THE UNIVERSITY OF BRITISH COLUMBIA

Faculty of Medicine
Department of Pathology and Laboratory Medicine
Residency and AFC Training Programs
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Pathology & Laboratory Medicine-Vancouver- HP Lab Cancer Genetic Diagnostics-Vancouver-VGH
PL-LCG-VANCOUVER-VGH

Description

Students will participate in clinical aspects of laboratory cancer genetic testing, including review of karyotyping, fluorescence in situ hybridization (FISH), optical genome mapping, and molecular (including qualitative and quantitative PCR assays and next-generation sequencing) test results with a focus on clinical and pathologic correlation in the interpretation of results. Students will learn to recognize the diagnostic, prognostic, and therapeutic impact of testing for acquired genetic abnormalities for patients with cancer (focusing primarily on cancers of the blood and bone marrow).

Objectives

Students will be able to:

1. Discuss the role of genetic testing and laboratory geneticists in establishing a diagnosis, determining prognosis, and selecting appropriate treatments for patients with cancer;
2. Describe common types of genetic variation that can be detected in cancer and approaches to detecting these in the clinical laboratory;
3. Describe the roles and responsibilities of laboratory geneticists and how the student, as a clinician, may make the best use of the lab to provide optimal patient care.

Academic Activities

Students will participate in on-site academic activities including Divisional and/or interdisciplinary rounds and, as appropriate, hematopathology academic half days and journal clubs. As possible, students will make a brief topic presentation to hematopathology/cytogenetics groups.

Direct Patient Care Activities

1. Identification and collection of pertinent clinical information required for guiding and/or interpreting appropriate genetic testing
2. Interpretation of clinical laboratory genetic testing of cancer specimens and, as appropriate, drafting of clinical reports and communication of results to the healthcare team.