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This Book of Abstracts is the main publication of the 56th Annual Meeting of the European Association for Animal Production (EAAP) held in Uppsala, Sweden, on 5-8 June 2005. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation, but in Uppsala the main theme is " Impact and Challenges of a widening Europe for Animal Production and Research".

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Also, important problems were discussed during the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems. In addition joint sessions on topics interesting several disciplines and species were included in the programme. A total of 2005 authors (773 abstracts) contributed to this publication.

Warren Evans and a new team of coauthors have updated the quintessential equine science text, providing a new generation of horse scientists and enthusiasts with the most authoritative, comprehensive introduction to all aspects of the horse. This thoroughly

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revised edition combines recent scholarship on equine biology, nutrition, reproduction, exercise physiology, genetics, health, and management with the reliable, practical advice that has made it a classic resource for anyone with a serious interest in horses. More than 350 illustrations and photographs are closely integrated with the text to reinforce key concepts and enhance understanding. Moreover, the Third Edition features two sections of color photographs that illustrate the variety among breeds, the nuances of coat color and white patterns, and the remarkable versatility of the horse as a competitor and companion. The Horse, Third Edition, is the ideal volume for aspiring equine scientists and those pursuing pre-veterinary studies, and an indispensable

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resource for agricultural extension agents, experienced horse owners, and novice horse enthusiasts.

They have been worshipped as fertility goddesses and revered as symbols of peace. Domesticated since the dawn of humankind, they have been crucial to wartime communications for every major historical superpower from ancient Egypt to the United States and are credited with saving thousands of lives. One delivered the results of the first Olympics in 776 BC and another brought the news of Napoleon's defeat at Waterloo more than 2500 years later. Charles Darwin relied heavily upon them to help formulate and support his theory of evolution. Yet today the pigeon is reviled as a rat with wings. How did we come to misunderstand one of humanity's most

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steadfast companions? In Pigeons, Andrew D. Blechman travels across the United States and Europe in a quest to chronicle the bird's transformation from beloved friend to feathered outlaw.

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Conversations With Arthur R. Jensen

Genetics of Fitness and Physical Performance

Conservation genetics of endangered horse breeds

Thoroughbred Breeding

Genetics and the Psychology of Motor Performance

The General Stud-book

This book is particularly interesting for both horse breeders and molecular geneticists. Equids (horses and asses) have a

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particular place in the human culture and history. There are strong arguments for conservation of rare, endangered horse breeds and populations, however the maintenance of native breeds does not result in profitable business. Some populations and namely rare horse breeds need to be re-evaluated yet, others need to be saved from extinction very urgently. Enlisting the aid of modern science gives us many tools for reaching decisions to realize the preservation of different rare populations and not to use solely pedigrees, conformation and historical data. The molecular genetic approach and the phenotypic estimation of the values of different breeds is more and more useful. Hence, it was the right time for Horse Commission of EAAP together with Rare Breeds International (RBI) to perform a session devoted to the topic of progress in

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molecular genetics of horses. This book summarizes the papers on molecular genetic description of horse breeds and some aspects of evolution of horse species.

Despite the prevalence of behavioral research conducted through genetic studies, there is an absence of literature pertaining to the genetics of motor behavior. Genetics and the Psychology of Motor Performance is the first book to integrate cutting-edge genetic research into the study of the psychological aspects of motor learning and control. The book's central line of enquiry revolves around the extent to which psychological factors central to motor proficiency – including personality, emotion, self-regulation, motivation, and perceptual-cognitive skills – are acquired or inherited. It explains how these factors affect motor performance, distilling the latest research into

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their genetic underpinnings and, in doing so, assessing the magnitude of the role genetics plays in the stages of motor development, from early proficiency through to expertise. Written by leading experts in the genetics of human performance and exercise psychology, and thoroughly illustrated throughout, *Genetics and the Psychology of Motor Performance* is a crucial resource for any upper-level student or researcher seeking a deeper understanding of motor learning. It is an important book for anyone studying or working in exercise psychology, motor development, exercise genetics, or exercise physiology more broadly.

The theory and application of mammalian genetics have been evolving rapidly over the past two decades. This has given scientists fresh insight into the biological processes which affe

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the functions of the animal in question. This is the latest title in our successful series of genetics books. Reference book providing a comprehensive review of the current research in horse genetics Chapters written by international experts in the field Of worldwide relevance

Conversations with controversial psychologist Arthur R. Jensen on the nature of intelligence, racial differences in intelligence, and the genetic basis for differences in intelligence

3d edition

The Science of Exercise in the Athletic Horse

Journal of Applied Genetics

Intelligence, Race, And Genetics

An Introduction to the Thoroughbred

Proceedings of the International Symposium on Genetics and

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Horse-Breeding

The #1 NEW YORK TIMES Bestseller The basis for the PBS Ken Burns Documentary The Gene: An Intimate History Now includes an excerpt from Siddhartha Mukherjee's new book Song of the Cell! From the Pulitzer Prize-winning author of The Emperor of All Maladies—a fascinating history of the gene and “a magisterial account of how human minds have laboriously, ingeniously picked apart what makes us tick” (Elle). “Sid Mukherjee has the uncanny ability to bring together science, history, and the future in a way that is understandable and riveting, guiding us

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through both time and the mystery of life itself." –Ken Burns "Dr. Siddhartha Mukherjee dazzled readers with his Pulitzer Prize-winning *The Emperor of All Maladies* in 2010. That achievement was evidently just a warm-up for his virtuoso performance in *The Gene: An Intimate History*, in which he braids science, history, and memoir into an epic with all the range and biblical thunder of *Paradise Lost*" (The New York Times). In this biography Mukherjee brings to life the quest to understand human heredity and its surprising influence on our lives, personalities, identities, fates, and choices. "Mukherjee

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expresses abstract intellectual ideas through emotional stories...[and] swaddles his medical rigor with rhapsodic tenderness, surprising vulnerability, and occasional flashes of pure poetry" (The Washington Post). Throughout, the story of Mukherjee's own family—with its tragic and bewildering history of mental illness—reminds us of the questions that hang over our ability to translate the science of genetics from the laboratory to the real world. In riveting and dramatic prose, he describes the centuries of research and experimentation—from Aristotle and Pythagoras to Mendel and Darwin, from Boveri and Morgan

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to Crick, Watson and Franklin, all the way through the revolutionary twenty-first century innovators who mapped the human genome. "A fascinating and often sobering history of how humans came to understand the roles of genes in making us who we are—and what our manipulation of those genes might mean for our future" (Milwaukee Journal-Sentinel), *The Gene* is the revelatory and magisterial history of a scientific idea coming to life, the most crucial science of our time, intimately explained by a master. "The Gene is a book we all should read" (USA TODAY).

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Exercise Genomics encompasses the translation of exercise genomics into preventive medicine by presenting a broad overview of the rapidly expanding research examining the role of genetics and genomics within the areas of exercise performance and health-related physical activity. Leading researchers from a number of the key exercise genomics research groups around the world have been brought together to provide updates and analysis on the key discoveries of the past decade, as well as lend insights and opinion about the future of exercise genomics, especially within the contexts of translational and

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personalized medicine. Clinicians, researchers and health/fitness professionals will gain up-to-date background on the key findings and critical unanswered questions across several areas of exercise genomics, including performance, body composition, metabolism, and cardiovascular disease risk factors. Importantly, basic information on genomics, research methods, and statistics are presented within the context of exercise science to provide students and professionals with the foundation from which to fully engage with the more detailed chapters covering specific traits. Exercise Genomics

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will be of great value to health/fitness professionals and graduate students in kinesiology, public health and sports medicine desiring to learn more about the translation of exercise genomics into preventive medicine.

Equine Exercise Physiology provides the most up-to-date, in-depth coverage of the basic sciences required for an understanding of the physiology of the equine athlete. This book provides a thorough grounding in the basic physiology of each body system and in particular the responses of each body system to exercise and training. It is the ideal

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resource for those interested in equine exercise physiology: undergraduate and post-graduate students in exercise science, comparative physiology, biology and veterinary science; veterinary students; horse trainers and owners of sport horses; journalists writing in equine specialty magazines; and interested lay persons. Topics include: the musculoskeletal system and physiology; tendon, ligament and joint physiology; the biomechanics of locomotion; respiratory, cardiovascular and gastrointestinal systems; metabolism and nutritional management; thermoregulation;

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hematology and immunology Written by the top experts currently working in the area of equine exercise physiology Designed for those seeking comprehensive information in a digestible format about the basic science of equine exercise physiology, rather than the clinical aspects Over 250 high quality illustrations that amplify and illustrate important points Information available in a readily accessible format.

This book is particularly interesting for both horse breeders and molecular geneticists. Equids (horses and asses) have a particular place in the human culture and

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history. There are strong arguments for conservation of rare, endangered horse breeds and populations, however the maintenance of native breeds does not result in profitable business. Some populations and namely rare horse breeds need to be re-evaluated yet, others need to be saved from extinction very urgently. Enlisting the aid of modern science gives us many tools for reaching decisions to realize the preservation of different rare populations and not to use solely pedigrees, conformation and historical data. The molecular genetic approach and the phenotypic estimation of the values of different breeds

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is more and more useful. Hence, it was the right time for Horse Commission of EAAP together with Rare Breeds International (RBI) to perform a session devoted to the topic of progress in molecular genetics of horses. This book summarizes the papers on molecular genetic description of horse breeds and some aspects of evolution of horse species. Routledge Handbook of Sport and Exercise Systems Genetics Encyclopedia of Animal Science (Print) Twenty Essential Concepts for Breeding Champions! Book of Abstracts of the 56th Annual Meeting

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of the European Association for Animal Production

Equine Sports Medicine and Surgery

Issues in Animal Science and Research: 2012 Edition

Completely updated and revised, the third edition of this essential textbook describes the basic genetics of the horse including coat colour, parentage, medical and population genetics, cytogenetics, performance, breeding systems and genetic conservation, as well as the many recent advances in genomics.

This issue of Veterinary Clinics: Equine Practice, guest edited by Dr. Carrie Finno, focuses on Equine Genetic Diseases.

Topics include: Genetics, Genomics, and Emergent Precision

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Medicine 12 years post Equine Reference Genome; Equine SNP Genotyping Arrays; Next-generation Sequencing; Genetic Testing in the Horse; Genetics of Cardiovascular Disease; Genetics of Respiratory Disease; Genetics of Neurological Disease; Genetics of Immune Disease; Genetics of Orthopedic Disease; Genetics of Ocular Disease; Genetics of Skin Disease; Genetics of Endocrine and Metabolic Disease; Genetics of Muscle Disease; Genetics of Laminitis; Genetics of Reproductive Diseases; and Genetics of Behavioral Traits.

Gathering some 90 entries from the Encyclopedia of Sustainability Science and Technology, this book covers animal breeding and genetics for food, crop science and technology, ocean farming and sustainable aquaculture,

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transgenic livestock for food and more.

The New York Times bestseller – with a new afterword about early specialization in youth sports – from the author of *Range: Why Generalists Triumph in a Specialized World*. The debate is as old as physical competition. Are stars like Usain Bolt, Michael Phelps, and Serena Williams genetic freaks put on Earth to dominate their respective sports? Or are they simply normal people who overcame their biological limits through sheer force of will and obsessive training? In this controversial and engaging exploration of athletic success and the so-called 10,000-hour rule, David Epstein tackles the great nature vs. nurture debate and traces how far science has come in solving it. Through on-the-ground reporting from below the equator and above the Arctic Circle, revealing

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conversations with leading scientists and Olympic champions, and interviews with athletes who have rare genetic mutations or physical traits, Epstein forces us to rethink the very nature of athleticism.

Implications for Health and Social Policy

Molecular and Quantitative Animal Genetics

Equine Behavioral Medicine

Third Edition

The Horse

Uppsala, Sweden, 5-8 June 2005

Horses are companion animals, providing people as riders or spectators, with such pleasurable pursuits as racing, trotting, dressage etc. Racehorse

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populations provide examples of breeds, which have been selected over relatively longer period of time. The two breeds mostly used for gallop racing are Thoroughbred and American Quarter Horses. Among these two breeds, Thoroughbreds are used in longer races and American Quarter Horses are used in shorter races. The other type of racing is generally called harness racing. It is a form of racing in which the horses run in a specified gait (trot or pace). The main aim of this book is to compile all the published information on racing performance of horses. The first Chapter is the general introduction about the different gaits of the horses and breeds involved in

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horse racing. The second, third and fourth Chapters are devoted to the genetics of racing performance of Thoroughbred, American Quarter and Trotter Horses respectively. This book is addressed to broad audience and the information presented will provide valuable guidance to scientists and horse breeders involved in racing industry.

Equine Sports Medicine and Surgery provides the most up-to-date, in-depth coverage of the basic and clinical sciences required for management of the equine athlete. The unique treatment of exercise physiology and training within a clinical context, together with detailed review of all diseases affecting

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athletic horses, makes this the most comprehensive text available. The book will provide a thorough grounding in the basic physiology of each body system, and in particular the responses of each body system to exercise and training, that will be separate, but highly relevant to, the succeeding sections on clinical disorders of each body system. The highly respected editors have brought together an internationally renowned team of 50 contributors, producing the ultimate reference for veterinarians, students, horse-owners, and all those involved in the world of equine athletics. High quality artwork, including relevant radiographic, ultrasonographic,

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CAT scan, and MRI images, aid understanding and diagnosis Provides a truly international perspective, including guidelines pertinent to different geographic areas, and racing jurisdictions In-depth coverage of the role of the veterinarian in the management of athletic horses Explores the use of complementary therapies ~

Equine Behavioral Medicine provides an essential resource for those who work with, study, and provide care to horses. It provides critical knowledge to help users understand the complex aspects of their behavior in order to benefit the animal, observe safe practices, and advance research in this area.

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The book includes current information on normal horse behavior and problem behaviors, particularly those associated with medical conditions, changes in the nervous system, and the use of drug therapy. Readers will gain a comprehensive understanding of the differences of the sensory systems and the concepts of learning that are helpful for successful treatments and safety. With the use of psychopharmacology becoming increasingly common by veterinarians, including for abnormal behaviors, is important to understand the rationale for the use of these medications. Understanding the intimate relationship between behavior, physiology,

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and health is key to practitioners, students, professionals, and others who work with, or care for, horses. Pulls together the current published science on equine behavior into chapters covering a variety of specific behavioral topics Features discussion based on an extensive review of the literature Includes a thorough reference list in each chapter for those who might be interested in further research The book covers the genetics of pigeon racing, but its larger goal is to show in practical terms how animal breeders can produce generations of animals which excel in the traits for which they are breeding. It is based on the science of genetics, presented

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within a framework of clear concepts and backed up by examples that come from the authors decades of experience in animal breeding across multiple species.

Pedigree Theories and the Science of Genetics

The Genetics of the Horse

Genetics of the Dog

Horse Genetics

Genetics of Racing Performance in the American Quarter Horse

Equine Genetic Diseases, An Issue of Veterinary Clinics of North America: Equine Practice, E-Book

Raising hopes for disease treatment and prevention,

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but also the specter of discrimination and "designer genes," genetic testing is potentially one of the most socially explosive developments of our time. This book presents a current assessment of this rapidly evolving field, offering principles for actions and research and recommendations on key issues in genetic testing and screening. Advantages of early genetic knowledge are balanced with issues associated with such knowledge: availability of treatment, privacy and discrimination, personal decisionmaking, public health objectives, cost, and more. Among the important issues covered: Quality

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control in genetic testing. Appropriate roles for public agencies, private health practitioners, and laboratories. Value-neutral education and counseling for persons considering testing. Use of test results in insurance, employment, and other settings.

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

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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

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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.

"Animal genetics is a central topic in upper-level animal science programs. Filling a void in existing literature on animal science, Animal Genetics introduces genetic principles and presents their application in production and companion animals. The book details population and quantitative genetics, epigenetics, biotechnology, and breeding

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among other topics. Useful in upper-level studies, Animal Genetics is an irreplaceable educational resource"--Provided by publisher.

Genetics of Fitness and Physical Performance is the first comprehensive reference on the role of the genes in influencing individual variation in fitness and performance. This essential compendium reviews the past 25 years of accumulated evidence on the genetic basis of health- and performance-related fitness phenotypes. Focusing on the interests of sport scientists, the authors provide insight into the significance of this research on nearly every

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aspect of the study of human physical activity. The book presents the biological basis of heredity and explains the concepts and methods of genetic epidemiology and molecular biology that are necessary to understand this specialized field. With the rapid advances in molecular biology and the paradigms of human genetics, exercise scientists face a dynamic and vibrant new field. This book offers readers new opportunities to better understand atherosclerosis, noninsulin dependent diabetes, obesity, and hypertension by searching for single gene effects and identifying susceptibility

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genes. The authors review the evidence on the role of the genes for human traits as it pertains to the exercise science field. And they explore the scientific, practical, and ethical issues that confront exercise scientists as progress is made in this field. Genetics of Fitness and Physical Performance is vital reading for scholars in the field of exercise and sport science to understand how recent discoveries in genetics might shape their future research.

The Fascinating Saga of the World's Most Revered and Reviled Bird
Genetics of Racing

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Pigeons

Racehorse Breeding Theories

Equine Exercise Physiology

Inside the Science of Extraordinary Athletic Performance

Issues in Animal Science and Research / 2012 Edition is a ScholarlyEditions® eBook that delivers timely, authoritative, and comprehensive information about Laboratory Animals. The editors have built Issues in Animal Science and Research: 2012 Edition on the vast information databases of ScholarlyNews.® You can expect the information about Laboratory Animals in this eBook to be deeper than what you can access

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anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Animal Science and Research: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions[] and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at

<http://www.ScholarlyEditions.com/>.

There are still many unknowns in the breeding of Thoroughbreds, but the international research

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coalition known as the Equine Genome Project is facilitating many new exciting discoveries. Dr Matthew Binns is a leader of the project, an enterprise set up to map the equine genome, and with racing historian and bloodstock authority Tony Morris has written this important book on the theory, practice, art and science of Thoroughbred breeding. This long-awaited book describes how man came to express pedigree and to develop theories about it, and how practical breeders behaved in the light of their understanding. It explains why many theories - including some still widely granted credibility today - are fallacious, examines the very real progress in knowledge since the principles of genetics were

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discovered, and focuses on the exciting developments of the last few years, when eminent geneticists have applied their expertise to the subject of the Thoroughbred. It has been the authors' endeavour to present that information in a form that may be readily understood by anyone who shares a love of the Thoroughbred and a fascination with what makes him what he is. Packed with absorbing history and cutting-edge science, this is a fascinating and illuminating book.

Since Dawkins popularized the notion of the selfish gene, the question of how these selfish genes work together to construct an organism remained a mystery. Now, standing atop a wealth of new

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research, Itai Yanai and Martin Lercher—pioneers in the field of systems biology—provide a vision of how genes cooperate and compete in the struggle for life. Technological advances over the last two decades have placed genetic research at the forefront of sport and exercise science. It provides potential answers to some of contemporary sport and exercise's defining issues and throws up some of the area's most challenging ethical questions, but to date, it has rested on a fragmented and disparate literature base. The Routledge Handbook of Sport and Exercise Systems Genetics constitutes the most authoritative and comprehensive reference in this critical area of study, consolidating knowledge and providing a

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framework for interpreting future research findings. Taking an approach which covers single gene variations, through genomics, epigenetics, and proteomics, to environmental and dietary influences on genetic mechanisms, the book is divided into seven sections. It examines state-of-the-art genetic methods, applies its approach to physical activity, exercise endurance, muscle strength, and sports performance, and discusses the ethical considerations associated with genetic research in sport and exercise. Made up of contributions from some of the world's leading sport and exercise scientists and including chapters on important topical issues such as gene doping, gender testing, predicting sport

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performance and injury risk, and using genetic information to inform physical activity and health debates, the handbook is a vital addition to the sport and exercise literature. It is an important reference for any upper-level student, researcher, or practitioner working in the genetics of sport and exercise or exercise physiology, and crucial reading for any social scientist interested in the ethics of sport.

The Sports Gene

Equine Genomics

Genetics Aspects of Racing Performance in Horses

An Intimate History

Genetics of Racing Performance of Horses

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The Society of Genes

Recognizing the significant advances made in the field of animal genetics in the ten years since the first edition of "The Genetics of the Dog", this new edition of the successful 2001 book provides a comprehensive update on the subject, along with new material on topics of current and growing interest. Existing chapters on essential topics such as immunogenetics, genetics of diseases, developmental genetics and the genetics of behaviour have been fully updated, while new authors report on the latest advances in areas such as genetic diversity of dog breeds, canine genomics, olfactor.

A comprehensive guide to all things running explains running physiology, biomechanics, medicine, genetics,

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biology, psychology, training, and racing.

"Here, in one volume, is a wide and varied assessment of the major breeding systems or theories, as well as the history and background of each. The writers give the reader all the necessary information they need to implement the theory and make it part of a breeding program. They also verify the relative scientific validity of the theories and various approaches to breeding" -- publisher website (April 2007).

Genetic aspects of racing performance in horses, 1977/81

Running Science

Prepared from Animal Breeding Abstracts 1959 - 1971

The Gene

Assessing Genetic Risks

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Annotated Bibliography