



## Pei Wang

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### Bio

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#### INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

### Publications

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#### PUBLICATIONS

- **SUB-Immunogold-SEM reveals nanoscale distribution of submembranous epitopes.** *Research square*  
Miller, K. K., Wang, P., Grillet, N.  
2024
- **LOXHD1 is indispensable for coupling auditory mechanosensitive channels to the site of force transmission.** *Research square*  
Wang, P., Miller, K. K., He, E., Dhawan, S. S., Cunningham, C. L., Grillet, N.  
2024
- **Intracellular TMEM16A is necessary for myogenesis of skeletal muscle** *ISCIENCE*  
Yuan, W., Cui, C., Li, J., Xu, Y., Fan, C., Chen, Y., Fan, H., Hu, B., Shi, M., Sun, Z., Wang, P., Ma, T., Zhang, et al  
2022; 25 (11): 105446
- **High-resolution immunofluorescence imaging of mouse cochlear hair bundles.** *STAR protocols*  
Miller, K. K., Wang, P., Grillet, N.  
2022; 3 (2): 101431
- **Oncofusion-driven de novo enhancer assembly promotes malignancy in Ewing sarcoma via aberrant expression of the stereociliary protein LOXHD1.** *Cell reports*  
Deng, Q., Natesan, R., Cidre-Aranaz, F., Arif, S., Liu, Y., Rasool, R. U., Wang, P., Mitchell-Velasquez, E., Das, C. K., Vinca, E., Cramer, Z., Grohar, P. J., Chou, et al  
2022; 39 (11): 110971
- **Oncofusion driven de novo enhancer assembly promotes malignancy in Ewing sarcoma via aberrant expression of the stereociliary protein LOXHD1.**  
Deng, Q., Natesan, R., Cidre-Aranaz, F., Arif, S., Liu, Y., Rasool, R., Wang, P., Cramer, Z., Chou, M., Kumar, C., Weber, K., Eisinger, K., Grillet, et al  
AMER ASSOC CANCER RESEARCH.2021
- **Loxhd1 mutations cause mechanotransduction defects in cochlear hair cells.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*  
Trouillet, A., Miller, K. K., George, S. S., Wang, P., Ali, N., Ricci, A., Grillet, N.  
2021
- **Discovery and characterization of LOXHD1 as a highly specific EWS-FLI1 driven oncogene in Ewing sarcoma.**  
Deng, Q., Natesan, R., Arif, S., Rasool, R., Liu, Y., Wang, P., Cramer, Z., Mercadante, M., Gades, T., Cho, M., Eisengher, K., Grillet, N., Asangani, et al  
AMER ASSOC CANCER RESEARCH.2020: 54–55
- **ZIPK mediates endothelial cell contraction through myosin light chain phosphorylation and is required for ischemic-reperfusion injury.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*

Zhang, Y., Zhang, C., Zhang, H., Zeng, W., Li, S., Chen, C., Song, X., Sun, J., Sun, Z., Cui, C., Cao, X., Zheng, L., Wang, et al  
2019; fj201802052RRR

- **Golgi-resident TRIO regulates membrane trafficking during neurite outgrowth.** *The Journal of biological chemistry*  
Tao, T., Sun, J., Peng, Y., Li, Y., Wang, P., Chen, X., Zhao, W., Zheng, Y. Y., Wei, L., Wang, W., Zhou, Y., Liu, J., Shi, et al  
2019
- **CPI-17-mediated contraction of vascular smooth muscle is essential for the development of hypertension in obese mice.** *Journal of genetics and genomics = Yi chuan xue bao*  
Sun, J., Tao, T., Zhao, W., Wei, L., She, F., Wang, P., Li, Y., Zheng, Y., Chen, X., Wang, W., Qiao, Y., Zhang, X. N., Zhu, et al  
2019; 46 (3): 109-118
- **Distinct functions of Trio GEF domains in axon outgrowth of cerebellar granule neurons.** *Journal of genetics and genomics = Yi chuan xue bao*  
Tao, T., Sun, J., Peng, Y., Wang, P., Chen, X., Zhao, W., Li, Y., Wei, L., Wang, W., Zheng, Y., Wang, Y., Zhang, X., Zhu, et al  
2019; 46 (2): 87-96
- **Inflammatory mediators mediate airway smooth muscle contraction through a G protein-coupled receptor-transmembrane protein 16A-voltage-dependent Ca<sup>2+</sup> channel axis and contribute to bronchial hyperresponsiveness in asthma** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Wang, P., Zhao, W., Sun, J., Tao, T., Chen, X., Zheng, Y., Zhang, C., Chen, Z., Gao, Y., She, F., Li, Y., Wei, L., Lu, et al  
2018; 141 (4): 1259+
- **The molecular basis of the genesis of basal tone in internal anal sphincter** *NATURE COMMUNICATIONS*  
Zhang, C., Wang, P., Liu, D., Chen, C., Zhao, W., Chen, X., Chen, C., He, W., Qiao, Y., Tao, T., Sun, J., Peng, Y., Lu, et al  
2016; 7: 11358
- **Regulation of DLK1 by the maternally expressed miR-379/miR-544 cluster may underlie callipyge polar overdominance inheritance** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Gao, Y., Chen, X., Wang, P., Lu, L., Zhao, W., Chen, C., Chen, C., Tao, T., Sun, J., Zheng, Y., Du, J., Li, C., Gan, et al  
2015; 112 (44): 13627-32
- **In vivo roles for myosin phosphatase targeting subunit-1 phosphorylation sites T694 and T852 in bladder smooth muscle contraction** *JOURNAL OF PHYSIOLOGY-LONDON*  
Chen, C., Chen, X., Qiao, Y., Wang, P., He, W., Zhang, C., Zhao, W., Gao, Y., Chen, C., Tao, T., Sun, J., Wang, Y., Gao, et al  
2015; 593 (3): 681-700
- **Myosin Light Chain Kinase (MLCK) Regulates Cell Migration in a Myosin Regulatory Light Chain Phosphorylation-independent Mechanism** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Chen, C., Tao, T., Wen, C., He, W., Qiao, Y., Gao, Y., Chen, X., Wang, P., Chen, C., Zhao, W., Chen, H., Ye, A., Peng, et al  
2014; 289 (41): 28478-88
- **Myosin Phosphatase Target Subunit 1 (MYPT1) Regulates the Contraction and Relaxation of Vascular Smooth Muscle and Maintains Blood Pressure** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Qiao, Y., He, W., Chen, C., Zhang, C., Zhao, W., Wang, P., Zhang, L., Wu, Y., Yang, X., Peng, Y., Gao, J., Kamm, K. E., Stull, et al  
2014; 289 (32): 22512-23
- **Altered contractile phenotypes of intestinal smooth muscle in mice deficient in myosin phosphatase target subunit 1** *GASTROENTEROLOGY*  
He, W., Qiao, Y., Peng, Y., Zha, J., Zhang, C., Chen, C., Chen, C., Wang, P., Yang, X., Li, C., Kamm, K. E., Stull, J. T., Zhu, et al  
2013; 144 (7): 1456-U233
- **Role of myosin light chain kinase in regulation of basal blood pressure and maintenance of salt-induced hypertension** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*  
He, W., Qiao, Y., Zhang, C., Peng, Y., Chen, C., Wang, P., Gao, Y., Chen, C., Chen, X., Tao, T., Su, X., Li, C., Kamm, et al  
2011; 301 (2): H584-H591