

CONCEPTS OF GENETICS

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**Lars-Anders Hansson, Susanne
Åkesson**



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Sm Concepts Genetics Klug,1997-07-01 *Sm Concepts Genetics Oht* KLUG,1997-01-01 Concepts of Genetics, 5th Ed Harry Nickla,Klug,William S. Klug,Michael R. Cummings,1996-12-01 **Evolutionary Genetics** Charles W. Fox,Jason B. Wolf,2006-04-27 Charles Fox and Jason Wolf have brought together leading researchers to produce a cutting edge primer introducing readers to the major concepts in modern evolutionary genetics This book spans the continuum of scale from studies of DNA sequence evolution through proteins and development to multivariate phenotypic evolution and the continuum of time from ancient events that lead to current species diversity to the rapid evolution seen over relatively short time scales in experimental evolution studies Chapters are accessible to an audience lacking extensive background in evolutionary genetics but also current and in depth enough to be of value to established researchers in evolution biology

Bioinformatics: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2013-03-31 Bioinformatics Concepts Methodologies Tools and Applications highlights the area of bioinformatics and its impact over the medical community with its innovations that change how we recognize and care for illnesses Provided by publisher **Mutating Concepts, Evolving Disciplines: Genetics, Medicine, and Society** L.S. Parker,Rachel A. Ankeny,2012-12-06 Advances in genetics such as the Human Genome Project s successful mapping of the human genome and the discovery of ever more sites of disease related mutations invite re examination of basic concepts underlying our fundamental social practices and institutions Having children assigning responsibility identifying causes using social and scientific resources to improve human well being among other concepts will never be the same Our concepts of moral and legal responsibility cause and effect disease prevention health disability enhancement personal identity and reproductive autonomy and responsibility are all subtly changing in response to developments in genetics Biology law medicine and other disciplines are also evolving in response to mutating concepts in genetics itself for example dominance causation behavior gene expression and gene The selections in this volume employ philosophical and historical perspectives to shed light on classic social ethical and philosophical issues raised with renewed urgency against the backdrop of the mapping of the human genome Respiratory Genetics Edwin Silverman,Scott Weiss,Steven Shapiro,David Lomas,2005-09-30 There has been a recent explosion of knowledge in the field of respiratory genetics This authoritative text brings together current knowledge in respiratory genetics in a single volume The book includes a comprehensive introductory section to provide guidance and aid understanding of key basic concepts in respiratory genetics including statistical methods sample collection bioinformatics and functional genomics This is followed by a series of disease specific chapters that review epidemiology natural history monogenic determinants complex disease components disease management and likely future developments Respiratory Genetics is an essential reference for pulmonologists translational researchers and clinical geneticists and the text will also be a useful library reference The Theory of Evolution Samuel M. Scheiner,David P. Mindell,2020-01-07

Darwin's nineteenth century writings laid the foundations for modern studies of evolution and theoretical developments in the mid twentieth century fostered the Modern Synthesis. Since that time a great deal of new biological knowledge has been generated including details of the genetic code, lateral gene transfer and developmental constraints. Our improved understanding of these and many other phenomena have been working their way into evolutionary theory, changing it and improving its correspondence with evolution in nature. And while the study of evolution is thriving both as a basic science to understand the world and in its applications in agriculture, medicine and public health, the broad scope of evolution operating across genes, whole organisms, clades and ecosystems presents a significant challenge for researchers seeking to integrate abundant new data and content into a general theory of evolution. This book gives us that framework and synthesis for the twenty first century. *The Theory of Evolution* presents a series of chapters by experts seeking this integration by addressing the current state of affairs across numerous fields within evolutionary biology ranging from biogeography to multilevel selection, speciation and macroevolutionary theory. By presenting current syntheses of evolution's theoretical foundations and their growth in light of new datasets and analyses, this collection will enhance future research and understanding.

Organism and Environment Sonia E. Sultan, 2015-09-10. Over the past decade, advances in both molecular developmental biology and evolutionary ecology have made possible a new understanding of organisms as dynamic systems interacting with their environments. This innovative book synthesizes a wealth of recent research findings to examine how environments influence phenotypic expression in individual organisms, ecological development or eco devo and how organisms in turn alter their environments, niche construction. A key argument explored throughout the book is that ecological interactions as well as natural selection are shaped by these dual organism-environment effects. This synthesis is particularly timely as biologists seek a unified contemporary framework in which to investigate the developmental outcomes, ecological success and evolutionary prospects of organisms in rapidly changing environments. *Organism and Environment* is an advanced text suitable for graduate level students taking seminar courses in ecology, evolution and developmental biology as well as academics and researchers in these fields. *Phenotypic Plasticity & Evolution* David W. Pfennig, 2021-05-31.

Phenotypic plasticity, the ability of an individual organism to alter its features in direct response to a change in its environment, is ubiquitous. Understanding how and why this phenomenon exists is crucial because it unites all levels of biological inquiry. This book brings together researchers who approach plasticity from diverse perspectives to explore new ideas and recent findings about the causes and consequences of plasticity. Contributors also discuss such controversial topics as how plasticity shapes ecological and evolutionary processes, whether specific plastic responses can be passed to offspring and whether plasticity has left an important imprint on the history of life. Importantly, each chapter highlights key questions for future research. Drawing on numerous studies of plasticity in natural populations of plants and animals, this book aims to foster greater appreciation for this important but frequently misunderstood phenomenon. **Key Features** Written in an

accessible style with numerous illustrations including many in color Reviews the history of the study of plasticity including Darwin's views Most chapters conclude with recommendations for future research

Keywords And Concepts In Evolutionary Developmental Biology Manorma Singh, 2007 Contents Sting Journalism Introduction Forms and Features Sting Journalism Ethics Methods and Hidden Cameras Sting Operations Current Perspective Famous Investigative Journalists and Scandals Sting Operations in Indian Perspectives

Keywords and Concepts in Evolutionary Developmental Biology Brian K. Hall, Wendy M. Olson, 2006-09 Covering more than 50 central terms and concepts in entries written by leading experts this book offers an overview of this new subdiscipline of biology providing the core insights and ideas that show how embryonic development relates to life history evolution adaptation and responses to and integration with environmental factors

The Concept of Race in Natural and Social Science E. Nathaniel Gates, 2014-05-01 Explores the concept of race The term race which originally denoted genealogical or class identity has in the comparatively brief span of 300 years taken on an entirely new meaning In the wake of the Enlightenment it came to be applied to social groups This ideological transformation coupled with a dogmatic insistence that the groups so designated were natural and not socially created gave birth to the modern notion of races as genetically distinct entities The results of this view were the encoding of race and racial hierarchies in law literature and culture How racial categories facilitate social control The articles in the series demonstrate that the classification of humans according to selected physical characteristics was an arbitrary decision that was not based on valid scientific method They also examine the impact of colonialism on the propagation of the concept and note that racial categorization is a powerful social force that is often used to promote the interests of dominant social groups Finally the collection surveys how laws based on race have been enacted around the world to deny power to minority groups A multidisciplinary resource This collection of outstanding articles brings multiple perspectives to bear on race theory and draws on a wider range of periodicals than even the largest library usually holds Even if all the articles were available on campus chances are that a student would have to track them down in several libraries and microfilm collections Providing of course that no journals were reserved for graduate students out for binding or simply missing This convenient set saves students substantial time and effort by making available all the key articles in one reliable source Authoritative commentary The series editor has put together a balanced selection of the most significant works accompanied by expert commentary A general introduction gives important background information and outlines fundamental issues current scholarship and scholarly controversies Introductions to individual volumes put the articles in context and draw attention to germinal ideas and major shifts in the field After reading the material even a beginning student will have an excellent grasp of the basics of the subject

The Concept of the Gene in Development and Evolution Peter J. Beurton, Raphael Falk, Hans-Jörg Rheinberger, 2000-05-29 Advances in molecular biological research in the latter half of the twentieth century have made the story of the gene vastly complicated the more we learn about genes the less sure we are of what a gene really is Knowledge

about the structure and functioning of genes abounds but the gene has also become curiously intangible This collection of essays renews the question what are genes Philosophers historians and working scientists re evaluate the question in this volume treating the gene as a focal point of interdisciplinary and international research It will be of interest to professionals and students in the philosophy and history of science genetics and molecular biology **The Core Concepts of Physiology** Joel Michael, William Cliff, Jenny McFarland, Harold Modell, Ann Wright, 2017-02-20 This book offers physiology teachers a new approach to teaching their subject that will lead to increased student understanding and retention of the most important ideas By integrating the core concepts of physiology into individual courses and across the entire curriculum it provides students with tools that will help them learn more easily and fully understand the physiology content they are asked to learn The authors present examples of how the core concepts can be used to teach individual topics design learning resources assess student understanding and structure a physiology curriculum **Making Sense of Evolution** Massimo Pigliucci, Jonathan Kaplan, 2010-02-15 Making Sense of Evolution explores contemporary evolutionary biology focusing on the elements of theories selection adaptation and species that are complex and open to multiple possible interpretations many of which are incompatible with one another and with other accepted practices in the discipline Particular experimental methods for example may demand one understanding of selection while the application of the same concept to another area of evolutionary biology could necessitate a very different definition Spotlighting these conceptual difficulties and presenting alternate theoretical interpretations that alleviate this incompatibility Massimo Pigliucci and Jonathan Kaplan intertwine scientific and philosophical analysis to produce a coherent picture of evolutionary biology Innovative and controversial Making Sense of Evolution encourages further development of the Modern Synthesis and outlines what might be necessary for the continued refinement of this evolving field **Surrogate-Based Modeling and Optimization** Slawomir Koziel, Leifur Leifsson, 2013-06-06 Contemporary engineering design is heavily based on computer simulations Accurate high fidelity simulations are used not only for design verification but even more importantly to adjust parameters of the system to have it meet given performance requirements Unfortunately accurate simulations are often computationally very expensive with evaluation times as long as hours or even days per design making design automation using conventional methods impractical These and other problems can be alleviated by the development and employment of so called surrogates that reliably represent the expensive simulation based model of the system or device of interest but they are much more reasonable and analytically tractable This volume features surrogate based modeling and optimization techniques and their applications for solving difficult and computationally expensive engineering design problems It begins by presenting the basic concepts and formulations of the surrogate based modeling and optimization paradigm and then discusses relevant modeling techniques optimization algorithms and design procedures as well as state of the art developments The chapters are self contained with basic concepts and formulations along with applications and examples The book will be useful to

researchers in engineering and mathematics in particular those who employ computationally heavy simulations in their design work

Pharmacogenomics Implementation: From Concept to Practice Miriam Saiz-Rodríguez ,Fatih M. Uckun,2024-07-10 The field of pharmacogenomics has experienced an unprecedented and exponential progress in recent years Several pharmacogenomic biomarkers have been identified that have clinical practical value for the effective management of multiple pathologic disorders Pharmacogenomic biomarkers sometimes help estimate the therapeutic window for specific patient populations and thereby help maximize patient safety Translation of preclinical research discoveries in this expanding field into meaningful clinical diagnostic and therapeutic advances especially in the context of precision medicine is a focal point of contemporary research efforts A better understanding of the genetic and epigenetic influencers of clinical responses to therapeutic agents is of paramount importance On one hand much remains to be deciphered and discovered through breakthrough research On the other hand existing information needs to be better disseminated to become part of the clinical decision process In addition there is a need for complementary health economics research to support the implementation of these validated biomarkers in routine clinical practice Ultimately these efforts are likely to improve treatment outcomes even in difficult to treat disease and provide the foundation for more effective personalized treatment strategies for a broad spectrum of illnesses

Animal Movement Across Scales Lars-Anders Hansson,Susanne Åkesson,2014 This study takes a broad and timely approach to animal movement across both temporal and spatial scales Movement and migration on land in the air and in water are pervading features of animal life from the smallest protozoans to the largest whales and can extend from millimetres to global scale Research into animal movement ecology is now entering a new era with the development of novel molecular electronic and technical methods that make it possible to analyse the movements of individual animals under complex environmental conditions that determine the evolution of movement habits

The Genetic Connection Lowell J. Ackerman,2011 The Genetic Connection is a complete guide to breed related medical problems in purebred dogs and cats Comprehensive but conveniently divided by body systems this book presents conditions by breed genetic testing availability and prevalence data as well as a new chapter dedicated to feline breed related genetic disorders From back cover

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