

Vicki Rosen

Curriculum Vitae



Doctors Samuel and Ida Gelfand Professor and Chair
 Department of Developmental Biology, Harvard School of Dental Medicine (HSDM), USA

Educational Background & Professional Experience

2024–Present	Doctors Samuel and Ida Gelfand Professor, Department of Developmental Biology, HSDM
2020	Interim Dean, HSDM
2025–Present	Chair, Department of Developmental Biology, HSDM
2001–Present	Professor of Developmental Biology, HSDM
1998–2001	Director, Tissue Growth and Repair, Genetics Institute, Inc

Research Interests

My research interests center on the functions of BMP signaling in the musculoskeletal system. This interest began when I was part of the team that identified the first BMP genes and developed recombinant human BMP2 as an FDA approved product for bone regeneration. Currently my lab focuses on analyzing BMP signaling in the context of skeletal health, aging and disease.

Publications

- Lyons KM, and Rosen V. Strengthening the case of BMP inhibition as a point of intervention for osteoarthritis. Osteoarthritis and Cartilage, 2023.
- Moore ER, Maridas DE, Gamer L, Chen G, Burton K, and Rosen V. A periosteum–derived cell line to study the role of BMP/TGF beta signaling in periosteal cell behavior and function. Front Physiol, 2023.
- Lyons KM, and Rosen V. BMPs, TGF beta and border security at the interzone. Vertebrate Skeletal Development, vol 133, 2019.
- Lowery JW, Intini G, Gamer L, Lotinun S, Salazar VS, Ote S, Cox K, baron R, Rosen V. Loss of BMPR2 leads to high bone mass due to increased osteoblast activity. J Cell Sci, 2015.
- Salazar VS, Capelo L, Cantu C, Zimmerli D, Gosalia N, Pregizer S, Coc K, Ohte S, Feigenson M, Gamer L, Nyman J, Carey D, Economides A, Basler K, Rosen V. Reactivation of a developmental Bmp2 signaling center is required for therapeutic control of the murine periosteal niche. eLife, 2019.

