

Laboratory Animal Resources Center Larc Title Mouse

Key features: Written by the scientist who named this parasite and was the first to set up proper diagnostic techniques Serves as the first ever book to provide information on the parasite structure, biology, pathogenesis, clinical signs, epidemiology, prevention, and control of neosporosis Covers both approaches toward preventing & controlling this disease: Developing an efficacious vaccine and sound cattle management practices Contains a wealth of illustrations, including many of the author's original photographs of the parasite Provides basic information on immunologic and molecular aspects of the disease Abortion is a worldwide problem in the livestock industry accounting for annual economic losses of billions of dollars, and *N. caninum* is a major cause of it. Neosporosis is a newly recognized disease of animals. Until 1988 it was misdiagnosed as toxoplasmosis. Considerable progress in understanding the biology of neosporosis has been made in the last 30 years, resulting in more than 2,000 scientific publications. The economic importance of abortion in cattle, and the availability of knowledge, reagents, and technology used to study toxoplasmosis, have contributed to the rapid progress in understanding the biology of neosporosis. Written by pioneers in this field, *Neosporosis in Animals* presents a comprehensive summary of the biology of

neosporosis, starting with chapter 1 on the historical background of the discovery of the disease. Subsequent chapters deal with general aspects of the biology of *N. caninum* (chapter 2), techniques (chapter 3), and the disease caused by this parasite in cattle (chapter 4), dogs (chapter 5), and all other animals including sheep, pigs, primates and humans (chapters 6-18). This book provides, for the first time in a single authoritative source, a complete account of the structure, biology, clinical disease, diagnosis, epidemiology, treatment, attempts at immunoprophylaxis, and control in all hosts. There are 175 illustrations and tables devoted to the life cycle, structure of parasitic stages, and lesions. More than 2100 references are cited, allowing the reader to locate additional information on specific topics in an efficient way. This book will be useful to a broad range of researchers in biology and veterinarians.

Edited by Tom L. Beauchamp and R.G. Frey.

Offering an innovative perspective on early modern debates concerning embodiment, Alanna Skuse examines diverse kinds of surgical alteration, from mastectomy to castration, and amputation to facial reconstruction. Body-altering surgeries had profound socio-economic and philosophical consequences. They reached beyond the physical self, and prompted early modern authors to develop searching questions about the nature of body integrity and its relationship to the soul: was the body a part of one's identity, or a mere 'prison' for the mind? How was the body connected to personal morality? What happened to the altered body after death? Drawing on a wide variety of

texts including medical treatises, plays, poems, newspaper reports and travel writings, this volume will argue the answers to these questions were flexible, divergent and often surprising, and helped to shape early modern thoughts on philosophy, literature, and the natural sciences. This title is also available as Open Access on Cambridge Core. A timely and comprehensive history of female husbands in Anglo-America from the eighteenth through the turn of the twentieth century.

Every year, an estimated 1.7 million Americans sustain brain injury. Long-term disabilities impact nearly half of moderate brain injury survivors and nearly 50,000 of these cases result in death. *Brain Neurotrauma: Molecular, Neuropsychological, and Rehabilitation Aspects* provides a comprehensive and up-to-date account on the latest developments in the area of neurotrauma, including brain injury pathophysiology, biomarker research, experimental models of CNS injury, diagnostic methods, and neurotherapeutic interventions as well as neurorehabilitation strategies in the field of neurotraum research. The book includes several sections on neurotrauma mechanisms, biomarker discovery, neurocognitive/neurobehavioral deficits, and neurorehabilitation and treatment approaches. It also contains a section devoted to models of mild CNS injury, including blast and sport-related injuries. Over the last decade, the field of neurotrauma has witnessed significant advances, especially at the molecular, cellular, and behavioral levels. This progress is largely due to the introduction of novel techniques, as well as the development of new animal models of central nervous system (CNS) injury. This book, with its diverse coherent content, gives you insight into the diverse and heterogeneous aspects of CNS pathology and/or rehabilitation needs.

Research Centers Directory has reported on the programs, facilities, publications, educational efforts and services of North America's leading nonprofit research institutes. Growing recognition of the complexity of animals' physical, social, and psychological lives in the wild has led both zookeepers and the zoo-going public to call for higher environmental standards for animals in captivity. Bringing together the work of animal behaviorists, zoo biologists, and psychologists, *Second Nature* explores a range of innovative strategies for environmental enrichment in laboratories and marine parks, as well as in zoos. From artificial fleeing-prey devices for leopards to irregular feeding schedules for whales, the practices discussed have resulted in healthier, more relaxed animals that can breed more easily and can exert some control over their environments. Moving beyond the usual studies of primates to consider the requirements of animals as diverse as reptiles, amphibians, marine mammals, small cats, hooved grazers, and bears, contributors argue that whether an animal forages in the wild or plays computer games in captivity, the satisfaction its activity provides—rather than the activity itself—determines the animal's level of physical and psychological well-being. *Second Nature* also discusses the ways in which environmental enrichment can help zoo-bred animals develop the stamina and adaptability for survival in the wild, and how it can produce healthier lab animals that yield more valid test results. Providing a theoretical framework for the science of environmental enrichment in a variety of settings, the book renews and extends a

humane approach to the keeping and conservation of animals.

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An enthralling literary debut that evokes one of the most momentous events in history, the birth of printing in medieval Germany—a story of invention, intrigue, and betrayal, rich in atmosphere and historical detail, told through the lives of the three men who made it possible. Youthful, ambitious Peter Schoeffer is on the verge of professional success as a scribe in Paris when his foster father, wealthy merchant and bookseller Johann Fust, summons him home to corrupt, feud-plagued Mainz to meet “a most amazing man.” Johann Gutenberg, a driven and caustic inventor, has devised a revolutionary—and to some, blasphemous—method of bookmaking: a machine he calls a printing press. Fust is financing Gutenberg’s workshop and he orders Peter, his adopted son, to become Gutenberg’s apprentice. Resentful at having to abandon a prestigious career as a scribe, Peter begins his education in the “darkest art.” As his skill grows, so, too, does his admiration for Gutenberg and his dedication to their daring venture: copies of the Holy Bible. But mechanical difficulties and the crushing power of the Catholic Church threaten their work. As outside forces align against them, Peter

finds himself torn between two father figures: the generous Fust, who saved him from poverty after his mother died; and the brilliant, mercurial Gutenberg, who inspires Peter to achieve his own mastery. Caught between the genius and the merchant, the old ways and the new, Peter and the men he admires must work together to prevail against overwhelming obstacles—a battle that will change history . . . and irrevocably transform them.

Contains 7662 entries to organizations and agencies that provide information worldwide in agriculture and biological sciences. Arranged by kinds of organizations and agencies, which may be private, public, nonprofit, profit, local, state, regional, and international. Entries give identifying information, description of system of service, scope and/or subject matter, clientele/availability, and contact. Master name and keyword index.

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.

Expanding on the National Research Council's Guide for the Care and Use of Laboratory Animals, this book deals specifically with mammals in neuroscience and behavioral research laboratories. It offers flexible guidelines for the care of these animals, and guidance on adapting these guidelines to various situations without hindering the research process. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research offers a more in-depth treatment of concerns specific to these disciplines than any previous guide on animal care and use. It treats on such important subjects as: The important role that the researcher and veterinarian play in developing animal protocols.

Methods for assessing and ensuring an animal's well-being. General animal-care elements as they apply to neuroscience and behavioral research, and common animal welfare challenges this research can pose. The use of professional judgment and careful interpretation of regulations and guidelines to develop performance standards ensuring animal well-being and high-quality research. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research treats the development and evaluation of animal-use protocols as a decision-making process, not just a decision. To this end, it

presents the most current, in-depth information about the best practices for animal care and use, as they pertain to the intricacies of neuroscience and behavioral research.

This book constitutes the proceedings of the 15th International Workshop Comparative Genomics, RECOMB-CG 2017, held in Barcelona, Spain, in October 2017. The 16 full papers presented were carefully reviewed and selected from 32 submissions. The papers report original research in all areas of Comparative Genomics.

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