



# Cell and tissue based molecular pathology /

Tubbs, Raymond R. (1946-)

Stoler, Mark H.

Churchill Livingstone/Elsevier, 2009

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Monografía

This volume in the Foundations in Diagnostic Pathology Series packs today's most essential cell and tissue base molecular pathology into a compact, high-yield format! It focuses on the state of the art in practical validated molecular diagnostics as applied across the fields of surgical pathology and cytology. With an emphasis on current, clinically valid, and diagnostically important applications today and in the near future, you can be assured you're getting the most up-to-date, authoritative coverage available. Its pragmatic, well-organized approach, nearly 250 full-color illustrations, and at-a-glance boxes and tables make the information you need easy to access. Practical and affordable, this resource is ideal for study and review as well as everyday clinical practice! Offers detailed discussions on today's technologies to help you select the best test for case evaluation. Presents recognized molecular pathologists who convey the most current information, keeping you on the cusp of your field. Features nearly 250 full-color illustrations that present important pathologic features, enabling you to form a differential diagnosis and compare your findings with actual cases. Uses a consistent, user-friendly format, including at-a-glance boxes and tables for easy reference

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**Mención de serie:** Foundations in diagnostic pathology

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**Contenido:** Section I: Molecular principles -- Molecular biology basics for the pathologist / Ilka Warshawsky -- Quality assurance of molecular assays / Wayne W. Grody Section II: Molecular tools and techniques -- Overview of molecular diagnostic techniques and instrumentation / Daniel H. Farkas and Carol A. Holland -- Conventional and real-time polymerase chain reaction / Aaron Bossler and Vivianna Van Deerlin -- Loss of heterozygosity / Jennifer L. Hunt -- Direct genome sequencing in diagnostic pathology / Gurunathan Murugesan and Gary W.

Procop -- Array-based comparative genomic hybridization in the analysis of genomic alterations in human disease / Marek Skace, Anna Ambu Siva, and Raymond R. Tubbs -- Expression arrays: discovery and validation / Neal M. Poulin and Torsten O. Nielsen -- Epigenetics: DNA hypermethylation in cancer / Bin Yang -- Tissue microarrays / Ziad Peerwani -- Fluorescence in situ hybridization / James R. Cook -- Bright-field in situ hybridization / Ricardo V. Lloyd, Xiang Qian, and Long Jin -- Immunoglobulin and T-cell receptor gene rearrangement / Margaret L. Gulley -- Monitoring of minimal residual hematologic disease / Cuihong Wei, Jeffrey H. Lipton, and Suzanne Kamel-Reid -- Molecular detection of circulating tumor cells / Karen L. Kaul -- Intraoperative molecular staging using real-time polymerase chain reaction / Tony E. Godfrey Section III: Diagnostic molecular pathology applications -- Molecular cytopathology / Karen S. Gustafson and Douglas P. Clark -- Molecular diagnosis of infectious agents in tissue / Randall T. Hayden and Gary W. Procop -- Molecular neuropathology / Richard Prayson -- Molecular pathology of the cardiovascular system / Carmela D. Tan and E. Rene Rodriguez -- Molecular pulmonary pathology / Samuel Yousem and Sanja Dacic -- Molecular dermatopathology / Alexander J.F. Lazar, Jason W. Nash, and Abdul Hafeez Diwan -- Molecular gastrointestinal, liver, and pancreatic pathology / Rish K. Pai, Rebecca Wilcox, and John Hart -- Molecular endocrine pathology / Jennifer L. Hunt -- Molecular hematopathology / James R. Cook -- Molecular pathology of bone and soft tissue tumors / Brian P. Rubin, Alexander J.F. Lazar, and Andre M. Oliveira -- Molecular pathology of breast cancer / David G. Hicks -- Molecular genitourinary pathology / Donna E. Hansel, Cristina Magi-Galluzzi, and Ming Zhou -- Molecular gynecologic pathology / Monica Prasad Hayes, Edyta C. Pirog, and Lora Hedrick Ellenson -- Pediatric molecular pathology / Robin LeGallo

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