

Gabriel M. Pagnotti

Curriculum Vitae



Professor  
The University of Texas MD Anderson Cancer Center, USA

Educational Background & Professional Experience

- 2014 Ph.D. in Biomedical Engineering, SUNY Stony Brook University; Stony Brook, New York
- 2008 M.S. in Biomedical Engineering, University of South Florida; Tampa, Florida
- 2002 B.S. in Electrical Engineering, University of Central Florida; Orlando, Florida
- Sep 2016–Aug 2020 Postgraduate Fellow, Endocrine/Hematology, Endocrinology/Hematology, Indiana University; Indianapolis, Indiana
- Oct 2014–Aug 2016 Postdoctoral Associate, Biomedical Engineering, SUNY Stony Brook University; Stony Brook, New York
- Aug 2003–May 2005 Post-Baccalaureate Studies, Molecular & Microbiology, University of Central Florida; Orlando, FL

Research Interests

My research interests focus on the interactions of the musculoskeletal system in the context of metabolic dysfunction, primarily in the setting of cancer and/or its many therapies. I have investigated multiple forms of mechanical stimuli, recognized as anabolic to musculoskeletal tissues, for translational applications to biomechanics and regulation of endocrine factors in metabolic and bone disorders.

Publications

1. Effect of Age at Time of Irradiation, Sex, Genetic Diversity, and Granulopoietic Cytokine Radiomitigation on Lifespan and Lymphoma Development in Murine H-ARS Survivors. Radiat Res, 2024.
2. Diet-Stimulated Marrow Adiposity Fails to Worsen Early, Age-Related Bone Loss. Obes Facts., 2024.
3. The checkpoint inhibitor PD-1H/VISTA controls osteoclast-mediated multiple myeloma bone disease., 2023.
4. Zoledronic acid improves bone quality and muscle function in a high bone turnover state. bioRxiv, 2023.
5. Low-Magnitude Mechanical Signals Combined with Zoledronic Acid Reduce Musculoskeletal Weakness and Adiposity in Estrogen-Deprived Mice. bioRxiv. 2023.

