



Wei Yao, M.D.

Research/Academic Interests	Dr. Yao's research focuses on drug discovery and translational studies on bone and joint disorders. She also studies factors affecting the sex differences in musculoskeletal system, including progesterone receptor and Wnt signaling. For the past two decades, she has been working with Dr. Nancy Lane to define factors affecting bone qualities that are independent from bone quantities, including the effects of glucocorticoids and bisphosphonates.
Title	Professor
Specialty	Metabolic Bone Disease, Musculoskeletal Disorders, Bone and Joint
Department	Internal Medicine
Division	Rheumatology, Allergy and Clinical Immunology
Address/Phone	UC Davis Medical Center, 2315 Stockton Blvd. Sacramento, CA 95817 Phone: 800-2-UCDAVIS (800-282-3284)
Languages	Chinese
Education	M.D., Xiangya Medical University, ChangSha, China 1992 M.S., Pulmonary, Xiangya Medical University, ChangSha, China 1997
Internships	Radiation, University of Utah, Salt Lake City UT 1997-2000
Professional Memberships	American Society for Bone and Mineral Research International Chinese Musculoskeletal Research Society
Honors and Awards	Betterment of Mankind Award, The Pauchon Research Foundation, 2016 Dean's Team Award, Excellency in Research, UC Davis School of Medicine, 2013 UC Davis Academic Federal Excellency in Research Award, 2012 Mentor Award, Internal Medicine, UC Davis Medical Center, 2011 American Society of Bone and Mineral Research Young Investigator Award, 2003
Select Recent Publications	Jiang M, Liu L, Liu R, Lam KS, Lane NE, Yao W. A new anabolic compound, LLP2A-Ale, reserves periodontal bone loss in mice through augmentation of bone formation. <i>BMC Pharmacol Toxicol.</i> 2020 Nov 13;21(1):76. doi:10.1186/s40360-020-00454-x. PMID:33187558.

Jiang M, Liu R, Liu L, Kot A, Liu X, Xiao W, Jia J, Li Y, Lam KS, Yao W. Identification of osteogenic progenitor cell-targeted peptides that augment bone formation. *Nat Commun.* 2020 Aug 27;11(1):



Wei Yao, M.D.

4278. doi:10.1038/s41467-020-17417-9. PMID:32855388.

Liu LX, Jia JJ, Jiang M, Liu XP, Dai CL, Wise BL, Lane NE, Yao W. High susceptibility to collagen-induced arthritis in mice with progesterone receptors selectively inhibited in osteoprogenitor cells. *Arthritis Res Ther*. 2020 Mar;22:165. doi:10.1186/s13075-020-02242-8.

Dai C, Jia J, Kot A, Liu X, Liu L, Jiang M, Lane NE, Wise BL, Yao W. Selective inhibition of progesterone receptor in osteochondral progenitor cells, but not in mature chondrocytes, modulated subchondral bone structures. *Bone*. 2020 Mar;132:115196. doi:10.1016/j.bone.2019.115196. Epub 2019 Dec 19. PMID:31863959.

Yao W, Lay YE, Kot A, Liu R, Zhang H, Chen H, Lam K, Lane NE. Improved Mobilization of Exogenous Mesenchymal Stem Cells to Bone for Fracture Healing and Sex Difference. *Stem Cells*. 2016 Oct;34(10):2587-2600. doi:10.1002/stem.2433. Epub 2016 Jul 15. PMID:27334693.

Yao W, Dai W, Jiang L, Lay EY, Zhong Z, Ritchie RO, Li X, Ke H, Lane NE. Sclerostin-antibody treatment of glucocorticoid-induced osteoporosis maintained bone mass and strength. *Osteoporos Int*. 2016 Jan;27(1):283-294. doi:10.1007/s00198-015-3308-6. Epub 2015 Sep 18. PMID:26384674.

Zhong ZA, Sun W, Chen H, Zhang H, Lay YE, Lane NE, Yao W. Optimizing tamoxifen-inducible Cre/loxP system to reduce tamoxifen effect on bone turnover in long bones of young mice. *Bone*. 2015 Dec;81:614-619. doi:10.1016/j.bone.2015.07.034. Epub 2015 Jul 29. PMID:26232373.

Dai W, Jiang L, Lay YA, Chen H, Jin G, Zhang H, Kot A, Ritchie RO, Lane NE, Yao W. Prevention of glucocorticoid induced bone changes with beta-ecdysone. *Bone*. 2015 May;74:48-57. doi:10.1016/j.bone.2015.01.001. Epub 2015 Jan 10. PMID:25585248.



Wei Yao, M.D.

Yao W, Lane NE. Targeted delivery of mesenchymal stem cells to the bone. *Bone*. 2015 Jan;70:62-5. doi:10.1016/j.bone.2014.07.026. Epub 2014 Aug 28. PMID:25173607.

Yao W, Dai W, Jiang JX, Lane NE. Glucocorticoids and osteocyte autophagy. *Bone*. 2013 Jun;54(2):279-84. doi:10.1016/j.bone.2013.01.034. Epub 2013 Jan 26. PMID:23356984.

© 2024 UC Regents