

**Ji C. Bihl, M.D., Ph.D**

Associate Professor  
 Department of Biomedical Sciences  
 Joan C. Edwards School of Medicine  
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**EDUCATION**

| <u>Institution</u>                           | <u>Concentration</u> | <u>Degree/Dates</u> |
|----------------------------------------------|----------------------|---------------------|
| Peking University<br>Beijing, China          | Internal Medicine    | Ph.D., 2010         |
| University of South China<br>Hengyang, China | Clinical Medicine    | M.D., 2005          |

**POSTGRADUATE EDUCATION**

|                 |                                                                           |           |
|-----------------|---------------------------------------------------------------------------|-----------|
| Post-doc Fellow | Dept. of Pharmacology & Toxicology<br>Wright State University, Dayton, OH | 2010-2014 |
|-----------------|---------------------------------------------------------------------------|-----------|

**ACADEMIC EXPERIENCE**

| <u>Institution</u>                                                               | <u>Position</u>                    | <u>Dates</u> |
|----------------------------------------------------------------------------------|------------------------------------|--------------|
| Marshall University<br>Huntington, West Virginia<br>Dept. of Biomedical Sciences | Associate Professor (tenured)      | 2024-present |
| Marshall University<br>Huntington, West Virginia<br>Dept. of Biomedical Sciences | Associate Professor (tenure-track) | 2021-2024    |
| Wright State University<br>Dayton, Ohio<br>Dept. of Pharmacology & Toxicology    | Assistant Professor                | 2017-2020    |
| Wright State University<br>Dayton, Ohio<br>Dept. of Pharmacology & Toxicology    | Research Assistant Professor       | 2014-2017    |

**Research Interests:** My research interests are mainly in cerebrovascular diseases and diabetes, specifically in developing novel predictive and therapeutic avenues for ischemic stroke, hemorrhagic stroke, and vascular complications of diabetes. My long-term research career goals are to investigate:

- The balance of the renin-angiotensin system in Hypertension and hemorrhagic stroke
- The role of endothelial progenitor cells in vascular protection and tissue repair
- The therapeutic and biomarker roles of extracellular microvesicles and exosomes in vascular diseases and skin injury
- The inflammatory response in vascular inflammation and injury

**AWARDS & HONORS**

| <u>Title of Award</u>          | <u>Granting Association</u> | <u>Dates</u> |
|--------------------------------|-----------------------------|--------------|
| Early Career Achievement Award | Provost Office, WSU         | 2019         |
| Faculty Research Award         | President Office, WSU       | 2016         |
| Faculty Research Award         | President Office, WSU       | 2015         |
| Post-doctoral Fellowship Award | American Heart Association  | 2013         |

|                                 |                                                                                      |      |
|---------------------------------|--------------------------------------------------------------------------------------|------|
| Young Investigator Travel Award | XXVIth International Symposium<br>on Cerebral Blood Flow, Metabolism<br>and Function | 2013 |
| Young Scientist Travel Award    | European Association of Liver                                                        | 2010 |
| Young Scientist Travel Award    | European Association of Liver                                                        | 2009 |
| Merit Student Award             | Peking University                                                                    | 2009 |
| Outstanding Scholarship Award   | Peking University                                                                    | 2009 |
| Outstanding Student Award       | University of South China                                                            | 2003 |
| Merit Student Award             | University of South China                                                            | 2002 |

### **PROFESSIONAL MEMBERSHIP**

| <u>Association</u>                               | <u>Status</u> | <u>Dates</u> |
|--------------------------------------------------|---------------|--------------|
| Marshall University Graduate Faculty             | Committee     | 2020-present |
| Society for Neuroscience                         | Member        | 2019-present |
| American Society for Exosomes and Microvesicles  | Member        | 2018-2021    |
| International Society for Extracellular Vesicles | Member        | 2017-present |
| American Diabetes Association                    | Member        | 2015-2021    |
| National Post-doctoral Association               | Committee     | 2014-2015    |
| Wright State University Graduate Faculty         | Committee     | 2013-2020    |
| American Heart Association                       | Member        | 2011-present |
| National Post-doctoral Association               | Member        | 2010-2015    |

### **OTHER PROFESSIONAL EXPERIENCES & MEMBERSHIP**

| <u>Institution</u>                      | <u>Position</u>                                                                       | <u>Dates</u> |
|-----------------------------------------|---------------------------------------------------------------------------------------|--------------|
| Wright State University<br>Dayton, Ohio | Director of Preclinical Pharmacology Core,<br>Department of Pharmacology & Toxicology | 2015-2020    |
| <u>Association</u>                      | <u>Position</u>                                                                       | <u>Dates</u> |
| Experimental Biology Meeting            | Section Chair                                                                         | 2021         |
| WSU Post-doctoral Association           | President                                                                             | 2016-2017    |
|                                         | Member                                                                                |              |
| WSU Post-doctoral Association           | Vice President                                                                        | 2015-2016    |
|                                         | Member                                                                                |              |
| WSU Post-doctoral Association           | Secretary                                                                             | 2014-2015    |
|                                         | Member                                                                                |              |

### **JOURNAL SERVICE & REVIEWS**

#### Editorial Board:

*CNS Neuroscience & Therapeutics*  
*Frontiers in Neuroscience*  
*Frontiers in Stroke*  
*Frontiers in Cardiovascular Medicine*  
*Frontiers in Medicine – Hematology*  
*Oxidative Medicine and Cellular Longevity*

#### Guest Editor:

Special Issue in *International Journal of Molecular Sciences*  
Special Issue in *Frontiers in Stroke*  
Special Issue in *Frontiers in Cardiovascular Medicine*  
Special Issue in *Oxidative Medicine and Cellular Longevity*

#### Section Chair:

*Experimental Biology 2021- Physiology*

#### Study Sections

AHA Pre-doctoral and Post-doctoral Fellowship Award  
 WVCTSI Pilots Program - Bench to Bedside Grant  
 NIH Skin and Connective Tissue Sciences  
 AHA Transformational Project Award  
 WVCTSI Pilot Program - Open Grant  
 National Science Foundation (NSF)  
 NIH Scientific Review Special Emphasis Panel  
 West Virginia Clinical and Translational Science Institute OPEN Grant  
 National Science Centre Poland  
 NIH Small Business Panel for Drug Discovery Involving The Nervous System  
 AHA Innovative Project Award  
 AHA Mechanisms Underlying Cardiovascular Consequences Associated with COVID-19 and Long COVID  
 Diabetes UK  
 The Portuguese Foundation for Science and Technology (FCT)

Abstract Reviewer for Scientific Conference

|                                                            |              |
|------------------------------------------------------------|--------------|
| Marshall Student Research and Creativity Symposium         | 2022-2023    |
| The Annual Marshall University Health Science Research Day | 2021-Present |
| International Stroke Conference (ISC)                      | 2021-Present |

**WORKSHOPS AND TRAINING SESSIONS**

| <u>Sessions</u>                                              | <u>Institutes</u>            | <u>Dates</u> |
|--------------------------------------------------------------|------------------------------|--------------|
| AI and the Future of Med Ed                                  | AAMC                         | 2025         |
| Mentorship Academy                                           | Marshall University          | 2025         |
| Advances in Therapeutics Development for Parkinson's Disease | Online webinar               | 2024         |
| Mentorship Development Program                               | WVCTSI                       | 2024         |
| Roadmap to Mentoring Symposium                               | Marshall University          | 2023         |
| Promoting Academic Community of Excellence (PACE)            | Marshall University          | 2023-2024    |
| Tech Tools – Grammarly and Laptops in the Classroom          | Marshall University          | 2022         |
| Building Your Advancement Portfolio                          | Marshall University          | 2022         |
| Great Teachers Seminar                                       | Marshall University          | 2022         |
| FAWN Writing                                                 | Marshall University          | 2022         |
| Vignette Item Writing Workshop                               | Marshall University          | 2021         |
| Accelerating Research Productivity                           | Marshall University          | 2021         |
| Write Winning Grant Proposals                                | Marshall University          | 2021, 2022   |
| Faculty Leadership Academy                                   | Wright State University      | 2019-2020    |
| WAVE Stroke Workshop                                         | Tulane University            | 2020         |
| Grant Writers Workshop                                       | Wright State University      | 2016         |
| Grant Proposal Development and Writing                       | Wright State University      | 2015         |
| Write Winning Grant Proposals                                | Wright State University      | 2014         |
| NIH Bio-Trac: Flow Cytometry                                 | National Institute of Health | 2010         |

**TEACHING**

Medical Students:

- CPR (MDC807): Endothelial Function, 2 hours 2022– present
  - **Role: Lecturer**
  - Material Covered: This session covers the function of the endothelium in the vascular system, the regulation of endothelial function, endothelial dysfunction and its role in vascular disease, the assessment of endothelial function, and the prevention and treatment of endothelial dysfunction.
- 3389: Clinical Reasoning, 2 hours/section 2021– present

- **Role: Facilitator**
- Material Covered: These sessions are integrated into and run as part of the Pre-clerkship curriculum taken by MS1 and MS2 students. Our goal is to schedule these sessions every 4-5 weeks during each course. The students attend Clinical Reasoning sessions in small groups of 6-7 with one faculty member. The faculty member starts the session during each session by giving the students a brief description of a case. The students discuss the case and request additional information. Based on this information, the students are supposed to develop a differential diagnosis. The faculty member shows the actual diagnosis at the end of the session. After the session, the faculty member fills out an evaluation form for each student in their group.
- PTH 816: Overview of Animal Research, 2 credit hours 2019– 2020
  - **Role: Course Co-Director**
  - Material Covered: Overview of relevant information about animal research and selected mouse models. Students will complete all required training in order to enter the animal vivarium. Students will complete mouse anatomy and technique learning laboratories and observe advanced animal research techniques. Students will observe investigators and other medical students who utilize mouse models to study human diseases in their laboratories.

Master/Ph.D. Students:

- BSC 640: Molecular and Cellular BioMedicine, 4 hours 2023
  - Topic: Research Approaches for Cerebrovascular Diseases
  - **Role: Lecturer**
  - Material Covered: Introduction of stem cells and stroke research, and the advanced approaches of related biomedical research; Leading journal club and direct discussions of research papers in the related biomedical research area.
- BMR 604: Cellular Basis of Disease, 2 hours 2023– present
  - Topic: Extracellular Vesicles
  - **Role: Lecturer**
  - Material Covered: Introduction of the extracellular vesicles with definition, biogenesis, cargoes, detection, isolation, and their application in medicine.
- BMR 603: Regulation of Cell Function, 3 hours 2023– present
  - Topic: Nitrogen Metabolism
  - **Role: Lecturer**
  - Material Covered: Overview of nitrogen metabolism, including how nitrogen metabolism regulates cell function, biosynthesis of nonessential amino acids, and molecules derived from amino acids.
- PHS 666: Physiology of Cell, 1.5 hours 2022– present
  - Topic: Mechanism of insulin-stimulated glucose uptake
  - **Role: Lecturer**
  - Material Covered: The actions of insulin on skeletal muscle, liver, adipose tissue, and the adipocyte-hepatocyte axis.
- PHS 666: Physiology of Cell, 1.5 hours 2022– present
  - Topic: Insulin Resistance
  - **Role: Lecturer**
  - Material Covered: Protein kinase C, insulin resistance, and the mechanical link between protein kinase C and hepatic insulin resistance.
- BMR 601: Introduction to Nucleic Acids and Proteins, 2 hours 2022– 2024
  - Topic: Microscope
  - **Role: Lecturer**
  - Material Covered: Overview of the microscope, including why an image looks different in bright-field, phase-contrast, and differential-interference-contrast microscopy, how fluorescent microscopy works – conventional, confocal, two-photon, and how electron microscopy works.
- PHS 667: Experimental Approaches to Physiology, 1 hour 2022– present
  - Topic: Regulation of CV Function
  - **Role: Lecturer**

- Material Covered: Overview of the cardiovascular system (CV) and the regulation of CV by the neurohumoral mechanism.
- PHS 667: Experimental Approaches to Physiology, 1 hour 2022– present
  - Topic: Physiological Challenge
  - **Role: Lecturer**
  - Material Covered: The objective of this class is to describe the integrated response of multiple organ systems to a specific physiological challenge. Discuss how the body reacts to this physiological challenge and how the organs work together upon this physiological challenge.
- PTX 8000: Leadership, Theory, and Application 2018– 2019
  - **Role: Guest Lecturer**
  - Material Covered: The objective of this class is to make you a better leader. Through the use of 2 well-known books and the power platform, the students will leave the class with a better understanding of what it takes to be a leader. One or two students will present a chapter as a PPT, a summary, or a game each week. Creativity is important.
- PTX 8014: Integrative Pharmacology and Toxicology Methods, 3 credit hours 2018– 2020
  - **Role: Course Director**
  - Material Covered: Introduction of essential and general principles on animal handling, care, and experimental design for MS students. Discussed animal models and integrative methods for cardiovascular research. Introduced types of animal models for cardiovascular research and taught basic techniques for the animal (hands-on), such as tail vein injection, brain microinjection, and telemetric probe implantation.
- PTX 8000-04: Cell Culture Training, 1 credit hour 2014– 2020
  - **Role: Course Director**
  - Material Covered: Developed and prepared lecture materials, and designed laboratory experiments for a graduate-level course

#### Physician Assistant Students:

- PAS 500: Foundations of Medicine, 5 hours 2025– present
  - Topics: Physiology of the Renal and Urinary System
  - **Role: Lecturer**
  - Material Covered: The Foundation of Medicine is designed to integrate biomedical and clinical knowledge. The renal and urinary system class will provide the student with the information on basic anatomy, filtration and urine formation, renin and angiotensin system, acid-base balance, and synthesis function.
- PAS 500: Foundations of Medicine, 5 hours 2023– present
  - Topics: Introduction to the Endocrine System, Hypothalamic Pituitary Axis, Thyroid Hormone, The Adrenal Hormone, Energy Balance, Regulation of Metabolism, and Endocrine Regulation of Eating Disorders
  - **Role: Lecturer**
  - Material Covered: The Foundation of Medicine is designed to integrate biomedical and clinical knowledge. The endocrine system class will provide the student with the background to address basic and clinical aspects of the endocrine system. The course will include the physiology, anatomy, and pathology of the endocrine system, as well as common medical conditions related to the endocrine system.

#### MS and MD/MS Students:

- PTX 8000-05: Online Journal Club, 1 credit hour 2014– 2017
  - **Role: Course Director**
  - Material Covered: Taught medical students to read, interpret, and present literature critically. Areas of interest include statistical analysis, experiment design, experimental methods, and concluding the results, etc.
- PTX 775: Integrative Pharmacology and Toxicology Methods, 3 credit hours 2012 – 2014
  - **Role: Guest lecturer**

- Material Covered: Introduction of essential and general principles on animal handling, care, and experimental design for MS students. Discussed animal models and integrative methods for cardiovascular research. Introduced types of animal models for cardiovascular research, and taught basic techniques for the animal (hands-on), such as tail vein injection, brain microinjection, and telemetric probe implantation.

#### Undergraduate Students:

- PTX 990: Journal Club, 1 credit hour 2012 – 2014
  - **Role: Moderator of journal paper study group**
  - Material Covered: Facilitated a school-sponsored undergraduate club in effectively and efficiently reading journal articles and writing journal papers. Areas of interest include statistical analysis, experiment design, experimental methods, and concluding the results, etc.

#### High School Students:

- NIH High School Diversity Program, 1 hour 2023
  - **Role: lecturer**
  - Material Covered: Introduction of the background, approach, and outcomes of my research.

### **MENTORING**

#### Research Assistant Professor:

Jinju Wang, Ph.D. 2020-2022

*“Role of exercise in vascular diseases.”*

During the mentoring period, Dr. Wang has published over **6 papers** and obtained a **Career Development Award** from the American Heart Association, **a three-year grant**, 4/1/2022-5/31/2025. I serve as the **mentor** for this grant. Dr. Wang was promoted to Assistant Professor on 6/2022.

#### Post-doctoral Fellow:

Jinju Wang, Ph.D. 2016-2020

During the mentoring period, Dr. Wang has published over **10 papers** and obtained a Post-doc Fellowship Award from the American Heart Association, **a two-year grant**, 7/1/2018-6/30/2020. I serve as the **Mentor** of this grant. Dr. Wang was promoted to Research Assistant Professor in 7/2020.

#### Ph.D. Student:

Harshal Sawant, MS 2022-2027

*“The effects of diabetic adipocytes-exosomes on endothelial function.”*

During the mentoring period, Harshal received **Second Place for the Oral Presentation Award** of the Research Day at Marshall University, 2025. 13 publications with five as the first author.

#### Master Students:

1. Sri Meghana Yerrapragada, MS 2019-2021

*“The protective effects of miR210 modified EPC-EXs in H/R-injured neurons.”*

Three publications, with two as the first author. Currently in the Ph.D. program at Wright State University.

2. Venkata Sai Usha Sri Polaki, MS 2018-2020

*“The role of macrophage polariton in vascular function in hypertensive mice.”*

Two co-author publications. Currently in the Ph.D. program at the University of Wisconsin-Madison.

3. Mannis Halurkar, MS 2017-2019

*“Effects of EPC-EXs on high glucose and hypoxia/reoxygenation-induced injury of neurons and astrocytes.”*

During the mentoring period, Mannis received **First Place for the Poster Award** of the Ohio Valley Chapter of the Society of Toxicology 2017 meeting.

Two publications with one as first author. Currently in the Ph.D. program at Purdue University.

#### Visiting Scholars:

1. Yuchen Li, Ph.D. 2024-2026  
*"Identify the role of exosomes in mediating ferroptosis in hemorrhagic stroke."*
2. Bowen Sun, Ph.D. candidate 2022-2024  
 Two first-author publications. Currently is a Post-doc at the University of Pennsylvania.  
*"Role of RIG-1 in hemorrhagic stroke."*
3. Yuchen Li, Ph.D. 2018-2020  
*"Role of ferroptosis in hemorrhagic stroke."*  
 Five publications with four as the first author. Currently is an Assistant Professor at Harbin Medical University.
4. Andressa Teixeira, Ph.D. 2015-2016  
*"Role of endometrial stromal stem cells and endothelial progenitor cells (EPCs) in angiogenesis and regeneration."*  
 Currently is an Assistant Professor in Brazil.

#### Summer Research Undergraduate/MD Students:

1. Cindy Zhou, 2025 (AHA Undergraduates program of JCESOM)
2. Brody Pinson, 2024 (AHA Undergraduates program of JCESOM)
  - Capstone project "Role of exercise in adipose tissue inflammation in hypertensive mice model", 2024-2025
  - **Awarded a NASA Undergraduate Research Award** (\$1,500), 2025
3. Kasonja Hill, 2024 (JCESOM Summer Research program)
4. Regan Meyer, 2023 (AHA Undergraduates program of JCESOM), oral presentation in the Ohio Physiological Society 37th Annual Meeting, October 2023.
5. Smara Sigdel, 2022 (AHA Undergraduates program of JCESOM), presented at an international conference. Worked as a part-time Undergraduate Research Assistant in my lab, 2023-2024.
6. Erin Mcgrady, 2022 (JCESOM Summer Research program), **one publication** in 2024.
7. Jared Mattingly, 2021 (JCESOM Summer Research program), **one publication** in 2021.

#### Research Students:

1. Isha Gupta, 2024, Undergraduate student
2. Gavin Hayes, 2023-2024, Medical student
3. Christopher Grahe, 2023, Ph.D. student, research rotation
4. Jimmy Hart, 2021, Ph.D. student, research rotation.
5. Otheman Eldalal, 2018
6. Tahani Alshammari, 2018

#### Advisor, Leadership Students:

Lavanya Kandur, 2018; Anhar Hosawi, 2017; Bissan Hassan, 2017; Unmesha Thanekar, 2017; Haya Alrajeh, 2016.

#### High School Research Students:

Vinu Chandrasekar, 2023; Eileen Yang, 2018; Eleanor Liu, 2017.

#### Thesis Advisory Committee:

##### **Ph.D. students**

1. Renat Roytenberg 2021-2024  
*"Role of Thymidine Phosphorylase in COVID-19-associated Inflammation and Thrombosis"* (Chair: Li W)
2. Praveen Kumar Alla 2016-2021  
*"Toxicity studies of silver nanoparticles on HEK293 cells."* (Chair: Pavel L)
3. Langni Liu 2015-2020  
*"UVB-induced MVP carry and transfer inflammatory lipids and protein through PAFR and acid sphingomyelinase."* (Chairs: Travers J and Chen Y)

##### **Master students**

##### 2019-2021

1. Shweta Bhadri

*“Potential Involvement of Micro vesicle Particles in the Synergistic Effects of Ultraviolet-B Radiation and Platelet-Activating Factor Receptor Agonists on Cytokine Production.” (Chair: Travers J)*

2. Lea Christian

*“Xeroderma Pigmentosum A Deficiency Results in Increased Generation of Microvesicle Particles in Response to Ultraviolet B Radiation.” (Chair: Travers J)*

3. Meghana Ginugu

*“Extracellular vesicles from UVB irradiated keratinocytes contain cyclobutane pyrimidine dimers.” (Chair: Kemp M)*

#### 2018-2020

1. Andrew Forino

*“Determining Effects of the PAF-R and anti-hypertensive drugs mediated microvesicle particle release in modulating anti-tumor response of lung cancer.” (Chair: Sahu R)*

2. Kartheek Pothana

*“Effects of UVB-induced exosomes released from keratinocytes on Schwann cells.” (Chair: Chen Y)*

3. Oladayo Ayobami Oyebanji

*“Photodynamic therapy (PDT) induces microvesicle particle (MVP) production.” (Chair: Travers J)*

#### 2017-2019

1. Pariksha Thapa

*“Kinetics of Microvesicle particles.” (Chair: Travers J)*

#### 2016-2018

1. Qinmao Ye

*“Exosomes released from multiple cells influence the angiogenic function of endothelial cells by regulating miR-29b.” (Chair: Chen Y)*

2. Azeezat Awoyemi

*“Regulation of microvesicle particle release in keratinocytes.” (Chair: Travers J)*

#### 2015-2017

1. Katherine Fahy

*“Thermal burn injury-induced microvesicle particle release.” (Chair: Travers J)*

#### 2014-2016

1. Ravina M. Ashtaputre

*“Proteomic biomarker analysis of amniotic fluid at term and per-term delivery.” (Chair: Cool D)*

2. Sayali Dharmadhikari

*“Examining infarct sizes in female Sprague Dawley rats in response to a delayed post-stroke pharmacological treatment with physical rehabilitation.” (Chair: Corbette A)*

#### 2013-2015

1. Ashvin Iyer

*“Proteomic and lipidomic profiling of vulvodynia patients.” (Chair: Cool D)*

2. Abdelfatah S. Abou Issa

*“Effect of oasis ultra-matrix on the healing rate of stage III and IV pressure wounds.” (Chair: Simmon R)*

3. Langni Liu

*“Endothelial progenitor cell-derived MVs and exosomes: release and functional study.” (Co-**advisor**, Chair: Chen Y)*

4. Mahesh Kodali

*“Identification of the collagen types in injured patellar tendons following mesenchymal stem cell therapy in rabbits.” (Chair: Cool D)*

#### 2012-2014

1. Hala Mustafa Ammar

*“The Modulatory Role of Circulating Microvesicles in Endothelial Progenitor Cell Function Is Altered in T2DM.” (Co-**advisor**, Chair: Chen Y)*

2. Xiang Xiao

*“Effects of Ang 1-7 and endothelial microvesicles on Ang II-induced cerebral endothelial cell dysfunction and apoptosis.” (Co-**advisor**, Chair: Chen Y)*

## **SERVICE TO DEPARTMENTAL/INSTITUTE**

### **Director of the Preclinical Pharmacology Core**

2015-2020

The Preclinical Pharmacology Core (PPC) of WSU aims to provide technology, expertise, and resources for research projects, including animal surgeries, exercise, telemetry systems, and animal behavior tests. This core provides **services** for animal surgeries, animal modeling, and behavior tests, as well as training students or staff and conducting pilot studies to provide preliminary data for grant applications. Moreover, this core leverages the **teaching** mission by providing courses (PTX 8014 C01 and PTH 816) for MS, MD, and Ph.D. students.

### **Committee Services**

|              |                                                                         |
|--------------|-------------------------------------------------------------------------|
| 2023         | Dean's Award for Excellence in Research Selection Committee             |
| 2022-present | Joan C Edwards School of Medicine Faculty Council                       |
| 2022-present | Marshall University Faculty Senate                                      |
| 2022-present | Marshall University Institutional Animal Care and Use Committee (IACUC) |
| 2022         | Dean's Award for Excellence in Research Selection Committee             |
| 2022-present | Research Committee for the Biomedical Sciences Department               |
| 2019-2020    | WSU Institutional Animal Care and Use Committee (IACUC )                |
| 2019-2020    | Biomedical Sciences Program (BMS) Admissions Committee                  |
| 2018-2020    | Basic Science Track Committee for BSOM Medical Student Scholarship      |
| 2016-2017    | President of the WSU Post-doc Association                               |
| 2015-2016    | Vice President of the WSU Post-doc Association                          |
| 2014-2015    | Secretary of the WSU Post-doc Association                               |
| 2014-2020    | Pharmacology & Toxicology Master's Program Admission Committee          |

## **RESEARCH FUNDING**

### **Active Research Funding**

| <u>Grant ID</u> | <u>Institute</u> | <u>Role</u> | <u>Cost</u> | <u>Dates</u>    |
|-----------------|------------------|-------------|-------------|-----------------|
| OPEN grant      | WVCTSI           | PI          | \$50,000    | 01/2025-01/2026 |

The role of retinoic acid-inducible gene I (RIG-1) in early brain injury after hemorrhagic stroke

The primary goal of this project is to determine the role of RIG-1 in early brain injury after subarachnoid hemorrhage by focusing on the endothelial function and blood-brain barrier integrity and function.

|              |                            |                                  |           |                 |
|--------------|----------------------------|----------------------------------|-----------|-----------------|
| 24TPA1291189 | American Heart Association | Co-investigator<br>(PI: Wang, J) | \$300,000 | 07/2024-06/2027 |
|--------------|----------------------------|----------------------------------|-----------|-----------------|

ACE2 primed exosomes: therapeutic application for aging hypertension-related ischemic stroke

In this project, we hypothesize that ACE2-EPC-EXs can provide synergic cerebral microvascular and neural protection effects and enhance angiogenesis and neurogenesis to alleviate neurological impairment in aging hypertension-related ischemic stroke.

|        |                            |                                  |           |                 |
|--------|----------------------------|----------------------------------|-----------|-----------------|
| 850405 | American Heart Association | Contributor<br>(PI: Santanam, N) | \$165,000 | 01/2025-12/2027 |
|--------|----------------------------|----------------------------------|-----------|-----------------|

Institutional Award for Undergraduate Student Training

This is a Summer Undergraduate Student Research Program to offer a meaningful research experience that supports the mission of the American Heart Association for undergraduate college students.

### **Previous Research Funding**

|              |                            |                         |           |                 |
|--------------|----------------------------|-------------------------|-----------|-----------------|
| CDA (935826) | American Heart Association | Mentor<br>(PI: Wang, J) | \$231,000 | 04/2022-03/2025 |
|--------------|----------------------------|-------------------------|-----------|-----------------|

The role of EPC exosomal communication in the beneficial effects of exercise on ischemic stroke

This project aims to investigate the role of EPC-released exosomes in mediating the communication between endothelial cells, neurons, and smooth muscle cells and modulating this communication to provide beneficial effects on ischemic stroke.

|                                             |  |    |          |                 |
|---------------------------------------------|--|----|----------|-----------------|
| Chronic Disease Research Program (WV-INBRE) |  | PI | \$60,000 | 07/2022-06/2024 |
|---------------------------------------------|--|----|----------|-----------------|

The signaling transport role of adipocyte exosomes of vascular damage in diabetes

The primary goal of this project is to investigate the function of exosomes released from adipose tissue in diabetic mice in the vascular pathological and functional changes in diabetes.

1R01NS102720 NINDS PI \$1,875,000 05/2018-01/2024

Exosomes from miR-primed endothelial progenitor cells for treating ischemic stroke

The major goal of this project is to determine the enhanced therapeutic effects of EPC-EXsmiR210 on IS by protecting the brain from ischemic injury and promoting neurological recovery. Moreover, this project will provide important mechanistic insights into relevant miRNAs, such as miR-126 and miR-210.

Small Grant WVCTSI PI \$5,000 11/2021-04/2022

Level and phenotype of macrophage exosomes in hemorrhagic stroke patients

The major goal of this project is to determine the level and phenotype of immune cell-released exosomes in the circulation of hemorrhagic stroke patients.

5R21AR071110 NIAMS PI \$407,332 08/2017-07/2020

Microvesicles as a novel transmitter for UVB-induced bioactive products

The major goals of this project are to determine the involvement of the PAF-PAFR signaling pathway in mediating UVB-induced MVP release and the effects of antioxidants on UVB-induced MVP release, and to determine the bioactive agents in UVB-MVP.

1-17-IBS-187 American Diabetes Association PI \$308,000 01/2017-12/2020

Therapeutic role of miR-126 over-expressing EPC-MVs for ischemic stroke in diabetes

The major goal of this project is to determine the therapeutic role of miR-126-EPC-MVs in ischemic stroke in diabetes by protecting ECs/EPCs/neurons/astrocytes against ischemic and inflammatory injury and promoting angiogenic/neurogenic repair, and determining the predictive role of the levels of cEPC-MVs and their carried miR-126 for ischemic stroke outcomes in diabetic patients.

16SDG26420078 American Heart Association PI \$345,000 01/2016-06/2020

Role of ACE2 over-expressing endothelial progenitor cells in cerebral hemorrhage

The goal of this project is to determine the preventive and therapeutic role of angiotensin-converting enzyme 2 (ACE2) over-expressing endothelial progenitor cells (ACE2-EPCs) in a hemorrhagic stroke animal model and determine the underlying mechanisms.

18POST33990433 American Heart Association Mentor \$110,000 07/2018-06/2020  
(PI: Wang, J)

The regulatory effect of exercise on circulating EPC-EXs and its implication in ischemic stroke

The major goal of this project is to investigate the role of exercise in the level of EPC-EXs and the miR-126 expression in EPC-EXs and their correlations with ischemic stroke outcomes.

13POST14780018 American Heart Association PI \$93,000 01/2013-12/2014

Role of Angiotensin II/Angiotensin (1-7) balance in intracerebral hemorrhagic stroke

The goal of this project is to investigate the role of Angiotensin II/Angiotensin (1-7) balance in EPC and EC function and the progression of intracerebral hemorrhagic stroke, and to examine the underlying mechanisms related to NFκB.

2R01HL062996 NHLBI Co-investigator \$1,500,000 01/2020-11/2023  
(PI: Travers, J)

Platelet Activating Factor and Epidermal Cytotoxicity.

The major goal of this project is to investigate the combinatorial impact of short-term ethanol exposure and thermal burn injury on platelet-activating factors and microvesicle particles in keratinocytes, leading to multi-organ dysfunction.

Pharmaceutical Research Grant AMAG Co-investigator \$50,000 10/2020-09/2021

(PI: Brwon, T)

Placental exosomes induce pathophysiological symptoms of pre-eclampsia

The goal of this project is to advance our understanding of preeclampsia etiology. It will identify a signaling mechanism integral to the generation of preeclampsia that could be utilized to develop targeted, novel therapeutics to improve maternal and neonatal health.

## **PRINTED SCHOLARSHIP**

### **Book Chapter**

1. **Bihl J**, Wang J, Ma X, Bin Z, Yang Y, Chen Y, (2017) "Exosome and MiRNA in Stroke," Springer Ser. Translations, Paul A. Lapchak and John H. Zhang (Eds): Cellular and Molecular Approaches to Regeneration and Repair, 978-3-319-66678-5, 433632\_1\_En, (17)

### **Peer-Reviewed Articles**

1. Sun B, Li Y, Lan S, Wang XA, Ling Y, Sawant H, Zhang B, Yang J, Wang J, Wu P, Xu S, **Bihl J (Co-corresponding author)**, Shi H. Retinoic acid-inducible gene-I aggravates neuroinflammation in early brain injury after subarachnoid hemorrhage through mediating brain microvascular endothelial cell pyroptosis. *Neurotherapeutics*. 2025, 22(4):e00572. PMID: 40175216.
2. Sawant H, **Bihl J**, Borthakur A. A Simplified method for the isolation of extracellular vesicles from probiotic bacteria and their characterization. *Int J Mol Sci*. 2025, 26(3): 1058. PMCID: PMC11817318.
3. Sawant H, Sun B, Mcgrady E, **Bihl J**. Role of miRNAs in neurovascular injury and repair. *J Cereb Blood Flow Metab*. 2024, 44(10):1693-1708. PMID: 38726895.
4. Chen S, Sigdel S, Sawant H, **Bihl J**, Wang J. Exercise-intervened endothelial progenitor cell exosomes protect N2a cells by improving mitochondrial function. *Int J Mol Sci*. 2024, 25(2):1148. PMID: 38256220.
5. Wang J, Chen S, Sawant H, **Bihl J**. The miR-210 primed endothelial progenitor cells exosomes alleviates acute ischemic brain injury. *Curr Stem Cell Res Ther*. 2024, 19(8):1164-1174. PMID: 37957914.
6. Sun B, Sawant H, Borthakur A, **Bihl J**. Emerging Therapeutic Role of Gut Microbial Extracellular Vesicles in Neurological Disorders. *Front Neurosci*. 2023, 17:1241418. PMID: 37621715.
7. Chen S, Polaki V, **Bihl J** and Wang J. Compromised endothelial progenitor cell exosomal communication with endothelial cells in hypertension ischemia conditions. *Front Stroke*. 2022;1:1015463. PMID: 39450345.
8. Sawant H, Bihl T, Nguyen D, Iwuchukwu I, **Bihl JC**. The profile of inflammatory extracellular vesicles in intracerebral hemorrhage patients. *Front Stroke*. 2022;1:988081. PMID: 40129971.
9. Yerrapragada SM, Sawant H, Chen S, Bihl T, Wang J, **Bihl JC**. The protective effects of miR-210 modified endothelial progenitor cells released exosomes in hypoxia/reoxygenation injured neurons. *Exp Neurol*. 2022, 358:114211. PMID: 36027941.
10. Halurkar MS, Wang J, Chen S, **Bihl JC**. EPC-EXs improve astrocyte survival and oxidative stress through different uptaking pathways in diabetic hypoxia condition. *Stem Cell Res Ther*. 2022, 13(1):91. PMID: 35241178
11. Wang J, Pothana K, Chen S, Sawant H, Travers JB, **Bihl J**, Chen Y. Ultraviolet B Irradiation Alters the Level and miR Contents of Exosomes Released by Keratinocytes in Diabetic Condition. *Photochem Photobiol*. 2022, 98(5):1122-1130. PMID: 34931322.
12. Yerrapragada SM, **Bihl JC**. Role of exosomes in mediating the cross-talk between adipose tissue and the brain," *Neuromolecular Med*. 2022, 24(2):57-61. PMID: 33978939.
13. Mattingly J, Li Y, **Bihl JC**, Wang J. The promise of exosome applications in treating central nervous system diseases. *CNS Neurosci Ther*. 2021, 27(12):1437-1445. PMID: 34636491.
14. Liu L, Awoyemi AA, Fahy KE, Thapa P, Borchers C, Wu BY, McGlone CL, Schmeusser B, Sattouf Z, Rohan CA, Williams AR, Cates EE, Knisely C, Kelly LE, **Bihl JC**, Cool DR, Sahu RP, Wang J, Chen Y, Rapp CM, Kemp MG, Johnson RM, Travers JB. Keratinocyte-derived microvesicle particles mediate ultraviolet B radiation-induced systemic immunosuppression. *J Clin Invest*. 2021, 131(10). PMID: 33830943.
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17. Wang J, Polaki V, Chen S, **Bihl JC**. Exercise improves endothelial function associated with alleviated inflammation and oxidative stress of perivascular adipose tissue in type 2 diabetic mice. *Oxid Med Cell Longev*. 2020:8830537. PMCID: PMC7781720.
18. Wang J, Chen S, Zhang W, Chen Y, **Bihl JC**. Exosomes from miRNA-126-modified endothelial progenitor cells alleviate brain injury and promote functional recovery after stroke. *CNS Neurosci Ther*. 2020, 26(12):1255-1265. PMCID: PMC7702230.
19. Li Y, Wang J, Chen S, Wu P, Halurkar M. S, Shi H, **Bihl J**. MiR-137 boosts the neuroprotective effect of endothelial progenitor cell derived-exosomes in oxyhemoglobin treated SH-SY5Y cells partially via COX2/PEG2 pathway. *Stem Cell Res Ther*. 2020, 11(1):330. PMCID: PMC7586676.

Promoted to Associate Professor in November 2020

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22. Wang J, Chen S, **Bihl J**. Exosome-mediated transfer of ACE2 (Angiotensin-Converting Enzyme 2) from endothelial progenitor cells promotes survival and function of endothelial cell. *Oxid Med Cell Longev*. 2020:4213541. PMCID: PMC6995312.
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24. Li Y, Wu P, Dai J, Zhang T, **Bihl J**, Wang C, Liu Y, Shi H. Inhibition of mTOR alleviates early brain injury after subarachnoid hemorrhage via relieving excessive mitochondrial fission. *Cell Mol Neurobiol*. 2020, 40(4):629-642. PMID: 31728694.
25. Pan Q, Ma C, Wang Y, Wang J, Zheng J, Du D, Liao X, Chen Y, Chen Y, **Bihl J**, Chen C, Yang Y, Ma X. Microvesicles-mediated communication between endothelial cells modulates endothelial survival, and angiogenic function via transferring of miR-125a-5p. *J Cell Biochem*. 2019, 120(3):3160-3172. PubMed PMID: 30272818.
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27. Ma X, Wang J, Li J, Ma C, Chen S, Lei W, Yang Y, Liu S, **Bihl J**, Chen C. Loading miR-210 in endothelial progenitor cells derived exosomes boosts their beneficial effects on hypoxia/reoxygenation-injured human endothelial cells via protecting mitochondrial function. *Cell Physiol Biochem*. 2018, 46(2):664-675. PubMed PMID: 29621777.
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Promoted to Assistant Professor in February 2017

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37. Wang J, Chen Y, Yang Y, Xiao X, Chen S, Zhang C, Jacobs B, Zhao B, **Bihl J (Co-corresponding author)**, Chen Y. Endothelial progenitor cells and neural progenitor cells synergistically protect cerebral endothelial cells from hypoxia/reoxygenation-induced injury via activating the PI3K/Akt pathway. *Mol Brain.* 2016, 9(1):12. PMID: PMC4738765.
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43. Zheng J, Li G, Chen S, **Bihl J**, Buck J, Zhu Y, Xia H, Lazartigues E, Chen Y, Olson JE. Activation of the ACE2/Ang-(1-7)/Mas pathway reduces oxygen-glucose deprivation-induced tissue swelling, ROS production, and cell death in mouse brain with angiotensin II overproduction. *Neuroscience.* 2014, 9: 39-51. PMID: PMC4159741.
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Started career at Wright State University as Research Assistant Professor in June 2014

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56. **Chen J**, Wang Y, Wu X, Li J, Hou F, Wang G. Pegylated interferon  $\alpha$ -2b up-regulates specific CD8+ T cells in patients with chronic hepatitis B, *World J Gastroenterol*. 2010, 16(48), pp. 6145-50. PMID: PMC3012572.
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## **PRESENTATIONS**

### ***Invited Oral Presentations***

1. Extracellular vesicles and stem cells: unlocking new frontiers in stroke recovery and regeneration. Marshall University, Huntington, WV, March 2025.
2. Extracellular vesicle-mediated brain repair in stroke. University of Kentucky, Lexington, KY, October 2023.
3. Role of exosomes and exosomal miRNAs in vascular diseases. Seminar MIIR rounds, Huntington, WV, November 2021.
4. Role of exosomes and exosomal miRNAs in brain repair after stroke. Obesity and Related Diseases Research Cluster, Huntington, WV, October 2021.
5. Introduction to microvesicles and exosomes. Experimental Biology 2021, April 2021.

6. Role of exosomes and exosomal miRNAs in brain repair after stroke. Marshall University, Huntington, WV, March 2020.
7. Extracellular vesicles in stroke pathogenesis and therapy. Wright State University, Dayton, OH, November 2019.
8. Extracellular Microvesicles: New Insights for Diagnosis and Therapeutic Applications for Vascular Diseases. Wright State University, Dayton, OH, October 2019.
9. The Role of Stem Cell-Released Exosomes in Stroke. Wright State University, Dayton, OH, September 2018.
10. Integrative Research for Vascular Diseases. Marshall University, Huntington, WV, September, January 2017.
11. Endothelial Progenitor Cells in Vascular Diseases. Marshall University, Huntington, WV, September 2016.
12. Endothelial Progenitor Cells: Therapeutic Potential for Ischemic Stroke. Wright State University, Dayton, OH, September 2014.

### **Conference Abstracts**

1. Harshal Sawant, Bowen Sun, Regan Meyer, Shuzhen Chen, Yuchen Li, **Ji Bihl** (2025) "Hyperglycemic adipocyte-derived exosomes aggravate oxidative stress, lipid peroxidation and mitochondrial dysfunction of brain microvascular endothelial cells in ischemic stroke," Health Sciences Research Day, Oral (Received Excellent Award), Huntington, WV
2. Harshal Sawant, Bowen Sun, Regan Meyer, Shuzhen Chen, Yuchen Li, **Ji Bihl** (2025) "Hyperglycemic adipocyte-derived exosomes aggravate oxidative stress, lipid peroxidation and mitochondrial dysfunction of brain microvascular endothelial cells in ischemic stroke," American Heart Association Scientific Sessions 2025, New Orleans, LA
3. Cindy Zhu, Harshal Sawant, **Ji Bihl** (2025) "Differences Between Visceral and Subcutaneous Adipocyte-Derived Exosomes in Cerebrovascular Complications of Diabetes," Basic Cardiovascular Sciences Scientific Sessions, Baltimore, MD
4. Brody Pinson, Harshal Sawant, Venkata Sai Usha Sri Polaki, **Ji Bihl** (2024) "Role of exercise in adipose tissue inflammation in hypertensive mice model," Basic Cardiovascular Sciences Scientific Sessions, Chicago, IL
5. Harshal Sawant, Bowen Sun, Regan Meyer, **Ji Bihl** (2024) "The Effects of High Glucose on the Release of Exosomes From Adipocytes," Vascular Discovery: From Genes to Medicine 2024 Scientific Sessions, Chicago, IL
6. Harshal Sawant, **Ji Bihl** (2024) "The effects of high glucose on the release of exosomes from adipocytes," MU Research and Creativity Symposium, Oral, Huntington, WV
7. Regan Meyer, Harshal Sawant, **Ji Bihl** (2023) "The effects of high glucose on the release of exosomes from adipocytes," Ohio Physiological Society 37th Annual Meeting, Toledo, OH
8. Shuzhen Chen, Harshal Sawant, **Ji Bihl**, Jinju Wang (2023) "MiRNA profiling of exosomes derived from perivascular adipocyte tissue in type 2 diabetic mice," ADA Scientific Session 2023, San Diego, CA
9. Harshal Sawant, Smara Sigdel, Shuzhen Chen, Jinju Wang, **Ji Bihl** (2023) "The protective effects of exercise on cerebral ischemia injury in diabetes," International Stroke Conference 2023, Dallas, TX
10. Shuzhen Chen, Venkata Polaki, Harshal Sawant, **Ji Bihl**, Jinju Wang (2022) "Impairment of cognitive ability in middle-aged renin hypertensive transgene mice," Hypertension 2022, San Diego, CA
11. Harshal Sawant, Trevor Bihl, Doan Nguyen, Ifeanyi Iwuchukwu, **Ji Bihl** (2022) "The profile of extracellular vesicles in intracerebral hemorrhage patients," BRAIN & BRAIN PET 2022, Glasgow, UK
12. Yerrapragada S, Sawant H, Chen S, Wang J, **Bihl J** (2022) "The Protective Effects of miR-210 Modified Endothelial Progenitor Cells Released Exosomes in Hypoxia/Reoxygenation Injured Neurons," ISEV Annual Meeting 2022, Lyon, France
13. Wang J, Chen S, Polaki V, Sawant H, **Bihl J** (2022) "Compromised endothelial progenitor cell exosomal communication with endothelial cells in hypertension ischemia conditions," Experimental Biology 2022, Philadelphia, PA
14. Wang J, Polaki V, Chen S, **Bihl J** (2020) "Exercise improves endothelial function associated with alleviated inflammation and oxidative stress of perivascular adipose tissue in type 2 diabetic mice," American Diabetes Association 79<sup>th</sup> Scientific Session, Chicago, IL

15. Halurkar M, **Bihl J** (2020) "Effect of EPC-EXs on high glucose and H/R-induced injury of neurons and astrocytes," FENS 2020, Glasgow, UK
16. Wang J, Chen S, **Bihl J** (2020) "Moderate exercise has beneficial effects on mouse ischemic stroke by enhancing the functions of circulating endothelial progenitor cell-derived exosomes via activation of the miR-126/BDNF/PI3k pathway," ISEV 2020, Philadelphia, PA
17. Wang J, Pan Q, Zhao B, Ma X, **Bihl J** (2019) "Overexpression of ACE2 boost the therapeutic effects of endothelial progenitor cells derived exosomes on hemorrhagic stroke," High Blood Pressure Scientific Meeting 2019, New Orleans, LA
18. Liu L, Rapp C, **Bihl J**, Travers J (2019) "UVB induced-release of bioactive microvesicle particles in keratinocytes carry platelet-activating factor," ISEV 2019 Meeting, Kyoto, Japan
19. Wang J, Chen S, Liu H, Yang Y, **Bihl J** (2019) "Exercise enhanced the function of endothelial progenitor cell-derived exosomes on protecting neurons against hypoxia/reoxygenation insult," International Stroke Conference, Honolulu, HI
20. Wang J, Pan Q, Liu H, Zhao B, Yang Y, Ma X, **Bihl J** (2018) "Enrichment of miR-126 boost the therapeutic effects of endothelial progenitor cells derived exosomes on ischemic stroke in diabetic mice," American Diabetes Association 78<sup>th</sup> Scientific Session, Orlando, FL
21. Wang J, Ma X, Cheng C, Chen S, Liu S, Zhao B, **Bihl J** (2018) "ACE2-EPCs protect ECs majorly through their exosomal effects on mitochondria," ATVB 2018, San Francisco, LA
22. Wang J, You Y, Ma X, Wang W, Chen C, **Bihl J** (2017) "MiR-126 enrichment enhances the protective effect of EPC-EXs on hypoxia/high glucose-induced endothelial cells injury," American Diabetes Association 77<sup>th</sup> Scientific Session, San Diego, CA
23. Wang J, Pan Q, Zhao B, Chen Y, Ma X, **Bihl J** (2017) "Exosomes derived from ACE2-overexpressing endothelial progenitor cells protect neurons from hemin-induced apoptosis and inflammation," *International Society for Extracellular Vesicles*, Toronto, Canada
24. Wang J, Ma X, Yang Y, Zhao Y, Liu H, Zhao B, Chen Y, **Bihl J** (2017) "MiR-210 boosts the protective effects of NPC-EXs on neurons and astrocytes against hypoxia/reoxygenation-induced injury," BRAIN 2017, Berlin, Germany
25. Wang J, Ma X, Chen S, Xiao X, **Bihl J**, Zhao B, Chen Y (2016) "Co-transplantation of NPCs and EPCs synergistically promotes brain recovery after ischemia-reperfusion in mice," *AHA International Stroke Conference*, Los Angeles, CA
26. Ammar H, Ma X, Ajena A, Koroscil T, Chen Y, **Bihl J** (2015) "Circulating Microvesicles from Diabetic Patients Carry less miR-126 and Have Detrimental Effects on Endothelial Progenitor Cells," *American Diabetes Association's 75th Scientific Sessions*, Boston, MA
27. **Bihl J**, Xiao X, Chen S, Zhang C, Wang J, Zhao B, Chen Y (2014) "Chronic infusion of angiotensin-(1-7) alleviates cerebral hemorrhagic injury compromised by angiotensin II," *High Blood Pressure Research Scientific Sessions*, San Francisco CA
28. **Chen J**, Xiao X, Chen S, Zhang C, Wang J, Chen Y (2014) "Ang-(1-7) counteracts Ang II in regulating cerebral endothelial cell function and gene expression," *ATVB annual meeting in 2014*, Toronto, Ontario, Canada
29. **Chen J**, Chen SZ, Xiao X, Zhang C, Zhao YH, Gu SG, Zhao B, Chen YF (2013) "Neural over-expression of ACE2 decreases MCAO-induced cerebral injury through BP-independent mechanisms," *The XXVIth International Symposium on Cerebral Blood Flow, Metabolism, and Function & XIth International Conference on Quantification of Brain Function with PET*. Shanghai, China
30. **Chen J**, Xiao X, Chen S, Grunwald W, Gu S, Zhang C, Cool D, Chen Y (2013) "Proteomic analysis of microparticles released from endothelial cells treated with vascular risk factors," *International Society for Extracellular Vesicles*, Boston, MA
31. **Chen J**, Xiao X, Zhang C, Chen SZ, Chen JY, Zhao B, Chen YF (2013) "Microparticles play a role in mediating angiogenic effect of mesenchymal stromal cells on cerebral vascular endothelial cells," *International Stroke Conference*, Honolulu, HI
32. **Chen J**, Xiao X, Chen S, Zhang C, Shenoy V, Raizada M, Zhao B, Chen Y (2012) "Angiotensin-converting enzyme 2 regulates endothelial progenitor cell function through the eNOS and NADPH oxidase pathways," *High Blood Pressure Research Scientific Sessions*, Washington DC

33. **Chen J**, Zhang C, Liu P, Chen S, Yao Z, Chen Y (2012) "Circulating microparticles from db/db diabetic mice induce dysfunction and apoptosis to cerebral endothelial cells," *American Diabetes Association's 72nd Scientific Sessions*, Philadelphia, PA
34. **Chen J**, Yuan B, Chen S, Zhang L, Zhao B, Chen Y (2012) "Possible role of circulating cellular microparticles in progressive hypertension and middle cerebral artery remodeling," *International Stroke Conference*, New Orleans, LA
35. **Chen J**, Chen S, Zhang C, Wang J, Zhang W, Chen Y (2011) "Transfusion of CXCR4-priming endothelial progenitor cells reduces cerebral ischemic damage and promotes angiogenesis and neurogenesis in db/db diabetic mice," *ATVB annual meeting in 2011*, Chicago, IL
36. **Chen J**, Chen S, Zhang C, Wang JJ, Zhang W, Chen Y (2011) "Transfusion of endothelial progenitor cells promotes angiogenesis and reduces cerebral ischemic damage in db/db mice," *XXVth International Symposium on Cerebral Blood Flow, Metabolism, and Function & Xth International Conference on Quantification of Brain Function with PET*, Barcelona
37. **Chen J**, Chen S, Zhang C, Wang J, Zhang W, Chen Y, (2010) "Flow cytometry analysis of circulating EPCs and EPC-MPs in db/db mouse following ischemic stroke," *2010 Central Research Forum*, Dayton, OH
38. **Chen J**, Wang Y, Wu X, Li J, Wang G, (2009) "Down-regulation of PD-1 expression on lymphocytes in chronic hepatitis B patients with pegylated interferon  $\alpha$ -2b treatment," *60th American Association for the Study of Liver Diseases*, Boston, MA
39. **Chen J**, Wu X, Wang Y, Yu M, Zhang N, Wang G, (2009) "Intrahepatic expression of PD-1, PD-L1, and PD-L2 in Chronic Hepatitis B patients," *44th Annual Meeting of the European Association for the Study of the Liver*, Copenhagen
40. **Chen J**, Wu X, Wang Y, Yu M, Zhang N, Wang G, (2008) "Induced expression of PD-1 in lymphocytes by hepatoma and the function study," *Hong Kong-Shanghai International Liver Congress*, Hong Kong