

CAPA Molecular Pathology Subcommittee

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Mission:

Molecular Genetic Pathology (MGP) is a subspecialty of Pathology and Medical Genetics in which the principles, theories, and technologies of molecular biology and molecular genetics are applied to facilitate the diagnosis, prognosis, monitoring of treatment responses, as well as assessment of disease risk. Traditionally, cancers are classified based on microscopic and immunophenotypic characteristics. WHO Classification of tumors, the foundation of cancer diagnosis and management, began to include molecular genetic features since 2000. This movement had strong impact on how we diagnose and treat cancers. Over the past decade, biomarkers of targeted therapies and immunotherapies have been becoming the fundamental component of precision medicine, and the disciplines of molecular pathology has contributed to the biomarker discoveries and personalized patient care.

The primary goal of Molecular Pathology Subcommittee is to deliver up-to-date knowledge of molecular diagnostics to residents, fellows and practicing pathologists through online lectures and sharing of interesting cases on CAPA publications. The ultimate goal of our subcommittee is to improve the awareness and application of molecular pathology in daily practice; incorporate molecular diagnostics into patient management; and benefit patients through precision diagnosis and therapy.

Proposed activities

1. Molecular subcommittee members will have quarterly meetings to discuss how to fulfill our mission.
2. Lectures: 4 online lectures in one cycle of CAPA online education activities.
3. Interesting case presentations: organize residents to present cases with interesting molecular findings.
4. Research: guide and support residents and fellows to do research in the field of molecular genetic pathology.
5. Collaboration: participate the collaboration and outreach activities of CAPA.