

Mendelian Genetics Of Corn Kit Carolina Answers

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Mendel's Principles of Heredity - William Bateson 1902

Bateson named the science "genetics" in 1905-1906. This is the first textbook in English on the subject of genetics.

Gene Drives on the Horizon - National Academies of Sciences, Engineering, and Medicine 2016-08-28

Research on gene drive systems is rapidly advancing. Many proposed applications of gene drive research aim to solve environmental and public health challenges, including the reduction of poverty and the burden of vector-borne diseases, such as malaria and dengue, which disproportionately impact low and middle income countries. However, due to their intrinsic qualities of rapid spread and irreversibility, gene drive systems raise many questions with respect to their safety relative to public and environmental health. Because gene drive systems are designed to alter the environments we share in ways that will be hard to anticipate and impossible to completely roll back, questions about the ethics surrounding use of this research are complex and will require very careful exploration. *Gene Drives on the Horizon* outlines the state of knowledge relative to the science, ethics, public engagement, and risk assessment as they pertain to research directions of gene drive systems and governance of the research process. This report offers principles for responsible practices of gene drive research and related applications for use by investigators, their institutions, the research

funders, and regulators.

The 100 - Michael H. Hart 1978

A list of the one hundred most influential people in history features descriptions of the careers, contributions, and accomplishments of the political and religious leaders, inventors, writers, artists, and others who changed the course of history. Simultaneous.

Molecular Ecology - Joanna R. Freeland 2006-03-30

Molecular Ecology provides a comprehensive introduction to the many diverse aspects of this subject. The book unites theory with examples from a wide range of taxa in a logical and progressive manner, and its accessible writing style makes subjects such as population genetics and phylogenetics highly comprehensible to its readers. The first part of the book introduces the essential underpinnings of molecular ecology, starting with a review of genetics and a discussion of the molecular markers that are most frequently used in ecological research. This leads into an overview of population genetics in ecology. The second half of the book then moves on to specific applications of molecular ecology, covering phylogeography, behavioural ecology and conservation genetics. The final chapter looks at molecular ecology in a wider context by using a number of case studies that are relevant to various economic and social concerns, including wildlife forensics, agriculture, and overfishing * comprehensive overview of the different aspects of molecular ecology * attention to both theoretical and applied

concerns * accessible writing style and logical structure * numerous up-to-date examples and references This will be an invaluable reference for those studying molecular ecology, population genetics, evolutionary biology, conservation genetics and behavioural ecology, as well as researchers working in these fields.

Biology for AP® Courses - Julianne Zedalis
2017-10-16

Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board's AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

McDougal Littell Science - 2006-01-30

Have a Nice DNA - Frances R. Balkwill 2002
Once upon a time you were very, very small. In fact, you were made of just one tiny cell. But the incredible thing about that tiny cell was that all the instructions to make you were hidden inside it. And all because of a very important chemical substance called DeoxyriboNucleic Acid-- everyone calls it DNA. *Enjoy Your Cells* is a series of children's books from the acclaimed creative partnership of scientist/author Fran Balkwill and illustrator Mic Rolph. Once again, they use their unique brand of simple but scientifically accurate commentary and exuberantly colorful graphics to take young readers on an entertaining exploration of the amazing, hidden world of cells, proteins, and DNA. It's over ten years since Fran and Mic invented a new way of getting science across to children. Think what extraordinary advances have been made in biology in that time and how often those discoveries made headlines. Stem cells, cloning, embryo transfer, emerging infections, vaccine development ELhere in these books are the basic facts behind the public debates. With these books, children will learn to

enjoy their cells and current affairs at the same time. And they're getting information that has been written and reviewed by working scientists, so it's completely correct and up-to-date.

Readers aged 7 and up will appreciate the stories' lively language and with help, even younger children will enjoy and learn from the jokes and illustrationsno expert required!

Discover all the books in the ENJOY YOUR CELLS series, each available in coloring book and full-color formats!

Impacts of Applied Genetics - 1981

Resources for Teaching Middle School

Science - Smithsonian Institution 1998-04-30

With age-appropriate, inquiry-centered curriculum materials and sound teaching practices, middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them. *Resources for Teaching Middle School Science*, developed by the National Science Resources Center (NSRC), is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8. The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards. This completely new guide follows on the success of *Resources for Teaching Elementary School Science*, the first in the NSRC series of annotated guides to hands-on, inquiry-centered curriculum materials and other resources for science teachers. The curriculum materials in the new guide are grouped in five chapters by scientific area--Physical Science, Life Science, Environmental Science, Earth and Space Science, and Multidisciplinary and Applied Science. They are also grouped by type--core materials, supplementary units, and science activity books. Each annotation of curriculum material includes a recommended grade level, a description of the activities involved and of what students can be expected to learn, a list of accompanying materials, a reading level, and ordering information. The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide. The criteria reflect and incorporate goals and principles of the National Science Education Standards. The annotations

designate the specific content standards on which these curriculum pieces focus. In addition to the curriculum chapters, the guide contains six chapters of diverse resources that are directly relevant to middle school science. Among these is a chapter on educational software and multimedia programs, chapters on books about science and teaching, directories and guides to science trade books, and periodicals for teachers and students. Another section features institutional resources. One chapter lists about 600 science centers, museums, and zoos where teachers can take middle school students for interactive science experiences. Another chapter describes nearly 140 professional associations and U.S. government agencies that offer resources and assistance. Authoritative, extensive, and thoroughly indexed—and the only guide of its kind—*Resources for Teaching Middle School Science* will be the most used book on the shelf for science teachers, school administrators, teacher trainers, science curriculum specialists, advocates of hands-on science teaching, and concerned parents.

Molecular Diagnosis of Genetic Diseases - Rob Elles 2004

This completely revised and updated second edition integrates the many new technologies and insights now available for the diagnosis of genetic diseases. The authors use such methodologies as PCR optimization dosage analysis, mutation scanning, and quantitative fluorescent PCR for aneuploidy analysis, Neurofibromatosis type 1, and Duchenne muscular dystrophy. These largely generic methodologies may be adapted to most genetic conditions for which a molecular diagnosis is relevant. *Molecular Diagnosis of Genetic Diseases, Second Edition* offers diagnostic molecular geneticists a unique opportunity to sharpen their scientific skills in the design of assays, their execution, and their interpretation.

Autism and the Environment - Institute of Medicine 2008-03-12

Autism spectrum disorders (ASD) constitute a major public health problem, affecting one in every 150 children and their families. Unfortunately, there is little understanding of the causes of ASD, and, despite their broad societal impact, many people believe that the

overall research program for autism is incomplete, particularly as it relates to the role of environmental factors. The Institute of Medicine's Forum on Neuroscience and Nervous System Disorders, in response to a request from the U.S. Secretary of Health and Human Services, hosted a workshop called "Autism and the Environment: Challenges and Opportunities for Research." The focus was on improving the understanding of the ways in which environmental factors such as chemicals, infectious agents, or physiological or psychological stress can affect the development of the brain. *Autism and the Environment* documents the concerted effort which brought together the key public and private stakeholders to discuss potential ways to improve the understanding of the ways that environmental factors may affect ASD. The presentations and discussions from the workshop that are described in this book identify a number of promising directions for research on the possible role of different environmental agents in the etiology of autism.

A Guide to Sorghum Breeding - Leland R. House 1982

Genetics - Benjamin A. Pierce 2013-12-27
With *Genetics: A Conceptual Approach*, Ben Pierce brings a master teacher's experiences to the introductory genetics textbook, clarifying this complex subject by focusing on the big picture of genetics concepts and how those concepts connect to one another.

Economic Issues in Agricultural Biotechnology - Robbin Shoemaker 2001
Addresses the fact that ag. biotech. (AB) has been advancing very rapidly, and while it presents many promises, it also poses many questions. Many dimensions to AB need to be considered to adequately inform public policy. Policy is made more difficult by the fact that AB encompasses many policy issues addressed in very different ways. The report identifies several key areas -- ag. research policy, industry structure, production and marketing, consumer issues, and future world food demand -- where AB is dramatically affecting the public policy agenda. Focuses on the economic aspects of these issues and addresses some current and timely issues as well as longer term issues.

Charts and tables.

Illustrated Guide to Home Biology

Experiments - Robert Thompson 2012-04-19
Perfect for middle- and high-school students and DIY enthusiasts, this full-color guide teaches you the basics of biology lab work and shows you how to set up a safe lab at home. Features more than 30 educational (and fun) experiments.
Genetics - Daniel L. Hartl 1998

Enjoy Your Cells - Frances R. Balkwill 2001-10
Describes different kinds of cells and the work that they do inside living things.

America's Lab Report - National Research Council 2006-01-20

Laboratory experiences as a part of most U.S. high school science curricula have been taken for granted for decades, but they have rarely been carefully examined. What do they contribute to science learning? What can they contribute to science learning? What is the current status of labs in our nation's high schools as a context for learning science? This book looks at a range of questions about how laboratory experiences fit into U.S. high schools: What is effective laboratory teaching? What does research tell us about learning in high school science labs? How should student learning in laboratory experiences be assessed? Do all students have access to laboratory experiences? What changes need to be made to improve laboratory experiences for high school students? How can school organization contribute to effective laboratory teaching? With increased attention to the U.S. education system and student outcomes, no part of the high school curriculum should escape scrutiny. This timely book investigates factors that influence a high school laboratory experience, looking closely at what currently takes place and what the goals of those experiences are and should be. Science educators, school administrators, policy makers, and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum-and how that can be accomplished.

Modest Witness@Second Millennium.

FemaleMan Meets OncoMouse - Donna J. Haraway 2018-06-27

One of the founders of the posthumanities, Donna J. Haraway is professor in the History of

Consciousness program at the University of California, Santa Cruz. Author of many books and widely read essays, including the now-classic essay "The Cyborg Manifesto," she received the J.D. Bernal Prize in 2000, a lifetime achievement award from the Society for Social Studies in Science. Thyrza Nicholas Goodeve is a professor of Art History at the School of Visual Arts.

DNA Science - David A. Micklos 2003

This is the second edition of a highly successful textbook (over 50,000 copies sold) in which a highly illustrated, narrative text is combined with easy-to-use thoroughly reliable laboratory protocols. It contains a fully up-to-date collection of 12 rigorously tested and reliable lab experiments in molecular biology, developed at the internationally renowned Dolan DNA Learning Center of Cold Spring Harbor Laboratory, which culminate in the construction and cloning of a recombinant DNA molecule. Proven through more than 10 years of teaching at research and nonresearch colleges and universities, junior colleges, community colleges, and advanced biology programs in high school, this book has been successfully integrated into introductory biology, general biology, genetics, microbiology, cell biology, molecular genetics, and molecular biology courses. The first eight chapters have been completely revised, extensively rewritten, and updated. The new coverage extends to the completion of the draft sequence of the human genome and the enormous impact these and other sequence data are having on medicine, research, and our view of human evolution. All sections on the concepts and techniques of molecular biology have been updated to reflect the current state of laboratory research. The laboratory experiments cover basic techniques of gene isolation and analysis, honed by over 10 years of classroom use to be thoroughly reliable, even in the hands of teachers and students with no prior experience. Extensive prelab notes at the beginning of each experiment explain how to schedule and prepare, while flow charts and icons make the protocols easy to follow. As in the first edition of this book, the laboratory course is completely supported by quality-assured products from the Carolina Biological Supply Company, from bulk reagents, to useable reagent systems, to

single-use kits, thus satisfying a broad range of teaching applications.

Plant Genetics and Biotechnology in

Biodiversity - Rosa Rao 2018-08-09

This book is a printed edition of the Special Issue "Plant Genetics and Biotechnology in Biodiversity" that was published in Diversity

The GMO Deception - Sheldon Krimsky 2014-06-03

Seventy-five percent of processed foods on supermarket shelves—from soda to soup, crackers to condiments—contain genetically engineered ingredients. The long-term effects of these foods on human health and ecology are still unknown, and public concern has been steadily intensifying. This new book from the Council for Responsible Genetics gathers the best, most thought-provoking essays by the leading scientists, science writers, and public health advocates. Collectively, they address such questions as: Are GM foods safe and healthy for us? Will GM food really solve world hunger? Who really controls the power structure of food production? Are GM foods ecologically safe and sustainable? Why is it so difficult to get GM foods labeled in the US? What kinds of regulations and policies should be instituted? How is seed biodiversity, of lack thereof, affecting developing countries? Should animals be genetically modified for food? How are other countries handling GM crops? Ultimately, this definitive book encourages us to think about the social, environmental, and moral ramifications of where this particular branch of biotechnology is taking us, and what we should do about it.

Snakes - Stephen J. Mullin 2011-08-15

Destruction of habitat due to urban sprawl, pollution, and deforestation has caused population declines or even extinction of many of the world's approximately 2,600 snake species. Furthermore, misconceptions about snakes have made them among the most persecuted of all animals, despite the fact that less than a quarter of all species are venomous and most species are beneficial because they control rodent pests. It has become increasingly urgent, therefore, to develop viable conservation strategies for snakes and to investigate their importance as monitors of ecosystem health and indicators of habitat sustainability. In the first book on snakes written with a focus on conservation, editors Stephen J.

Mullin and Richard A. Seigel bring together leading herpetologists to review and synthesize the ecology, conservation, and management of snakes worldwide. These experts report on advances in current research and summarize the primary literature, presenting the most important concepts and techniques in snake ecology and conservation. The common thread of conservation unites the twelve chapters, each of which addresses a major subdiscipline within snake ecology. Applied topics such as methods and modeling and strategies such as captive rearing and translocation are also covered. Each chapter provides an essential framework and indicates specific directions for future research, making this a critical reference for anyone interested in vertebrate conservation generally or for anyone implementing conservation and management policies concerning snake populations.

The Immortal Life of Henrietta Lacks -

Rebecca Skloot 2010-02-02

#1 NEW YORK TIMES BESTSELLER • “The story of modern medicine and bioethics—and, indeed, race relations—is refracted beautifully, and movingly.”—Entertainment Weekly NOW A MAJOR MOTION PICTURE FROM HBO® STARRING OPRAH WINFREY AND ROSE BYRNE • ONE OF THE “MOST INFLUENTIAL” (CNN), “DEFINING” (LITHUB), AND “BEST” (THE PHILADELPHIA INQUIRER) BOOKS OF THE DECADE • ONE OF ESSENCE’S 50 MOST IMPACTFUL BLACK BOOKS OF THE PAST 50 YEARS • WINNER OF THE CHICAGO TRIBUNE HEARTLAND PRIZE FOR NONFICTION NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review • Entertainment Weekly • O: The Oprah Magazine • NPR • Financial Times • New York • Independent (U.K.) • Times (U.K.) • Publishers Weekly • Library Journal • Kirkus Reviews • Booklist • Globe and Mail Her name was Henrietta Lacks, but scientists know her as HeLa. She was a poor Southern tobacco farmer who worked the same land as her slave ancestors, yet her cells—taken without her knowledge—became one of the most important tools in medicine: The first “immortal” human cells grown in culture, which are still alive today, though she has been dead for more than sixty years. HeLa cells were vital for developing

the polio vaccine; uncovered secrets of cancer, viruses, and the atom bomb's effects; helped lead to important advances like in vitro fertilization, cloning, and gene mapping; and have been bought and sold by the billions. Yet Henrietta Lacks remains virtually unknown, buried in an unmarked grave. Henrietta's family did not learn of her "immortality" until more than twenty years after her death, when scientists investigating HeLa began using her husband and children in research without informed consent. And though the cells had launched a multimillion-dollar industry that sells human biological materials, her family never saw any of the profits. As Rebecca Skloot so brilliantly shows, the story of the Lacks family—past and present—is inextricably connected to the dark history of experimentation on African Americans, the birth of bioethics, and the legal battles over whether we control the stuff we are made of. Over the decade it took to uncover this story, Rebecca became enmeshed in the lives of the Lacks family—especially Henrietta's daughter Deborah. Deborah was consumed with questions: Had scientists cloned her mother? Had they killed her to harvest her cells? And if her mother was so important to medicine, why couldn't her children afford health insurance? Intimate in feeling, astonishing in scope, and impossible to put down, *The Immortal Life of Henrietta Lacks* captures the beauty and drama of scientific discovery, as well as its human consequences.

Using Statistics for Process Control and Improvement - United Nations Industrial Development Organization 1997

Shattering - Cary Fowler 1990

It was through control of the shattering of wild seeds that humans first domesticated plants. Now control over those very plants threatens to shatter the world's food supply, as loss of genetic diversity sets the stage for widespread hunger. Large-scale agriculture has come to favor uniformity in food crops. More than 7,000 U.S. apple varieties once grew in American orchards; 6,000 of them are no longer available. Every broccoli variety offered through seed catalogs in 1900 has now disappeared. As the international genetics supply industry absorbs seed companies—with nearly one thousand

takeovers since 1970—this trend toward uniformity seems likely to continue; and as third world agriculture is brought in line with international business interests, the gene pools of humanity's most basic foods are threatened. The consequences are more than culinary. Without the genetic diversity from which farmers traditionally breed for resistance to diseases, crops are more susceptible to the spread of pestilence. Tragedies like the Irish Potato Famine may be thought of today as ancient history; yet the U.S. corn blight of 1970 shows that technologically based agribusiness is a breeding ground for disaster. Shattering reviews the development of genetic diversity over 10,000 years of human agriculture, then exposes its loss in our lifetime at the hands of political and economic forces. The possibility of crisis is real; this book shows that it may not be too late to avert it.

Holt Science & Technology - Holt Rinehart & Winston 2007-01-01

Deafness in Dogs and Cats - George M. Strain 2011-03-01

Deafness in pets is a very common problem and is increasingly being presented to veterinarians, as owners and breeders become more aware and concerned about such issues. This book will provide complete coverage of the subject describing the anatomy and physiology of the auditory system, types of deafness, testing for deafness, methods of amelioration and management, behaviour of deaf animals, and other issues associated with living and dealing with deaf pets.

[Mapping and Sequencing the Human Genome](#) - National Research Council 1988-01-01

There is growing enthusiasm in the scientific community about the prospect of mapping and sequencing the human genome, a monumental project that will have far-reaching consequences for medicine, biology, technology, and other fields. But how will such an effort be organized and funded? How will we develop the new technologies that are needed? What new legal, social, and ethical questions will be raised? *Mapping and Sequencing the Human Genome* is a blueprint for this proposed project. The authors offer a highly readable explanation of the technical aspects of genetic mapping and

sequencing, and they recommend specific interim and long-range research goals, organizational strategies, and funding levels. They also outline some of the legal and social questions that might arise and urge their early consideration by policymakers.

Rice Genetics IV - Gurdev S. Khush 2001

Geneticists contribute on a wide range of topics in this book, from classical genetics to the most advanced research on sequencing of the rice genome and functional genomics. They review advances in rice research and discuss molecular markers, genome organization and gene isolation.

Biology Unity Divers Life Im - Starr 2001-12

Experiments in Plant-hybridisation - Gregor Mendel 1925

Agriscience - Elmer L. Cooper 1995

An agriscience textbook exploring such topics as environmental technology, plant sciences, integrated pest management, interior and exterior plantscape, animal sciences, food science, and agribusiness.

DNA and Destiny - R. Grant Steen 2013-11-11

This book shows that, to understand the human condition better, we must develop a keener appreciation for the subtle interactions between nature and nurture. First, Dr. Steen confronts the dark history of eugenics, and the horrifying legacy of the Nazis. He then proceeds to illuminate the latest advances in molecular biology and behavioral genetics. He explains fascinating results that have emerged from "split-twin" experiments, in which eerie parallels were found between twins separated at birth. He clarifies how the Human Genome Project might help create a new understanding of the human condition and how it may ultimately help alleviate some of the major health and even behavioral problems facing society today

Molecular Genetic Pathology - Liang Cheng 2013-03-05

Molecular Genetic Pathology, Second Edition presents up-to-date material containing fundamental information relevant to the clinical practice of molecular genetic pathology. Fully updated in each area and expanded to include identification of new infectious agents (H1N1), new diagnostic biomarkers and biomarkers for

targeted cancer therapy. This edition is also expanded to include the many new technologies that have become available in the past few years such as microarray (AmpliChip) and high throughput deep sequencing, which will certainly change the clinical practice of molecular genetic pathology. Part I examines the clinical aspects of molecular biology and technology, genomics, Pharmacogenomics and proteomics, while Part II covers the clinically relevant information of medical genetics, hematology, transfusion medicine, oncology, and forensic pathology. Supplemented with many useful figures and presented in a helpful bullet-point format, Molecular Genetic Pathology, Second Edition provides a unique reference for practicing pathologists, oncologists, internists, and medical geneticists. Furthermore, a book with concise overview of the field and highlights of clinical applications will certainly help those trainees, including pathology residents, genetics residents, molecular pathology fellows, internists, hematology/oncology fellows, and medical technologists in preparing for their board examination/certification.

Plant Biotechnology and Genetics - C. Neal Stewart, Jr. 2012-12-13

Designed to inform and inspire the next generation of plant biotechnologists Plant Biotechnology and Genetics explores contemporary techniques and applications of plant biotechnology, illustrating the tremendous potential this technology has to change our world by improving the food supply. As an introductory text, its focus is on basic science and processes. It guides students from plant biology and genetics to breeding to principles and applications of plant biotechnology. Next, the text examines the critical issues of patents and intellectual property and then tackles the many controversies and consumer concerns over transgenic plants. The final chapter of the book provides an expert forecast of the future of plant biotechnology. Each chapter has been written by one or more leading practitioners in the field and then carefully edited to ensure thoroughness and consistency. The chapters are organized so that each one progressively builds upon the previous chapters. Questions set forth in each chapter help students deepen their understanding and facilitate classroom

discussions. Inspirational autobiographical essays, written by pioneers and eminent scientists in the field today, are interspersed throughout the text. Authors explain how they became involved in the field and offer a personal perspective on their contributions and the future of the field. The text's accompanying CD-ROM offers full-color figures that can be used in classroom presentations with other teaching aids available online. This text is recommended for junior- and senior-level courses in plant biotechnology or plant genetics and for courses devoted to special topics at both the undergraduate and graduate levels. It is also an ideal reference for practitioners.

Molecular and Quantitative Animal Genetics

- Hasan Khatib 2015-03-02

Animal genetics is a foundational discipline in the fields of animal science, animal breeding, and veterinary sciences. While genetics underpins the healthy development and breeding of all living organisms, this is especially true in domestic animals, specifically with respect to breeding for key traits. *Molecular and Quantitative Animal Genetics* is a new textbook that takes an innovative approach, looking at both quantitative and molecular breeding approaches. The book provides a comprehensive introduction to genetic principles and their applications in animal breeding. This text provides a useful overview for those new to the field of animal genetics and breeding, covering a diverse array of topics ranging from population and quantitative genetics to epigenetics and biotechnology. *Molecular and Quantitative Animal Genetics* will be an important and invaluable educational resource for undergraduate and graduate students and animal agriculture professionals. Divided into six sections pairing fundamental principles with useful applications, the book's comprehensive coverage will make it an ideal fit for students studying animal breeding and genetics at any level.

Preparing for the Biology AP Exam - Fred W. Holtzclaw 2009-11-03

Key Benefit: Fred and Theresa Holtzclaw bring over 40 years of AP Biology teaching experience to this student manual. Drawing on their rich experience as readers and faculty consultants to the College Board and their participation on the

AP Test Development Committee, the Holtzclaws have designed their resource to help your students prepare for the AP Exam. * Completely revised to match the new 8th edition of *Biology* by Campbell and Reece. * New Must Know sections in each chapter focus student attention on major concepts. * Study tips, information organization ideas and misconception warnings are interwoven throughout. * New section reviewing the 12 required AP labs. * Sample practice exams. * The secret to success on the AP Biology exam is to understand what you must know—and these experienced AP teachers will guide your students toward top scores! Market Description: Intended for those interested in AP Biology.

Biological Science - Biological Sciences Curriculum Study 1995

Plant Evolution - Karl J. Niklas 2016-08-12

Although plants comprise more than 90% of all visible life, and land plants and algae collectively make up the most morphologically, physiologically, and ecologically diverse group of organisms on earth, books on evolution instead tend to focus on animals. This organismal bias has led to an incomplete and often erroneous understanding of evolutionary theory. Because plants grow and reproduce differently than animals, they have evolved differently, and generally accepted evolutionary views—as, for example, the standard models of speciation—often fail to hold when applied to them. Tapping such wide-ranging topics as genetics, gene regulatory networks, phenotype mapping, and multicellularity, as well as paleobotany, Karl J. Niklas's *Plant Evolution* offers fresh insight into these differences. Following up on his landmark book *The Evolutionary Biology of Plants*—in which he drew on cutting-edge computer simulations that used plants as models to illuminate key evolutionary theories—Niklas incorporates data from more than a decade of new research in the flourishing field of molecular biology, conveying not only why the study of evolution is so important, but also why the study of plants is essential to our understanding of evolutionary processes. Niklas shows us that investigating the intricacies of plant development, the diversification of early vascular land plants, and

larger patterns in plant evolution is not just a botanical pursuit: it is vital to our

comprehension of the history of all life on this green planet.