

Wendy A. Wells MBBS, MSc, FRCPath
Professor and Chair
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I am currently Professor and Chair of Pathology and Laboratory Medicine at Dartmouth-Hitchcock Medical Center (DHMC) and Dartmouth's Geisel School of Medicine (Geisel) and I am Board certified in Anatomic Pathology and Cytopathology, with specialty training in breast pathology and computational image analysis. I received my degree in Medicine (MBBS) from St. Thomas's Hospital Medical School, University of London, UK. My Pathology residency training was started at St. George's Hospital Medical School, University of London, UK and finished at DHMC where I remained for my fellowship training in cytopathology. After that, I completed a Master's degree in Image analysis in Histology at the Royal Postgraduate Medical School, Hammersmith Hospital, London, UK in 1993. I returned to Dartmouth to join the faculty in 1994. My research interests in breast cancer include histomorphologic tissue quantification, prognostic indicators, diagnostic reproducibility, and morphologic, proteomic and genomic correlates to validate novel breast imaging methods. As PI or co-Investigator on numerous NIH/NCI-funded projects to date, my knowledge of morphologic clinical diagnoses, special diagnostic techniques, and optimal tissue preservation and triaging is invaluable to effectively collaborate with translational scientists across the Dartmouth campus (including Dartmouth's Thayer School of Engineering), as part of comprehensive teams of surgeons, pathologists, radiologists, epidemiologists and engineers.

I have been a member of the Cancer Population Sciences Program at Dartmouth's NCI-designated Norris Cotton Cancer Center since 2001. As co-founder and co-Director of the Pathology Shared Resource at Dartmouth, a quality CLIA-certified laboratory with dedicated research technologists, we facilitate and interpret the translational tests required for numerous institutional proposals. After serving as P.I. for the Bio-repository Core of the Molecular Epidemiology COBRE (PI: Karagas), I became Medical Director of the DHMC institutional bio-repository which provides standardized collection, processing, annotation, storage and retrieval of quality bio-specimens in a CLIA-certified environment. We are currently seeking formal accreditation through the College of American Pathologists. This quality biorepository for clinical specimens is critical for successful clinical trial enrollment and serves the Dartmouth campus in the translation to human genomic /personalized medicine.

As Chair of a dynamic, academic Department of Pathology and Laboratory Medicine, I am fully committed to advancing the integration of complex, functionally-structured data sets to improve precision medicine efforts; expanding our current digital slide imaging infrastructure to validate augmented, diagnostic algorithms using computerized analysis and machine learning; broadening biomarker discovery and validation; and supporting global health testing initiatives.