CURRICULUM VITAE

MONG-HENG WANG, Ph.D.
Associate Professor

UNIVERSITY ADDRESS
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EDUCATION

1982-1986	**B.S.**	National Taiwan University, Taipei, Taiwan **Chemistry**
1990-1995	**Ph.D.**	Rutgers University, Piscataway, New Jersey **Biochemistry**
		Dissertation Title: "Studies on the Active Site and Catalytic Mechanisms of Cytochrome P450 2E1 in Heterologous Expression System and Microsomes."
	Mentor:	Dr. C.S. Yang (**Distinguished Professor and John L. Colaizzi Endowed Chair in Pharmacy at Rutgers University**)

TRAINING

1995-1998	**Postdoctor**	Department of Pharmacology, New York Medical College (NYMC), Valhalla, New York
	Mentor:	Dr. M.L. Schwartzman (**Chair of Pharmacology at NYMC**)
1991-1995	**Research Assistant**	Department of Chemical Biology, Rutgers University, Piscataway, New Jersey
1990-1991	**Teaching Assistant**	Department of Chemical Biology, Rutgers University, Piscataway, New Jersey
1988-1989	**Research Assistant**	Department of Chemistry, National Taiwan University, Taipei, Taiwan

PROFESSIONAL

ACADEMIC APPOINTMENTS

2007-present	**Associate Professor (tenured)**	Department of Physiology, Augusta University (AU; formerly Georgia Regents University), Augusta, Georgia
2007-present	**Associate Professor**	School of Graduate Studies, Augusta University, Augusta, Georgia
2005-present	**Associate Member**	Vascular Biology Center, Augusta University, Augusta, Georgia
2002-2007	**Assistant Professor**	Department of Physiology, Augusta University, Augusta, Georgia
2002 (July)	**Assistant Professor**	Department of Pharmacology, New York Medical College, Valhalla, New York
2001-2002	**Res. Asst. Professor**	Department of Pharmacology, New York Medical College, Valhalla, New York
1998-2001	**Instructor**	Department of Pharmacology, New York Medical College, Valhalla, New York

PROFESSIONAL SERVICE

Scientific Review and Conference Responsibilities

2006-present	Member of Poster Judge Committee, International Winter Eicosanoid Conference
2019	*Ad hoc* Reviewer for NHLBI Program Project Review Panel
2018	*Ad hoc* Reviewer for NHLBI Program Project Review Panel
2014-2015	Member of VA Nephrology Merit Review
2012	*Ad hoc* Reviewer for the Roy J. Carver Trust
2008-2010	Member of Region IV (Cardiorenal), American Heart Association, National Research Program
2009	*Ad hoc* Reviewer for NIH Digestive, Kidney, and Urological System (DKUS)
2009	*Ad hoc* Reviewer for National Science Foundation
2006-2007	Member of Study Section 3C, American Heart Association, Southern/Ohio Affiliate
2005	Member of Study Section 3B, American Heart Association, Southern/Ohio Affiliate

Editorial Review Responsibilities

American Journal of Physiology (Heart)
American Journal of Physiology (Renal)
Archives of Biochemistry and Biophysics
Cell Research
Chemical-Biological Internationals
Comprehensive Physiology
Hypertension
Journal of Lipid Research
Journal of Pharmacology and Experimental Therapeutics
Kidney International
Medicine
Prostaglandins & Other Lipid Mediators
Scientific Report
Xenobiotic

Editorial Board

2012-present: *Frontiers in Physiology*
2018-present: *International Journal of Biochemistry & Physiology (IJBP)*

Institutional Service

2012-present	Director of Physiology Course to organize, monitor, and evaluate Physiology lectures in Prematriculation Program
2003-present	Graduate Student Ph.D. Thesis Committee to advise and monitor the progress of graduate students' thesis research projects
2005-present	Institutional Animal Care and Use Committee to review experimental protocols and to identify potential problems for animal usage for research around the campus
2018-2019	Physiology Chair Search Committee to review, interview, and identify potential candidates for Physiology Chair.
2012-2017	Physiology Faculty Search Committee to review, interview, and identify potential candidates for Physiology faculty positions
2013-2018	Physiology Chair's Advisory Committee
	2016Pre-Tenure Review Committee, Dental College of Georgia, AU
2004-2007	Director, Physiology Seminar Program to invite outside and on campus speakers and coordinate their visit in Physiology Department

HONORS & AWARDS

2019	The Medical College of Georgia (MCG) 2018 Exemplary Teaching Award, AU
2018	The MCG 2017 Exemplary Teaching Award, AU
2008	Best Abstract Award (Senior author). The 10th Annual Winter Eicosanoid Conference
2006	Best Abstract Award (Senior author). The 8th Annual Winter Eicosanoid Conference
2005	Young Faculty Travel Award (The 7th Annual Winter Eicosanoid Conference)
2002	Aventis New Investigator Award (The 56th Annual Conference of the Council for High Blood Pressure Research)
2000	Merck New Investigator Award (The 54th Annual Conference of the Council for High Blood Pressure Research)
1999-2002	American Heart Association New York Affiliate Scientist Development Award
1998	Young Investigator Award (The Eastern Hypertension Society)
1997-1999	American Heart Association New York Affiliate Postdoc Fellowship

PATENT

Mong-Heng Wang. Compositions and Methods for Treating Cancer. U.S. Patent No.: US 9,480,664 B2. Date of Patent: Nov. 1, 2016. The application (US-2016-0022614-A1) was published on January 28, 2016. This patent application provides new compositions containing coxibs in combination with 20-HETE antagonists for anti-cancer therapy.

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science
American Physiological Society
American Society of Nephrology
American Heart Association

RESEARCH GRANTS AWARDED

Ongoing Research Support

"Interaction of sEH and Angiotensin II in Retinopathy"
Principle Investigator: **Mong-Heng Wang**
Agency: AHA
Type: Grant-in-Aid (AHASE00144)
Period: 07/01/2017-6/30/2019
Major goals: To determine the role of sEH/EETs in angiotensin II-induced retinal damage.

Recently Completed Research Support

"Interaction of COX-2 and 20-HETE in Ischemic Stroke"
Principle Investigator: **Mong-Heng Wang**
Agency: AHA (AHASE00090)
Type: Grant-in-Aid
Period: 07/01/2014-6/30/2017

Major goals: To develop therapeutic targets and strategies for effective and safe use of COX-2 inhibitors.

"Mechanisms for Cardiovascular Control Early in Diabetes"
Principle Investigator: M.W, Brands
Co-investigator: **Mong-Heng Wang**
Agency: NIH, NHLBI
Type: R01 (HL056259)
Period: 06/03/2013-6/31/2015
Major goals: To determine the mechanisms for the augmented mineralocorticoid receptor-dependent control of sodium reabsorption in diabetes in the absence of overt hyperaldosteronism.

"The Role of Soluble Epoxide Hydrolase in Diabetes Mellitus"
Principle Investigator: **Mong-Heng Wang**
Agency: AHA (AHASE00054)
Type: Grant-in-Aid
Period: 07/01/2011-6/30/2014
Major goals: To determine the role of soluble epoxide hydrolase on insulin secretion and cytokine-induced apoptosis in diabetes mellitus.

"Role of MBD2 in the Regulation of Endothelial Function in Vascular Disorders"
Principle Investigator: Cong-Yi Wang
Co-investigator: **Mong-Heng Wang**
Agency: MCG Research Institute
Type: DODI Synergy Award
Period: 05/01/2011-4/30/2012
Major goals: To determine if the effects of MBD2 on endothelial function are mediated through DNA methylation in different models of vascular disorders.

"Role of Soluble Epoxide Hydrolase in Diabetes Mellitus"
Principle Investigator: **Mong-Heng Wang**
Agency: MCG Research Institute
Type: Pilot Study Research Program (PSRP)
Period: 10/01/2010-9/30/2011
Major goals: To determine the role of soluble epoxide hydrolase for the protection of pancreatic islets in diabetes mellitus.

"Renal Tubular 20-HETE and EETs on Sodium Retention in Obese Rats"
Principle Investigator: **Mong-Heng Wang**
Agency: NIH, NHLBI
Type: R01 (HL082733)
Period: 12/01/2005-11/30/2010
Major goals: To investigate the mechanisms regulating sodium transport in renal tubules by 20-HETE and EETs in rats given high-fat diet, an animal model of obesity.

"20-HETE and its Interaction with NO in Pregnant Rats"
Principle Investigator: **Mong-Heng Wang**
Agency: NIH, NHLBI
Type: R01 (HL70887)
Period: 07/22/2002-6/31/2007
Major goals: To investigate the mechanisms regulating renal vascular and tubular synthesis of 20-HETE by nitric oxide during pregnancy.

"Endothelin Regulation of Kidney Function"
Principle Investigator: David M. Pollock

Co-investigator: **Mong-Heng Wang**
Agency: NIH, NHLBI
Type: R01 (HL064776)
Period: 07/01/2004-6/31/2008
Major goals: To test ETA stimulation of NADPH oxidase contributes to reduced NOS activity in DOCA-salt hypertension, hydrogen peroxide contributes to hypertension in DOCA-salt rats, and up-regulation of CYP4A can reduce salt-dependent hypertension associated with reduced ETB receptor function.

"TGF Beta and CYP-Derived Eicosanoids in Diabetic Nephropathy"
Principle Investigator: **Mong-Heng Wang**
Agency: MCG Research Institute
Type: Pilot Study Research Program (PSRP)
Period: 10/01/2008-9/30/2009
Major goals: To investigate the interaction between CYP-eicosanoids and TGF-beta in the animal model of diabetic nephropathy.

PREVIOUS EXTRAMURAL & INTRAMURAL FUNDING (1997 to 2005)

"Renal Cytochrome P450-Derived Eicosanoids in High Fat Diet-Induced Hypertension"
Principle Investigator: **Mong-Heng Wang**
Agency: MCG Research Institute
Type: Pilot Study Research Program (PSRP)
Period: 07/01/2004-6/31/2005
Major goals: To determine the role of CYP-derived eicosanoids on regulating renal function and blood pressure in obese rats.

"Rat and Human CYP4A Isoforms in the Regulation Renal Function and Hypertension"
Principle Investigator: **Mong-Heng Wang**
Agency: AHA
Type: Scientist Development Grant (99-30277T)
Period: 07/01/1999-6/31/2002
Major goals: To develop pharmacological tools to regulate renal 20-HETE synthesis as a novel approach for the treatment of hypertension and to characterize 20-HETE synthesis in human kidney.

"CYP Isoforms in the Regulation Renal Function and Hypertension"
Principle Investigator: **Mong-Heng Wang**
Agency: AHA
Type: Fellowship (9704628A)
Period: 07/01/1997-6/31/1999
Major goals: To systematically investigate the involvement of rat cytochrome P450 4A enzymes in the 20-HETE synthesis and the regulation of renal function and blood pressure.

TEACHING

A. Teaching Philosophy

In AU, I have put **30%** of my effort in educational service by being active in teaching medical and graduate students. In the classroom, my education philosophy is to engage students in discussions, activities, and high-level thinking so they can apply what they have learned. To facilitate in higher learning, I use appropriate learning strategies, including using multimedia and humorous illustrations, to aid in memory and understanding and to grab students' attention. Most of all, I believe that these strategies are effective to make learning physiology fun. I also believe that it's important to stimulate students to think for themselves and to help them to learn problem-solving skills, which they will need them when they practice medicine, pursue an academic career, or prepare careers in industry. With quality and thorough instruction, my ultimate goal is to build a strong foundation for students in understanding physiology and to prepare them for future challenges.

B. Teaching Activities

School of Graduate Studies (New York Medical College)

Lecturer/Instructor:

Molecular Pharmacology Course **1998**
Non-Viral Gene Transfer, 2 hours
(8-hour preparation time)

Biochemical Pharmacology Course **2000**
Cytochrome P450 Biochemistry and Molecular Biology, 2 hours
(8-hour preparation time)

Augusta University (AU)

School of Allied Health Sciences

Lecturer/Instructor:

Principles of Human Physiology (PHY3110/7110) **2003-2006**
Renal Physiology, 10 hours
(30-hour preparation time per year)

Students' Assessment of Teaching:

I received positive comments from students indicating the success of my teaching style and methodologies. Students' comments included:

"Enthusiastic presentations."
"Entertaining, thought-provoking, and fun."
"Knowledgeable, witty, and thorough."
"Wonderful lecturer."
"Caliber teaching."

School of Graduate Studies

Lecturer/Instructor:

Integrated Systems Biology (SGS 8033) **2008-present**
GI Physiology, 4 hours
(34-hour preparation per seminar)

Students' Assessment of Teaching:

I have received very positive comments from students. Students' comments included:

"Very enthusiastic and enjoyable to listen to."
"Very entertaining lectures, kept me interested and excited about the material."
"His sense of humor broke the monotony of the lecture series. Presented the information in a concise manner."
"His funny animations and fun way of presenting the information simply and concisely. I loved it!!! Great humor used to teach a tricky subject."
"Going out of his way with analogies and examples to relate to concepts. It was so great!"
"Great enthusiasm and amazing personality."

School of Medicine

Lecturer/Instructor:

Cellular and Systems Processes (MEDI 5162) **2007-present**
GI and Liver Physiology, 8 hours
(180-hour preparation time per year)

Students' Assessment of Teaching:

I have received very positive comments from students. Students' comments included:

"Dr. Wang has been my favorite professor, and I genuinely looked forward to going to class to learn every day."

"Fantastic presentation, clear and concise, easy to follow, very informative and kept my interest."

"He simplified a difficult subject and made it very easy for the students to understand. My favorite physiology lecture so far."

"Dr. Wang was engaging and creative. I would gladly welcome him back for additional lectures."

"Dr. Wang provides great explanation and fun learning experience."

"Dr. Wang made his lectures fun and engaging. I enjoyed having him teach us."

"Dr. Wang was a fantastic physiology lecturer and explained the material very well."

"Dr. Wang has been clearest physiology lecturer that we have had."

"Funny. Concise. I was pleasantly surprised. He was one of the best professors I had here."

"I really enjoyed his lecture style and his willingness to talk about it."

"I appreciate the summary slides that he provides at the end of lectures: help to pinpoint what we need to study and focus on."

"I really appreciate Dr. Wang's use of repetition to highlight and emphasize a concept and present it in multiple ways to ensure that optimal learning has occurred."

"Dr. Wang was lively and energetic. It made paying attention a lot easier. Great handout and good lecture."

"Funny. Concise. I was pleasantly surprised. He was definitely one of the best professors I had here."

"Wonderful, straight forward lectures. Slides were well organized and easy to reference for individual learning."

Students' Recognition at the End of School Year:

"A faculty who is most likely to win a rap battle (in 2017)"

Course Director/Instructor: ***SEEP Prematriculation Program*** **2012-present**
(Physiology Course)
GI Physiology, 4 hours
(10-hour preparation time per year)

Duties as Course Director and Instructor:

- Organizing and administrating execution of Physiology lectures
- Compiling exam questions of each lecture in the Course
- Participating in administration and grading
- Delivering lectures on general principles of GI function and GI mechanical activities. 2 one-hour lectures

Class size: 15 to 22 students from SEEP Prematriculation Program

OTHER SERVICE ACTIVITIES

MCG Graduate Research Day	Poster Judge Committee	2005-
MCG STAR Program	Lab Demo	2003-
MCG Graduate Program	Lab Demo	2003-
International Winter Eicosanoid Conference	Poster Judge Committee	2010-
VA research week held at Augusta VA Medical Center	Poster Judge Committee	2013-

MENTORING

Graduate Student	My Role	
John James Milner	Thesis Mentor	2016-2018
Sung Gyu Cho	Thesis Mentor	2011-2013
Hyehun Choi	Thesis Mentor	2009-2011
Brandy Wynne	Thesis Mentor	2009-2011
Pengcheng Luo	**Major Advisor**	2008-2010
Navjotsingh Pabla	Thesis Mentor	2007-2009
Shu Zhu	Thesis Mentor	2007-2009
Saiprasad M. Zemse	Thesis Mentor	2007-2009
Kyu-Tae Kang	Thesis Mentor	2006-2008
Anita Smith	Thesis Mentor	2006-2008
Hui Huang	**Major Advisor**	2004-2007
ZheKang Yin	Thesis Mentor	2003-2007
Miao Jiang	Thesis Mentor	2000-2002
Jackleen S. Marji	Thesis Mentor	1999-2002
Vladimir Mastyugin	Thesis Mentor	1998-2001
Elimor Brand-Schieber	Thesis Mentor	1998-2001
Xuandai Nguyen	Thesis Mentor	1998-2001

INVITED LECTURES & ORAL PRESENTATIONS

1995.8 "Studies on the Active Site of Cytochrome P450 2E1," Department of Pharmacology, New York Medical College, Valhalla, NY

1998. 4 "Cytochrome P450 (CYP) 4A Isoforms Involved in the Synthesis of 20-HETE in Rat Kidney," Eastern Hypertension Annual Meeting

1999.4 "Contribution of CYP4A1 and CYP4A2 to Vascular 20-Hydroxyeicosatetraenoic Acid Synthesis in Rat Kidney," APS annual meeting

2002.4 "Renal 20-Hydroxyeicosatetraenoic Acid and Pregnancy-Induced Hypertension," Department of Microbiology, New York Medical College, Valhalla, NY

2002.6 "Synthesis and Function of 20-Hydroxyeicosatetraenoic Acid in Rat Kidney," Department of Physiology, Medical College of Georgia, Augusta, GA

2004.6 "Renal CYP-Derived Eicosanoids and Hypertension," Academia Sinica, Institute of Biological Chemistry, Taiwan

2005.3 "Renal Tubular CYP-Eicosanoids and Obesity-Induced Hypertension," the 7th Annual Winter Eicosanoid Conference

2005.5 "Renal Tubular 20-HETE and EETs in High-Fat-Diet-Induced Hypertension," Vascular Biology Center, Medical College of Georgia, Augusta, GA

2005.10 "Renal Tubular 20-HETE and EETs on Sodium Retention in Obesity-Induced Hypertension,"

University of South Carolina, Department of Basic Pharmaceutical Sciences, Columbia, SC

2005.12 "Renal Cytochrome P450-Derived Eicosanoids in Obesity-Induced Hypertension," Georgia Prevention Institute, Medical College of Georgia, Augusta, GA

2006. 3 "Epoxyeicosatrienoic Acid Inhibition Alters Renal Hemodynamics during Pregnancy," the 8th Annual Winter Eicosanoid Conference

2007. 6 "Renal Cytochrome P450-Derived Eicosanoids in Obesity-Induced Hypertension," Taipei Medical University, Taipei, Taiwan

2009. 10 "Inhibition and Deletion of Soluble Epoxide Hydrolase Alleviates Hyperglycemia in Diabetic Mice through Promoting Insulin Secretion," the 11th International Conference in Bioactive Lipids in Cancer, Inflammation, and Related Diseases, Cancun, Mexico

2010. 12 "The Role of Soluble Epoxide Hydrolase in Diabetes Mellitus," Oral Biology, College of Dental Medicine, Augusta University, Augusta, GA

2013. 4 "Role of Soluble Epoxide Hydrolase in Diabetes Mellitus," Department of Physiology, Morehouse Medical School, Atlanta, GA

2013. 5 "The Role of Soluble Epoxide Hydrolase in Type 1 Diabetes Mellitus," Laboratory of Kidney Disease Pathogenesis and Intervention, Huangshi, Hubei, China

2013. 6 "The Role of Soluble Epoxide Hydrolase in Type 1 Diabetes Mellitus," 2013 Shanghai Symposium on Polyunsaturated Fatty Acid and Metabolism, China

2014. 9 "The Novel Role of Soluble Epoxide Hydrolase in Promoting Insulin Secretion and Reducing Islet Apoptosis," Taipei Medical University, Taipei, Taiwan

2014. 9 "The Novel Role of Soluble Epoxide Hydrolase in Promoting Insulin Secretion and Reducing Islet Apoptosis," National Defense Medical Center, Taipei, Taiwan

2016. 3 "Interaction of 20-HETE and COX-2 in Rofecoxib-Induced Stroke Event," the 16th Annual Winter Eicosanoid Conference.

2018.3 "A Novel Interaction between AT1 Receptor and Soluble Epoxide Hydrolase in Diabetic Retinopathy," the 17th Annual Winter Eicosanoid Conference.

Four representative publications across my career

1. **M.H. Wang**, E. Brand-Schieber, B.A. Zand, X. Nguyen, J.R. Falck, N. Balu, M.L. Schwartzman. Cytochrome P450-derived arachidonic acid metabolism in the rat kidney: characterization of selective inhibitors, *J. Pharmacol. Exp. Ther.*, 284, 966-973, 1998. **[Google scholar cited > 218; the 14th most-cited article of this journal in 2016]**; PMID: 9495856.
2. X. Nguyen, **M.H. Wang**, K.M. Reddy, J.R. Falck, M.L. Schwartzman. Kinetic profile of the rat Cyp4A isoforms: arachidonic acid metabolism and isoform-specific inhibitors. *Am. J. Physiol.*, 276, R1691-1700, 1999. **[Google scholar cited > 155]**; PMID: 10362749.
3. **M.H. Wang**, A. Smith, Y. Zhou, H.H. Chang, S. Lin, X. Zhao, J.D. Imig, A.M. Dorrance. Downregulation of renal Cyp-derived eicosanoid synthesis in rats with diet-induced hypertension. *Hypertension*, 42, 594-599, 2003. **[Google scholar cited > 69]**; PMID: 12939236.
4. P. Luo, H.H. Chang, Y. Zhou, S. Zhang, S.H. Hwang, C. Morisseau, C. Y. Wang, E.D. Inscho, B.D. Hammock, **M.H. Wang**. Inhibition or deletion of soluble epoxide hydrolase prevents hyperglycemia, promotes insulin secretion, and reduces islet apoptosis. *J. Pharmacol. Exp. Ther.*, 334, 430-438, 2010. **[Google scholar cited > 85]**; PMID: 20439437.

PEER-REVIEWED PUBLICATIONS (reverse chronological order)

1. W.I. Feng, K. Zhang, Y. Liu, J. Chen, Q. Cai, W.H. He, Y. Zhang, **M.H. Wang**, J. Wang, H. Huang. Advanced oxidation protein products aggravate cardiac remodeling via cardiomyocyte apoptosis in chronic kidney disease. *Am. J. Physiol.*, 314, H475-H483, 2018.

2. F. Huang, Y. Liu, X. Yang, D. Chen, K. Qiu, B. D. Hammock, J. Wang, **M.H. Wang**, J. Chen, H. Huang. ShexiangBaoxin pills promote angiogenesis in myocardial infarction rats via up-regulating 20-HETE-mediated endothelial progenitor cells mobilization. *Atherosclerosis*, 263, 184-191, 2017

3. A. Ibrahim, H. Saleh, M. El-Shafaey, K. Hussein, K. El-Masry, B. Baban, N. Sheibani, **M. H. Wang**, A.

Twafik, M. Al-Shabrawey. Targeting of 12/15-Lipoxygenase in retinal endothelial cells, but not in monocytes/macrophages, attenuates high glucose-induced retinal leukostasis. *Biochim. Biophys. Acta*, 1862, 636-645, 2017.

4. W. Feng, K. Zhang, Y. Liu, J. Chen, Q. Cai, Y. Zhang, **M.H. Wang**, J. Wang, H. Huang. Apocynin attenuates angiotensin II-induced vascular smooth muscle cells osteogenic switching via suppressing extracellular signal-regulated kinase 1/2. *Oncotarget*, 7, 83588-83600, 2016.
5. J. Gao, K. Zhang, J. Chen, **M.H. Wang**, J. Wang, P. Liu, H. Huang. Roles of aldosterone in vascular calcification: an update. *Eur. J. Pharmacol*., 786,186-93, 2016.
6. H. Huang, J. Weng, **M.H. Wang**. EETs/sEH in diabetes and obesity-induced cardiovascular diseases. *Prostaglandins & Other Lipid Mediators*, 125, 80-89, 2016.
7. H. Huang, M. Al-Shabrawey, **M. H. Wang**. Cyclooxygenase- and cytochrome P450-derived eicosanoids in stroke. *Prostaglandins & Other Lipid Mediators*, 122, 45–53, 2016.
8. Y. Zhang, M. N. Hoda, X. Zheng, W. Li, P. Luo, K. R. Maddipati, T. Seki, A. Ergul, **M. H. Wang**. Combined therapy with COX-2 inhibitor and 20-HETE inhibitor reduces colon tumor growth and the adverse effects of ischemic stroke associated with COX-2 inhibition. *Am. J. Physiol.*, 307, R693-R703, 2014.
9. L. Wang, Y. Liu, H. Wang, X. Liu, J. Chen, **M.H. Wang**, J. Wang, H. Huang. Epoxyeicosatrienoic acids attenuating hypotonic-induced apoptosis of IMCD cells via γ-ENaC inhibition, *PLoS One*, 9, e94400, 2014.
10. H. Zhang, T. Wang, K. Zhang, Y. Liu, F. Huang, X. Zhu, Y. Liu, **M. H. Wang**, W. Tang, J. Wang, H. Huang, Deletion of soluble epoxide hydrolase attenuates cardiac hypertrophy via down-regulation of cardiac fibroblasts-derived fibroblast growth factor-2, *Critical Care Medicine*, 42, e345-354, 2014.
11. M. Bakri, L. Chen, H.A. Aisa, **M.H. Wang**. Total alkaloids of the leave of *Nitraria Sibirica* Pall decrease hypertension and albuminuria in angiotensin II-salt hypertension, *Chinese Journal of Nature Medicine*, 12, 266-272, 2014.
12. L. Chen, C. Fan, Y. Zhang, M. Bakri, H. Dong, C. Morisseau, K. R. Maddipati, P. Luo, C. Y. Wang, B.D. Hammock, **M.H. Wang**. Beneficial effects of inhibition of soluble epoxide hydrolase on glucose hemostasis and islet damage in a streptozotocin-induced diabetic mouse model. *Prostaglandins & Other Lipid Mediators*, 104, 42-48, 2013.
13. A.A. Elmarakby, J. Faulner, M. Al-Shabrawey, **M.H. Wang**, K. Maddipati, J.D. Imig. Deletion of soluble epoxide hydrolase gene improves renal endothelial function and reduces renal inflammation and injury in streptozotocin-induced type 1 diabetes. *Am. J. Physiol.*, 301, R1307-R1317, 2011.
14. P. Luo, **M. H. Wang**. Eicosanoids, β-cell function, and diabetes. *Prostaglandins & Other Lipid Mediators*, 95, 1-10, 2011. **[Google scholar cited > 30]**
15. X. Rao, J. Zhong, S. Zhang, Y. Zhang, Q. Yu, P. Yang, **M.H. Wang**, D.J. Fulton, H. Shi, Z. Dong, D. Wang, C.Y. Wang. Loss of methyl-CpG binding domain protein 2 enhances endothelial angiogenesis and protects mice against hindlimb ischemic injury. *Circulation*, 123, 2964-2974, 2011.
16. P. Luo, H.H. Chang, Y. Zhou, S. Zhang, S.H. Hwang, C. Morisseau, C. Y. Wang, E.D. Inscho, B.D. Hammock, **M.H. Wang**. Inhibition or deletion of soluble epoxide hydrolase prevents hyperglycemia, promotes insulin secretion, and reduces islet apoptosis. *J. Pharmacol. Exp. Ther.*, 334, 430-438, 2010. **[Google scholar cited > 75]**
17. S. Soodvilai, Z. Jia, **M.H. Wang**, Z. Dong, T. Yang. mPGES-1 deletion impairs diuretic response to acute water loading, *Am. J. Physiol.*, 296, F1129-F1135, 2009.
18. P. Luo, Y. Zhou, H.H. Chang, J. Zhang, T. Seki, C.Y. Wang, E.W. Inscho, **M.H. Wang.** Glomerular 20-HETE, EETs, and TGF-β1 in diabetic nephropathy. *Am. J. Physiol.*, 296, F556-F563, 2009. **[Google scholar cited > 20]**
19. K. Sachidanandam, J.R. Hutchinson, M.M. Elgebaly, E.M. Mezzetti, **M.H. Wang**, A. Ergul. Differential effects of diet-induced dyslipidemia and hyperglycemia on mesenteric resistance artery structure and function in type 2 diabetes. *J. Pharmacol. Exp. Ther.*, 328, 123-130, 2009.
20. Z. Jia, X. Guo, H. Zhang, **M.H. Wang**, Z. Dong, T. Yang. Microsomal prostaglandin synthase-1-derived

prostaglandin E_2 protects against angiotensin II-induced hypertension via inhibition of oxidative stress. *Hypertension*, 52, 952-959, 2008.

21. W. Wei, P. Yang, J. Pang, S. Zhang, Y. Wang, **M.H. Wang**, Z. Dong, J.X. She, C.Y. Wang. A stress-dependent SUMO4 sumoylation of its substrate proteins. *Biochem. Biophys Res. Commun.*, 375, 454-459, 2008.

22. H. Liu, Z. Jia, S. Soodvilai, G. Guan, **M.H. Wang**, Z. Dong, J.D. Symons, T. Yang. Nitro-oleic acid protects the mouse kidney from ischemia and reperfusion injury. *Am. J. Physiol.*, 295, F942-F949, 2008.

23. Y. Zhou, P. Luo, H.H. Chang, H. Huang, T. Yang, Z. Dong, C. Y. Wang, **M.H. Wang.** Clofibrate attenuates blood pressure and sodium retention in DOCA-salt hypertension. *Kidney International*, 74, 1040-1048, 2008. **[Google scholar cited > 45].**

24. J. Han, J. Zhong. W. Wei, Y. Wang, Y. Huang, P. Yang, S. Purohit, Z. Dong, **M.H. Wang**, J.X She, F. Gong, D.N. Stern, C.Y. Wang. Extracellular HMGB1 acts as an innate immune-mediator to enhance autoimmune progression and diabetes onset in NOD mice. *Diabetes*, 57, 2118-2127, 2008.

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