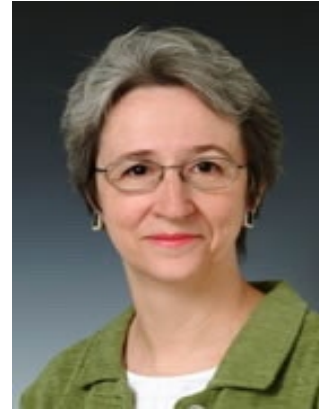


**Lynda F. Bonewald, Ph.D.**  
**Curators Professor**  
**Lee M and William L. Lefkowitz / Missouri Endowed**  
**Professorship**  
**Director, Bone Biology Research Program**  
**Director, UMKC Center of Excellence in the Study of Dental**  
**and Musculoskeletal Tissues**  
**University of Missouri at Kansas City**



Dr. Bonewald received her PhD in 1984 from the Medical University of South Carolina in Immunology and Microbiology and performed her postdoctoral fellowship with Dr. Makio Ogawa in the area of hemopoietic stem cell growth factors. She joined Dr. Gregory Mundy's group at the University of Texas Health Science Center in San Antonio in 1986 as an assistant professor and progressed to full professor before her move to UMKC in 2001. Dr. Bonewald is now Director of the Bone Biology Research Program at the UMKC School of Dentistry and Director of the UMKC Center for the Study of Mineralized Tissues.

Dr. Bonewald has worked in the area of transforming growth factor beta and in the lipoxigenases, specifically 5LO, but is probably best known for her research in osteocyte biology. Osteocytes are the most abundant cell in bone and may be responsible for sensing mechanical stress and signaling osteoblasts to form new bone. She has established osteocyte-like cell lines and investigates the function of osteocytes. She is Director of a program project entitled "Osteocyte Function and Effects of Mechanical Strain". The program involves investigators at UMKC, KUMC, and UTHSCSA. This program project investigates the mechanisms whereby osteocytes translate mechanical strain into signals including intracellular and extracellular signaling, the expression of genes necessary and specific for osteocyte formation and function, and the role of osteocytes in resorption and mineralization.

Dr. Bonewald previously chaired the Board of Scientific Counselors of the NIH's National Institute of Dental and Craniofacial Research. She is an Associate Editor for *Journal for Bone and Mineral Research* and serves on the editorial board for the *Journal for Biomolecular Techniques*, *Bone*, and *Experimental Biology and Medicine*. She is the recipient of the Distinguished Scientist award in the area of mineralized tissue from AADR/IADR and the Remodeling in Bone Award from the Sun Valley Workshop. She was program co-organizer for ASBMR 2009 and is ASBMR Secretart/Treasurer.