

Genetics For Dummies

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The following key terms are guaranteed to appear frequently in your study of all things genetic: Alleles: Alternative versions of a gene Autosomal chromosome: A non-sex chromosome Chromosome: A linear or circular strand composed of DNA that contains genes Diploid: An organism with two copies of each ...

Genetics For Dummies Cheat Sheet - dummies

Genetic information is also increasingly being used for a wide range of non-clinical purposes, such as exploring one's ancestry. This new edition of Genetics For Dummies serves as a perfect course supplement for students pursuing degrees in the sciences. It also provides science-lovers of all skill levels with easy-to-follow and easy-to-understand information about this exciting and constantly evolving field.

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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.

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Tara Rodden Robinson, PhD, is an Instructor of Genetics, Extended Campus, at Oregon State University. Previously, she worked as an instructor and Postdoctoral Fellow in Genetics at Auburn University in Auburn, Alabama. \$19.99 US / \$23.99 CN / £14.99 UK ISBN 978-0-470-55174-5 Science/Life Sciences/Genetics & Genomics Go to Dummies.com®

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Genetics For Dummies - Tara Rodden Robinson - Google Books

Don't be fooled by the "dummies" bit; this book is a handy text even for first year university students. It takes you through every aspect of studying genetics in an amazingly easy to understand format that solidifies all the learning already done in lectures and lab work.

Amazon.co.uk:Customer reviews: Genetics For Dummies 2e

This non-intimidating guide gets you up to speed on all the fundamentals and the most recent discoveries. Now with 25% new and revised material, Genetics For Dummies, 2nd Edition gives you clear and accessible coverage of this rapidly advancing field. From dominant and recessive inherited traits to the DNA double-helix, you get clear explanations in easy-to-understand terms.

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Your no-nonsense guide to genetics With rapid advances in genomic technologies, genetic testing has become a key part of both clinical practice and research. Scientists are constantly discovering more about how genetics plays a role in health and disease, and healthcare providers are using this information to more accurately identify their patients' particular medical needs. Genetic information is also increasingly being used for a wide range of non-clinical purposes, such as exploring one's ancestry. This new edition of Genetics For Dummies serves as a perfect course supplement for students pursuing degrees in the sciences. It also provides science-lovers of all skill levels with easy-to-follow and easy-to-understand information about this exciting and constantly evolving field. This edition includes recent developments and applications in the field of genetics, such as: Whole-genome and whole-exome sequencing Precision medicine and pharmacogenetics Direct-to-consumer genetic testing for health risks Ancestry testing Featuring information on some of the hottest topics in genetics right now, this book makes it easier than ever to wrap your head around this fascinating subject.

A plain-English guide to genetics Want to know more about genetics? This non-intimidating guide gets you up to speed on all the fundamentals and the most recent discoveries. Now with 25% new and revised material, Genetics For Dummies, 2nd Edition gives you clear and accessible coverage of this rapidly advancing field. From dominant and recessive inherited traits to the DNA double-helix, you get clear explanations in easy-to-understand terms. Plus, you'll see how people are applying genetic science to fight disease, 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.

Genetics For Dummies is an introduction to genetics, including cells and DNA of both people and animals, and how they effect who you are and what you do. From cloning the first pet cat to the advent of the Human Genome Project, a spotlight is on the ethics of genetic science, and this book explains this ever-changing information in an easy-to-understand way. It includes sections on basic genetics; genetic mutations, diseases, and evolution; insights into scientific discoveries such as cloning and genetic engineering; gene therapy and other new and controversial medicines; and the exploration of ethical issues and the future of genetic science.· Genetics Basics· DNA: The Genetic Material· Genetics and Your Health· Genetics and Your World· The Part of Tens

Covering newsworthy aspects of contemporary biology—gene therapy, the Human Genome Project, DNA testing, and genetic engineering—as well as fundamental concepts, this book, written specifically for nonbiologists, discusses classical and molecular genetics, quantitative and population genetics—including cloning and genetic diseases—and the many applications of genetics to the world around us, from genetically modified foods to genetic testing. With minimal technical terminology and jargon, Genes and DNA facilitates conceptual understanding. Eschewing the organization of traditional genetics texts, the authors have provided an organic progression of information: topics are introduced as needed, within a broader framework that makes them meaningful for nonbiologists. The book encourages the reader to think independently, always stressing scientific background and current facts.

The purpose of this manual is to provide an educational genetics resource for individuals, families, and health professionals in the New York - Mid-Atlantic region and increase awareness of specialty care in genetics. The manual begins with a basic introduction to genetics concepts, followed by a description of the different types and applications of genetic tests. It also provides information about diagnosis of genetic disease, family history, newborn screening, and genetic counseling. Resources are included to assist in patient care, patient and professional education, and identification of specialty genetics services within the New York - Mid-Atlantic region. At the end of each section, a list of references is provided for additional information. Appendices can be copied for reference and offered to patients. These take-home resources are critical to helping both providers and patients understand some of the basic concepts and applications of genetics and genomics.

Were you always curious about biology but were afraid to sit through long hours of dense reading? Did you like the subject when you were in high school but had other plans after you graduated? Now you can explore the human genome and analyze DNA without ever leaving your desktop! Bioinformatics For Dummies is packed with valuable information that introduces you to this exciting new discipline. This easy-to-follow guide leads you step by step through every bioinformatics task that can be done over the Internet. Forget long equations, computer-geek gibberish, and installing bulky programs that slow down your computer. You'll be amazed at all the things you can accomplish just by logging on and following these trusty directions. You get the tools you need to: Analyze all types of sequences Use all types of databases Work with DNA and protein sequences Conduct similarity searches Build a multiple sequence alignment Edit and publish alignments Visualize protein 3-D structures Construct phylogenetic trees This up-to-date second edition includes newly created and popular databases and Internet programs as well as multiple new genomes. It provides tips for using servers and places to seek resources to find out about what's going on in the bioinformatics world. Bioinformatics For Dummies will show you how to get the most out of your PC and the right Web tools so you'll be searching databases and analyzing sequences like a pro!

A clear and straightforward explanation of genetics in this new edition of the popular 101 series. Our genetic makeup determines so much about who we are, and what we pass on to our children—from eye color, to height, to health, and even our longevity. Genetics 101 breaks down the science of how genes are inherited and passed from parents to offspring, what DNA is and how it works, how your DNA affects your health, and how you can use your personal genomics to find out more about who you are and where you come from. Whether you're looking for a better scientific understanding of genetics, or looking into your own DNA, Genetics 101 is your go-to source to discover more about both yourself and your ancestry.

Your hands-on study guide to the inner world of the cell Need to get a handle on molecular and cell biology? This easy-to-understand guide explains the structure and function of the cell and how recombinant DNA technology is changing the face of science and medicine. You discover how fundamental principles and concepts relate to everyday life. Plus, you get plenty of study tips to improve your grades and score higher on exams! Explore the world of the cell – take a tour inside the structure and function of cells and see how viruses attack and destroy them Understand the stuff of life (molecules) – get up to speed on the structure of atoms, types of bonds, carbohydrates, proteins, DNA, RNA, and lipids Watch as cells function and reproduce – see how cells communicate, obtain matter and energy, and copy themselves for growth, repair, and reproduction Make sense of genetics – learn how parental cells organize their DNA during sexual reproduction and how scientists can predict inheritance patterns Decode a cell's underlying programming – examine how DNA is read by cells, how it determines the traits of organisms, and how it's regulated by the cell Harness the power of DNA – discover how scientists use molecular biology to explore genomes and solve current world problems Open the book and find: Easy-to-follow explanations of key topics The life of a cell – what it needs to survive and reproduce Why molecules are so vital to cells Rules that govern cell behavior Laws of thermodynamics and cellular work The principles of Mendelian genetics Useful Web sites Important events in the development of DNA technology Ten great ways to improve your biology grade

Reveals the connections between genetics and specific diseases Understand the science and the ethics behind genetics Want to know more about genetics? This non-intimidating guide gets you up to speed on all the fundamentals. From dominant and recessive inherited traits to the DNA double-helix, you get clear explanations in easy-to-understand terms. Plus, you'll see how people are applying genetic science to fight disease, develop new products, solve crimes . . . and even clone cats. Discover: What geneticists do How traits are passed on How genetic counseling works The basics of cloning The role of DNA in forensics The scoop on the Human Genome Project

How tiny variations in our personal DNA can determine how we look, how we behave, how we get sick, and how we get well. News stories report almost daily on the remarkable progress scientists are making in unraveling the genetic basis of disease and behavior. Meanwhile, new technologies are rapidly reducing the cost of reading someone's personal DNA (all six billion letters of it). Within the next ten years, hospitals may present parents with their newborn's complete DNA code along with her footprints and APGAR score. In Genetic Twists of Fate, distinguished geneticists Stanley Fields and Mark Johnston help us make sense of the genetic revolution that is upon us. Fields and Johnston tell real life stories that hinge on the inheritance of one tiny change rather than another in an individual's DNA: a mother wrongly accused of poisoning her young son when the true killer was a genetic disorder; the screen siren who could no longer remember her lines because of Alzheimer's disease; and the president who was treated with rat poison to prevent another heart attack. In an engaging and accessible style, Fields and Johnston explain what our personal DNA code is, how a few differences in its long list of DNA letters makes each of us unique, and how that code influences our appearance, our behavior, and our risk for such common diseases as diabetes or cancer.

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