

Introduction To Horse Biology

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The History and Biology of an Endangered Species CRC Press

Roughly half the world's population speaks languages derived from a shared linguistic source known as Proto-Indo-European. But who were the early speakers of this ancient mother tongue, and how did they manage to spread it around the globe? Until now their identity has remained a tantalizing mystery to linguists, archaeologists, and even Nazis seeking the roots of the Aryan race. The Horse, the Wheel, and Language lifts the veil that has long shrouded these original Indo-European speakers, and reveals how their domestication of horses and use of the wheel spread language and transformed civilization. Linking prehistoric archaeological remains with the development of language, David Anthony identifies the prehistoric peoples of central Eurasia's steppe grasslands as the original speakers of Proto-Indo-European, and shows how their innovative use of the ox wagon, horseback riding, and the warrior's chariot turned the Eurasian steppes into a thriving transcontinental corridor of communication, commerce, and cultural exchange. He explains how they spread their traditions and gave rise to important advances in copper mining, warfare, and patron-client political institutions, thereby ushering in an era of vibrant social change. Anthony also describes his fascinating discovery of how the wear from bits on ancient horse teeth reveals the origins of horseback riding. The Horse, the Wheel, and Language solves a puzzle that has vexed scholars for two centuries--the source of the Indo-European languages and English--and recovers a magnificent and influential civilization from the past.

[Catalog of Copyright Entries, Third Series](#) OUP Oxford

From anatomy to genetics, applied science is the critical focus of this concise introduction to the equine industry. With its complete discussion of the nine body systems, the text provides a firm foundation for understanding every aspect of horse anatomy. Equine Science is lavishly illustrated with pedagogical photographs, charts, and tables that help readers visualize abstract scientific concepts for better comprehension.

[Concepts of Biology](#) CUP Archive

Analysis of the equine genome began just over a decade ago, culminating in the recent complete sequencing of the horse genome. The availability of the equine whole genome sequence represents the successful completion of an important era of equine genome analysis, and the beginning of a new era where the sequence information will catalyze the development of new tools and resources that will permit study of a range of traits that are economically important and are significant to equine health and welfare. Equine Genomics provides a timely comprehensive overview of equine genomic research. Chapters detail key accomplishments and the current state of research, as well as looking forward to possible applications of genomic technologies to horse breeding, health, and welfare. Equine Genomics delivers a global overview of the topic and is seamlessly edited by a leading equine genomics researcher. Equine Genomics is an indispensable source of information for anyone with an interest in this increasingly important field of study, including equine genomic researchers, clinicians, animal science professionals and equine field veterinarians.

Introduction to Coaching Psychology Westholme Pub Llc

This book provides an update on the phylogeny, systematics and ecology of horses in South America based on data provided over the past three decades. The contemporary South American mammalian communities were shaped by the emergence of the Isthmus of Panama and by the profound climatic oscillations during the Pleistocene. Horses were a conspicuous group of immigrant mammals from North America that arrived in South America during the Pleistocene. This group is represented by 2 genera, Hippidion and Equus, which include small species (Hippidion devillei, H. saldiasi, E. andium and E. insulatus) and large forms (Equus neogeus and H. principale). Both groups arrived in South America via 2 different routes. One model designed to explain this migration indicates that the small forms used the Andes corridor, while larger horses used the eastern route and arrived through some coastal areas. Molecular dating (ancient DNA)

suggests that the South American horses separated from the North American taxa (caballines and the New World stilt-legged horse) after 3.6 - 3.2 Ma, consistent with the final formation of the Panamanian Isthmus. Recent studies of stable isotopes in these horses indicate an extensive range of ^{13}C values cover closed woodlands to C4 grasslands. This plasticity agrees with the hypothesis that generalist species and open biome specialist species from North America indicate a positive migration through South America.

Horses, Human Society, and the Discourse of Modernity Cambridge University Press

The largest collection of articles on the three major gene families, this work ranges from enzymology to molecular biology to physiological implications. The three gene families are related in that the enzymes catalyse the NAD(P) dependent oxidation or reduction of carbonyl containing substrates. The substrates are important in diverse areas such as alcoholism, diabetes and cancer related problems as well as simple detoxification. The scope of the chapters, contributed by leading international scientists, is wide and covers gene regulation to enzyme mechanisms and protein structure. This is the only publication dealing in such depth with just three gene families. An important reference for researchers in toxicology and molecular biology.

[Integrative Genomics and Network Biology in Livestock and other Domestic Animals](#) Springer

Horses perceive the world differently from humans because their senses developed differently through evolution to cope with different ways of living and surviving. Horses are essentially prey/flight animals. The horse's senses therefore determine how the world appears to him and how he reacts to it. As the horse's perception and understanding are very different to ours sometimes their reaction to events and their surroundings seem strange to us. In this book the author compares the horses sensory organs with those of humans to avoid misunderstandings as lack of knowledge can lead to many problems when dealing with horses. The five senses are covered in this book: hearing, sight, smell, taste and touch. Each section explains how the horses' sense works and then this is related to care, behavior and riding, explaining why some practices are appropriate and why some are not. The behavioral aspect of dealing with horses is emphasized throughout. The author is founder of the Equine Behaviour Forum and author of over 40 books on equine topics. She has an HNC in Equine Sciences and Management, is a Classical Riding Club Gold Award Holder and classical trainer, an equine shiatsu practitioner, and an Associate Member of the International Society for Equitation Science. This book is useful for all horse owners, horse breeders and trainers who wish to gain a better understanding of how the horse's senses function, and for veterinary students and practitioners.

Fossil Horses of South America Introduction to Horse Biology

From genetics to functional anatomy, cell biology to the equine digestive system, Equine Science, Third Edition covers all the essential scientific knowledge you need for your equine programme. Thoroughly updated, this new edition features a clear, systematic presentation, stunning full-colour photographs and illustrations, chapter summary points and self-assessment questions throughout. Describes the structure and function of the various body systems of the horse Explains the scientific rationale behind modern equine training practices Features new chapters on exercise physiology and the evolution of the horse Reflects the latest scientific advances and changes in the student curriculum Includes new information on circadian rhythms and sleep patterns, the immune system, and hindgut microbiology. A powerful teaching and learning aid, Equine Science, Third Edition is an essential text for students on higher education equine studies and equine science programmes, as well as those studying for BHS qualifications up to BHSII Stage 4 Horse Knowledge and Care.

[Equine Behaviour](#) MDPI

Introduction to Horse Biology John Wiley & Sons

Plant Cell Biology John Wiley & Sons

Many students have only a limited knowledge of biology before starting a variety of equine courses, from BHS stages to National Certificate and Diploma and HND/degree. Introduction to Horse Biology provides all the information students of equine subjects require, particularly those without a GCSE or A level in biology. This book will be invaluable to all students of equine subjects including First Diploma, National Diploma, National Certificate, Higher National Diploma and Higher National Certificate and all students studying for BHS or other equine related examinations. It is also ideal for serious horse owners searching for a better understanding of horses and how they function. The Author Zoe Davies is a former lecturer in equine science, a consultant equine nutritionist, author and external examiner for higher education courses. She has substantial experience in equine management and training. Also from Blackwell Publishing Horse and Stable Management Fourth Edition Jeremy Houghton Brown, Sarah Pilliner and Zoe Davies 1 4051 0007 9 Horse Nutrition and Feeding Second Edition Sarah Pilliner 0 632 05016 0 Teaching Jumping Jane Houghton Brown 0 632 04127 7 Equine Science Second Edition Sarah Pilliner and Zoe Davies 1 4051 1944 6

The Horse CABI

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

A Guide to Selection, Care, and Enjoyment Fox Chapel Publishing Before crude oil and the combustion engine, the industrialized world relied on a different kind of power - the power of the horse. Horses in Society is the story of horse production in the United States, Britain, and Canada at the height of the species' usefulness, the late nineteenth and early twentieth-century. Margaret E. Derry shows how horse breeding practices used during this period to heighten the value of the animals in the marketplace incorporated a intriguing cross section of influences, including Mendelism, eugenics, and Darwinism. Derry elucidates the increasingly complex horse world by looking at the international trade in army horses, the regulations put in place by different

countries to enforce better horse breeding, and general aspects of the dynamics of the horse market. Because it is a story of how certain groups attempted to control the market for horses, by protecting their breeding activities or 'patenting' their work, *Horses in Society* provides valuable background information to the rapidly developing present-day problem of biological ownership. Derry's fascinating study is also a story of the evolution of animal medicine and humanitarian movements, and of international relations, particularly between Canada and the United States.

Equine Science Cengage Learning

For almost twenty years, *Horses* has been the definitive horse care manual, an indispensable reference for anyone who shows, races, breeds, or rides horses. Now *Horses* is available for the first time in paperback in a completely revised and updated new edition, offering all the latest information necessary for the competent care and recreational use of horses today. It covers every vital phase of buying, managing, enjoying, and raising horses and features a wealth of illustrations and photo sequences showing step-by-step management procedures, as well as more technical information for advanced owners. The Third Edition also reflects recent findings in health care and research, and includes * A new chapter on business practices in the horse industry * Current recommendations for internal parasite control * Information on equine assisted therapy * Linebreeding, the Dosage Index, and the Rasmussen Factor * Recent information on coat color inheritance * The physiology of conditioning performance horses * The practical use of behavior for training Comprehensive, authoritative, and accessible, *Horses*, Third Edition is an essential reference book for anyone who cares for a horse, from novice to experienced owner.

Book One: Introduction to Hippotherapy Academic Press

Horse Pasture Management begins with coverage of the structure, function and nutritional value of plants, continuing into identification of pasture plants. Management of soil and plants in a pasture is covered next, followed by horse grazing behavior, feed choices of horses, management of grazing horses, and how to calculate how many horses should be grazing relative to land size. Management of hay and silage are included, since year-round grazing is not possible on many horse farms. A number of chapters deal with interactions of a horse farm with the environment and other living things. As an aid in good pasture management, one chapter explains construction and use of fencing and watering systems. Contributions are rounded out with a chapter explaining how the University of Kentucky helps horse farm managers develop their pasture management programs. The purpose of the book is to help people provide a better life for horses Provides the basic principles of pasture management for those involved in equine-related fields and study Covers a variety of strategies for managing the behavior, grouping, environmental, and feeding needs of grazing horses to ensure high levels of welfare and health Includes information on environmental best practices, plant and soil assessment, and wildlife concerns Explains pasture-related diseases and toxic plants to be avoided Includes links to useful resources and existing extension programs

Horse, Follow Closely IUCN

"This work places the modern period (post-1700) at the center of the scholarship on horses as they relate to humans, showing how the horse has remained central to the accelerating culture of modernity. The contributors investigate specific equine cultures--from the performance of social power and the definition of heritage in Europe, Australia, and the Americas, to explorations of the ways horses figure in distinctively modern genres of the self, such as autobiography, biography, and photographic portraiture."--Supplied by publisher.

Horse Pasture Management Globe Pequot

A comprehensive, richly illustrated introduction to the fascinating

natural history of the horse, from prehistory to the present There are countless books about keeping and riding horses. The *Horse* is different: it looks not only at the natural history of the horse in the context of its use by humans, but also at its own, independent story, describing the way horses live, think, and behave both alongside people and on their own. Beautifully designed and illustrated, *The Horse* provides an engaging and accessible introduction to these beloved animals. Beginning with evolution and development, *The Horse* tells how horses came into being more than fifty million years ago and were first domesticated more than five thousand years ago, eventually spreading across the globe. Chapters on Anatomy & Biology and Society & Behavior explain equine anatomy and how it has affected the lives and social structure of horses, and outline current scientific thinking on their behavior as individual and herd animals, including information on communication between horses. A chapter on *Horses & People* provides a thorough overview of the horse's many important roles in human history and today, from pack animal to sporting champion. Finally, the book ends with an engrossing and visually stunning photographic gallery of some fifty popular breeds of horses and ponies with essential information about each. Filled with surprising facts and insights, this book will delight anyone who loves horses and wants to understand them better. Provides a comprehensive, richly illustrated introduction to the evolution, development, domestication, and behavior of the horse--from life cycle, breeding, coats and colors, and the senses to courtship, parenting, communication, emotions, and learning Tells the full story of horses, from their earliest fossil ancestors to the modern-day Equus Offers a detailed survey of how horses and humans have interacted since horses were domesticated, including their use for work and war in the past and recreational and competitive riding today Features infographics, diagrams, and more than 250 stunning color photographs Includes a beautiful photographic directory to some 50 popular breeds

Horse Breeds and Human Society Springer Science & Business Media

The new Equid Action Plan provides current knowledge on the biology, ecology and conservation status of wild zebras, asses, and horses. It specifies what information is lacking, and prioritizes needed conservation actions. The Action Plan also provides chapters on equid taxonomy, genetics, reproductive biology, and population dynamics. These chapters highlight unsolved issues of taxonomy and genetics. They also provide information and insight into the special demographic and genetic challenges of managing small populations. The chapter on disease provides a review of documented equine disease and epidemiology and focuses on priorities for equid conservation health. The final chapter deals with the importance of developing an assessment methodology that explicitly considers the role of equids in ecosystems and the ecological processes that are necessary for ecosystem viability. The approach of combining ecological field studies and ecosystem modeling should prove useful for the scientific management and conservation of wild equids worldwide. These chapters provide research and conservation practitioners with new information and paradigms.

The Right Way to Start Horse Riding SUNY Press

Equine Color Genetics, Fourth Edition presents a detailed examination of the color variation in horses and donkeys and the genetic mechanisms that produce color variations. Thoroughly covers the basic colors in horses, including bay, chestnut, black, and brown Details the genetic basis of the colors built from the basic coat color, including dilutions and white patterning Provides an explanation of genetic mechanisms that determine coat color Presents a thorough revision and update, including new advances in molecular genetics, biochemistry, molecular mechanisms, genetic loci, coat colors before domestication, and more Offers a new introduction describing the principles of genetics and genomics research to help outline how knowledge is discovered and to assist the reader in understanding concepts covered in the book

Equine Genomics Princeton University Press

This book demonstrates how horse breeding is entwined with human

societies and identities. It explores issues of lineage, purity, and status by exploring interconnections between animals and humans. The quest for purity in equine breed reflects and evolves alongside human subjectivity shaped by categories of race, gender, class, region, and nation. Focusing on various horse breeds, from the Chincoteague Pony to Brazilian Crioulo and the Arabian horse, each chapter in this collection considers how human and animal identities are shaped by practices of breeding and categorizing domesticated animals. Bringing together different historical, geographical, and disciplinary perspectives, this book will appeal to academics, as well as undergraduate and postgraduate students, in the fields of human-animal studies, sociology, environmental studies, cultural studies, history, and literature.

Horses in Society Henry Holt and Company

African horse sickness virus is a double-stranded RNA virus which causes a non-contagious, infectious arthropod-borne disease of equines and occasionally dogs. Nine distinct, internationally recognised serotypes of the virus have so far been identified. This book is based upon the findings of two programmes funded by the European Commission. It will be of value not only to the specialist research workers but also to veterinary workers dealing with control and to legislators seeking to promote safe international movement of equines. The topics covered include state-of-the-art discussions on diagnostics, vaccines, molecular biology, vector studies, and epidemiology.

The Horse, the Wheel, and Language John Wiley & Sons

Discusses barns, pastures, breeding, feeds, training, grooming, common ailments, riding, driving, races, shows, and competitions.