

Stephen Solomon is a physician and scientist driven by innovation, strategic vision, and successful translation to improve clinical care. As Chief of Interventional Radiology over the last 13 years, he has transformed Memorial Sloan Kettering Cancer Center's (MSKCC's) Interventional Radiology (IR) Service from 6 faculty and 5,000 annual procedures to over 25 faculty performing 22,000 annual procedures. He has developed an internationally acclaimed Service by recruiting talented and diverse faculty to meet the Center's academic mission of delivering innovation to the clinical practice, research enterprise, and educational portfolio.

Dr. Solomon himself is regarded as a renowned innovator who holds many patents and has invented and developed several technologies that are being applied in clinical medicine today throughout the world. One of his most important contributions to Medicine has been the development of the first electromagnetic navigational bronchoscope that has helped spawn the field of Interventional Pulmonary Medicine. This innovation was developed in the laboratory, evaluated in animal models, was translated into clinical trials, and is now a standard tool throughout the world.

Dr. Solomon's clinical expertise is image-guided interventions and specifically destroying (i.e. ablating) cancers with heat or cold. He is one of the foremost experts in this field and has developed and translated many of these tools into daily clinical practice at MSKCC and around the world. This has enabled destroying cancer with a simple needle rather than having to undergo a major surgical resection. This technology is routinely applied in lung cancers, liver cancers, bone cancers, kidney cancers, and others. He has performed approximately one thousand percutaneous lung ablations.

Dr. Solomon has worked with Nobel Laureate Jim Allison to demonstrate how using thermal ablation in mice can create an immune response to the dead ablated tissue and how this immune response can be trained to fight cancer in other parts of the body, creating a "personalized cancer vaccine." Dr. Solomon has helped translate this work into ongoing clinical studies.

Dr. Solomon has over 250 peer-reviewed publications, chapters, and reviews. He is a graduate of Harvard College and Yale School of Medicine. He completed his radiology residency at Johns Hopkins and his fellowship at New York Presbyterian Hospital/Weill Cornell Medical Center. He was a faculty member at Johns Hopkins for 7 years before joining MSKCC as the Director of The Center for Image Guided Intervention and then Chief of Service. He currently holds the Enid A. Haupt Endowed Chair in Clinical Investigation and is a Professor of Radiology at Weill Cornell Medical College.

