Nancy E. Lane, M.D.

Clinical Interests

Nancy E. Lane, MD is an Endowed Professor of Medicine, Rheumatology, and Aging Research, Director for the Center for Musculoskeletal Health, Director of the K12 NIH Building Interdisciplinary Research Careers in Women's Health (BIRCWH), and Principal Investigator of the NIH funded Program on Sex Differences in Musculoskeletal Diseases Across the Lifespan at the University of California at Davis School of Medicine where she has served for the past 8 years.
Dr. Lane is an internationally recognized scientist in the fields of both osteoporosis and osteoarthritis. Her translational research team has been instrumental in defining the role of glucocorticoids in bone fragility including their effects on cell stress and vulnerable cell populations including osteocytes. As a faculty member at the University of California at San Francisco, she pioneered a seminal clinical trial to demonstrate that daily injections of the hormone PTH could reverse glucocorticoid induced osteoporosis. After transitioning to U.C. Davis, she a developed a novel compound to direct stem cells to the bone to grow new bone and treat osteoporosis. In addition she has uncovered novel genetic variations that predispose individuals to osteoarthritis and has studied novel treatments for osteoarthritis. She organized and directs an NIH funded junior faculty grant writing workshop that has taught over 300 junior faculty in musculoskeletal medicine grant writing skills that has resulted in a 45% success rate in applicants receiving research grants (2006-present).
Dr. Lane has been recognized by the University, her medical residents, subspecialty fellows, and by her faculty peers as an outstanding mentor with the UC Davis Dean's Award for Scientific Mentoring (2008). Her research accomplishments have been recognized by the UC Davis School of Medicine Dean's Team Science Award (2012), the American College of Rheumatology for the Oscar Gluck Memorial Lecture for outstanding work in Osteoporosis (2011), the Remodeling in Bone "RIB Award" by the International Society of Bone and Mineral Research (2012), her election as a Master of the American College of Physicians (2012) and David Trentham Lectureship and Women in Medicine Lectureship at Harvard Medical School (2013). She is also recipient of the Bone and Joint Decade Outstanding Achievement Award for developing a mentoring program in grant writing (2009).

Dr. Lane was President of the Board of the United States Bone and Joint Decade (2006-2008), co-led the International Bone and Joint Decade Conference in Washington DC (2010),was elected and serves on the council of the American Society of Bone and Mineral Research (2010-2013), and the Orthopedic Research Society.

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Dr. Lane is on the editorial boards of Nature Reviews Rheumatology, Rheumatology (Associate Editor),Seminars in Arthritis and Rheumatism (Associate Editor), Co-editor Arthritis and Rheumatism (2005-2010), and Journal of Rheumatology. She was elected to the Association of American Physicians (2006) and the National Academy of Sciences Institute of Medicine (2013), has been named Best Doctors in America annually since 2004, and continues to have an active rheumatology practice.

Title Director, UC Davis Center for Healthy Aging
Professor

Specialty Internal Medicine, Rheumatology, Allergy and Clinical Immunology

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Education M.D., UC San Francisco School of Medicine, San Francisco, California, 1980
B.S., UC Davis, Davis, California, 1976

Residency Mount Zion Hospital and Medical Center, San Francisco, California, 1980-83

Fellowships Palo Alto Veterans Adminstration Hospital and Stanford University Medical Center, Stanford, California, 1983-85

Board Certifications American Board of Internal Medicine, 1983
American Board of Internal Medicine, Rheumatology, 1986

Select Recent Publications Beattie MS, Lane NE, Nevitt MC, Hung YY. Association of statin use and development and progression of hip osteoarthritis in elderly women. Journal of Rheumatology 32(1): 106-110, 2005.

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Kinney JH, Stolken JS, Smith TS, Ryaby JT, Lane NE. An orientation distribution function for trabecular bone. Bone. 2005 Feb;36(2):193-201.

Offley SC, Guo TZ,, Tzuping, W, Clark JD, Vogel H, Lindsey DP, Jacobs CR, Lane NE, Kingery WS. Capsaicin sensitive sensory neurons contribute to the maintenance of cancellous bone mass, structure, and strength. J Bone Miner Res 20(2):257-267, 2005.

Lane NE, Yao W, Ross P, Sheppard D. b5 Integrin deficiency Increases Osteoclast Generation and Activity and Induces Greater Bone Loss Following Ovariectomy. J Bone Miner Res 20(1):58-66, 2005.

Lian K, Lang T, Keyak J, Lane NE. The comparison of hip QCT measurements of trabecular and cortical bone and bone strength assessments by finite element modeling in glucocorticoid-induced osteoporotic postmenopausal women and postmenopausal women as controls. Osteoporosis International Sep 28, 2004.

Menkes CJ, Lane NE. Are osteophytes good or bad? Osteoarthritis and Cartilage 12, S53-54, 2004.

Humphrey MB, Ogasawara K, Yao W, Spusta SC, Daws MR, Lane NE, Lanier LL, Nakamura mc. The signaling adapter protein DAP-12 regulates multinucleation during osteoclast development. J Bone Miner Res 19 (2): 224-234, 2004.

Buxton E, Yao W, Lane NE Changes in serum RANKL, OPG and IL-6 levels in glucocorticoid-induced osteoporosis, JCEM, 2004 Jul;89(7):3332-6.

Goemaere S, Liberman U, Adachi J, Hawkins F, Lane N, Saag K, Schnitzer T, Kaufman J, Malice MP, Carofano W, Daifotis A. Non-vertebral fracture, time on treatment and bone mineral density in glucocorticoid-treated patients: a retrospective study Journal of Clinical Rheumatology 9(3):170-175, 2003.

Lane NE, Williams EN, Hung YY, Hochberg MC, Cummings SR, Nevitt MC. Association of nitrate use with risk of new radiographic features of hip OA in elderly while women. Arthritis and Rheumatism 49(6): 752-758, 2003.

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