

LEONARDO M. ANGELONE



Leonardo M. Angelone is a Research Biomedical Engineer at the Office of Science and Engineering Laboratories, Center of Devices and Radiological Health, U.S. FDA. Dr. Angelone leads a Research program that focuses on assessment of energy deposition and heating induced in the human body by medical devices using electromagnetic energy. The investigation is based on a combination of anatomically precise computational models and experimental measurements applied to several areas of clinical significance, including RF safety of human subjects during interventional MRI and analysis of safety and effectiveness of MR Conditional deep brain stimulators. The projects, supported by both FDA and external (CRADA) funding, have been carried on in collaboration with groups at leading academic research institutes and industry organizations, delivering over 100 peer-reviewed journal articles and conference proceedings, as well as publicly available software. Dr. Angelone completed a Laurea in Electronic Engineering (University “La Sapienza”, Rome, Italy), a Ph.D. in Biomedical Engineering (Tufts University, Medford, MA), and a Research Fellowship at the Department of Radiology of the Massachusetts General Hospital, Harvard Medical School. Prior to joining the FDA, Dr. Angelone has been a consultant with the Research and Development Department in the Surgical Products Division of Hologic Inc.