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Dr. Paul Wang is the Director of the Molecular Imaging Laboratory and a Professor in the Department of Radiology at Howard University. He was trained as an applied radiation physicist at MIT. In the 1980's he started his research career in nuclear magnetic resonance imaging (MRI) at the University of Kentucky and Georgetown University. In 1989, he came to the Howard University as a medical physicist and an Associate Professor. During his tenure at the Howard University, he has established the Biomedical NMR Laboratory, which later became the Molecular Imaging Laboratory, to promote multidisciplinary research using NMR imaging and spectroscopy techniques for biomedical applications. He is responsible for coordinating NMR research projects, providing technical support, and supervising the operation of the lab as a university imaging core facility. His research interests include: in vitro and in vivo NMR; NMR imaging and spectroscopy studies of diseases including cancer, heart disease, and neurodegenerative diseases using small animal models; NMR studies of multidrug interaction and body composition; and NMR applications in agriculture. Since 2005, his research interests have also expanded to include optical imaging and molecular imaging of cells and small animals, and the application of nanotechnology in medicine. His research team has developed nanoparticles as drug delivery vehicles for targeted chemotherapy and diagnostic imaging. Targeted drug delivery via receptor mediated endocytosis of imaging contrast agents has the potential for improving sensitivity and specificity of cancer detection. In some cases, the drug encapsulated nanoparticles can also be used to overcome drug resistance in chemotherapy via reactivating the impaired endocytosis of the therapeutic agents. The Biomedical NMR laboratory / Molecular Imaging Laboratory under Dr. Wang's leadership has been a synergetic center for promoting multidisciplinary biomedical research for the Howard University and neighboring research institutions. Dr. Wang has successfully obtained external funding for two MRI machines (a 4.7 T and a 9.4 T machines) and an optical imaging instrument for in vivo small animal imaging studies. He is currently funded by the NIH and the DoD. Since 2007, Dr. Wang has been a Visiting Professor at the Chinese National Center for Nanoscience and Technology in Beijing. He has been involved in facilitating research collaborations between the US and China in nanomedicine and published a report on a recent high profile meeting in Beijing on this subject. His research was awarded the First Place in the Senior Faculty Category of the 2010 Howard University College Medicine Research Day. He was selected as the recipient of the Howard University College of Medicine Outstanding Faculty Researcher Award in 2008 and the Dr. Moses Wharton Young Research Award in 2010. He also received the Outstanding Alumnus Award of the Fu Jen Catholic University in Taipei, Taiwan 2010.