

Ren Xu

Curriculum Vitae



Professor
School of Medicine, Xiamen University, China

Educational Background & Professional Experience

2008–2013	Ph.D. in Medicine Tokyo Medical and Dental University, Japan
2005–2008	M.Sc. in Life Science Xiamen University, China
2001–2005	B.Sc. in Biotechnology Anhui Normal University, China
2022–Present	Director of the First Affiliated Hospital of Xiamen University–ICMRS Collaborating Center
2021–Present	Director of Fujian Provincial Key Laboratory of Organ and Tissue Regeneration
2020–Present	Chief Scientific Officer, Department of Orthopedic, The First Affiliated Hospital of Xiamen University
2019–Present	Professor, School of Medicine, Xiamen University

Research Interests

The ancillary tissues present in bone, yet absent from in vitro systems play a pivotal role in shaping the tissue microenvironment to facilitate bone formation. My professional aspiration is to substantiate this cross-talk while simultaneously investigating the therapeutic potential arising from these functional interactions between osteogenic cells and their supportive cell types.

Selected Publications

1. Wu Z, Li N, Luo Z, Chen Z, He X, Shi F, Han J, Huang H, Shi B, Zhang L, Li Y, Shen J, Bok S, Sun J, Niu X, Mo K, Yin P, Leng L, Wang X, Zhang J, Chen L, Zhou D, Cheng W, Huang J, Greenblatt MB, Xu R*. The p75 neurotrophin receptor controls the skeletal stem cell niche through sensory innervation. Dev Cell. 2025. (Cover article)
2. Wu Z, Li N, Luo Z, Chen Z, He X, Han J, Lin X, Shi F, Huang H, Shi B, Li Y, Wang X, Meng L, Zhang D, Chen L, Zhou D, Cheng W, Greenblatt MB, Xu R*. Axon guidance cue SLIT2 regulates the murine skeletal stem cell niche through sympathetic innervation. J Clin Invest. 2025.
3. Li Z, Shi B, Li N, Sun J; Zeng X, Huang R, Bok S, Chen X, Han J, Yallowitz AR, Debnath S, Cung M, Ling Z, Zhong CQ, Hong Y, Li G; Koenen M, Cohen P, Su X, Lu H, Greenblatt MB, Xu R*. Bone controls browning of white adipose tissue and protects from diet-induced obesity through Schnurri-3-regulated SLIT2 secretion. Nat Commun. 2024.
4. Li N, Shi B, Li Z, Han J, Sun J, Huang H, Yallowitz AR, Bok S, Xiao S, Wu Z, Chen Y, Qin T, Huang R, Zheng H, Shen R, Meng L, Greenblatt MB, Xu R*. Schnurri-3 inhibition rescues skeletal fragility and vascular skeletal stem cell niche pathology in the OIM model of osteogenesis imperfecta. Bone Res.2024. (Cover article)