Curriculum Vitae

David W. Rowe

Professor, Center for Regenerative Medicine and Skeletal Development
University of Connecticut Health, School of Dental Medicine

Educational Background & Professional Experience

2021-Present	University of Connecticut Health, Professor, Department of Reconstructive Medicine
2006-2021	University of Connecticut Health, Director, Center for Regenerative Medicine and Skeletal Biology
1977-2006	University of Connecticut Health, Head, Division of Pediatric Endocrinology/Diabetes
1974-1977	University of Washington, Senior Research Fellow (Endocrinology)
1971-1974	National Institute of Dental Research, Clinical Associate
1969-1971	Duke University Medical School, Medical Intern and Resident
1964-1969	University of Vermont Medical School, MD Degree
1960-1964	University of Vermont, B.A. Chemistry

Research Interests

Heritable disorders of connective tissue
Stem cell progression and regenerative skeletal medicine
Technology development for the study of mineralizing tissues

Publications

1. Rowe, D. W., S. H. Hong, C. Zhang, D. G. Shin, D. J. Adams, D. W. Youngstrom, L. Chen, Z. Wu, Y. Zhou, and P. Maye. (2021). 'Skeletal Screening IMPC/KOMP using μCT and Computer Automated Cryohistology: Application to the Efna4 KO mouse line', Bone: 10.1016/j.bone.2020.115688., PMID: 33065355.
2. Xin, X., Jiang, X., Wang, L., Mikael, P., McCarthy, M.B., Chen, L., Mazzocca, A.D., Nukavarapu, S., Lichtler, A.C., and Rowe, D.W. (2019). Histological Criteria that Distinguish Human and Mouse Bone Formed Within a Mouse Skeletal Repair Defect. J Histochem Cytochem, 67: 401-17. PMCID PMC6542146.
3. Dyment, N. A., Jiang, X., Chen, L., Hong, S. H., Adams, D. J., Ackert-Bicknell, C., Shin, D.G and Rowe, D. W. (2016). High-Throughput, Multi-Image Cryohistology of Mineralized Tissues. J Vis Exp (115). doi:10.3791/54468. PMCID: PMC5092021.
4. Kalajzic, I., Kalajzic, Z, Clark, S, Lichtler, A. and Rowe, D. Use of Col1a1GFP transgenes to identify subpopulations of cells at different stages of the osteoblast lineage. J.Bone Min. Res. 17: 15-25, 2002. PMID: 11771662.
5. Krebsbach, P.H., Harrison, J.R., Lichtler, A.C., Woody, C.O., Rowe, D.W. and Kream, B.E. Transgenic expression of COL1A1-CAT fusion genes in bone: differential utilization of promoter elements in vivo and in cultured cells. Mol.Cell.Biol. 13:5168-5174, 1993. PMCID: PMC360205.