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<u>Introduction to Molecular Biology, Genomics and Proteomics for Biomedical Engineers</u> Robert B. Northrop, Anne N. Connor, 2008-10-28 Illustrates the Complex Biochemical Relations that Permit Life to ExistIt can be argued that the dawn of the 21st century has emerged as the age focused on molecular biology, which includes all the regulatory mechanisms that make cellular biochemical reaction pathways stable and life possible. For biomedical engineers, this concept is essential to

Stroke Genetics Pankaj Sharma, James F. Meschia, 2017-06-12 This revised, expanded second edition updates the reader on this fast moving field as well providing an overall understanding of the genetics of complex diseases by using stroke as a paradigm. The reader will gain a comprehensive understanding of cerebrovascular genetics including the epidemiological evidence for the genetic basis of ischemic and hemorrhagic stroke, knowledge of its molecular basis from association, linkage and recent genomewide studies, and also monogenic disorders. Finally, the legal and ethical complexities in dealing with these issues are discussed. Stroke Genetics is a valuable resource for neurologists, stroke physicians, hypertension specialists, internists, clinical pharmacologists and those in training, as well as researchers in the field of disease genetics.

TEXTBOOK OF ANIMAL BEHAVIOUR, FOURTH EDITION MANDAL, FATIK BARAN,2025-02-01 This well-accepted book, now in its Fourth Edition, is a need-based extension of the previous book. The text is further enriched with more information to understand animal behaviour coherently and scientifically. In the new edition, the book introduces its readers with the recent topics, such as eusociality, social learning, imitation, ritualization, mating, sexual cannibalism, gravireception, and magnetoreception. The book attempts to provide a reasonably suitable account of animal behaviour for undergraduate and postgraduate students. Although the behaviour of animals has fascinated people for a long time,

behavioural biology has been introduced into syllabi very recently. The study of behaviour received its important boost from the work of Charles Darwin who used the term 'instinct', to refer to the natural behaviour of animals. In the 1930s, a comprehensive theory of animal behaviour emerged through the work of Konrad Lorenz and, later by Niko Tinbergen. Biological study of behaviour, in fact, came of age as a science when Lorenz, Tinbergen, and Karl von Frisch received the Nobel Prize for their contribution to science. Observing and describing exactly what animals do is fascinating, and scientific analysis of their behaviour is significant for several reasons. Each species tends to have an array of stereotyped behaviours, some of which are shared with related species, but others are unique. Ecology, natural selection, macroevolution, microevolution, and genes constitute the foundation of animal behaviour. Various animal groups exhibit diverse strategies for survival and reproduction which are discussed in this book. KEY FEATURES • Presents a well-balanced view of ethology. • Discusses current developments, challenges, and prospects in the field. • Includes a glossary of important terms. • Offers chapter-end questions to check students' understanding of the concept. TARGET AUDIENCE • B.Sc. (Biology) • M.Sc. (Zoology/Life Sciences) • Sociology and Anthropology

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Advances in Genetics Theodore Friedmann, Jay C. Dunlap, Stephen F. Goodwin, 2012-09-27 The field of genetics is rapidly evolving and new medical breakthroughs are occurring as a result of advances in knowledge of genetics. This series continually publishes important reviews of the broadest interest to geneticists and their colleagues in affiliated disciplines. Includes methods for testing with ethical, legal, and social implications

Handbook of Genomics and the Family Kenneth P. Tercyak, 2010-08-12 This book introduces readers to the study of how genes, singly and in combination with each other and the environment, affect health and behavior. It provides family-focused perspectives relating to genetic counseling and education.

GMO Food David E. Newton,2021-05-17 GMO Food: A Reference Handbook offers an in-depth discussion of genetically modified food. It covers the history of, opposition to, regulation of, and labeling of genetic modifications, along with the potential benefits and harm involved. GMO Food: A Reference Handbook is intended to serve as a research guide for young adults in high school and beyond. Students at all grade levels should be able to use the book as an introduction to the history of genetic engineering of organisms and the use of this technology for the development of new forms of crops and foods. They will learn briefly about historic methods of plant and animal modification (such as cross-breeding) and, in more detail, how discoveries since the late nineteenth century have greatly changed the process of plant and animal modification. These discoveries include important steps forward in genetics, biochemistry, molecular biology, genetic engineering, and related fields. They will also learn about the variety of social, political, philosophical, economic, and other issues that have arisen alongside these scientific advances, as well as about some of the laws, regulations, and other solutions that have been developed for dealing with the range of attitudes about genetically modified foods. The second edition covers developments since 2014.

Population Genomics: Crop Plants Om P. Rajora,2024-06-08 Population genomics has revolutionized several disciplines of biology, genetic resource conservation and management, and breeding of crop plants by providing key and novel insights into population, evolutionary, ecological and conservation genetics, ecology, evolution and adaptation, and facilitating molecular breeding with an unprecedented power and accuracy. Crop plants have been domesticated from their wild progenitors over several centuries and have undergone severe genetic bottlenecks and selection sweeps. Population genomics research has unraveled novel insights into crop plants origin, evolution, demographic history, center of diversity, domestication history, genetic/genomic diversity and genetic structure of wild and domesticated populations and species,

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Mason's World Encyclopedia of Livestock Breeds and Breeding, 2 Volume Pack Valerie Porter, Lawrence Alderson, Stephen J.G. Hall, D. Phillip Sponenberg, 2016-03-09 Mason's World Encyclopedia of Livestock Breeds and Breeding describes breeds of livestock worldwide as well as a range of breed-related subjects such as husbandry, health and behaviour. This definitive and prestigious reference work presents easily accessible information on domestication (including wild ancestors and related species), genetics and breeding, livestock produce and markets, as well as breed conservation and the cultural and social aspects of livestock farming. Written by renowned livestock authorities, these volumes draw on the authors' lifelong interest and involvement in livestock breeds of the world, presenting a unique, comprehensive and fully cross-referenced guide to cattle, buffalo, horses, pigs, sheep, asses, goats, camelids, yak and other domesticants.

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