

Stanford University Medical Center, Department of Pathology Molecular Genetic Pathology Fellowship

Description of Program and Additional Information:

The Molecular Pathology Fellowship in the Stanford Pathology Department is an ACGME-accredited fellowship offering comprehensive training in Molecular Pathology. The Stanford Molecular Pathology program serves the adult and pediatric populations at Stanford and also sees referrals from Northern California and the U.S. The program is interdisciplinary and includes participation of faculty in the Departments of Pathology, Medicine, Pediatrics (Division of Medical Genetics) and Department of Genetics. Laboratory rotations include formal training in Biochemical Genetics and Cytogenetics. Fellows will be trained in assay development, quality assurance and results interpretation in the Molecular Pathology Laboratory at Stanford and the Kaiser-Permanente Regional Molecular Diagnosis Laboratory, a large reference laboratory for the Kaiser system which offers a testing menu that is complimentary to that of Stanford. Fellows are expected to initiate a research project during the fellowship. This project can be performed in any appropriate laboratory at Stanford, which offers unmatched opportunities for research in Molecular Pathology and Molecular Genetics. Departmental funding is available for suitable research projects. Moreover, additional funding may be available for qualified fellows to continue their research beyond the period of the formal fellowship.

Program Website: <http://pathology.stanford.edu>

Requirements: AP or AP/CP training and eligibility for California medical license

Length of Program: 12 months

Application Deadline: Applications accepted throughout the year

Visas Accepted: Yes

Overview of the Training Year:

Daily sign-out of cases in Molecular Pathology continue throughout the year on a daily basis.

3 months	2 months	1 month	1 month	2 months	3 months
<u>Molecular Pathology rotation—CP aspects.</u> <i>Objectives:</i> Become proficient in a wide range of molecular diagnostic methods and interpretation, in the development of new assays,	<u>Clinical Genetics and cancer genetics rotation.</u> <i>Objectives:</i> Expand knowledge of clinical cancer genetics, genetic counseling aspects,	<u>Cytogenetics rotation.</u> <i>Objectives:</i> Become familiar with cytogenetic methods and interpretation, be able to make correlations with molecular	<u>Biochemical Genetics rotation.</u> <i>Objectives:</i> Become familiar with biochemical diagnostic methods and interpretation, their correlation with and	<u>Molecular pathology research project.</u> <i>Objectives:</i> Carry out a Molecular Pathology research project. Residents can choose from a large number of	<u>Molecular Pathology rotation—AP aspects</u> <i>Objectives:</i> Become proficient in a wide range of molecular diagnostic methods and interpretation, in development of new assays,

<p>case interpretations, have interaction with physicians from other disciplines, and teaching sessions by attending physicians, give case presentations. Emphasis on DNA diagnostic tests and the forefront of diagnostic developments.</p>	<p>and examination and counseling of patients in genetics clinics.</p>	<p>genetic results, and to explore diagnostic advantages and disadvantages of cytogenetic and molecular pathology techniques for individual genetic diseases.</p>	<p>confirmation by molecular methods, development of new assays, interaction with physicians from other disciplines, attend clinics and consults for biochemical genetic disorders.</p>	<p>labs, and research projects. This rotation may be spread out over the year. Research is expected to lead to publication and will provide residents with the opportunity to gain bench experience, critically evaluate research results, understand the difference between molecular pathology research tools and diagnostic applications.</p>	<p>case interpretations, have interaction with physicians from other disciplines, and teaching sessions by attending physicians, give case presentations. Emphasis on array technology.</p>
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Faculty:

Director: Iris Schrijver, M.D.

Appointed 12/17/2003

Co-Director: James L. Zehnder, M.D.
zehnder@stanford.edu

Appointed 12/17/2003

