

Dr. Gunjan Agarwal received her doctoral degree in Physics from the Tata Institute of Fundamental Research, Mumbai, India, followed by post-doctoral training and experience at three different academic and industrial institutions in the US. She started her faculty career at the Ohio State University (OSU) in 2003, and is currently a Professor of Mechanical and Aerospace Engineering at OSU. She is an expert in the utilization of light, electron and atomic force microscopy (AFM) for biomedical research and directs a multi-user Bio-AFM core facility at OSU. Her primary research focus is to study extracellular matrix remodeling. Another major initiative of Dr. Agarwal's research program is to develop novel biomedical applications of the AFM. Her laboratory has developed many aspects of magnetic force microscopy (MFM) to study nanoparticle behavior and ferritin(iron) deposits in tissue sections in health and disease. She has co-authored over 45 journal articles and contributed four invited book chapters. Her research has been continuously funded by the National Institutes of Health, the National Science Foundation and the American Heart Association. She has mentored 9 PhD and 5 MS students in the Biomedical Engineering and Biophysics graduate programs and teaches courses in Extracellular matrix, Medical Imaging and Microscopy.