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The application of validation and proficiency testing concepts from current clinical genetic diagnostics for the implementation of new genetic technologies

The advent of new genetic technologies that may be utilized for clinical diagnostics is rapid and the actual mechanics of how these evolving technologies are implemented in a clinical laboratory can be challenging. Participation for over a decade in the development of regulatory guidelines and proficiency testing through the College of American Pathologists/American College of Medical Genetics Cytogenetics Resource Committee as well as experience in the Genetic Diagnostics Laboratories at U.T. Southwestern have elucidated key concepts that were critical in the successful implementation of the technologies of fluorescence in situ hybridization (FISH) and cytogenomic microarray analysis (CMA) into clinical practice, and now have relevance for the rapidly evolving sequencing technologies. This presentation will discuss these concepts and give specific examples of how the lessons learned from prior technology have relevance for the clinical genetic diagnostics of the future.

Biography

Kathleen S Wilson is a Professor of Genetics in the Department of Pathology and the McDermott Center for Human Growth and Development at the University of Texas Southwestern Medical Center in Dallas, Texas. She is board-certified by the American Board of Pathology (ABP) in Clinical Pathology and the American Board of Medical Genetics (ABMG) in Clinical Cytogenetics. She is a fellow member of the College of American Pathologists (CAP) and the American College of Medical Genetics (ACMG). She is currently the Director of the Cytogenomic Microarray Analysis (CMA) laboratory at U.T. Southwestern, Course Director for the medical student Genetics and Pathology Courses, member of the U.T. Southwestern Medical School Admissions Committee and Chair of the Departmental Promotions and Tenure Committee.

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