

Dr. Amit Joshi Receives Wisconsin Breast Cancer Showhouse Award

Dr. Amit Joshi (PI), Associate Professor of Biomedical Engineering has received a two-year, \$100,000 grant award from the Medical College of Wisconsin Cancer Center and the Wisconsin Breast Cancer Showhouse entitled, "Personalized Nanomedicine Interventions Targeted to Germline Driven Tumor Vascular Heterogeneity".

Patient response to current treatments for breast cancer is heterogeneous, with some patients responding well and others not at all or only temporarily. This project hypothesizes that part of this heterogeneous treatment response might be due to inherited genes controlling blood vessel development in tumors. The project proposes a novel light-triggered nanoparticle based imaging/therapy approach that is personalized to the blood vessel development genes, thus avoiding therapy resistance in patients with unfavorable genes.