Stanford

Liming Zhao

Postdoctoral Scholar, Plastic and Reconstructive Surgery

Bio

BIO

Dr. Zhao is currently a postdoctoral scholar at Stanford University. He received his MD degree from Tongji Medical College, Huazhong University of Science and Technology in 2018.

HONORS AND AWARDS

- AHA Postdoctoral Fellowship, American Heart Association (2023)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Heart Association (2021 - present)
- Member, International Society for Stem Cell Research (2019 - present)
- Member, Orthopaedic Research Society (2018 - present)

STANFORD ADVISORS

- Charles Chan, Postdoctoral Faculty Sponsor
- Charles Chan, Postdoctoral Research Mentor

Publications

PUBLICATIONS

- **Single cell transcriptome profiling of infrapatellar fat pad highlights the role of interstitial inflammatory fibroblasts in osteoarthritis.** *International immunopharmacology*
  Pu, H., Gao, C., Zou, Y., Zhao, L., Li, G., Liu, C., Zhao, L., Zheng, M., Sheng, G., Sun, X., Hao, X., Wang, C., He, et al
  2024; 131: 111888
- **Thumb Osteoarthritis: Stem Cell Activation, Niche Augmentation and Tissue Regeneration**
  Murphy, M., Takematsu, E., Koepke, L., Tong, X., Butler, G., Ambrosi, T., Hoover, M., Wang, Y., Zhao, L., Wong, J., Reid, A., Longaker, M., Chan, et al
  MARY ANN LIEBERT, INC.2023
- **Purification and functional characterization of novel human skeletal stem cell lineages.** *Nature protocols*
  Hoover, M. Y., Ambrosi, T. H., Steininger, H. M., Koepke, L. S., Wang, Y., Zhao, L., Murphy, M. P., Alam, A. A., Arouge, E. J., Butler, M. G., Takematsu, E., Stavitsky, S. P., Hu, et al
  2023
- **Combination of Distinct Vascular Stem/Progenitor Cells for Neovascularization and Ischemic Rescue.** *Arteriosclerosis, thrombosis, and vascular biology*
  Zhao, L., Lee, A. S., Sasagawa, K., Sokol, J., Wang, Y., Ransom, R. C., Zhao, X., Ma, C., Steininger, H. M., Koepke, L. S., Borrelli, M. R., Brewer, R. E., Lee, et al
  2023

- **Aging Relevant Metabolite Itaconate Inhibits Inflammatory Bone Loss** *FRONTIERS IN ENDOCRINOLOGY*
  Wang, Y., Li, S., Zhao, L., Cheng, P., Liu, J., Guo, F., Xiao, J., Zhu, W., Chen, A.
  2022; 13: 885879

- **Articular cartilage regeneration by activated skeletal stem cells.** *Nature medicine*
  Murphy, M. P., Koepke, L. S., Lopez, M. T., Tong, X., Ambrosi, T. H., Gulati, G. S., Marecic, O., Wang, Y., Ransom, R. C., Hoover, M. Y., Steininger, H., Zhao, L., Walkiewicz, et al
  2020

- **Geriatric fragility fractures are associated with a human skeletal stem cell defect.** *Aging cell*
  Ambrosi, T. H., Goodnough, L. H., Steininger, H. M., Hoover, M. Y., Kim, E., Koepke, L. S., Marecic, O., Zhao, L., Seita, J., Bishop, J. A., Gardner, M. J., Chan, C. K.
  2020: e13164

- **NR1D1 modulates synovial inflammation and bone destruction in rheumatoid arthritis** *CELL DEATH & DISEASE*
  Liu, H., Zhu, Y., Gao, Y., Qi, D., Zhao, L., Zhao, L., Liu, C., Tao, T., Zhou, C., Sun, X., Guo, F., Xiao, J.
  2020; 11 (2): 129

- **Tantalum nanoparticles reinforced polyetheretherketone shows enhanced bone formation** *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*
  Zhu, H., Ji, X., Guan, H., Zhao, L., Zhao, L., Liu, C., Cai, C., Li, W., Tao, T., Reseland, J., Haugen, H., Xiao, J.
  2019; 101: 232–42

- **Hesperetin suppresses RANKL-induced osteoclastogenesis and ameliorates lipopolysaccharide-induced bone loss** *JOURNAL OF CELLULAR PHYSIOLOGY*
  Liu, H., Dong, Y., Gao, Y., Zhao, L., Cai, C., Qi, D., Zhu, M., Zhao, L., Liu, C., Guo, F., Xiao, J., Huang, H.
  2019; 234 (7): 11009–22

- **Effects of Taxifolin on Osteoclastogenesis in vitro and in vivo** *FRONTIERS IN PHARMACOLOGY*
  Cai, C., Liu, C., Zhao, L., Liu, H., Li, W., Guan, H., Zhao, L., Xiao, J.
  2018; 9: 1286

- **REV-ERB agonism suppresses osteoclastogenesis and prevents ovariectomy-induced bone loss partially via FABP4 upregulation** *FASEB JOURNAL*
  Song, C., Tan, P., Zhang, Z., Wu, W., Dong, Y., Zhao, L., Liu, H., Guan, H., Li, F.
  2018; 32 (6): 3215–28

- **YAP1 is essential for osteoclastogenesis through a TEADs-dependent mechanism** *BONE*
  Zhao, L., Guan, H., Song, C., Wang, Y., Liu, C., Cai, C., Zhu, H., Liu, H., Zhao, L., Xiao, J.
  2018; 110: 177–86

- **Recent advances in 3D bioprinting for the regeneration of functional cartilage** *REGENERATIVE MEDICINE*
  Ji Xiongfa, Zhu Hao, Zhao Liming, Xiao Jun
  2018; 13 (1): 73–87

- **Dihydromyricetin Protects against Bone Loss in Ovariectomized Mice by Suppressing Osteoclast Activity** *FRONTIERS IN PHARMACOLOGY*
  Zhao, L., Cai, C., Wang, J., Zhao, L., Li, W., Liu, C., Guan, H., Zhu, Y., Xiao, J.
  2017; 8: 928