CURRICULUM VITAE

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PERSONAL INFORMATION

Nickname: Leo
Date of Birth/place: October 19, 1973; Gao-An, Jiangxi Province, China
Sex: Male
Marital Status: married; two children
Citizenship: United States
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PROFESSIONAL APPOINTMENTS

07/2018 - present Professor, Department of Pharmacology & Toxicology, Medical College of Georgia, Augusta University, Augusta, GA

11/2012 - 06/2018 Associate Professor (tenured in 2015), Department of Pharmacology & Toxicology, Medical College of Georgia, Augusta University (formerly Georgia Regents University), Augusta, GA

09/2008 - 10/2012 Assistant Professor (tenure track), Center for Cardiovascular Sciences, Albany Medical College, Albany, NY

01/2008 - 08/2008 Research Assistant Professor, Department of Cellular & Integrative Physiology, Indiana University School of Medicine, Indianapolis, IN

01/2006 - 12/2007 Research Associate, Department of Cellular & Integrative Physiology, Indiana University School of Medicine, Indianapolis, IN

EDUCATION AND TRAINING

01/2003 - 12/2005 Post-doc, Department of Cellular & Integrative Physiology, Indiana University School of Medicine, Indianapolis, IN

09/1999 - 07/2002 Ph.D., Public Health, Zhejiang University School of Medicine, Hangzhou, China

09/1996 - 07/1999	M.S., Cellular Biology, Zhejiang University School of Medicine, Hangzhou, China
09/1991 - 07/1996	M.D., Clinical Medicine, Jiangxi Medical College, Nanchang, China

HONORS AND AWARDS

2022	AHA, Vascular Wall Biology Basic 1 study section, co-chair and grant reviewer
2022	Invited speaker at the 22nd International Vascular Biology Meeting. October 13-17, Oakland Marriott City Center, Oakland, CA, USA
2022	Distinguished faculty award at the Medical College of Georgia, Augusta University. May 26, 2022. Augusta, GA
2022	Session chair and invited session speaker (Molecular, Developmental and Cellular Biology of the Vessel Wall) at Vascular Discovery meeting, 2022. May 11-14, 2022. Seattle, WA
2020	Invited Speaker at the 31st Great Wall International Congress of Cardiology (GW-ICC). 2020. Virtual Conference. Beijing, China.
2020-2022	K99/R00 Pathway to Independence Award, NIH (Role: sponsor/mentor)
2019	Invited Speaker at the Scientific Session, American Heart Association (AHA). 2019, Philadelphia, PA
2019	Invited Speaker at the ISHR World Congress. International Society for Heart Research. 2019, Beijing, China.
2019 - 2022	Transformational Project Award, AHA
2018 - 2023	Postdoctoral Fellowship, AHA (Role: sponsor/mentor)
2017	Invited speaker at the Scientific Session, AHA. 2017, Anaheim, CA
2017	Established Investigator Award, AHA
2012	Wiggers Faculty Award, Albany Medical College, NY
2009	Council on ATVB Travel Award for Young Investigators, AHA, Scientific Sessions. 2009, Orlando, FL
2008 - 2011	Scientist Development Grant Award, AHA
2005 - 2006	Postdoctoral Research Award, AHA
1999	Prize for Excellent Student, Zhejiang University, Hangzhou, China
1995	Lei's Medical Educational Scholarship, Jiangxi Medical College, Nanchang, China
1994 - 1995	Outstanding Student Fellowship, Jiangxi Medical College, Nanchang, China

PROFESSIONAL AFFILIATIONS

American Heart Association (AHA), Council on Basic Cardiovascular Sciences

Sigma Xi

The American Society for Biochemistry and Molecular Biology (ASBMB)

North American Vascular Biology Organization (NAVBO)

American Society for Pharmacology and Experimental Therapeutics (ASPET)

RESEARCH INTERESTS

Epigenetic and transcriptional regulation of smooth muscle differentiation and de-differentiation; cardiovascular development; Hippo-YAP-TEAD pathway; non-coding RNAs including microRNAs, long non-coding RNAs and circular RNAs; Novel gene/transcript discovery; Inflammation

SCHOLARSHIP/RESEARCH FUNDING

Ongoing Research Support

1. **NIH, R01; 11/23/2021 - 12/01/2025. HL157568.** Total Cost: $2,479,768

   Title: PIK3C3, a master regulator for smooth muscle identity

   Principal Investigator: **Zhou, Jiliang**

   The goal of this project is to determine the critical role of PIK3C3 in smooth muscle homeostasis through a YAP1-dependent mechanism.

2. **NIH, R01; 01/20/2020 - 12/31/2023. HL149995.** Total Cost: $1,801,792

   Title: The novel smooth muscle-specific lncRNA CARMN is a critical regulator of smooth muscle phenotype

   Principal Investigator: **Zhou, Jiliang**

   The funded project is to characterize and explore the underlying mechanism of the novel lncRNA CARMN in smooth muscle cells.

3. **NIH, R01; 07/01/2017 - 06/30/2023. DK114328.** Total Cost: $1,710,000

   Title: Mechanisms underlying the susceptibility and severity of acute kidney injury

   Principal Investigator: Jian-Kang Chen

   The goal of this project is to define a pathogenic role and molecular mechanisms of compensatory nephron hypertrophy in determining the susceptibility and severity of acute kidney injury and in mediating accelerated development of interstitial fibrosis.

   Role: Co-Investigator, 5% effort

4. **NIH, R01; 01/01/2021 - 12/31/2024. DK126763.** Total Cost: $1,524,600

   Title: The regulation and function of long noncoding RNA in ischemic AKI: Role of GSTM3P1

   Principal Investigator: Qingqing Wei

   To investigate the pathogenic function and regulation of long non-coding RNA (lncRNA) with GSTM3P1 as an example to study the related pathways in renal tubular cell death and to identify new strategies for AKI therapy.

   Role: Co-Investigator, 3% effort

5. **NIH, R01; 08/20/2021 - 05/31/2025. HL156646.** Total Cost: $2,741,200

   Title: PBK: A novel mediator of VSMC proliferation and vascular remodeling in PAH

   Principal Investigators: Scott Barman & David Fulton

   The long-term goal of this project is to define the key mechanisms by which PBK regulates PASMC proliferation to orchestrate changes in arterial remodeling, a hallmark of PAH.

   Role: Co-Investigator, 10% effort

6. **NIH, R01; 02/01/2022 - 01/30/2026. HL125926.** Total Cost: $3,503,500

   Title: Galectin-3: a mediator of vascular remodeling in pulmonary arterial hypertension

   Principal Investigators: Scott Barman & David Fulton

   The objectives of the proposed studies are to 1) determine the cell specific role of Gal-3 in mediating vascular remodeling and PAH; 2) investigate the role of DNA methylation and DNMT3A in regulating Gal-3 expression and synergy with HIF2α, and 3) determine whether Gal-3 regulation of NEAT1 in PASMC contributes to PAH.

   Role: Co-Investigator, 10% effort

7. **AHA, Postdoctoral Fellowship**. **836341; 04/01/2021 - 03/31/2023.** Total Cost: $134,236
   Title: Role of the novel high mobility group protein HMGXB4 in vascular smooth muscle cell phenotypic switching

   Principal Investigator: He, Xiangqin

   Sponsor: **Zhou, Jiliang**

Proposals Submitted

1. **NIH, R01;** R01HL169568; Submitted in Oct. 2022. Scored at 18th percentile. Planning to re-submit by July 5th, 2023.

   Title: Smooth muscle-specific enhancer, TEAD transcription factors and smooth muscle phenotype

   Principal Investigator: **Zhou, Jiliang**

2. **NIH, R01;** R01HL111698; Submitted in 2019

   Title: TEAD1, a novel regulator of smooth muscle phenotypic plasticity

   Principal Investigator: **Zhou, Jiliang**

3. **NIH, R35;** HL140042. Reviewed in July 2017; Scored at 52%; Total Direct Cost: $4,200,000; Total Cost: $6,384,000. Plan to resubmit in Feb. 2023.
   Title: Modulation of smooth muscle phenotype by Hippo/YAP/TEAD1 pathway and lncRNA

   Principal Investigator: **Zhou, Jiliang**

4. **NIH, R01;** R01HL111716; Scored at 36% (AICS, NHLBI); Will be submitted once the conditional HMG2L1 mouse is ready

   Title: Integrative role of HMG2L1 in smooth muscle phenotypic modulation

   Principal Investigator: **Zhou, Jiliang**

5. **AHA, Grant-in-aid;** GRNT7950027; Scored at 25.66% (Founders Affiliate)

   Title: An emerging role of HMG2L1 in the cardiovascular system

   Principal Investigator: **Zhou, Jiliang**

Completed

1. **AHA, Transformational Project Award**. **19TPA34910181; 07/01/2019 - 06/30/2022.** Scored at 0.22 percentile. Total Cost: $300,000
   Title: Identification, regulation, and function of the smooth muscle-specific long non-coding RNA

   Principal Investigator: **Zhou, Jiliang**

   The grant is funded to study novel roles of smooth muscle-specific lncRNAs in smooth muscle differentiation and de-differentiation.

2. **NIH, K99/R00; 08/05/2020 - 04/30/2022. K99HL153896**. Total Cost: $245,808
   Title: YAP1, neointima formation and blood pressure regulation
   Principal Investigator: Osman, Islam
   Sponsor: **Zhou, Jiliang**
3. **AHA, Established Investigator Award; 01/01/2017 - 12/31/2021. 17EIA33460468.**
   Total cost for 5 years: $400,000
   Title: Novel role of the lncRNA NEAT1 in smooth muscle phenotypic modulation
   Principal Investigator: **Zhou, Jiliang**
   The grant is funded to study the novel role of the lncRNA NEAT1 in atherosclerosis.
4. **NIH, R01; HL132164. 04/01/2016 - 02/28/2021.** Total Cost: $1,520,000
   Title: Novel role of the lncRNA NEAT1 in smooth muscle phenotypic modulation
   Principal Investigator: **Zhou, Jiliang**
   The goal of this project is to study a novel role of the lncRNA NEAT1 in phenotypic modulation of vascular smooth muscle cells in response to arterial injury.
5. **AHA, Postdoctoral Fellowship**. **19POST34450071; 01/01/2019 - 12/31/2020.** Scored at 0.17 percentile. Total Cost: $112,456
   Title: CARMN, a novel smooth muscle-specific lncRNA, is a critical regulator of smooth muscle phenotype
   Principal Investigator: Dong, Kunzhe
   Sponsor: **Zhou, Jiliang**
6. **AHA, Postdoctoral Fellowship. 18POST34030400; 07/01/2018 - 06/30/2020.** Total Cost: $106,532
   Title: Novel role of Tea domain transcription factor 1 in vascular smooth muscle cell proliferation and neointima formation
   Principal Investigator: Osman, Islam
   Sponsor: **Zhou, Jiliang**
   The goal of this funded project is to interrogate the Hippo signaling effector TEAD1 in neointimal formation in vivo and its underlying mechanism for smooth muscle cell proliferation.
7. **NIH, R01; HL109605. 01/01/2012 - 12/31/2017.** Total Cost: $1,844,375.
   Title: Role of Hippo-YAP pathway in smooth muscle phenotypic modulation
   Principal Investigator: **Zhou, Jiliang**
   The goal of this project is to examine the novel role of Hippo-YAP signaling and its underlying mechanism in regulating smooth muscle development and phenotypic modulation.
8. **AHA, Postdoctoral Fellowship; 12POST12180000. 07/01/2012 - 09/30/2012.**
   Relinquished due to the lab relocation.
   Title: A novel role of YAP in arterial injury induced smooth muscle phenotypic modulation
   Principal Investigator: Wang, Xiaobo
   Sponsor: **Zhou, Jiliang**
   The focus of the proposed research is to determine the role of YAP in arterial injury induced smooth muscle phenotypic modulation by using mouse femoral artery wire injury model.
9. **AHA, Scientist Development Grant; 0830274N. 01/01/2008 - 12/31/2011.**

Title: Activation of myocardin function by a ubiquitin E3 ligase, UBR5

Principal Investigator: **Zhou, Jiliang**

The goal of this project is to examine the role of a ubiquitin E3 ligase UBR5 in regulating myocardin activity to control smooth muscle differentiation under physiological and pathological conditions.

10. **AHA, Postdoctoral Fellowship; 0520135Z. 01/01/2005 - 12/31/2006.**

Title: Regulation of smooth muscle-specific gene expression by myocardin

Principal Investigator: **Zhou, Jiliang**

The major goal of this project is to determine the mechanisms regulating smooth muscle-specific gene expression by myocardin. Experiments are designed to determine why myocardin distinguishably activates telokin, but not c-fos gene expression, even though the promoters of both genes contain a single CArG box that binds SRF.

PUBLICATIONS (*Corresponding author; Representative publications are highlighted in purple)

Published Articles and Reviews

1. He X, Dong K, Shen J, Hu G, Mintz JD, Atawia RT, Zhao J, Chen X, Caldwell RW, Xiang M, Stepp DW, Fulton DJ, **Zhou J.***. The Long Noncoding RNA Cardiac Mesoderm Enhancer-Associated Noncoding RNA (Carmn) Is a Critical Regulator of Gastrointestinal Smooth Muscle Contractile Function and Motility. Gastroenterology. 2023 Apr 6:S0016-5085(23)00583-8. doi: 10.1053/j.gastro.2023.03.229. Epub ahead of print. PMID: 37030336.
   Highlighted with an **editorial** "Sometimes Gut Smooth Muscle Forget That They Are Supposed to Contract: CARMN and Visceral Myopathy".
2. Zou J, Wang W, Lu Y, Ayala J, Dong K, Zhou H, Wang J, Chen W, Weintraub NL, **Zhou J**, Li J, Su H. Neddylation is required for perinatal cardiac development through stimulation of metabolic maturation. Cell Rep. 2023 Jan 31;42(1):112018. doi: 10.1016/j.celrep.2023.112018. Epub 2023 Jan 19. PMID: 36662623; PMCID: PMC10029150.
3. Xu C, Zhou H, Jin Y, Sahay K, Robicsek A, Liu Y, Dong K, **Zhou J**, Barrett A, Su H, Chen W. Hepatic neddylation deficiency triggers fatal liver injury via inducing NF-κB-inducing kinase in mice. Nat Commun. 2022 Dec 16;13(1):7782. doi: 10.1038/s41467-022-35525-6. PMID: 36526632; PMCID: PMC9758150.
4. Lin HP, Singla B, Ahn W, Ghoshal P, Blahove M, Cherian-Shaw M, Chen A, Haller A, Hui DY, Dong K, **Zhou J**, White J, Stranahan AM, Jasztal A, Lucas R, Stansfield BK, Fulton D, Chlopicki S, Csányi G. Receptor-independent fluid-phase macropinocytosis promotes arterial foam cell formation and atherosclerosis. Sci Transl Med. 2022 Sep 21;14(663):eadd2376. doi: 10.1126/scitranslmed.add2376. Epub 2022 Sep 21. PMID: 36130017.
5. Wu Y, Li P, Liu L, Goodwin AJ, Halushka PV, Hirose T, Nakagawa S**, Zhou J**, Liu M, Fan H. lncRNA Neat1 regulates neuronal dysfunction post-sepsis via stabilization of hemoglobin subunit beta. Mol Ther. 2022 Mar 21: S1525-0016(22)00170-8. doi: 10.1016/j.ymthe.2022.03.011. PMID: 35331906.
6. Singla B, Lin HP, Ahn W, Xu J, Ma Q, Sghayyer M, Dong K, Cherian-Shaw M, **Zhou J**, Huo Y, White J, Csanyi G. Loss of myeloid cell-specific SIRPa, but not CD47, attenuates inflammation and suppresses atherosclerosis. Cardiovasc Res. 2021 Dec 23: cvab369. doi: 10.1093/cvr/cvab369. PMID: 34940829.

7. Dong K, Shen J, He X, Hu G, Wang L, Osman I, Bunting KM, Dixon-Melvin R, Zheng Z, Xin H, Xiang M, Vazdarjanova A, Fulton DJR, **Zhou J.***. *CARMN* Is an Evolutionarily Conserved Smooth Muscle Cell-Specific LncRNA That Maintains Contractile Phenotype by Binding Myocardin. Circulation. 2021 Dec 7;144(23):1856-1875. doi: 10.1161/CIRCULATIONAHA.121.055949. PMID: 34694145; PMCID: PMC8726016.

8. Osman I., Dong K., Kang X., Yu L., Xu F., Ahmed ASI., He X., Shen J., Hu G., Zhang W., **Zhou J.***. YAP1/TEAD1 upregulate platelet-derived growth factor receptor beta to promote vascular smooth muscle cell proliferation and neointima formation. Journal of Molecular and Cellular Cardiology. 2021 Mar 19;156:20-32. doi: 10.1016/j.yjmcc.2021.03.005. Epub ahead of print. PMID: 33753119.

9. He X., Dong K., Shen J., Hu G., Liu J., Kang X., Wang L., Atawia RT, Osman I., Caldwell RW, Xiang M., Zhang W., Zheng Z., Li L., Fulton DJR, Deng K., Xin H.*, **Zhou J.***. Deficiency of the novel high mobility group protein HMGXB4 protects against systemic inflammation-induced endotoxemia in mice. Proc Natl Acad Sci U S A. 2021 Feb 16;118(7):e2021862118. doi: 10.1073/pnas.2021862118. PMID: 33563757.

10. Liu J., Wen T., Dong K., He X., Zhou H., Shen J., Fu Z., Hu G., Ma W., Li J., Wang W., Wang L., Akerberg BN, Xu J., Osman I., Zheng Z., Wang W., Du Q., Pu WT, Xiang M., Chen W., Su H., Zhang W.*, **Zhou J.***. TEAD1 protects against necroptosis in postmitotic cardiomyocytes through regulation of nuclear DNA-encoded mitochondrial genes. Cell Death Differ. 2021 Jan 19. doi: 10.1038/s41418-020-00732-5. Epub ahead of print. PMID: 33469230

11. Zheng JP, He X., Liu F., Yin S., Wu S., Yang M., Zhao J., Dai X., Jiang H., Yu L., Yin Q., Ju D., Li C., Lipovich L., Xie Y., Zhang K., Li HJ, **Zhou J.***, Li L*. YY1 directly interacts with myocardin to repress the triad myocardin/SRF/CArG box-mediated smooth muscle gene transcription during smooth muscle phenotypic modulation. Sci Rep. 2020 Dec 11;10(1):21781PMID: 33311559; PMCID: PMC7732823.

12. Ruan J., Zhang L., Hu D., Qu X., Yang F., Chen F., He X., Shen J., Dong K., Sweet M., Sanchez C., Li D., Shou W., **Zhou J.***, Cai CL*. Novel *Myh11* Dual Reporter Mouse Model Provides Definitive Labeling and Identification of Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology. 2020 Epub ahead of print. PMID: 33356387.

13. Dong K., He X., Su H., Fulton DJR, **Zhou J.***. Genomic analysis of circular RNAs in heart. BMC Med Genomics. 2020 Nov 7;13(1):167. PMID: 33160353

14. He XQ, Wang N, Zhao JJ, Wang D, Wang CJ, Xie L, Zheng HY, Shi SZ, He J, **Zhou J**, Xin HB, Deng KY. Specific deletion of CDC42 in pancreatic β cells attenuates glucose-induced insulin expression and secretion in mice. Mol Cell Endocrinol. 2020 Dec 1;518:111004. doi: 10.1016/j.mce.2020.111004. Epub 2020 Aug 29. PMID: 32871224.

15. Osman I., Wang L., Hu G., Zheng Z., **Zhou J.***. GFAP (Glial Fibrillary Acidic Protein)-positive progenitor cells contribute to the development of vascular smooth muscle cells and endothelial cells. Arteriosclerosis, Thrombosis, and Vascular Biology. 2020. 40(5):1231-1238.

    Selected as the **Cover article**.

16. Akerberg B.N., Gu F., VanDusen N.J., Zhang X., Dong R., Li K., Zhang B., Zhou B., Sethi I., Ma Q., Wasson L., Wen T., Liu J., Dong K., Conlon FL, **Zhou J.**, Yuan G.C., Zhou P., Pu W.T.. A reference map of murine cardiac transcription factor chromatin occupancy

identifies dynamic and conserved enhancers. Nat Commun. 2019 Oct 28;10(1):4907. doi: 10.1038/s41467-019-12812-3.

17. Wen T., Liu J., He X., Dong K., Hu G., Yu L., Yin Q., Osman I., Peng J., Zheng Z., Xin H., Fulton D., Du Q., Zhang W.*, **Zhou J.***. Transcription factor TEAD1 is essential for vascular development by promoting vascular smooth muscle differentiation. Cell Death & Differentiation. 2019. 26(12): 2790-2806.

18. Zou J., Ma W., Littlejohn R., Li J., Stansfield B.K., Kim I.M., Liu J., **Zhou J.**, Weintraub N.L., Su H.. Transient inhibition of neddylation at neonatal stage evokes reversible cardiomyopathy and predisposes the heart to isoproterenol-induced heart failure. Am J Physiol Heart Circ Physiol. 2019. 316(6): H1406-H1416.

19. Livingston M.J., Wang J., **Zhou J.**, Wu G., Ganley I.G., Hill J.A., Yin X.M., Dong Z.. Clearance of damaged mitochondria via mitophagy is important to the protective effect of ischemic preconditioning in kidneys. Autophagy. 2019. 15(12): 2142-2162. doi: 10.1080/15548627.2019.1615822

20. Osman I., He X., Liu J., Dong K., Wen T., Zhang F., Yu L., Hu G., Xin H., Zhang W., **Zhou J.***. TEAD1 (TEA Domain Transcription Factor 1) promotes smooth muscle cell proliferation through upregulating SLC1A5 (Solute Carrier Family 1 Member 5)-mediated glutamine uptake. Circulation Research. 2019. 124(9): 1309-1322.

    Selected as an "**Editor's Picks**" and highlighted with an **editorial** "Hippo and Hyperplasia: TEAD Promotes mTORC1 Activation Post-Injury".

21. Barman S.A., Li X., Haigh S., Kondrikov D., Mahboubi K., Bordan Z., Stepp D.W., **Zhou J.**, Wang Y., Weintraub D.S., Traber P., Snider W., Jonigk D., Sullivan J.C., Crislip G.R., Butcher J.T., Thompson J., Su Y., Chen F., and Fulton D.J.R.. Galectin-3 is expressed in vascular smooth muscle cells and promotes pulmonary hypertension through changes in proliferation, apoptosis and fibrosis. The American Journal of Physiology - Lung Cellular and Molecular Physiology. 2019. 316(5): L784-L797.

22. Ahmed A.S.I., Dong K., Liu J., Wen T., Yu L., Xu F., Kang X., Osman I., Hu G., Bunting KM., Crethers D., Gao H., Zhang W., Liu Y., Wen K., Agarwal G., Hirose T., Nakagawa S., Vazdarjanova A., **Zhou J.***. Long noncoding RNA NEAT1 (nuclear paraspeckle assembly transcript 1) is critical for phenotypic switching of vascular smooth muscle cells. Proceedings of the National Academy of Sciences of the United States of America. 2018, 115(37): E8660-E8667.

23. Zou J., Ma W., Li J., Littlejohn, R., Zhou H., Kim I., Fulton D., Chen W., Weintraub N., **Zhou J.**, Su H.. Neddylation mediates ventricular chamber maturation through repression of Hippo signaling. Proceedings of the National Academy of Sciences of the United States of America. 2018, 115(17): E4101-E4110.

24. Wen T., Yin Q., Yu L., Hu G., Liu J., Zhang W., Huang L., Su H., Wang M., **Zhou J.***. Characterization of mice carrying a conditional TEAD1 allele. Genesis. 2017, 55(12).

25. Zhao K., Shen C., Lu Y., Huang Z., Li L., Rand C.D., Pan J., Sun X.D., Tan Z, Wang H., Xing G., Cao Y., Hu G., **Zhou J.**, Xiong W., Mei L.. Muscle Yap is a regulator of neuromuscular junction formation and regeneration. Journal of Neuroscience. 2017, 37(13):3465-3477

26. Chen F., Li X., Chen F., Li X., Aquadro E., Haigh S., **Zhou J.**, Stepp D.W., Weintraub N.L., Barman S.A., Fulton D.J.R.. Inhibition of histone deacetylase reduces transcription of NADPH oxidases and ROS production and ameliorates pulmonary arterial hypertension. Free Radical Biology & Medicine. 2016, 99: 167-178.

27. Huang Z., Hu J., Pan J., Wang Y., Hu G., **Zhou J.**, Mei L. and Xiong W.. YAP stabilizes smad1 and promotes BMP2-induced neocortical astrocytic differentiation. Development. 2016, 143(13): 2398-2409.
28. Huang Z., Sun D., Hu J., Tang F., Lee D., Wang Y., Hu G., Zhu X., **Zhou J.**, Mei L. and Xiong W.. Neogenin promotes BMP2-activation of YAP and Smad1 and enhances astrocytic differentiation in developing mouse neocortex. Journal of Neuroscience. 2016, 36(21): 5833-5849.
29. Varney S., Betts C., Zheng R., Wu L., Hinz B., **Zhou J.**, and Van De Water L.. Hic-5 is required for myofibroblast differentiation by regulating mechanically dependent, MRTF-A nuclear accumulation. Journal of Cell Science. 2016, 129(4): 774-787.
30. Huang Z., Wang Y., Hu G., **Zhou J.**, Mei L. and Xiong W.. YAP is a critical inducer of SOCS3, preventing reactive astrogliosis. Cerebral Cortex. 2016, 26(5): 2299-2310.
31. Xu F., Ahmed A., Kang X., Hu G., Liu F., Zhang W., **Zhou J.***. MicroRNA-15b/16 attenuates vascular neointima formation by promoting the contractile phenotype of vascular smooth muscle through targeting YAP. Arteriosclerosis, Thrombosis, and Vascular Biology. 2015, 35(10): 2145-2152.
32. **Zhou J.***. An emerging role for Hippo-YAP signaling in cardiovascular development. Journal of Biomedical Research. 2014, 28(4): 251-254. **Review article**.
33. Wang Y., Hu G., Liu F., Wang X., Wu M., Schwarz J., **Zhou J.***. Deletion of Yes-Associated Protein (YAP) specifically in cardiac and vascular smooth muscle cells reveals a crucial role for YAP in mouse cardiovascular development. Circulation Research. 2014, 114(6): 957-965.

    Selected as the **Cover Article** and **an Editor's Picks**.
34. Liu F., Wang X., Hu G., Wang Y., and **Zhou J.***. The transcription factor TEAD1 represses smooth muscle-specific gene expression by abolishing myocardin function. J. Biol. Chem.. 2014, 289(6): 3308-3316.

    Selected as a "**Paper of the Week**" with the criteria that ranked in the top 2 percent of manuscripts in a year in significance and overall importance by the editorial board members and associate editors.
35. Fang F., Chen D., Yang Y., Tian W., Xu H., Cheng X., Yu L., Dai X., Fang M., **Zhou J.**, Gao Y., Chen Q., Xu Y.. Pro-inflammatory stimuli engage Brahma related gene 1 (Brg1) and Brahma (Brm) in endothelial injury. Circulation Research. 2013, 113(8): 986-996.
36. Wang X., Hu G., Gao X., Wang Y., Zhang W., Harmon E.Y., Zhi X., Xu Z., Lennartz M.R., Barroso M., Trebak M., Chen C., and **Zhou J.***. The induction of Yes-Associated Protein expression after arterial injury is crucial for smooth muscle phenotypic modulation and neointima formation. Arteriosclerosis, Thrombosis, and Vascular Biology. 2012, 32(11): 2662-2669.
37. Xu Z., Ji G., Shen J., Wang X., **Zhou J.**, and Li L.. SOX9 and myocardin counteract each other in regulating vascular smooth muscle cell differentiation. Biochem. Biophys. Res. Commun.. 2012, 422:285-90.
38. Wang X., Hu G., Courtney B.C., Harmon E.Y., Keller R.S., Van De Water L., and **Zhou J.***. Transforming Growth Factor-β1-induced Transcript 1 protein, a novel marker for smooth muscle contractile phenotype, is regulated by serum response factor/myocardin protein. J. Biol. Chem.. 2011, 286(48): 41589-41599.
39. Zhang W., Halligan K.E., Zhang X., Bisaillon J.M., Gonzalez-Cobos J.C., Motiani R.K., Hu

G., Vincent P.A., **Zhou J.**, Barroso M., Singer H.A., Matrougui K., Trebak M.. Orai1-mediated ICRAC is essential for neointima formation after vascular injury. Circulation Research. 2011, 109(5): 534-542.

40. Zhang M., Chen M., Kim J.R., **Zhou J.**, Jones R.E., Tune J.D., Kassab G.S., Metzger D., Ahlfeld S., Conway S.J., Herring B.P.. SWI/SNF complexes containing Brahma or Brahma related gene 1 play distinct roles in smooth muscle development. Mol. Cell. Biol.. 2011, 31(13): 2618-2631.
41. Fang F., Yang Y., Yuan Z., Gao Y., **Zhou J.**, Chen Q., Xu Y.. Myocardin-related transcription factor A mediates OxLDL-induced endothelial Injury. Circulation Research. 2011, 108(7): 797-807.
42. **Zhou J.***, Hu G., Wang X.. Repression of smooth muscle differentiation by a novel high-mobility-group box containing protein, HMG2L1. J. Biol. Chem.. 2010, 285(30): 23177-23185.
43. Wang X., Hu G., **Zhou J.***. Repression of versican expression by miR-143. J. Biol. Chem.. 2010, 285(30): 23241-23250.
44. Hu G., Wang X., Saunders D., Henderson M., Russell A., Herring B.P., **Zhou J.***. Modulation of myocardin function by the ubiquitin E3 ligase, UBR5. J. Biol. Chem.. 2010, 285(16): 11800-11809.
45. **Zhou J.,** Zhang M., Fang H., El-Mounayri O., Rodenberg J., Imbalzano A., and Herring B.P.. The SWI/SNF chromatin remodeling complex is essential for myocardin induced smooth muscle cell differentiation. Arteriosclerosis, Thrombosis, and Vascular Biology. 2009, 29(6): 921-928.
46. **Zhou J.*,** Blue K.E., Hu G. and Herring B.P.. Thymine DNA glycosylase represses myocardin-induced smooth muscle cell differentiation by competing with SRF for myocardin binding. J. Biol. Chem.. 2008, 283(51): 35383-35392.
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54. **Zhou J.**, Hoggatt A.M. and Herring B.P.. Activation of the smooth muscle-specific telokin gene by thyrotroph embryonic factor (TEF). J. Biol. Chem.. 2004, 279: 15929-15937.

55. **Zhou J.**, Yao G., Zhang J., and Chang Z.. CREB DNA binding activation by a 50-Hz magnetic field in HL60 cells is dependent on extra- and intracellular Ca^{2+} but not PKA, PKC, ERK, or p38 MAPK. Biochem Biophys Res Commun.. 2002, 296: 1013-1018.
56. **Zhou J.**, Li C., Yao G., Chiang H., and Chang Z.. Gene expression of cytokine receptors in HL60 cells exposed to a 50-Hz magnetic field. Bioelectromagnetics. 2002, 23: 339-346.
57. **Zhou J.***, Zhang Y., Huang M., Chen Y., Chen X., Yao G.. Phylogenetic relationships among *Crotalinae* based on mitochondrial cytochrome *b* gene sequence variations. Acta Zoologica Sinica. 2001, 47(4): 361-366.
58. **Zhou J.**, Yao Y., Huang M., Yang D., Lv S., Zhang Y.. Phylogenetic relationships among *Viperidae*, *Crotalinae* based on mitochondrial 12S rRNA sequence variations. Acta Genetica Sinica. 2000, 27(4): 283-289.

Abstract

1. Dong K., He X., Hu G., Joseph Miano, **Zhou J.**. Smooth muscle cell-specific lncRNA CARMN is regulated by SRF/MYOCD complex. Vascular Discovery: From Genes to Medicine Scientific Sessions, 2022. May 11-14, 2022. Seattle, WA. The presenter Dr. Dong won a travel award to the meeting.
2. He X., Dong K., Hu G., Zhao J., Joseph Miano, **Zhou J.**. The smooth muscle cell-specific lncRNA CARMN plays a potential role in aortic aneurysm. Vascular Discovery: From Genes to Medicine Scientific Sessions, 2022. May 11-14, 2022. Seattle, WA. The presenter Dr. He won a travel award to the meeting.
3. He X., Dong K., Hu G., Shen J., Osman I., **Zhou J.**. Critical role of the novel high mobility protein HMGXB4 in vascular smooth muscle cells. Selected as an “Oral Presentation”. 2020 AHA Scientific Sessions. December 14-16, 2020.
4. Osman I., Yu L., Kang X., Ahmed A., Hu G., Zhang W., **Zhou J.**. Yes-associated Protein 1 (YAP1) upregulates platelet-derived growth factor receptor beta to promote vascular smooth muscle cell proliferation and neointima formation. Vascular Discovery: From Genes to Medicine. Selected as an “Oral Presentation”. 2019 AHA Scientific Sessions. May 14-16, 2019. Boston, MA
5. Osman I., Wen T., Dong K., He X., Zhang F., Liu J., Hu G., Xin H., Zhang W., Offermanns, S., **Zhou J.**. Transcription factor TEAD1 is critical for smooth muscle cell proliferation by regulating SLC1A5-mediated glutamine uptake. International MADS Box Conference. July 8, 2018. Lake Placid, NY
6. Wen T., Liu J., Dong K., Hu G., Yu L., Osman I., Peng J., Zheng Z., Zhang W., **Zhou J.**. The transcription factor TEAD1 is critical for vascular development in mouse by promoting differentiation of vascular smooth muscle cells. International MADS Box Conference. July 8, 2018. Lake Placid, NY
7. Wen T., Liu J., Dong K., Hu G., Yu L., Osman I., Peng J., Zheng Z., Zhang W., **Zhou J.**. The transcription factor TEAD1 is critical for vascular development in mouse by promoting differentiation of vascular smooth muscle cells via regulating Pitx2c and myocardin expression. ATVB. May 10, 2018. San Francisco, CA
8. Xu F., Ahmed A., Kang X., Hu G., Liu F., Zhang W., **Zhou J.**. MicroRNA-15b/16 attenuates vascular neointima formation by promoting the contractile phenotype of vascular smooth muscle through targeting YAP. Annual Scientific Sessions 2015. International Academy of Cardiology. July 26, 2015. Vancouver, BC, Canada.
9. Wang Y., Hu G., Wang X., Wu M., Schwarz J., **Zhou J.**. Critical role YAP in vascular smooth muscle development. 1st International MADS box transcription factor meeting. Rochester, NY. 2013.

10. Wang X., Hu G., Zhang W., Zhi X., Trebak M., Chen C**., Zhou J.**. The induction of Yes-Associated Protein (YAP) expression after arterial injury is crucial for smooth muscle phenotypic modulation and neointima formation. American Heart Association, Scientific Sessions. Los Angeles, CA. 2012.
11. Wang X., Hu G., Zhang W., Zhi X., Trebak M., Chen C., **Zhou J.**. A novel role of YAP in smooth muscle phenotypic modulation. NAVBO Meeting. Cape Cod, MA. 2011.
12. Wang X., Hu G., **Zhou J.**. Repression of versican expression by miR-143. American Heart Association, Scientific Sessions. Chicago, IL. 2010.
13. Wang X., Hu G., **Zhou J.**. Hic-5 is a novel marker for smooth muscle contractile phenotype. North East Smooth Muscle Meeting. Albany, NY. 2010.
14. Hu G., Wang X., Saunders D., Henderson M., Russell A., Herring B.P., **Zhou J.**. Activation of myocardin function by an ubiquitin E3 ligase, EDD. American Heart Association, Scientific Sessions. Orlando, Florida. 2009.
15. Wang X., Hu G., **Zhou J.**. Myocardin Induces MicroRNA-143 Expression to Repress Smooth Muscle Cell Migration. North East Smooth Muscle Meeting. Burlington, VT. 2009.
16. **Zhou J.**, Blue EK., Hu G., Herring BP. TDG represses myocardin-induced smooth muscle cell differentiation by competing with SRF for myocardin binding. American Heart Association, Scientific Sessions. New Orleans, Louisiana. 2008.
17. Touw K., **Zhou J.** and Herring BP. Transcriptional regulation of GI smooth muscle in normal and diabetic mice. Experimental Biology Meeting. San Diego, CA. 2008.
18. Zhang M., Fang H, **Zhou J.** and Herring BP. A novel role of Brg1 in the regulation of SRF/MRTFA-dependent smooth muscle-specific gene expression. Weinstein Meeting. Indianapolis, IN. 2007.
19. **Zhou J.**, Fang H., Zhang M., El-Mounayri O., Rodenberg J., Imbalzano A. and Herring BP. The SWI/SNF chromatin remodeling complex is essential for myocardin induced smooth muscle cell differentiation. Weinstein Meeting. Indianapolis, IN. 2007.
20. Zhang M., Fang H., **Zhou J.** and Herring BP. A novel role of Brg1 in the regulation of SRF/MRTFA-dependent smooth muscle-specific gene expression. Experimental Biology Meeting. Washington DC. 2007.
21. Herring BP, **Zhou J.**, Zhang M., Fang H., and Rodenberg J. Regulation of smooth muscle differentiation by ATP-dependent chromatin remodeling enzymes. ASBMB conference on “Transcription Regulation”. San Francisco, CA. 2006.
22. **Zhou J.**, Hu G., Herring BP. ELK-1 Inhibits expression of the smooth muscle-specific telokin gene. CSHL conference on “Mechanism of Eukaryotic Transcription”. Long Island, NY. 2005.
23. Yin F., **Zhou J.**, Zhang M., Hoggatt A. and Herring BP. Transcriptional regulation of the *MYLK* Gene. CSHL conference on “Mechanism of Eukaryotic Transcription”. Long Island, NY. 2005.
24. **Zhou J.**, Hu G., Yin F. and Herring BP. Myocardin regulation of smooth muscle-specific gene. ASCB conference on “Developmental Control Gene Expression”. Washington DC. 2004.
25. Herring BP., Touw K., Hoggatt A., Azriel J., **Zhou J.**, El-Mounayri O. Smooth muscle cell-restricted expression of telokin. NAVBO Workshop on Vascular Development. Pacific Grove, CA. 2004.
26. **Zhou J.**, Hoggatt A. and Herring BP. Activation of the smooth muscle-specific telokin gene by thyrotroph embryonic factor (TEF). FASEB Summer Research Conference on Smooth Muscle. Snowmass, CO. 2003.

INVITED SEMINAR/PRESENTATION

1. “Essential Role of the LncRNA CARMN in regulating Smooth Muscle Phenotype”. August 10, 2023. Nationwide Children’s Hospital, Ohio State University. Columbus, OH.
2. “Molecular Control of Smooth Muscle Differentiation & Homeostasis”. Jan. 11, 2023. Department of Pharmacology, Tulane University School of Medicine.
3. “The class III phosphatidylinositol 3-kinase PIK3C3 is a master regulator for smooth muscle cell identity”. Invited presentation at the session “Revealing Vascular Biology through Omics”. 22nd International Vascular Biology Meeting. October 13-17, Oakland Marriott City Center, Oakland, CA.
4. “Discovery of the smooth muscle-specific lncRNA CARMN”. Invited session presentation (Molecular, Developmental and Cellular Biology of the Vessel Wall) at Vascular Discovery: From Genes to Medicine Scientific Sessions, 2022. May 11-14, 2022. Seattle, WA
5. “The dark that matters: long non-coding RNAs in smooth muscle biology”. Dec. 1, 2021. Institute of Translational Medicine, Georgia State University. Atlanta, GA.
6. “A surprising role of the transcription factor TEAD1 in cardiac homeostasis by regulating cardiomyocyte necroptosis”. Oct. 24, 2020. The 31st Great Wall International Congress of Cardiology (GW-ICC). Beijing, China. Virtual conference.
7. “Emerging roles of lncRNAs in smooth muscle”. February 19-20, 2020. Department of Pathology, Medical University of South Carolina. Charleston, SC.
8. “Hippo-YAP signaling, lncRNA and smooth muscle”. December 10-11, 2019. Department of Pathology, School of Medicine, University of Alabama at Birmingham. Birmingham, AL.
9. “Hippo-YAP-TEAD in smooth muscle cells”. AHA Annual Scientific Sessions. November 17, 2019. Philadelphia, PA.
10. “Non-coding RNA in smooth muscle biology”. June 13, 2019. College of Life Sciences, Nanchang University. Nanchang, China
11. “Critical role of Hippo-YAP-TEAD pathway in vascular smooth muscle cells”. 2019 ISHR World Congress. International Society for Heart Research. June 3-6, 2019. Beijing, China.
12. “Hippo, YAP and TEAD1 in vascular smooth muscle cells”. July 16, 2018. National Center for Cardiovascular Research. Fuwai Hospital, Chinese United Medical University. Beijing, China.
13. “Role of long non-coding RNA NEAT1 in smooth muscle phenotypic modulation”. AHA Annual Scientific Sessions. November 13, 2017. Anaheim, CA.
14. “Novel role of long non-coding RNA in smooth muscle phenotypic modulation”. August 5, 2016. Georgia State University. Atlanta, GA.
15. “Hippo-YAP signaling, long non-coding RNA and smooth muscle phenotypic modulation”. June 15, 2016. Children’s National Health System. Washington, DC.
16. “Hippo-YAP signaling, lncRNA and smooth muscle phenotypic switching”. January 7, 2016. Wayne State University School of Medicine. Detroit, MI.
17. “MicroRNA-15/16 promotes smooth muscle contractile phenotype and attenuates vascular neointima formation by targeting yes-associated protein YAP”. Annual Scientific Sessions. International Academy of Cardiology. July 26, 2015. Vancouver, BC, Canada.
18. “Novel role of the lncRNA NEAT1 in smooth muscle cells”. July 3, 2015. Institute for Nutritional Sciences, Chinese Academy of Sciences. Shanghai, China.

19. “Hippo-YAP pathway, autophagy and smooth muscle phenotype”. June 16, 2014. Suzhou University School of Medicine. Suzhou, China.
20. “Determinants of smooth muscle phenotype”. June 13, 2014. Institute for Nutritional Sciences, Chinese Academy of Sciences. Shanghai, China.
21. “Novel role of HMG2L1 in smooth muscle and macrophages”. January 22, 2014. Vascular Biology Center, Medical College of Georgia, Georgia Regents University. Augusta, Georgia.
22. “Emerging role of Hippo-YAP signaling in smooth muscle phenotypic modulation and development”. October 14, 2013. Institute of Molecular Medicine & Genetics, Medical College of Georgia, Georgia Regents University. Augusta, Georgia.
23. “Critical role of Hippo-YAP signaling in vascular development and diseases”. February 7, 2013. Department of Physiology, Medical College of Georgia, Georgia Regents University. Augusta, Georgia.
24. “Essential role of YAP in cardiovascular development and diseases”. April 19, 2012. Department of Physiology, University of Tennessee Health Science Center. Memphis, Tennessee.
25. “Hippo-YAP signaling: an emerging role in cardiovascular biology”. April 10, 2012. Department of Pharmacology and Toxicology, Georgia Health Sciences University. Augusta, Georgia.
26. “Hippo-YAP signaling: an emerging role in cardiovascular development and diseases”. January 18, 2012. Burnett School of Biomedical Sciences, University of Central Florida. Orlando, Florida.
27. “Essential role of YAP in cardiovascular development and diseases”. October 26, 2011. Department of Cellular and Integrative Physiology, University of Nebraska Medical Center. Omaha, Nebraska.
28. “Hippo-YAP signaling: an emerging role in cardiovascular biology”. September 14, 2011. Department of Molecular and Cellular Physiology, Louisiana State University Health Sciences Center-Shreveport. Shreveport, Louisiana.
29. “Myocardin, Hippo-YAP pathway and smooth muscle differentiation”. November 19, 2010. Herman B Wells Center for Pediatric Research, Indiana University School of Medicine. Indianapolis, Indiana.
30. “A novel role of Hippo-YAP pathway in smooth muscle phenotypic modulation”. August 26, 2010. Nanchang University School of Medicine. Nanchang, China.
31. “Hic-5, a novel marker for smooth muscle contractile phenotype”. July 30, 2010. Nanjing Medical University. Nanjing, China.
32. “MicroRNA functions in smooth muscle cells”. July 26, 2010. Zhejiang University School of Medicine. Hangzhou, China.
33. “Activation of myocardin function by an ubiquitin E3 ligase, EDD”. November 17, 2009. AHA Scientific Sessions. Orlando, FL.
34. “Yin and Yang modulation of myocardin function in smooth muscle differentiation”. February 7, 2008. Albany Medical College. Albany, NY.
35. “Yin and Yang modulation of myocardin function”. January 16, 2008. University of South Alabama. Mobile, AL.

TEACHING

Course Teaching

1. 2016-current VBIO 8130, Modern Drug Discovery and Development, Ph.D. students, 2 hours total/year, Augusta University
2. 2015-current COGS 8120, Cardiovascular Physiology and Pharmacology, Ph.D. students, 5 hours total/year, Augusta University
3. 2014-current PHRM 5012, Clinical Pharmacology and Therapeutics, M.D. students, 6 hours total/year, Augusta University
4. 2014-current MEDI 5244, Androgen and Estrogen, M.D. students, 2 hours total/year, Augusta University
5. 2014-current USMLE review, M.D. students, 1 hour total/year, Augusta University
6. 2014-current PHRM 5240, Pharmacology Small Group Discussion, M.D. students, 2 hours total/year, Augusta University
7. 2014-current VBIO 8020, Frontiers in Vascular Biology, M.S. and Ph.D. students, 2 hours total/year, Augusta University
8. 2013 PHRM 8043, Pharmacology and Therapeutics, M.S. and Ph.D. students, 2 hours total/year, Augusta University
9. 2013 PHRM 5003, Pharmacology and Toxicology Elective Tutorial, M.D. students, 8 hours total/year, Augusta University
10. 2008 - 2012 CS 605, Cellular and Molecular Basis of Disease, M.S. and Ph.D. students of CCS, 4 hours total/year, Albany Medical College
11. 2008 - 2012 CBCR 606, Transcriptional Control in Cancer, Inflammation and Cardiovascular Diseases, M.S. and Ph.D. students of CCS and CRCR, 8 hours total/year, Albany Medical College

Mentorship and Advisement

1. Xiaohui Guan, May 2023 - present. Postdoc, mentoring Xiaohui's research in the work of role of *Tead1/3* in smooth muscle homeostasis.
2. Zhixia Bai, Jan. 2023 - present. Visiting scholar, mentoring Zhixia's research in the work of role of Tead1/3 in smooth muscle development.
3. Jian Sheng. Nov. 2018 - Feb. 2021. Visiting Ph.D. student, mentoring Jian's research in studies of Vps34 in VSMCs.
4. Liang Wang, May 2018 - July 2020. Visiting Scientist, mentoring Dr. Wang's research in the studies of Vps34 in GI SMCs.
5. **Xiangqin He**, Sept. 2017 - present, former visiting student and now is a post-doc at the lab, mentoring Xiangqin's research in the studies of HMG2L1 in VSMCs. **1**): Published one manuscript in PNAS 2021 as a first author. **2**): Funded by a postdoctoral fellowship from the AHA from April 2021 to March 2023. **3**): Won the best poster presentation award in the 36th Annual Graduate Research Day, Augusta University, 2022. **4**): Submitted a K99 application in Feb. 2023. **5**): Published a manuscript in Gastroenterology at the first author in 2023. This publication was highlights by an editorial in the same issue.
6. **Kunzhe Dong**, Ph.D., August 2017 - present, Postdoctoral Fellow, mentoring Dr. Dong's research in the studies of CARMN in VSMCs. **1**): Funded by a postdoctoral fellowship from the AHA from Jan. 2019 to Dec. 2021. **2**): Received the 35th Annual Graduate Research Day Award for Excellence in Research for 2nd place in the postdoctoral poster

presentation. **3**): Published a research article in PNAS in 2018 as a co-first author. **4**): One manuscript has been published in BMC Medical Genomics in 2020 and one is published in Circulation in 2022 as the first author. **5**): Received a Career Development Award (2022 - 2024) from AHA. **6**): Secured a tenure-track assistant professor position at the Center for Immunology of Georgia, Augusta University, starting from Jan. 1st, 2023.

7. Fanzhi Zhang, M.D., Dec. 2016 - Dec. 2017, Visiting Scientist, mentoring Dr. Zhang's research in the studies of VSMC-expressed YAP in atherosclerosis
8. Jinhua Liu, M.D., Sept. 2016 - Jan. 2019, Visiting Scientist, mentoring Dr. Liu's research in the studies of TEAD1 function in neural crest development and the heart homeostasis in mouse. Published one manuscript as the first author in CDD in 2021.
9. **Islam Osman**, Ph.D., August 2016 - April 2022, Postdoctoral Fellow, mentoring Dr. Osman's research in the studies of TEAD1 in restenosis. **1**): Funded by a postdoctoral fellowship from the AHA from July 2018 to June 2020; **2**): Received a travel award from International MADS Box Conference, 2018. Lake Placid, NY; **3**): Received the 35th Annual Graduate Research Day Award for Excellence in Research for 1st place in the postdoctoral oral presentation; **4**): Received the 33rd Annual Graduate Research Day Award for Excellence in Research for 1st place in the postdoctoral poster presentation. **5**): Abstract was selected as an "Oral Presentation" at "Vascular Discovery: From Genes to Medicine" 2019 Scientific Sessions. May 14-16, 2019. Boston, MA. **6**): Published a research article in "Circulation Research" as the first author in 2019. The paper was selected as an **"Editor's Pick"** and highlighted by an accompanying **editorial**. **7**): Published a brief report in "ATVB" as the first author in 2020. This paper was selected as the "**Cover Article**". **8**): Awarded with a K99/R00 grant from NIH in 2020. **9**): Published one manuscript in JMCC in 2021 as the first author. **10):** Started his independent research program at University of Toledo as a tenure-track assistant professor starting from April 2022.
10. Tong Wen, M.D., April 2016 - Feb. 2018, Visiting Scientist, mentoring Dr. Wen's research in the studies of TEAD1 in mouse cardiovascular development. Published 2 first author papers in "Genesis" in 2017 and in "Cell Death and Differentiation" in 2019, respectively. Published one manuscript in CDD as the first author in 2019.
11. Yao He, M.D., Jan. - March 2016, Visiting Scientist, mentoring Dr. He's research in the studies of NEAT1 in the vascular remodeling
12. Qin Yin, M.D./Ph.D., Sept. 2015 - July, 2016, Visiting Scientist, mentoring Dr. Yin's research in the studies of YAP function in adult mouse
13. Luyi Yu, M.D., June 2015 - June 2016, Visiting Scientist, mentoring Dr. Yu's research in the studies of HMG2L1 function in atherosclerosis
14. Brittany Crowe, B.S., March 2015 - July 2015, Rotation Ph.D. Student, mentoring Ms. Crowe's research in the studies of neogenin function in the mouse cardiovasculature
15. Xiuhua Kang, M.D., March 2014 - March 2015, Visiting Scientist, mentoring Dr. Kang's research in the studies of Vps34 function in vascular development in mouse
16. Fei Xu, M.D./Ph.D., September 2014 - March 2015, Visiting Scientist, mentoring Dr. Xu's research in the studies of miR-16 function in the neointima formation after artery injury. Published one 1st author paper in the ATVB in 2015.
17. Abu Ahmed, Ph.D., Feb. 2014 - July 2015, Postdoctoral Fellow, mentoring Dr. Ahmed's research in the studies of lncRNA function in smooth muscle cells. Published a 1st author paper in PNAS and a 2nd author paper in ATVB

18. Nicole Yiew, Ph.D. Student, 2014 - 2018, Ph.D. thesis committee member
19. Islam Osman, Ph.D. Student, 2014 - 2017, Ph.D. thesis committee member
20. Arwa Fairaq, Ph.D. Student, 2014 - 2018, Ph.D. thesis committee member
21. Prasanna Abeyrathna, Ph.D. Student, 2013 - 2017, Ph.D. thesis committee member
22. Fang Liu, Ph.D., 2012 - 2013, Postdoctoral Fellow, mentoring Dr. Liu's research in the studies of TEAD1 function in smooth muscle cells. Published 1 1st author in the JBC in 2014 which was selected as a **"Paper of the Week"**
23. Jovany Martinez, 2012 (June - August), Summer Student, mentoring Mr. Martinez's research in the studies of induction of YAP in smooth muscle cells
24. Yong Wang, Ph.D., 2011 - 2014, Postdoctoral Fellow, mentoring Dr. Wang's research in the studies of smooth muscle-specific YAP knock-out mice. Published 1 1st author paper in the "Circulation Research" in 2014. This paper was selected as an **"Editor's Pick"** and the **"Cover Article"**.
25. Xiangwei Gao, Ph.D., 2011 (June-September), Visiting Scientist, mentoring Dr. Gao's research in the studies of trans-differentiation of smooth muscle cells to macrophages
26. Amy Spinelli, Ph.D. Student, 2011 - 2012, Ph.D. thesis committee member
27. Kimberly Viles, M.S. Student, 2011 - 2012, M.S. thesis committee member
28. Fatima Saddouk, Ph.D. Student, 2011 (January-March), rotation research, mentoring
29. Jose Gonzalez, Ph.D. Student, 2010 - 2012, Ph.D. thesis committee member
30. Xiaobo Wang, Ph.D., 2009 - 2012, Postdoctoral Fellow, mentoring Dr. Wang's research program in microRNA and Hippo-YAP pathway in smooth muscles. **1**): Dr. Wang received a postdoctoral fellowship from AHA under my sponsorship. **2**): Published 2 papers in the JBC and 1 in the ATVB as the first author. 3): Awarded with a postdoctoral fellowship from AHA in 2012.
31. Guoqing Hu, DDS, 2008 - present, Research Associate, mentoring Dr. Hu's research program in transcriptional regulation of smooth muscle genes by myocardin. Published one 1st author paper in the JBC in 2010.

PROFESSIONAL SERVICES

Departmental, College, University or Organization Activities

1. Abstract reviewer, poster professor and session modulator. AHA Scientific Sessions. Chicago, Nov. 2022.
2. Promotion & Tenure committee, Dept. of Pharmacology and Toxicology, Augusta University. 2022
3. IACUC committee, Augusta University. 2019 - present
4. Abstract reviewer and poster professor. AHA Scientific Sessions. 2016 - present
5. Basic Science Advisory Council. Medical College of Georgia, Augusta University. 2017 - present
6. Scholarship review committee. Dept. of Pharmacology and Toxicology, Augusta University. 2017 - present
7. Organization committee. Chinese American Academy of Cardiology (CAAC). 2015 - present
8. Faculty search committee. VBC, Georgia Regents University. 2013 - 2018
9. Intramural Grants Program Review Committee. Georgia Regents University. 2013 - 2019

10. Poster and oral presentation judge of Annual Graduate Student Research Day. Georgia Regents University. 2013 - present
11. Committee member of 31st Annual Graduate Students Research & Reward Day (Judge for poster and oral presentation competition). Albany Medical College. 2010.
12. Reviewer for Mock Grants of M.D. Program Students. Albany Medical College. 2009.
13. Committee Chair of Departmental State-wide Retreat. Department of Cellular & Integrative Physiology, Indiana University School of Medicine. 2007.

Study Sections

1. UK Research and Innovation (UKRI). Medical Research Council (MRC), Molecular and Cellular Medicine. *Ad hoc*, 2022.
2. Grant review for NIH VCMB (Vascular Cell and Molecular Biology) Study Section, *Ad Hoc*, Oct. 2019
3. Grant review for British Heart Foundation, *Ad Hoc*, 2019 - present
4. AHA, Vascular Wall Biology Basic Science, Study Section 1. Co-chair and/or Peer Reviewer. 2018 - present
5. NIH, Center for Scientific Review, Anonymization Project, Peer Reviewer, 2018 - present
6. Grant review for Research Grants Council (RGC) of Hong Kong, *Ad Hoc*, 2017, 2018, 2019, 2020
7. Grant review for NIH VCMB (Vascular Cell and Molecular Biology) Study Section, *Ad Hoc*, June 2016
8. Grant review for National Natural Science Foundation of China, *Ad Hoc*, 2014, 2016
9. AHA Vascular Wall Biology Basic Science, Study Section 2, Peer Reviewer, 2013 - present
10. Grant review for Program Project Grant (National Heart, Lung, and Blood Institute), *Ad Hoc*, 2011, 2012

Editorial Services

1. Atherosclerosis
2. Arteriosclerosis, Thrombosis, and Vascular Biology
3. Autophagy
4. BBA
5. Biochemical Pharmacology
6. BioTechniques
7. BMC Genomics
8. British Journal of Pharmacology
9. Cancer letters
10. Cell Death and Differentiation
11. Cell Death and Diseases
12. Cell Reports
13. Circulation
14. Circulation Research
15. Gastroenterology
16. Hypertension
17. International Journal of Biological Sciences
18. International Journal of Cancer
19. iScience
20. Journal of Biological Chemistry
21. Journal of Biological Sciences
22. Journal of Clinical Investigation
23. Journal of Clinical Investigation-Insight

24. Molecular and Cellular Biochemistry
25. Nature Communications
26. Nature Medicine
27. Nucleic Acids Research
28. Oncogene
29. Oncotarget
30. Pediatric Cardiology
31. PLOS ONE
32. PLOS Genetics
33. Redox Biology
34. Science Signaling
35. Scientific Reports
36. Stem Cells
37. Stem Cell Research and Therapy
38. Translational Research
39. Theranostics

Editorial Board

Vascular Pharmacology

Frontiers in Cardiovascular Medicine

RELEASE OF RESEARCH NEWS FROM THE LAB

1. Long molecule of RNA essential to our GI tract's ability to contract and move food along. JagWire. May 9, 2023 https://jagwire.augusta.edu/long-molecule-of-rna-essential-to-our-gi-tracts-ability-to-contract-and-move-food-along/
2. Novel treatment target for heart disease found in the blood vessel wall. JagWire. Jan. 14, 2022. https://jagwire.augusta.edu/novel-treatment-target-for-heart-disease-found-in-the-blood-vessel-wall/
3. Albany Med draws disease study funds. Four researchers get a total of $6M to explore heart, lung problems. Times Union. May 21, 2012. http://www.timesunion.com/business/article/Albany-Med-draws-disease-study-funds-3575074.php.
4. Close to $6 Million in Government Grants Fund Heart/Lung & Cancer Research. Albany Medical Center News and Publications. May 21, 2012. http://www.amc.edu/pr/PressRelease/05.21.12_$.html
5. Protein Called YAP Gives Blood Vessels Strength, Shape. Georgia Regents University News letter (GReport). March 24, 2014. http://www.sciencenewsline.com/articles/2014032416460032.html
6. Protein called YAP gives blood vessels strength, shape. ScienceDaily, March 24, 2014. http://www.sciencedaily.com/releases/2014/03/140324111916.htm
7. 周继亮博士 Circ Res 封面文章：揭示重要血管调控蛋白。生物通。2014 年 3 月 26 日。http://www.ebiotrade.com/newsf/2014-3/2014325152143316.htm

REFERENCES

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