



An Introduction to Human Molecular Genetics: Mechanisms of Inherited Diseases

By Jack J. Pasternak

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An Introduction to Human Molecular Genetics

Second Edition

Jack J. Pasternak

The Second Edition of this internationally acclaimed text expands its coverage of the molecular genetics of inherited human diseases with the latest research findings and discoveries. Using a unique, systems-based approach, the text offers readers a thorough explanation of the gene discovery process and how defective genes are linked to inherited disease states in major organ and tissue systems. All the latest developments in functional genomics, proteomics, and microarray technology have been thoroughly incorporated into the text.

The first part of the text introduces readers to the fundamentals of cytogenetics and Mendelian genetics. Next, techniques and strategies for gene manipulation, mapping, and isolation are examined. Readers will particularly appreciate the text's exceptionally thorough and clear explanation of genetic mapping. The final part features unique coverage of the molecular genetics of distinct biological systems, covering muscle, neurological, eye, cancer, and mitochondrial disorders. Throughout the text, helpful figures and diagrams illustrate and clarify complex material.

Readers familiar with the first edition will recognize the text's same lucid and engaging style, and will find a wealth of new and expanded material that brings them fully up to date with a current understanding of the field, including:

- * New chapters on complex genetic disorders, genomic imprinting, and human population genetics

- * Expanded and fully revised section on clinical genetics, covering diagnostic testing, molecular screening, and various treatments

This text is targeted at upper-level undergraduate students, graduate students, and medical students. It is also an excellent reference for researchers and physicians who need a clinically relevant reference for the molecular genetics of inherited human diseases.

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Editorial Review

Review

"With over 600 pages, this book provides students and professionals in life sciences, pharmacy and biochemistry with all they need to know about molecular biotechnology." (NewsRx, 30 September 2011)

"...very readable...I would recommend this text to students studying human molecular genetics as well as those involved in their instruction." (American Journal of Medical Genetics, June 15, 2006)

"...tailor-made to address...[the] need for a textbook...more focused on the nature and characterization of common, classical genetic diseases...an excellent book that will be applicable to a wide range of students." (*The Quarterly Review of Biology*, June 2006)

"An excellent course book or text to read for updating the established investigator." (*American Journal of Therapeutics*, March/April 2006)

"This book would make a worthy addition to any geneticist's library." (*Clinical Chemistry*, February 2006)

"The abundance of clearly presented information renders this textbook a chef d'oeuvre." (*New England Journal of Medicine*, January 5, 2006)

From the Publisher

Engaging writing style and numerous illustrations make complex concepts accessible to all students. Chapter outlines, lists of key terms, extensive summaries of key concepts, and review questions are provided for each chapter.

Up-to-the-minute research and numerous references cited throughout.

"From the Human Genetics Files" sections in each chapter present historical and innovative applications and contributions of Human Molecular Genetics (like the use of DNA analysis to identify the remains of the Russian Imperial family).

Full-color insert illustrates the latest cytogenetic imaging techniques (FISH, SKY).

From the Back Cover

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From reader reviews:

Deborah Allen:

This An Introduction to Human Molecular Genetics: Mechanisms of Inherited Diseases book is absolutely not ordinary book, you have it then the world is in your hands. The benefit you have by reading this book is definitely information inside this reserve incredible fresh, you will get information which is getting deeper a person read a lot of information you will get. This particular An Introduction to Human Molecular Genetics: Mechanisms of Inherited Diseases without we realize teach the one who examining it become critical in imagining and analyzing. Don't possibly be worry An Introduction to Human Molecular Genetics: Mechanisms of Inherited Diseases can bring once you are and not make your handbag space or bookshelves' come to be full because you can have it inside your lovely laptop even telephone. This An Introduction to Human Molecular Genetics: Mechanisms of Inherited Diseases having good arrangement in word as well as layout, so you will not feel uninterested in reading.

Timothy Bennington:

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Ariane Swanson:

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