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from one generation to the next. Genes: Provide continuity between
generations that is Provide continuity between generations that is
essential for life Control to a large extent the structure, function, &
The info. bank of the cell Control to a large extent the structure,

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Step 1. We also review important genetic diseases seen in previous chapters to highlight how genetics can show up in many organ systems

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oncologic diseases and syndromes, the authors cover topics from melanoma, breast cancer and prostate cancer to Wilms Tumour. The chapter organization reflects clinical aspects; genetic loci, specific genes and implications for diagnosis.

Market_Desc: · Advanced Undergraduate and First-Year Graduate Students
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potential future applications of the principles discussed, particularly in agriculture and medicine. Among the specific topics covered are cell mechanics; properties and replication; chromosome mapping; gene expression; mutation; gene cloning; genetic controls of immune response and cell division; genetic engineering and more.

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motivated. The sixth edition has been updated to reflect the latest developments in the field of genetics. Principles of Genetics continues to educate today's students for tomorrow's science by focusing on features that aid in content comprehension and application.

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develop new products, solve crimes . . . and even clone cats. Covers topics in a straightforward and effective manner Includes coverage of stem cell research, molecular genetics, behavioral genetics, genetic engineering, and more Explores ethical issues as they pertain to the study of genetics Whether you're currently enrolled in a genetics course or are just looking for a refresher, *Genetics For Dummies, 2nd Edition* provides science lovers of all skill levels with easy-to-follow information on this fascinating subject.

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

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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

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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.

Fundamental Bacterial Genetics presents a concise introduction to microbial genetics. The text focuses on one bacterial species,

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Escherichia coli, but draws examples from other microbial systems at appropriate points to support the fundamental concepts of molecular genetics. A solid balance of concepts, techniques and applications makes this book an accessible, essential introduction to the theory and practice of fundamental microbial genetics. FYI boxes - feature key experiments that lead to what we now know, biographies of key scientists, comparisons with other species and more. Study questions - at the end of each chapter, review and test students' knowledge of key chapter concepts. Key references - included both at chapter end and in a full reference list at the end of the book. Full Chapter on Genomics, Bioinformatics and Proteomics - includes coverage of functional genomics and microarrays. Dedicated website - animations, study resources, web research questions and illustrations downloadable for

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powerpointfiles provide students and instructors with an enhanced,interactive experience.

This book offers comprehensive coverage of all the core topics of bioinformatics, and includes practical examples completed using the MATLAB bioinformatics toolbox™. It is primarily intended as a textbook for engineering and computer science students attending advanced undergraduate and graduate courses in bioinformatics and computational biology. The book develops bioinformatics concepts from the ground up, starting with an introductory chapter on molecular biology and genetics. This chapter will enable physical science students to fully understand and appreciate the ultimate goals of applying the principles of information technology to challenges in biological data management, sequence analysis, and

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systems biology. The first part of the book also includes a survey of existing biological databases, tools that have become essential in today's biotechnology research. The second part of the book covers methodologies for retrieving biological information, including fundamental algorithms for sequence comparison, scoring, and determining evolutionary distance. The main focus of the third part is on modeling biological sequences and patterns as Markov chains. It presents key principles for analyzing and searching for sequences of significant motifs and biomarkers. The last part of the book, dedicated to systems biology, covers phylogenetic analysis and evolutionary tree computations, as well as gene expression analysis with microarrays. In brief, the book offers the ideal hands-on reference guide to the field of bioinformatics and computational biology.

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