**CURRICULUM VITAE**

**Date of Birth:** 25 December, 1993

**Contact:** Department of Physiology & Biophysics University of Mississippi Medical Center 2500 North State Street, Jackson, MS 39216. Phone number: (601) 862-5893. Email address: lpan@umc.edu

**Education**

Sep 2019 - Jun 2022 Ph. D. in Biochemistry and molecular biology, Fudan University

Sep 2016 - Jun 2019 M. M. in Pathology and pathophysiology, Nanjing medical University

Sep 2012 - Jun 2016 B. S. in Medical laboratory science, Shaoxing University

**Positions and employment:**

Oct 1 2022 – current Postdoc Research Fellow in Department of Physiology & Biophysics

University of Mississippi Medical Center, Jackson, Mississippi

**Areas of Interest**

Heart failure, Myocardial hypertrophy, Aortic dissection, Transcriptional Regulation, Fatty Acid Oxidation, Cell Metabolism, inflammation

**Research Skills**

Proficiency in experimental design and troubleshooting

Experience in statistical analysis of experimental data sets and presentation of scientific data

**Professional and Research Experience**

2019-2022: Team Leader in project of ‘Legumain in thoracic aortic dissection (TAD)’, Cardiovascular Institute, Zhongshan Hospital, Fudan University.

2016-2019: Team Leader in project of ‘S-nitrosylation of Plastin3 in aortic dissection’, Nanjing Medical University (NMU); Participated in a project entitled ‘Protein S-nitrosylation in cardiac dysfunction’.

2018-2019: Assisting with lab Management including purchasing laboratory equipment and reagents; Provide guidelines to undergraduate in experiment in the cardiovascular research laboratory, Nanjing Medical University.

**Honors and Awards**

Outstanding graduates of Fudan University, 2022

Best Abstract Award, Asia-Pacific Cardio Metabolic Syndrome (APCMS), 2022

Scholarship of Graduate School, Fudan University, 2019, 2020, 2021

Scholarship for outstanding medical student, Nanjing medical University, 2017, 2018, 2019

The First Prize Scholarship, 2014, 2015

**Publications**

**Pan L**, Bai P, Weng X, Liu J, Chen Y, Chen S, Ma X, Hu K, Sun A and Ge J. Legumain Is an Endogenous Modulator of Integrin alphavbeta3 Triggering Vascular Degeneration, Dissection, and Rupture. *Circulation*. 2022;145:659-674.

**Pan L**, Lin Z, Tang X, Tian J, Zheng Q, Jing J, Xie L, Chen H, Lu Q, Wang H, Li Q, Han Y and Ji Y. S-Nitrosylation of Plastin-3 Exacerbates Thoracic Aortic Dissection Formation via Endothelial Barrier Dysfunction. *Arterioscler Thromb Vasc Biol*. 2020;40:175-188.

Liu J, **Pan L**, Hong W, Chen S, et al. GPR174 Knockdown Enhances Blood Flow Recovery in Hindlimb Ischemia Mice Model by Upregulating AREG expression. Nature communication (Accepted).

Tang X, **Pan L**, Zhao S, Dai F, Chao M, Jiang H, Li X, Lin Z, Huang Z, Meng G, Wang C, Chen C, Liu J, Wang X, Ferro A, Wang H, Chen H, Gao Y, Lu Q, Xie L, Han Y and Ji Y. SNO-MLP (S-Nitrosylation of Muscle LIM Protein) Facilitates Myocardial Hypertrophy Through TLR3 (Toll-Like Receptor 3)-Mediated RIP3 (Receptor-Interacting Protein Kinase 3) and NLRP3 (NOD-Like Receptor Pyrin Domain Containing 3) Inflammasome Activation. *Circulation*. 2020;141:984-1000.

Bai PY, Chen SQ, Jia DL, **Pan LH**, Liu CB, Liu J, Luo W, Yang Y, Sun MY, Wan NF, Rong WW, Sun AJ and Ge JB. Environmental eustress improves postinfarction cardiac repair via enhancing cardiac macrophage survival. *Sci Adv*. 2022;8:eabm3436.

Ma X, Dong Z, Liu J, Ma L, Sun X, Gao R, **Pan L**, Zhang J, A D, An J, Hu K, Sun A and Ge J. beta-Hydroxybutyrate Exacerbates Hypoxic Injury by Inhibiting HIF-1alpha-Dependent Glycolysis in Cardiomyocytes-Adding Fuel to the Fire? Cardiovasc Drugs Ther. 2022;36:383-397.

Shalamu A, Dong Z, Liu B, **Pan L**, Cai Y, Liu L, Ma X, Hu K, Sun A and Ge J. Effects of the ketogenic diet in mice with hind limb ischemia. Nutr Metab (Lond). 2022;19:59.

Zheng Q, **Pan L** and Ji Y. H 2S protects against diabetes-accelerated atherosclerosis by preventing the activation of NLRP3 inflammasome. *J Biomed Res*. 2019;34:94-102.

Lin Z, Altaf N, Li C, Chen M, **Pan L**, Wang D, Xie L, Zheng Y, Fu H, Han Y and Ji Y. Hydrogen sulfide attenuates oxidative stress-induced NLRP3 inflammasome activation via S-sulfhydrating c-Jun at Cys269 in macrophages. *Biochim Biophys Acta Mol Basis Dis*. 2018;1864:2890-2900.