

Fisiologia Animal Hill Y Sistema

This long-awaited book about non-pollen palynomorphs (NPPs) aims to cover gaps in our knowledge of these abundant but understudied palynological remains. NPPs, such as fungal spores, testate amoebae, dinoflagellate cysts, acritarchs and animal remains, are routinely recovered from palynological preparations of marine or terrestrial material, from Proterozoic to recent geological times. This book gives the reader a comprehensive overview of the different types of NPPs, with examples from diverse time periods and environments. It provides guidance on sample preparation to maximize the recovery of these NPPs, detailed information on their diversity and ecological affinity, clarification on the nomenclature and demonstrates their value as environmental indicators. This volume will become the reference guide for any student, academic or practitioner interested in everything else in their palynological preparations.

Through 25 peer-reviewed essays, scholars from the United States and Mexico delve into the environmental, social, economic, and cultural-historical components of what we call an environmental and tourism paradise - the region of Los Cabos, Baja California Sur. This region is vulnerable precisely because of the strong development pressure generated mainly by the tourism sector. Los Cabos analyzes these problems as an opportunity to contribute to the sustainable development of the region. Also available in Spanish, see Los Cabos: Prospectiva de un Paraíso Natural y Turístico. Published by San Diego State University Press and Institute for Regional Studies of the Callornias

The new and updated edition of this accessible text provides a comprehensive overview of the comparative physiology of animals within an environmental context. Includes two brand new chapters on Nerves and Muscles and the Endocrine System. Discusses both comparative systems physiology and environmental physiology. Analyses and integrates problems and adaptations for each kind of environment: marine, seashore and estuary, freshwater, terrestrial and parasitic. Examines mechanisms and responses beyond physiology. Applies an evolutionary perspective to the analysis of environmental adaptation. Provides modern molecular biology insights into the mechanistic basis of adaptation, and takes the level of analysis beyond the cell to the membrane, enzyme and gene. Incorporates more varied material from a wide range of animal types, with less of a focus purely on terrestrial reptiles, birds and mammals and rather more about the spectacularly successful strategies of invertebrates. A companion site for this book with artwork for downloading is available at: www.blackwellpublishing.com/willmer/

Fisiología Animal

Fisiología animal comparada

Fisiología animal

The Oxford Handbook of Evolutionary Medicine

Biología funcional de los animales. Vol. 2. Una neurofisiología comparada

This broad and thought-provoking volume provides an overview of recent intellectual and scientific advances that bridge the gap between psychiatry and neuroscience, offering a wide range of penetrating insights in both disciplines. The third volume on the topic in the last several years from a varying panel of international experts, this title identifies the borders, trends and implications in both fields today and goes beyond that into related disciplines to seek out connections and influences. Similar to its two Update book predecessors, Psychiatry and Neuroscience – Volume III presents the current state-of-the-art in the main disciplines – psychiatry and neuroscience – and attempts to provide deeper comprehension or explication of the normal and diseased human mind, its biological correlates and its biographical and existential implications. This engaging volume continues the previous style of exploring different disciplines and trying to integrate disciplinary evidence from varying points of view in an organic manner. Developed for clinicians and researchers in the fields of medicine, psychiatry, psychology and biology, this third volume also will be of great interest to students and university professors of diverse disciplines.

Published by Sinauer Associates, an imprint of Oxford University Press.

Medicine is grounded in the natural sciences, among which biology stands out with regard to the understanding of human physiology and conditions that cause dysfunction. Ironically though, evolutionary biology is a relatively disregarded field. One reason for this omission is that evolution is deemed a slow process. Indeed, macroanatomical features of our species have changed very little in the last 300,000 years. A more detailed look, however, reveals that novel ecological contingencies, partly in relation to cultural evolution, have brought about subtle changes pertaining to metabolism and immunology, including adaptations to dietary innovations, as well as adaptations to the exposure to novel pathogens. Rapid pathogen evolution and evolution of cancer cells cause major problems for the immune system to find adequate responses. In addition, many adaptations to past ecologies have turned into risk factors for somatic disease and psychological disorder in our modern worlds (i.e. mismatch), among which epidemics of autoimmune diseases, cardiovascular diseases, diabetes and obesity, as well as several forms of cancer stand out. In addition, depression, anxiety and other psychiatric conditions add to the list. The Oxford Handbook of Evolutionary Medicine is a compilation of cutting edge insights into the evolutionary history of ourselves as a species, and how and why our evolved design may convey vulnerability to disease. Written in a classic textbook style emphasising physiology and pathophysiology of all major organ systems, the Oxford Handbook of Evolutionary Medicine will be valuable for students as well as scholars in the fields of medicine, biology, anthropology and psychology.

Biología funcional de los animales I/ Functional Biology of Animals I

Functional Anatomy and Physiology of Domestic Animals

Biology

Manual de clases prácticas de fisiología animal

Manual de prácticas de fisiología animal veterinaria

La enseñanza de la Fisiología Animal en las Facultades de Biología suele presentar el problema de que, aunque existen numerosos y excelentes textos traducidos, el alumno necesita utilizar al menos dos, uno de Fisiología Humana y otro de Fisiología Comparada. El presente manual no puede ser sustitutorio de una Fisiología comparada, pero sí un buen complemento de un texto de Fisiología Humana, introduciendo algunos materiales generalmente ausentes de los textos de Fisiología Comparada, hallazgos recientes aún incorporados a los mismos datos correspondientes al área de Biología Comparada. En efecto, la fusión entre Fisiología y Bioquímica Animal se hace cada vez más inevitable cuando se habla de adaptación, especialmente con los avances cada vez más rápidos en nuestra comprensión del inmenso mundo de los animales ectotermos. Pero, por encima de todo, el trabajo del autor constituye un ensayo sobre la contribución que la Fisiología puede hacer a la comprensión del gran fenómeno biológico que es el hecho evolutivo. Una crítica del antropocentrismo biológico, afirmandose correlativamente el principio científico de objetividad de la naturaleza, y una invitación a la polémica entre pensadores, tanto de ramas científicas como del campo de las humanidades.

In creatures as different as crickets and scorpions, mole rats and elephants, there exists an overlooked channel of communication: signals transmitted as vibrations through a solid substrate. Peggy Hill summarizes a generation of groundbreaking work by scientists around the world on this long understudied form of animal communication. Beginning in the 1970s, Hill explains, powerful computers and listening devices allowed scientists to record and interpret vibrational signals. Whether the medium is the snubbed savannah or the stem of a plant, vibrations can be passed along from an animal to a potential mate, or intercepted by a predator on the prowl. Vibration appears to be an ancient means of communication, widespread in both invertebrate and vertebrate taxa. Hill synthesizes in this book a flowering of research, field studies documenting vibrational signals in the wild, and the laboratory experiments that answered such questions as what adaptations allowed animals to send and receive signals, how they use signals in different contexts, and how vibration as a channel might have evolved. Vibrational Communication in Animals promises to become a foundational text for the next generation of researchers putting an ear to the ground.

This book contains the proceedings of the International Symposium on the Mechanisms of Sexual Reproduction in Animals and Plants, where many plant and animal reproductive biologists gathered to discuss their recent progress in investigating the shared mechanisms and factors involved in sexual reproduction. This now is the first book that reviews recent progress in almost all fields of plant and animal fertilization. It was recently reported that the self-sterile mechanism of a hermaphroditic marine invertebrate (ascidian) is very similar to the self-incompatibility system in flowering plants. It was also found that a male factor expressed in the sperm cells of flowering plants is involved in gamete fusion not only of plants but also of animals and parasites. These discoveries have led to the consideration that the core mechanisms or factors involved in sexual reproduction may be shared by animals, plants and unicellular organisms. This valuable book is highly useful for reproductive biologists as well as for biological scientists outside this field in understanding the current progress of reproductive biology.

Life on Earth

Environmental Physiology of Animals

Colombia

Life on Earth with Physiology

Cunningham, Fisiología Veterinaria

Biología funcional de los animales tiene el objeto de ofrecer un panorama introductorio de fisiología general y comparada en un contexto ambiental. En este libro se estudian tanto aspectos actuales de fisiología celular como mecanismos de regulación y control con un nivel de complejidad organístico, además de las relaciones de los organismos con el medio ambiente (osmorregularización y temperatura): se resumen y actualizan también los conceptos clásicos de homeostasis y control.

Known for its clear presentation style, single-author voice, and focus on content most relevant to clinical and pre-clinical students, Guyton and Hall Textbook of Medical Physiology, 14th Edition, employs a distinctive format to ensure maximum learning and retention of

complex concepts. A larger font size emphasizes core information, while supporting information, including clinical examples, are detailed in smaller font and highlighted in pale blue – making it easy to quickly skim the essential text or pursue more in-depth study. This two-tone approach, along with other outstanding features, makes this bestselling text a favorite of students worldwide. Offers a clinically oriented perspective written with the clinical and preclinical student in mind, bridging basic physiology with pathophysiology. Focuses on core material and how the body maintains homeostasis to remain healthy, emphasizing the important principles that will aid in later clinical decision making. Presents information in short chapters using a concise, readable voice that facilitates learning and retention. Contains more than 1,200 full-color drawings and diagrams – all carefully crafted to make physiology easier to understand. Features expanded clinical coverage including obesity, metabolic and cardiovascular disorders, Alzheimer’s disease, and other degenerative diseases. Includes online access to interactive figures, new audio of heart sounds, animations, self-assessment questions, and more. Evolve Instructor site with an image and test bank is available to instructors through their Elsevier sales rep or via request at https://evolve.elsevier.com.

Um livro-texto é, principalmente, um modo de comunicar aos leitores os paradigmas de seu tempo. Foi com essa visão que Fisiologia animal, 2ª edição, foi elaborado: para descrever os principais paradigmas da área, reunir informações importantes sobre os sistemas fisiológicos e os conceitos mais importantes, além de contemplar as bases necessárias para que novos paradigmas sejam criados.

from Palaeoenvironmental Reconstructions to Biostratigraphy

Animal Physiology

Fisiología animal y evolución

The Unity of Form and Function

From Translational Research to a Humanistic Approach - Volume III

Este libro es una introducción básica para aquellos aspectos de la fisiología animal comparada que se apoyan particularmente en las interrelaciones fisiológicas entre los animales y su ambiente. Los atributos fisiológicos de los animales son discutidos en vistas a su significación en el teatro ecológico y se ha hecho énfasis en la perspectiva evolucionista ya que es la interacción histórica entre el animal y el ambiente la que ha condicionado la forma y la Fisiología de las especies modernas.

Este libro se ofrece como un texto esquemático y organizado, con gran profusión de ilustraciones que permiten la fijación visual del contenido. Se caracteriza por una imagen actual y sintética de los mecanismos generales, del funcionamiento y de la regulación y control de los sistemas fisiológicos. Los temas se plantean con un enfoque comparado e integrador, presentando los problemas fisiocquímicos básicos a los cuales se enfrentan los animales y las diferentes soluciones funcionales que desarrollan. Se toma en consideración una visión integral de los sistemas fisiológicos, bajo la perspectiva de la teoría general de sistemas y se analizan sus interrelaciones. Este texto está orientado a alumnos universitarios de Fisiología y puede ser de utilidad para quienes estén interesados en conocer las bases fisiológicas de la función animal.

Fisiología animal comparadaFeverle

Scientific Institutions and Scientists in Latin America. Colombia

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Bacterial Physiology and Metabolism

Strange Blood

Guyton and Hall Textbook of Medical Physiology E-Book

In the mid-1870s, the experimental therapy of lamb blood transfusion spread like an epidemic across Europe and the USA. Doctors tried it as a cure for tuberculosis, pellagra and anemia; proposed it as a means to reanimate seemingly dead soldiers on the battlefield. It was a contested therapy because it meant crossing boundaries and challenging taboos. Was the transfusion of lamb blood into desperately sick humans really defensible? The book takes the reader on a journey into hospital wards and lunatic asylums, physiological laboratories and 19th century wars. It presents a fascinating story of medical knowledge, ambitions and concerns - a story that provides lessons for current debates on the morality of medical experimentation and care.

This introductory text has been revised to reflect the changing dynamics of introductory biology. Emphasizing concepts over facts, it presents the dynamic processes at work in biology.

"Comprehensive, contemporary, and engaging, Animal Physiology provides evolutionary and ecological context to help students make connections across all levels of physiological scale"--

Williams Textbook of Endocrinology

Mechanisms and Adaptations

Vibrational Communication in Animals

Sexual Reproduction in Animals and Plants

Recent determination of genome sequences for a wide range of bacteria has made in-depth knowledge of prokaryotic metabolic function essential in order to give biochemical, physiological, and ecological meaning to the genomic information. Clearly describing the important metabolic processes that occur in prokaryotes under different conditions and in different environments, this advanced text roles in the environment, biotechnology, and human health. Prokaryotic structure is described as well as the means by which nutrients are transported into cells across membranes. Glucose metabolism through glycolysis and the TCA cycle are discussed, as well as other trophic variations found in prokaryotes, including the use of organic compounds, anaerobic fermentation, anaerobic respiratory control of gene expression and control of the activity of enzymes is also covered, as well as survival mechanisms used under starvation conditions.

This state-of-the-art, tenth edition of endocrinology's classic text bridges the gap between basic science and endocrinology clinical practice. Thoroughly revised and updated, it includes new material on the thyroid and diabetes mellitus to reflect today's explosive increase in knowledge. Written by an outstanding team of authorities, the 10th edition features numerous new authors who provide the latest information and up-to-date format. Contributors are at the forefronts of their disciplines. Serves as a bridge between basic science and clinical endocrinology. Diabetes mellitus and its complications has been greatly expanded and now includes 3 separate chapters. 4 new chapters. Two new editors provide a fresh perspective on the material. Figures have been added to the Diabetes Mellitus chapters. Much of the art abstracts is available through Medline. With over 70 expert contributors.

El libro ayuda a conocer las funciones normales del cuerpo, estables para una práctica veterinaria satisfactoria, y los mecanismos de las enfermedades. Aborda esta amplia especialidad de una forma práctica y asequible, que ayuda a comprender el modo en el que los conceptos clave de la fisiología se relacionan con la práctica clínica. La presente edición incorpora nuevos colaboradores que aportan casos clínicoscon ejemplos de cómo aplicar los principios y conceptos fisiológicos al diagnóstico y el tratamiento de los pacientes veterinarios. Asimismo, las preguntas prácticas al final de cada capítulo evalúan la comprensión de lo que se ha leído y son un método útil para repasar con vistas a los exámenes. Cuenta con contenido online en inglés accesible a través de Evolve como las animaciones de aprendizaje con la presentación visual de funciones y enfermedades.

Fisiología animal aplicada

Los Cabos

Fundamentos físicos de los procesos biológicos. Volumen II

Brain Aging and Therapeutic Interventions

Biología funcional de los animales

This book brings together most up-to-date information on different aspects of brain aging and on the strategies for intervention and therapy of age-related brain disorders. It includes 18 chapters by leading researchers, and each chapter is a comprehensive and critical review of the topic in question, discusses the current scenario and focuses on future perspectives. The target readership is the undergraduate and graduate students in the universities, in medical and nursing colleges, along with the post-graduate researchers and practicing clinicians who would like to know about the latest developments in the field of neurodegenerative disorders and their therapeutic interventions. This book will be of much interest to pharmaceutical, nutrition and healthcare industry for an easy access to accurate and reliable information in the field of aging research and intervention.

Now in its Fifth Edition, Functional Anatomy and Physiology of Domestic Animals provides a basic understanding of domestic animal anatomy and physiology, taking an interconnected approach to structure and function of the horse, dog, cat, cow, sheep, goat, pig, and chicken. Offers a readable introduction to basic knowledge in domestic animal anatomy and physiology Covers equine, canine, feline, bovine, ovine, ruminant, swine, and poultry anatomy and physiology Considers structure and function in relation to each other for a full understanding of the relationship between the two Provides pedagogical tools to promote learning, including chapter outlines, study questions, self-evaluation exercises, clinical correlates, key terms, suggested readings, and a robust art program Includes access to a companion website with video clips, review questions, and the figures from the book in PowerPoint

Fundamentos físicos de los procesos biológicos es, como su nombre indica, un texto que desarrolla la fundamentación física de los procesos que se desarrollan en el seno de los organismos vivientes y en los intercambios de éstos con su entorno. Está concebido para servir como libro de texto para estudiantes de primeros cursos de las licenciaturas de ciencias de la vida y de la salud. El nivel de la exposición está graduado para que ésta pueda ser entendida aún cuando se carezca de cualquier conocimiento previo de Física, por lo que todas las nociones que es preciso manejar son definidas y analizadas progresivamente en el libro. El texto reúne un conjunto de conocimientos que se encuentran muy dispersos en la literatura disponible, de forma que pueda adaptarse a la distinta duración de los cursos en que aparecen estos contenidos, así como a las peculiaridades propias de cada universidad y titulación. La extensión del libro permite que el profesor seleccione los temas que considere más aconsejables para su programa. Pretende también este texto seguir siendo útil como libro de consulta a lo largo de todo el periodo de formación universitaria para aclarar las bases físicas de gran parte de la actividad de los seres vivos. El contenido está organizado en 23 capítulos, distribuidos en tres volúmenes, que incluyen numerosos ejemplos junto con unos 250 ejercicios propuestos, orientados a facilitar el trabajo personal del estudiante. Está acompañado de más de 500 ilustraciones y 6 apéndices en los que se resumen las diversas fórmulas y técnicas matemáticas que se emplean en el texto. El Volumen 2.- Calor y dinámica de fluidos en los seres vivos, reúne los capítulos relacionados con la termodinámica y física de fluidos, incluyendo, entre otros, conceptos tales como temperatura y los mecanismos de regulación, el balance energético en los seres vivos o las propiedades de los fluidos ideales y viscosos, disoluciones, fenómenos de transporte y presión osmótica y las propiedades de los biomateriales. Por lo que se refiere a los autores, estos acreditan una larga experiencia como profesores de la disciplina en la Universidad Autónoma de Madrid, enriquecida con la generosa colaboración y las sugerencias de los profesores de Biología y Medicina de su universidad.

Textbook of Veterinary Physiology

Anatomy & Physiology

Boletim de fisiologia animal

Applications of Non-Pollen Palynomorphs

Fisiología Animal - 2.ed.

This well-illustrated, authoritative text introduces students to the principles and concepts of physiology that are essential to the study and practice of veterinary medicine. Coverage of physiopathology, in addition to clinical problem-solving techniques, makes this resource uniquely relevant to practice. Clinical correlation boxes in each chapter include history and background information on topics in physiology. Cases present realistic situations that show theory in practice and reinforce students' understanding of each topic. The organization by body system follows a logical progression and makes it easy to refer to specific information.

Known for its thorough coverage of diversity, animal physiology, ecology, and environmental issues, this comprehensive book engages students in asking and answering questions during the course. Biology: Life on Earth helps instructors and students manage a wealth of scientific information in a manner that is both meaningful and long-lasting for students. The authors encourage students to learn according to their own stle, and to relate this information to their own lives. In each chapter, the Eighth Edition of this trusted biology resource features significant content revisions as well as new figures and photographs.

ANATOMY AND PHYSIOLOGY

Psychiatry and Neuroscience Update

The Rise and Fall of Lamb Blood Transfusion in 19th Century Medicine and Beyond