Molecular Pathology: The Molecular Basis of Human Disease

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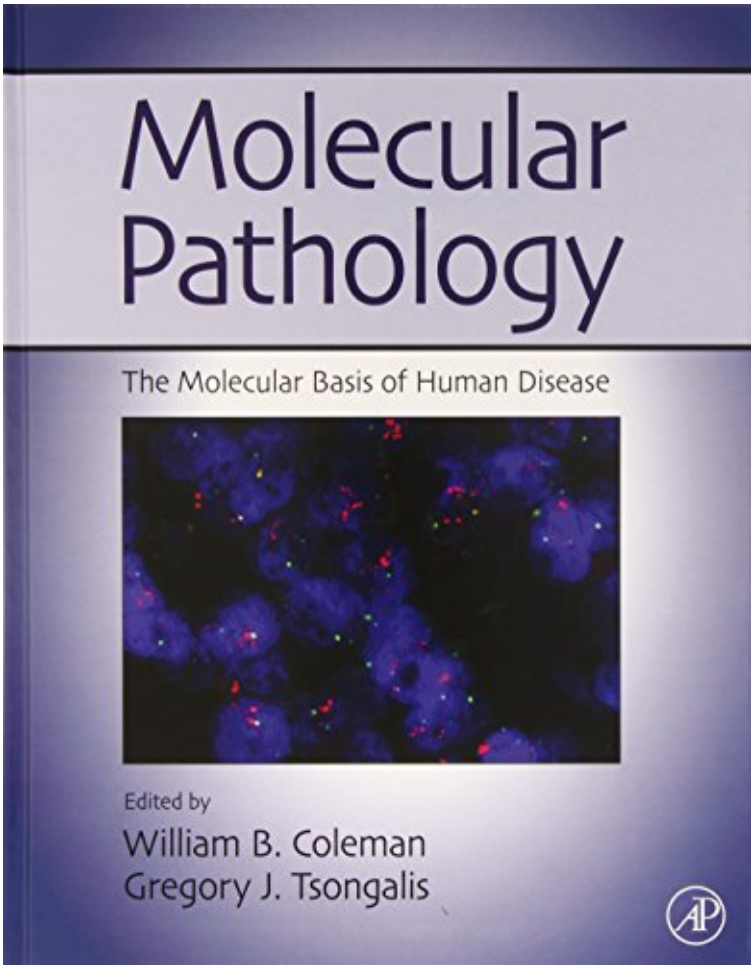

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From Academic Press : Molecular Pathology: The Molecular Basis of Human Disease before purchasing it in order to gage whether or not it would be worth my time, and all praised Molecular Pathology: The Molecular Basis of Human Disease:

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Molecular Pathology: The Molecular Basis of Human Disease provides a current and comprehensive view of the

molecular basis and mechanisms of human disease. Combining accepted principles with broader theoretical concepts and with contributions from a group of experts, the book looks into disease processes in the context of traditional pathology and their implications for translational molecular medicine. It also discusses concepts in molecular biology and genetics, recent scientific and technological advances in modern pathology, the concept of ""molecular pathogenesis"" of disease, and how disease evolves from normal cells and tissues due to perturbations in molecular pathways. The book describes the integration of molecular and cellular pathogenesis using a bioinformatics approach and a systems biology approach to disease pathogenesis. It also discusses current and future strategies in molecular diagnosis of human disease, and the impact of molecular diagnosis on treatment decisions and the practice of personalized medicine. This book is a valuable resource for students, biomedical researchers, practicing physician-scientists who undertake disease-related basic science and translational research, and pathology residents and other postdoctoral fellows. Exam Master web site will host "Self-assessment" questions that students can use to study for the molecular section of the board examTeaches from the perspective of integrative systems biology, which encompasses the intersection of all molecular aspects of biology, as applied to understanding human diseaseOutlines the principles and practice of molecular pathologyExplains the practice of molecular medicine and the translational aspects of molecular pathology

"The editors of Molecular Pathology have produced a comprehensive compendium of the state-of-the-art in molecular pathogenesis, an impressive accomplishment given the diverse cells and organ systems involved in human disease. An established cadre of experts has contributed to this first, well-designed edition. As a result, essential topics ranging from cell injury/death, the molecular basis of cardiovascular diseases and disorders of the nervous system, and modern molecular diagnostics are amply addressed. In a rapidly emerging discipline, it is challenging to capture the details that define the field. Molecular Pathology has accomplished this goal in an outstanding manner and will serve as an excellent resource for those already established in clinical care and biomedical research, for those who seek to maintain competency in molecular pathology, as well as for all students involved in interdisciplinary studies related to human disease or modern clinical investigations." --Linda M. McManus, PhD, Professor, University of Texas Health Science Center at San Antonio "The focus of Molecular Pathology is genetic and molecular but it has been written toenhance thework of an active pathologist, clearly describing the basics as well as providing ample sampling of the molecular complexities of disease. Gladly the editors did not assemble an exhaustive compendium of facts and details that would inevitably become obsolete in short order.Instead, the contributorsconcentrated on clarity of explanationsupported by selected examples so that the reader may grasp the fundamentals better.In fact, this may be one medical textbook thatcan be read cover-to-cover without being lost in details. The figures are clear, helpful, and plentiful which is important when dealing with so many complex technologies and concepts. I highly recommend this book." --Edison T. Liu, M.D, Executive Director, Genome Institute of SingaporeFrom the Back Cover"The editors of Molecular Pathology have produced a comprehensive compendium of the state-of-the-art in molecular pathogenesis, an impressive accomplishment given the diverse cells and organ systems involved in human disease. An established cadre of experts has contributed to this first, well-designed edition. As a result, essential topics ranging from cell injury/death, the molecular basis of cardiovascular diseases and disorders of the nervous system, and modern molecular diagnostics are amply addressed. In a rapidly emerging discipline, it is challenging to capture the details that define the field. Molecular Pathology has accomplished this goal in an outstanding manner and will serve as an excellent resource for those already established in clinical care and biomedical research, for those who seek to maintain competency in molecular pathology, as well as for all students involved in interdisciplinary studies related to human disease or modern clinical investigations." --Linda M. McManus, PhD, Professor, University of Texas Health Science Center at San Antonio "The focus of Molecular Pathology is genetic and molecular but it has been written toenhance thework of an active pathologist, clearly describing the basics as well as providing ample sampling of the molecular complexities of disease. Gladly the editors did not assemble an exhaustive compendium of facts and details that would inevitably become obsolete in short order.Instead, the contributorsconcentrated on clarity of explanationsupported by selected examples so that the reader may grasp the fundamentals better.In fact, this may be one medical textbook thatcan be read cover-to-cover without being lost in details. The figures are clear, helpful, and plentiful which is important when dealing with so many complex technologies and concepts. I highly recommend this book." --Edison T. Liu, M.D, Executive Director, Genome Institute of SingaporeAbout the AuthorWilliam B. Coleman, PhD is Professor of Pathology and Laboratory Medicine at the University of North Carolina School of Medicine (Chapel Hill, NC), and Director of the UNC Program in Translational Medicine. In addition, he is affiliated with the Curriculum in Toxicology, the Cancer Biology Training Program, and is a member of the UNC Lineberger Comprehensive Cancer Center. Dr. Coleman is actively involved in teaching biomedical graduate students and is a four-time recipient of the Joe W. Grisham Award for Excellence in Graduate Student Teaching from the Molecular and Cellular Pathology graduate students at UNC-Chapel Hill. Dr. Coleman is active in the leadership of the American Society for Investigative Pathology, and is a member of the American Association for Cancer Research. He serves as an associate editor for The American Journal of Pathology, BMC Cancer, and PLoS One, and serves on the editorial

boards of Clinica Chimica Acta, Experimental and Molecular Pathology, Archives of Pathology and Laboratory Medicine, Laboratory Investigation, and Current Pathobiology Reports, and has served as an ad hoc reviewer for 95 other journals. Dr. Colemans major research interests are in the molecular pathogenesis of human cancers, with a specific interest in breast cancer epigenetics, liver carcinogenesis, and lung cancer biology. His research has been funded by the NIH/NCI, The Susan G. Komen Breast Cancer Foundation, Friends for an Earlier Breast Cancer Test, and the UNC Lineberger Comprehensive Cancer Center. Dr. Coleman is the author of over 125 original research articles, reviews, and book chapters. In addition, Dr. Coleman has co-edited or co-authored eight books on topics related to molecular pathology, molecular diagnostics, and the molecular pathogenesis of human cancer.Affiliations and ExpertiseProfessor, Department of Pathology and Laboratory Medicine, Curriculum in Toxicology, UNC Program in Translational Medicine, UNC Lineberger Comprehensive Cancer Center, University of North Carolina School of Medicine, Chapel Hill, NC, USAGreg Tsongalis is the Director of the Laboratory for Clinical Genomics and Advanced Technology (CGAT) at the Dartmouth-Hitchcock Medical Center and Norris Cotton Cancer Center (NCCC) in Lebanon, NH and a Professor of Pathology and Laboratory Medicine at the Audrey and Theodor Geisel School of Medicine at Dartmouth in Hanover, NH. He is a member of the NCCC Molecular Therapeutics Program and the gastrointestinal and breast cancer clinical oncology groups. In 2016 he became a member of Dartmouth Colleges Program in Experimental and Molecular Medicine (PEMM), and he has served on the advisory board of the Health Care Genetics Professional Science Masters Degree Program at the University of Connecticut (Storrs, CT). His area of expertise is in the development and implementation of clinical molecular diagnostic technologies. His research interests are in the pathogenesis of human cancers, personalized medicine and disruptive technologies. He has authored/edited twelve textbooks in the field of molecular pathology, published more than 200 peer reviewed manuscripts, and has been an invited speaker at both national and international meetings. He has served on numerous committees of the AACC, ASIP, FASEB and AMP where he is a past President. He is active in the Alliance for Clinical Trials in Oncology, the Association for Molecular Pathology, the American Association for Clinical Chemistry, the American Association of Bioanalyts, and the American Society for Investigative Pathology. He serves on the editorial boards of 8 journals including Clinical Chemistry, Experimental and Molecular Pathology, and the Journal of Molecular Diagnostics. He also serves on numerous corporate scientific advisory boards.