

AUR Gold Medalist Tribute

Gary M. Glazer, MD

Introduction by Hedvig Hricak, MD, PhD, Dr(hc)

A gifted clinician-scientist and a visionary leader, Gary M. Glazer, MD, has profoundly influenced the everyday practice of radiology and opened bright new horizons for the field of biomedical imaging.

Dr Glazer grew up in Cleveland, Ohio, the son of a radiologist. He earned his bachelor's degree in cellular biology from the University of Michigan, graduating Phi Beta Kappa, and his medical degree from Case Western Reserve University. He then went west to complete an internship, followed by a residency and fellowship in diagnostic radiology, at the University of California, San Francisco (UCSF). After a year on the faculty of UCSF, he returned to Michigan in 1981 to become assistant professor and director of body CT at his alma mater.

Dr Glazer quickly established himself as one of the world's leading innovators in thoracic and abdominal imaging. He performed pioneering research that helped define the normal and pathologic anatomy of the pulmonary hilum and mediastinal lymph nodes with CT. The imaging criteria he developed are still used routinely, most notably in the staging of lung cancer. For this groundbreaking work, he was elected to the Society for Body Computed Tomography at age 34. Dr Glazer also performed important early research in magnetic resonance (MR) imaging and, among other accomplishments, developed the standard criteria for distinguishing liver and adrenal tumors with MR imaging. He was appointed professor of radiology at the University of Michigan in 1987, six years after joining the faculty.

In 1989, Dr Glazer became chair of the Department of Radiology at Stanford University—a position he still holds. Launching an ambitious recruiting effort, he built a trailblazing coalition of clinicians and scientists and transformed the department into one of the strongest in the nation. He created the Richard M. Lucas Center for Imaging, which opened in 1992. The center has conducted fundamental work in the development and application of imaging technology, producing new methods in areas such as functional MR imaging, diffusion-tensor imaging, real-time MR imaging for image-guided interventions, CT angiography, and CT geometrics. Dr Glazer also leveraged significant resources to help build the multidisciplinary Molecular Imaging

Program at Stanford, one of the world's leading sources of advances in molecular imaging.

While at Stanford, Dr Glazer has continued to perform groundbreaking research and has lately become interested in unifying molecular diagnostics and in vivo imaging. Recently, he showed that image-guided insonification of tumors can amplify biomarker signals in the blood and allow identification of the biomarker release site. This novel concept, the proof of which has been published in the *Proceedings of the National Academy of Sciences*, is likely to profoundly impact tumor biomarker research and clinical medicine, including early cancer detection.

In the clinical arena, Dr Glazer has worked hard to set a new standard for patient-centric radiology. Thanks largely to his efforts, Stanford recently built a new imaging center designed to be patient-centric and to promote direct communication between radiologists and patients.

The culture of innovation and collaboration that Dr Glazer established in his department has provided fertile ground for training the next generation of rising stars. Today, Stanford radiology trainees can be found in leadership positions around the globe. In addition, Stanford now has one of the world's largest continuing medical education programs in radiology.

Dr Glazer has cultivated close relationships with leading universities in Europe and Asia. For his success in promoting international collaboration, he has been awarded honorary memberships in the German Radiological Society and the Japan Radiological Society, and he recently served as president of the International Society of Strategic Studies in Radiology. He has also served on committees and in advisory roles for numerous institutions and societies, including the Association of University Radiologists.

Dr Glazer attributes much of his success to the constant support of his wife, Diane, and his two sons—David, a lawyer, and Daniel, a soon-to-be third-generation radiologist. It is with gratitude and great respect for his outstanding research and visionary leadership that we bestow on Gary M. Glazer, MD, the Gold Medal of the Association of University Radiologists.



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