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KEY=LAB - LISA RHYS

Primate Ecology and Conservation Oxford University Press Primates, our closest relatives in the animal kingdom, have always captured the curiosity and attention of scientific researchers. Their close relationship to us makes them fascinating, and it has forced us to pay attention as primate populations around the world are increasingly threatened with extinction, often due to our own actions. This book synthesizes state-of-the-art techniques for researchers studying primates to understand primate ecology, or their relationships to each other and to the environment, and to use that information to conserve primate populations and reduce their threat of extinction. Sourcebook of Models for Biomedical Research Springer Science & Business Media The collection of systems represented in this volume is a unique effort to reflect the diversity and utility of models used in biomedicine. That utility is based on the consideration that observations made in particular organisms will provide insight into the workings of other, more complex systems. This volume is therefore a comprehensive and extensive collection of these important medical parallels. Teaching About Evolution and the Nature of Science National Academies Press Today many school students are shielded from one of the most important concepts in modern science: evolution. In engaging and conversational style, Teaching About Evolution and the Nature of Science provides a well-structured framework for understanding and teaching evolution. Written for teachers, parents, and community officials as well as scientists and educators, this book describes how evolution reveals both the great diversity and similarity among the Earth's organisms; it explores how scientists approach the question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In addition, the book provides answers to frequently asked questions to help readers understand many of the issues and misconceptions about evolution. The book includes sample activities for teaching about evolution and the nature of science. For example, the book includes activities that investigate fossil footprints and population growth that teachers of science can use to introduce principles of evolution. Background information, materials, and step-by-step presentations are provided for each activity. In addition, this volume: Presents the evidence for evolution, including how evolution can be observed today. Explains the nature of science through a variety of examples. Describes how science differs from other human endeavors and why evolution is one of the best avenues for helping students understand this distinction. Answers frequently asked questions about evolution. Teaching About Evolution and the Nature of Science builds on the 1996 National Science Education Standards released by the National Research Council and offers detailed guidance on how to evaluate and choose instructional materials that support the standards. Comprehensive and practical, this book brings one of today's educational challenges into focus in a balanced and reasoned discussion. It will be of special interest to teachers of science, school administrators, and interested members of the community. The Neocortex MIT Press Experts review the latest research on the neocortex and consider potential directions for future research. Over the past decade, technological advances have dramatically increased information on the structural and functional organization of the brain, especially the cerebral cortex. This explosion of data has radically expanded our ability to characterize neural circuits and intervene at increasingly higher resolutions, but it is unclear how this has informed our understanding of underlying mechanisms and processes. In search of a conceptual framework to guide future research, leading researchers address in this volume the evolution and ontogenetic development of cortical structures, the cortical connectome, and functional properties of neuronal circuits and populations. They explore what constitutes "uniquely human" mental capacities and whether neural solutions and computations can be shared across species or repurposed for potentially uniquely human capacities. Contributors Danielle S. Bassett, Randy M. Bruno, Elizabeth A. Buffalo, Michael E. Coulter, Hermann Cuntz, Stanislas Dehaene, James J. DiCarlo, Pascal Fries, Karl J. Friston, Asif A. Ghazanfar, Anne-Lise Giraud, Joshua I. Gold, Scott T. Grafton, Jennifer M. Groh, Elizabeth A. Grove, Saskia Haegens, Kenneth D. Harris, Kristen M. Harris, Nicholas G. Hatsopoulos, Tarik F. Haydar, Takao K. Hensch, Wieland B. Huttner, Matthias Kaschube, Gilles Laurent, David A. Leopold, Johannes Leugering, Belen Lorente-Galdos, Jason N. MacLean, David A. McCormick, Lucia Melloni, Anish Mitra, Zoltán Molnár, Sydney K. Muchnik, Pascal Nieters, Marcel Oberlaender, Bijan Pesaran, Christopher I. Petkov, Gordon Pipa, David Poeppel, Marcus E. Raichle, Pasko Rakic, John H. Reynolds, Ryan V. Raut, John L. Rubenstein, Andrew B. Schwartz, Terrence J. Sejnowski, Nenad Sestan, Debra L. Silver, Wolf Singer, Peter L. Strick, Michael P. Stryker, Mriganka Sur, Mary Elizabeth Sutherland, Maria Antonietta Tosches, William A. Tyler, Martin Vinck, Christopher A. Walsh, Perry Zurn Prentice Hall Science Evolution Change Over Time Primate Politics SIU Press The first book to focus on the political behavior of primates also undertakes to compare human social behavior with that of nonhuman primates. The editors contribute probing introductory essays to each of the three major parts of the volume in addition to their article-length introductory and concluding chapters. In his conclusion, Masters indicates directions for future work. Part I is devoted to theoretical clarification of the interrelationships between the study of primates and humans. Part II presents two examples of comparisons between animal and human social behavior that throw valuable light on contemporary political and social systems. Part III focuses more precisely on contemporary human politics, providing two concrete examples of ethological perspectives on human political behavior. In both cases, nonverbal cues studied by primatologists are shown to illuminate the dynamics of human politics. Contributors include: Nicholas G. Blurton-Jones, Frans B. M. de Waal, Basil G. Englis, Jane Goodall, Bruno Latour, Roger D. Masters, Gregory J. McHugo, Elise F. Plate, Thelma E. Rowell, Glendon Schubert, James N. Schubert, Shirley S. Strum, and Denis G. Sullivan. Bulletin of the Atomic Scientists The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world. Evolutionary Cell Processes in Primates "This is the second book in a two-volume series focused on cell processes in the evolution of primate characteristics"--Preface (volume 2). Excel Science Study Guide Years 9-10 Pascal Press The book contains: coverage of five major topic areas in the NSW School Certificate test Energy, Force and Motion Atoms, Elements and Compounds Structure and Function of Living Things Earth and Space Ecosystems, Resources and Technology a chapter on Investigations and Problem Solving in Science to help with practical skills revision questions and chapter tests to help you remember important information a glossary and summary in each section of the book diagrams and illustrations to help your understanding a section to help you prepare for the School Certificate test a sample School Certificate test paper with answers answers to all questions Guide for the Care and Use of Laboratory Animals Eighth Edition National Academies Press A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates. Campbell Biology Australian and New Zealand Edition Pearson Higher Education AU Over nine successful editions, CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook. The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline. It is the only biology text and media product that helps students to make connections across different core topics in biology, between text and visuals, between global and Australian/New Zealand biology, and from scientific study to the real world. The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative, superior pedagogy, and innovative use of art and photos to promote student learning. It continues to engage students with its dynamic coverage of the essential elements of this critical discipline. This Tenth Edition, with an increased focus on evolution, ensures students receive the most up-to-date, accurate and relevant information. Giant Pandas Biology and Conservation Univ of California Press Combines the latest findings from the field and the laboratory with panel and workshop summaries from a recent international conference. Experimental Population Genetics Primate Ethnographies Routledge Applies an ethnographic perspective to the study of primates Primate Ethnographies, 1/e is a collection of first-person accounts of immersive field studies of primates, people, and institutions, revealing the wide spectrum of primate science (primatology). Essays cover such primates as lemurs, New World monkeys, Old World monkeys, and apes. Readers experience the excitement of discovery and the challenges of primate field research. Primate Ethnographies can be used as a textbook or a companion reader. Kinship and Behavior in Primates Oxford University Press on Demand Annotation This book presents a series of review chapters on the various aspects of primate kinship and behavior. The relatively new molecular data allow one to assess directly degrees of genetic relatedness and kinship relations between individuals. A considerable body of data on intergroup variation, based on experimental studies in both free-ranging and captive groups has accumulated. This allows a full and satisfying reconsideration of this broad area of research. Automated and Semi-automated Systems in Clinical Chemistry Studying Primates How to Design, Conduct and Report Primatological Research Cambridge University Press The essential guide to successfully designing, conducting and reporting primatological research. Five Questions: Answers to Life's Greatest Mysteries eBookIt.com Five

Questions attempts to answer some of life's most basic and profound philosophic questions utilizing a holistic approach. The book offers the perspective that while individuals have attempted to answer these questions from a religious, philosophic, cultural or scientific perspective; the only hope at a more complete answer would arise from an integration of ideas from each of these areas. The five key questions are: Where did we come from? Does God exist and what is His nature? Does man have a soul which transcends death? Why do pain suffering and evil exist? What is the meaning of life? The Chosen Species The Long March of Human Evolution John Wiley & Sons This engaging book tells the story of human evolution, asking if man is indeed the "chosen species" or merely an evolutionary accident. Written by world-renowned paleoanthropologists who are co-directors of the excavations at Atapuerca---a World Heritage Site and Europe's oldest known burial site---where a new human species, homo antecessor, was discovered Discusses various hypotheses of human evolution, drawing conclusions from verifiable facts and well-founded argument Offers a compelling narrative written for nonspecialists and students of human evolution Includes over 60 illustrations Sold over 100,000 copies in the original Spanish-language edition Sataloff's Comprehensive Textbook of Otolaryngology: Head & Neck Surgery Laryngology JP Medical Ltd Sataloff's Comprehensive Textbook of Otolaryngology: Head & Neck Surgery - Laryngology is part of a multi-volume textbook covering basic and clinical science across the entire field of otolaryngology. Volumes in the set include; otology, neurotology and skull-based surgery; rhinology, allergy and immunology; facial plastic and reconstructive surgery; head and neck surgery; and paediatric otolaryngology. The full set is enhanced by over 5000 full colour images and illustrations, spanning nearly 6000 pages, complete with a comprehensive index on DVD. Edited by Robert T Sataloff from Drexel University College of Medicine, Philadelphia, this volume includes contributions from internationally recognised experts in otolaryngology, ensuring authoritative content throughout. Sataloff's Comprehensive Textbook of Otolaryngology: Head & Neck Surgery - Laryngology is an indispensable, in-depth guide to the field for all otolaryngology practitioners. Key Points Textbook of laryngology, part of six-volume set covering the entire field of otolaryngology Volumes include otology/neurotology, rhinology, plastic surgery, head and neck surgery, and paediatric otolaryngology Over 5000 full colour images and illustrations across six volumes Edited by Robert T Sataloff, with contributions from internationally recognised otolaryngology experts Opportunities in Biology National Academies Biology has entered an era in which interdisciplinary cooperation is at an all-time high, practical applications follow basic discoveries more quickly than ever before, and new technologiesâ€"recombinant DNA, scanning tunneling microscopes, and moreâ€"are revolutionizing the way science is conducted. The potential for scientific breakthroughs with significant implications for society has never been greater. Opportunities in Biology reports on the state of the new biology, taking a detailed look at the disciplines of biology; examining the advances made in medicine, agriculture, and other fields; and pointing out promising research opportunities. Authored by an expert panel representing a variety of viewpoints, this volume also offers recommendations on how to meet the infrastructure needsâ€"for funding, effective information systems, and other supportâ€"of future biology research. Exploring what has been accomplished and what is on the horizon, Opportunities in Biology is an indispensable resource for students, teachers, and researchers in all subdisciplines of biology as well as for research administrators and those in funding agencies. Annals of the New York Academy of Sciences Popular Mechanics Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. Human Brain Evolution The Influence of Freshwater and Marine Food Resources John Wiley & Sons The evolution of the human brain and cognitive ability is one of the central themes of physical/biological anthropology. This book discusses the emergence of human cognition at a conceptual level, describing it as a process of long adaptive stasis interrupted by short periods of cognitive advance. These advances were not linear and directed, but were acquired indirectly as part of changing human behaviors, in other words through the process of exaptation (acquisition of a function for which it was not originally selected). Based on studies of the modern human brain, certain prerequisites were needed for the development of the early brain and associated cognitive advances. This book documents the energy and nutrient constraints of the modern brain, highlighting the significant role of long-chain polyunsaturated fatty acids (LC-PUFA) in brain development and maintenance. Crawford provides further emphasis for the role of essential fatty acids, in particular DHA, in brain development, by discussing the evolution of the eye and neural systems. This is an ideal book for Graduate students, post docs, research scientists in Physical/Biological Anthropology, Human Biology, Archaeology, Nutrition, Cognitive Science, Neurosciences. It is also an excellent selection for a grad student discussion seminar. Lysozyme Evolution in Old World Monkeys Life Science, Grades 6-7 Prentice Hall Evolution as a Process The evolutionary process; The evolution of metazoa; The evolution of tropical forest; Allaesthetic selection and its evolutionary aspects; Evolution and bird sociality; Retrospect of the criticisms of the theory of natural selection; Problems in the evolution of geographical races; The statics of evolution; Escape from specialization; The evolution of reproductive rates. The Evolutionary Biology of Hearing Springer Science & Business Media To develop a science of hearing that is intellectual The five-day conference was held at the Mote ally satisfying we must first integrate the diverse, Marine Laboratory in Sarasota, Florida, May - extensive body of comparative research into an 24, 1990. The invited participants came from the evolutionary context. The need for this integra fields of comparative anatomy, physiology, biophys tion, and a conceptual framework in which it could ics, animal behavior, psychophysics, evolutionary be structured, were demonstrated in landmark biology, ontogeny, and paleontology. Before the papers by van Bergeijk in 1967 and Wever in 1974. conference, preliminary manuscripts of the invited However, not since 1965, when the American papers were distributed to all participants. This facilitated - even encouraged - discussions through Society of Zoologists sponsored an evolutionary conference entitled "The Vertebrate Ear;' has there out the conference which could be called, among other things, "lively. " The preview of papers, along been a group effort to assemble and organize our current knowledge on the evolutionary-as with the free exchange of information and opinion, opposed to comparative-biology of hearing. also helped improve the quality and consistency of In the quarter century since that conference the final manuscripts included in this volume. there have been major changes in evolution In addition to the invited papers, several studies concepts (e. g. , punctuated equilibrium), in sys were presented as posters during evening sessions. The Paleontology of Gran Barranca Evolution and Environmental Change Through the Middle Cenozoic of Patagonia Cambridge University Press A wealth of new information on the diversity, evolution and geochronology of the uniquely complete fossil record of Gran Barranca. Encyclopedia of Microbiology: D-L V.1. A-C. v.2. D-L. v.3. M-R. v.4. S-Z, Index. Encyclopedia of Microbiology The Evolution of Social Communication in Primates A Multidisciplinary Approach Springer How did social communication evolve in primates? In this volume, primatologists, linguists, anthropologists, cognitive scientists and philosophers of science systematically analyze how their specific disciplines demarcate the research questions and methodologies involved in the study of the evolutionary origins of social communication in primates in general and in humans in particular. In the first part of the book, historians and philosophers of science address how the epistemological frameworks associated with primate communication and language evolution studies have changed over time and how these conceptual changes affect our current studies on the subject matter. In the second part, scholars provide cutting-edge insights into the various means through which primates communicate socially in both natural and experimental settings. They examine the behavioral building blocks by which primates communicate and they analyze what the cognitive requirements are for displaying communicative acts. Chapters highlight cross-fostering and language experiments with primates, primate mother-infant communication, the display of emotions and expressions, manual gestures and vocal signals, joint attention, intentionality and theory of mind. The primary focus of the third part is on how these various types of communicative behavior possibly evolved and how they can be understood as evolutionary precursors to human language. Leading scholars analyze how both manual and vocal gestures gave way to mimetic and imitational protolanguage and how the latter possibly transitioned into human language. In the final part, we turn to the hominin lineage, and anthropologists, archeologists and linguists investigate what the necessary neurocognitive, anatomical and behavioral features are in order for human language to evolve and how language differs from other forms of primate communication. Conceptions of Development Lessons from the Laboratory Psychology Press First published in 2002. Routledge is an imprint of Taylor & Francis, an informa company. Menstruation Origin and Evolutionary Significance Toward a National Policy on Aging Proceedings Conference findings and recommendations from the sections and special concerns sessions Avian Brood Parasitism Behaviour, Ecology, Evolution and Coevolution Springer Brood parasitism has become one of the most flourishing areas of research in evolutionary ecology and one of the best model systems for investigating coevolution. This subject has undergone remarkable advances during the last two decades, but has not been covered by any book in the 21st century. This book offers a comprehensive and up-to-date overview of the fascinating field of avian brood parasitism. The topics covered include conspecific brood parasitism; evolution and phylogenetic history of avian brood parasites; parasitic behaviour used by brood parasites; adaptations and counter-adaptations of brood parasites and their hosts at every stage of the breeding cycle (before laying, egg, chick and fledgling stages); factors affecting the evolution of host defences and parasitic attacks; the role of phenotypic plasticity in host defences; mechanisms driving egg recognition and rejection; evolution of nest sharing or nest killing by brood parasite chicks; begging behaviour in parasitized nests and food delivery by host adults; and recognition of conspecifics by juvenile brood parasites. This volume provides a comprehensive reference resource for readers and researchers with an interest in birds, behaviour and evolution, as well as a source of hypotheses and predictions for future investigations into this dynamic subject. Neuroaesthetics Routledge The beginning of psychological aesthetics is normally traced back to the publication of Gustav Theodor Fechner's seminal book "Vorschule der Aesthetik" in 1876. Following in the footsteps of this rich tradition, editors Martin Skov and Oshin Vartanian view neuroaesthetics - the emerging field of inquiry concerned with uncovering the ways in which aesthetic behavior is caused by brain processes - as a natural extension of Fechner's 'empirical spirit' to understand the link between the objective and subjective worlds inherent in aesthetic experience. The editors had two specific aims for this book. The first was to highlight the diversity of approaches that are underway under the banner of neuroaesthetics. Currently, this topic is being investigated from experimental, evolutionary, neuropsychological, and neuroimaging perspectives to tackle problems in the visual arts, literature, music, and film. Its quintessentially interdisciplinary nature has functioned as a breeding ground for generating and testing hypotheses in multiple domains. The second goal was more integrative and involved distilling some of the key features common to these diverse strands of work. The book presents a possible framework for neuroaesthetics by highlighting what the contributors consider to be its defining features and offering a working definition of neuroaesthetics that captures these features. "Neuroaesthetics" will provide an empirical and theoretical framework to motivate further work in this area. Ultimately, the hope is that puzzles in aesthetics can be solved through insights from biology, but that the contribution can be truly bidirectional. Encyclopedia of the Neurological Sciences Academic Press The Encyclopedia of the Neurological Sciences, Second Edition develops from the first edition, covering all areas of neurological sciences through over 1000 entries focused on a wide variety of topics in neurology, neurosurgery, psychiatry and other related areas of neuroscience. The contributing authors represent all aspects of neurology from many viewpoints and disciplines to provide a complete overview of the field. Entries are designed to be understandable without detailed background knowledge in the subject matter, and cross-referencing and suggested further reading lead the reader from a basic knowledge of the subject to more advanced understanding. The easy-to-use 'encyclopedic-dictionary' format of the Encyclopedia of the Neurological Sciences, Second Edition features alphabetic entries, extensive cross-referencing, and a thorough index for quick reference. The wealth of information provided by these four volumes makes this reference work a trusted source of valuable information for a wide range of researchers, from undergraduate students to academic researchers. Provides comprehensive coverage of the field of neurological science in over 1,000 entries in 4 volumes "Encyclopedic-dictionary" format provides for concise, readable entries and easy searching Presents complete, up-to-date information on 32 separate areas of neurology Entries are supplemented with extensive cross-referencing, useful references to primary research articles, and an extensive index The Refrigerator and the Universe Understanding the Laws of Energy Harvard University Press This book

explains the laws of thermodynamics for science buffs and neophytes alike. The authors present the historical development of thermodynamics and show how its laws follow from the atomic theory of matter, then give examples of the laws' applicability to such phenomena as the formation of diamonds from graphite and how blood carries oxygen.