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### Education

- 2003 Doctor of Engineering, Biology, University of Tokushima, Tokushima, Japan  
1998 Master of Engineering, Chemistry, Zhengzhou University, Zhengzhou, China  
1993 Bachelor of Engineering, Chemistry, Zhengzhou University, Zhengzhou, China

### Professional Experience

- 2021- Present Associate Professor, Faculty of Health Sciences, University of Macau  
2015 - 2021 Assistant Professor, Faculty of Health Sciences, University of Macau  
2011 - 2014 Instructor, Department of Pediatrics, Massachusetts General Hospital/  
Harvard Medical School, Boston, MA, USA  
2006 - 2011 Research Fellow, Department of Pediatrics, Massachusetts General  
Hospital/ Harvard Medical School, Boston, MA, USA  
2003 - 2006 Postdoctoral Fellow, Department of Molecular Genetics, Albert Einstein  
College of Medicine, Bronx, NY, USA  
2003 Lecturer, Department of Biological Science and Technology, University of Tokushima,  
Tokushima, Japan

### Professional Memberships, Activities and Awards

- Professional Memberships: Genetics Society of America  
American Society for Cell Biology  
Professional Activities: Ad hoc reviewer for *Autophagy*, *Development*, *Journal of Lipid Research*, *International Journal of Biological Sciences*, *Journal of Genetics and Genomics*  
Award: FHS Best Paper Award 2022, 3<sup>rd</sup> Prize

## Publications (# Corresponding authors)

- Cui, M.<sup>#</sup>, Pan, X.<sup>#</sup>, Fan, Z.<sup>#</sup>, Wu S., Ji, R., Wang, X., Kong, X., Wu, Z., Song, L., Song, W., Yang, J., **Zhang, H.**, Zhang, H., Ding, H.,\* Cao, J.\* Dysfunctional S1P/S1PR1 signaling in the dentate gyrus drives vulnerability of chronic pain-related memory impairment, *eLife*, 2024, 13: RP99862
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- Zhang, N., **Zhang, H.**, Khan, L. A., Jafari, G., Eun, Y., Membreno, E., Gobel, V.<sup>#</sup>, 2023. The biosynthetic-secretory pathway, supplemented by recycling routes, determines epithelial membrane polarity. *Sci Adv* 9, ade4620.
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- Cheng, X., Zhang, P., Zhao, H., Zheng, H., Zheng, K., Zhang, H., **Zhang, H.**<sup>#</sup>, 2022. Proteotoxic stress disrupts epithelial integrity by inducing mTOR sequestration and autophagy overactivation. *Autophagy*, doi: 10.1080/15548627.2022.2071381.
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- Gao, J., Zhao, L., Luo, Q., Liu, S., Lin, Z., Wang, P., Fu, X., Chen, J., **Zhang, H.**, Lin, L., Shi, A.<sup>#</sup>, 2020. An EHBP-1-SID-3-DYN-1 axis promotes membranous tubule fission during endocytic recycling. *PLoS Genet* 16, 1-28.
- Zhang, W., Xie, R., Zhang, X.D., Lee, T. O., **Zhang, H.**, Yang, M., Peng, B., Zheng, J.<sup>#</sup>, 2020. Organism Dual RNA-seq Reveals the Importance of BarA/UvrY in *Vibrio Parahaemolyticus* Virulence. *FASEB J* 34, 7561-7577.
- Cui, M., Ying, R., Jiang, X., Li, G., Zhang, X., Zheng, J., Tam, K. Y., Liang, B., Shi, A., Gobel, V., **Zhang, H.**<sup>#</sup>, 2019. A model of hereditary sensory and autonomic neuropathy type 1 reveals a role of glycosphingolipids in neuronal polarity. *J Neurosci* 39, 5816-5834. (Cover story)
- Cheng, X., Jiang, X., Tam, K. Y., Li, G., Zheng, J., **Zhang, H.**<sup>#</sup>, 2019. Sphingolipidomic analysis of *C. elegans* reveals development- and environment-dependent metabolic features. *Int J Biol Sci* 15, 2897-2910.
- Khan, L., Jafari, G., Zhang, N., Membreno, E., Yan, S., **Zhang, H.**, Gobel, V.<sup>#</sup>, 2019. A tensile trilayered cytoskeletal endotube drives capillary-like lumenogenesis. *J Cell Biol* 218, 2403-2424.
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- Wang, C., Cheng, X., Tan, J., Ding, Z., Wang, W., Yuan, D., Li, G., **Zhang, H.**#, Zhang, X. #, 2018. Reductive cleavage of C=C bond as a new strategy to turn on dual fluorescence for effective sensing H<sub>2</sub>S. **Chem Sci** 9, 8369-8374. (# co-corresponding author).
- Zou, J., Zhang, W., **Zhang, H.**, Zhang, X.D., Peng, B., Zheng, J.#, 2018. Studies on Aminoglycoside Susceptibility Identify a Novel Function of KsgA to Secure Protein Translational Fidelity during Antibiotic Stress. **Antimicrob Agents Ch** 62, e00853-18.
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- Zhang, N., Membrano, E., Raj, S., **Zhang, H.**, Khan, L., Gobel, V.#, 2017. The *C. elegans* excretory canal as a model for intracellular lumen morphogenesis and in vivo polarized membrane biogenesis in a single cell: labeling by GFP-fusions, RNAi Interaction Screen and Imaging. **J Vis Exp** 128, e56101, doi:10.3791/56101.
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