodeling in breast cancer stem-like cell self-renewal and ER-positive breast cancer progression (in preparation).
4. Yinan Jiang, Jingjing Hao, Yichen Guo, Adam Beck, Weihrauch D, Yuan R, Jones DW, Roy Silverstein, Randall Peterson?, Ramchandran R, **Ren B**. Transcriptional Reprogramming of Endothelial Cells for Arteriolar Differentiation (in preparation).

Books:

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)

Published abstracts:
(Numbered, in chronological order, faculty member's name should under-lined or highlighted)

1. Nicholas Barnekow, Rong Yuan, Patrick Moran, and **Bin Ren**. Foxo1-Activated Cd36 Transcription Switches Arteriolar Differentiation of Endothelial Cells. Circulation. 2018;138: A16740
2. Moran P, Opansky C, Weihrauch D, Yuan R, Jones DW, Ramchandran R, **Ren B**. Transcriptional Reprogramming of Endothelial Cells for Arteriolar Differentiation by Small Chemical Molecule via Protein Kinase D1 Signaling Pathway. *Circulation.* 2017; 136: A14944.
3. **Ren B**, Ramanchandran R, Silverstein R. Protein kinase D1-CD36 signaling axis promotes arteriolar differentiation. *Journal of Investigative Medicine*. 2017; 65 (4): 807-879 (Ab).
4. Yuan Y, Dong L, Aguilera-Barrantes I, Chen Y, Yuan R, Silverstein R, **Ren B**. Diet-Induced Obesity Links to Breast Cancer Progression via LPA/PKD-1-CD36 Signaling Axis-Mediated Microvascular Remodeling. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 2017; 37: A161.
5. Baek KI, Packard RR, Saffari A, Ma Z, Luu AP, Yen H, Pieterson A, Hsu JJ, **Ren B**, Sioutas C, Li RS, Hsiai TK. FOXO1/Notch Signaling Modulates Ambient Ultrafine Particle Impaired Vascular Repair. *Arteriosclerosis, thrombosis, and vascular biology*. 2017; 37(1).
6. Ren B, Best B, Weihrauch D, Jones DW, Dong L, Opansky C, et al. LPA/PKD-1-FoxO1-CD36 Signaling Axis Regulates Capillary Arterialization in Ischemic Conditions. *Circulation*. 2016; 134(Suppl 1): A15673.
7. Opansky C, Best B, Yuan R, Cao Q, **Ren B**. Protein Kinase D1 signaling is the key to arterial differentiation of vascular endothelial cells. *Circulation*. 2016; 134(Suppl 1): A14437.
8. **Ren B**, Best B, Ramakrishnan D, Walcott B, Storz P, Silverstein R. ENDOTHELIAL CELL CD36 TRANSCRIPTION IS DOWNREGULATED BY LPA/PKD-1-HDAC7-FOXO1 SIGNALING AXIS AND IS ASSOCIATED WITH PROANGIOGENIC REPROGRAMMING. *Journal of investigative medicine: the official publication of the American Federation for Clinical Research.* 2015; 63(4):690-690.
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10. Dong L, Yuan Y, Aguilera-Barrantes I, Chen Y, Sturich A, Yuan R, **Ren B**. Signaling Lipid Lysophosphatidic Acid Is a Critical Link to Diet-induced Obesity, Cellular Bioenergetics and Breast Cancer Angiogenesis. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 2015; 35(Suppl 1): A482.

11. Kohlenberg JD, Chen YL, Best B, Storz P, Peterson RT, Silverstein R, **Ren B**. A novel LPA-PKD1-FoxO1 pathway in endothelial cells provides an angiogenic switch via down-regulation of CD36 transcription and induction of arteriogenic responses. *Cancer research*. 2013; 73(8).
12. **Ren B**, Hale J, Ramakrishnan DP, Silverstein RL. HDAC 7 Couples LPA Signaling to Endothelial Cell CD36 Gene Regulation to Switch off TSP-1 Mediated Antiangiogenic Responses. *Circulation*. 2010; 122: A12757.
13. **Ren B**, Major J, Robles J, Srikanthan S, Silverstein RL. Lysophosphatidic Acid Suppresses Endothelial Cell CD36 Expression and Promotes Angiogenesis via a Novel PKCmu Signaling Pathway. *Arterioscler Thromb Vasc Biol*. 2009; 29: e9-e130.
14. **Ren B**, Mukhopadhyay A, Lanahan AA, Zhuang ZW, Moodie KL, Peterson RT, Simons M. Recovery of ERK signaling restores defective angiogenesis and arteriogenesis in synectin-deficient animals. *Circulation*. 2008; 118: S_576.
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Poster Exhibits:

1. D.M. Carmona Matos, R.E. Guenter , J.D. Whitt, **B. Ren,** R. Jaskula-Sztul, H. Chen. Protein Kinase D1 (PRKD1): A Potential Therapeutic Target for Neuroendocrine Malignancy. 15th Annual Academic Surgical Congress. Feb 4-6, 2020, Orlando, Florida.
2. M Chen, X SUN, C. Cucarella, P. Martin-Sanz, M. Casado, Z Ying, L Pi, **B Ren**, Q Cao. Hepatic Cox-2 expression protects mice from liver injury induced by a high-fat ethanol diet. 42nd Annual Research Society on Alcoholism (RSA) Scientific Meeting 2019, Minneapolis, Minnesota.
3. Patrick Moran, Rong Yuan, Adam Beck, **Bin Ren***. FoxO1-activated CD36 transcription may determine arterial fate of endothelial cells. American Heart Association Scientific Sessions 2018, Chicago
4. Nicholas Barnekow, Rong Yuan, Patrick Moran, Roy Silverstein, **Bin Ren***. Identification of novel metastatic skin cancer stem-like cells and their existence in vascular niche of tumor microenvironment. Cleveland Cancer Stem Cell Meeting, 2018, Cleveland
5. 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 Chicago
6. 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
7. 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
8. **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)
9. **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)
10. 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)

11. **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
12. **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)
13. **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
14. 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
15. **Bin Ren***, Devi Prasadh 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
16. 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)
17. **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
18. **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
19. **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
20. **Bin Ren***, Sareh Parangi, Carole Perruzzi, Jack Lawler, Roya Khosravi-Far. TSP-1-mediated Signaling Crosstalk with PI3K/Akt in 0Endothelial Cells, Beth Israel Deaconess Medical Center, Vascular Biology Center Retreat, Harvard Medical School, Boston, 2004
21. **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
22. **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

Oral Presentations:

1. **Bin Ren**. Transcriptional reprogramming of endothelial cells for arteriolar differentiation via lysophosphatidic acid/protein kinase D-FoxO1 signaling. FASEB Scientific Research Conference on Lysophospholipid and Related Mediators: From Bench to Clinic 2019, Lisbon, Portugal.
2. **Bin Ren.** 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)
3. **Bin Ren.** LPA/PKD-1 Signaling Axis Mediates CD36 Transcriptional Repression and Proarteriogenic Reprogramming. ATVB Annual Meeting, San Francisco, 2015.
4. **Bin Ren.** 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)
5. **Bin Ren.** HDAC 7 couples LPA signaling to endothelial cell CD36 gene regulation to swich off TSP-1-mediated antiangiogenic Responses. AHA Scientific Session, Chicago, IL, 2010
6. **Bin Ren.** Lysophosphatidic acid suppresses endothelial cell CD36 expression & promotes angiogenesis via a novel PKCmu signaling pathway. ATVB Annual Conference, Washington DC, WA, 2009
7. **Bin Ren.** Recovery of ERK signaling restores defective angiogenesis and arteriogenesis in synectin-deficient animals. AHA Scientific Session, New Orleans, LA, 2008 (E-Poster and Oral)
8. **Bin Ren**, Bailing Wu*. Functional Genomics and Angiogenesis: Challenges and Future Roadmap. ACGA International Symposium on Genome Medicine, Shanghai, China, 2005

(*****Presenter)

Miscellaneous:

Current Lab members: Yinan Jiang, MD/PhD, Postdoc/Research Scholar, Jingjing Hao, MD/PhD, Postdoc Scholar, Reagan Hattaway (UAB Physician Scientist Development Fellowship), MD Research Student, Devan Parker, Pharm D CaRES Research Student, Hailey Guo, PhD Candidate, Austin Prime, Summer Student (UAB PARAdiGM & SIBS Program), Gloria Yuan, Researcher II, Adam Beck, MD, Consultant, Bin Ren, MD, PhD (PI)

Services: Alyncia D. Robinson, PhD Dissertation Committee, UAB Department of Pathology, June, 2019

Preceptor and Mentor for Trainees (directly trained)

Reagan Hattaway, MD candidate (2022), NIH Training Program, UAB School of Medicine
Devan Parker, Pharm D candidate (2022), NIH-funded Cancer Research Experiences for Students (CaRES) program, UAB School of Public Health
Austin P. Primeaux, Bachelor of Science, Roger Hadfield Ogden Honors College, College of Science, Louisiana State University, Baton Rouge, Louisiana
Hailey Guo, PhD candidate (2023), PhD candidate, Department of Biomedical Engineering, UAB School of Medicine
Yinan Jiang, MD, PhD, Research Scholar/Postdoctoral Fellow Nov 2018 – Nov 2020
Jinjin Hao, MD, PhD, Postdoc/Visiting Scholar, March 2019 – March 2021
Jordan Palmer, College Student, Marquette University, 2018 CTSI 500 Stars Internship Program, MCW (NIH CTSA Award UL1TR001436)
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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)

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