

Evolutionary Biology

VOLUME 20

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David O. Norris, Kristin H. Lopez



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High Value Fermentation Products, Volume 1 Saurabh Saran, Vikash Babu, Asha Chaubey, 2019-03-12 Green technologies are no longer the future of science but the present. With more and more mature industries such as the process industries making large strides seemingly every single day and more consumers demanding products created from green technologies it is essential for any business in any industry to be familiar with the latest processes and technologies. It is all part of a global effort to go greener and this is nowhere more apparent than in fermentation technology. This book describes relevant aspects of industrial scale fermentation an expanding area of activity which already generates commercial values of over one third of a trillion US dollars annually and which will most likely radically change the way we produce chemicals in the long term future. From biofuels and bulk amino acids to monoclonal antibodies and stem cells they all rely on mass suspension cultivation of cells in stirred bioreactors which is the most widely used and versatile way to produce. Today a wide array of cells can be cultivated in this way and for most of them genetic engineering tools are also available. Examples of products operating procedures engineering and design aspects economic drivers and cost and regulatory issues are addressed. In addition there will be a discussion of how we got to where we are today and of the real world in industrial fermentation. This chapter is exclusively dedicated to large scale production used in industrial settings. Evolutionary Biology of the New World Monkeys and Continental Drift Russell L. Ciochon, 2013-12-01 It is now well known that the concept of drifting continents became an established theory during the 1960s. Not long after this revolution in the earth sciences researchers began applying the continental drift model to problems in historical biogeography. One such problem was the origin and dispersal of the New World monkeys the Platyrrhini. Our interests in this subject began in the late 1960s on different continents quite independent of one another in the cities of Florence Italy and Berkeley California. In Florence in 1968 A B Chiarelli through stimulating discussions with R von Koenigswald and B de Boer became intrigued with the possibility that a repositioning of the continents of Africa and South America in the early Cenozoic might alter previous traditional conceptions of a North American origin of the Platyrrhini. During the early 1970s this concept was expanded and pursued by him through discussions with students while serving as visiting professor at the University of Toronto. By this time publication of the Journal of Human Evolution was well underway and Dr Chiarelli as editor encouraged a dialogue emphasizing continental drift models of primate origins which culminated in a series of articles published in that journal during 1974-75. In early 1970 while attending the University of California at Berkeley R L Ciochon was introduced to the concept of continental drift and plate tectonics and their concomitant applications to vertebrate evolution through talks with paleontologist W A Clemens and anthropologist S L Washburn. *Human Evolution* John L. Bradshaw, 2014-01-02 The last decade has seen an explosive burst of new information about human origins and our evolutionary status with respect to other species. We have long been considered unique as upright bipedal creatures endowed with language the ability to use tools to

think and introspect We now know that other creatures may be more or less capable of similar behaviour and that these human capacities in many cases have long evolutionary trajectories Our information about such matters comes from a diverse variety of disciplines including experimental and neuropsychology primatology ethology archaeology palaeontology comparative linguistics and molecular biology It is the interdisciplinary nature of the newly emerging information which bears upon one of the profoundest scientific human questions our origin and place in the animal kingdom whether unique or otherwise which makes the general topic so fascinating to layperson student and expert alike The book attempts to integrate across a wide range of disciplines an evolutionary view of human psychology with particular reference to language praxis and aesthetics A chapter on evolution from the appearance of life to the earliest mammals is followed by one which examines the appearance of primates hominids and the advent of bipedalism There follows a more detailed account of the various species of Homo the morphology and origin of modern H sapiens sapiens as seen from the archaeological palaeontological and molecular biological perspectives The origins of art and an aesthetic sense in the Acheulian and Mousterian through to the Upper Palaeolithic are seen in the context of the psychology of art Two chapters on language address its nature and realization centrally and peripherally the prehistory and neuropsychology of speech and evidence for speech and or language in our hominid ancestors A chapter on tool use and praxis examines such behaviour in other species primate and non primate the neurology of praxis and its possible relation to language Encephalization and the growth of the brain phylogenetically and ontogenetically and its relationship to intellectual capacity leads on finally to a consideration of intelligence social intelligence consciousness and self awareness A final chapter reviews the issues covered The book of around 70 000 words of text includes over 500 references over half of which date from 1994 or later

Encyclopedia of Evolutionary Biology

,2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the

comprehension process **Biology and Evolution of the Mollusca, Volume 2** Winston Frank Ponder, David R. Lindberg, Juliet Mary Ponder, 2020-02-14 This volume provides individual treatments of the major molluscan taxa Each chapter provides an overview of the evolution phylogeny and classification of a group of molluscs as well as more specific and detailed coverage of their biology reproduction feeding and digestion excretion respiration etc their long fossil record and aspects of their natural history The book is illustrated with hundreds of colour figures In both volumes concepts are summarised in colour coded illustrations Key selling features Comprehensively reviews molluscan biology and evolutionary history Includes a description the anatomy and physiology of anatomical systems Up to date treatment with a comprehensive bibliography Reviews the phylogenetic history of the major molluscan lineages *Hormones and Reproduction of Vertebrates, Volume 5* David O. Norris, Kristin H. Lopez, 2024-08-08 Hormones and Reproduction of Vertebrates Volume 5 Mammals is the fifth of five second edition volumes representing a comprehensive and integrated overview of hormones and reproduction in fishes amphibians reptiles birds and mammals The book includes coverage of endocrinology neuroendocrinology physiology behavior and anatomy of reptilian reproduction It provides a broad treatment of the roles of pituitary thyroid adrenal and gonadal hormones in all aspects of reproduction as well as descriptions of major life history events New to this edition is a concluding assessment of the effect of environmental influences on mammals Initial chapters in this book broadly examine sex determination reproductive neuroendocrinology stress and hormonal regulation as it relates to male and female reproductive structure and function Subsequent chapters introduce the evolution of viviparity and examine pregnancy in eutherian mammals parturition pheromones and behavioral neuroendocrinology Covered taxa include rodents bats and primates The book concludes with an examination of the environmental influences on hormones and reproduction of mammals including endocrine disrupting chemicals and climate change Hormones and Reproduction of Vertebrates Volume 5 Mammals is designed to provide a readable coordinated description of reproductive basics in mammals as well as an introduction to the latest trends in reproductive research and a presentation of our understanding of reproductive events gained over the past decade It may serve as a stand alone reference for researchers and practitioners in the field of mammalogy or as one of five coordinated references aligned to provide topical treatment across vertebrate taxa for researchers practitioners and students focused on vertebrate endocrinology Covers endocrinology neuroendocrinology physiology behavior and anatomy of mammalian reproduction Includes pituitary thyroid adrenal and gonadal hormones Focuses on rodents bats primates ungulates carnivores and marine mammals Provides new coverage on endocrine disrupting chemicals and climate change [Fins into Limbs](#) Brian K. Hall, 2008-09-15 Long ago fish fins evolved into the limbs of land vertebrates and tetrapods During this transition some elements of the fin were carried over while new features developed Lizard limbs bird wings and human arms and legs are therefore all evolutionary modifications of the original tetrapod limb A comprehensive look at the current state of research on fin and limb evolution and development this volume addresses a wide

range of subjects including growth structure maintenance function and regeneration Divided into sections on evolution development and transformations the book begins with a historical introduction to the study of fins and limbs and goes on to consider the evolution of limbs into wings as well as adaptations associated with specialized modes of life such as digging and burrowing Fins into Limbs also discusses occasions when evolution appears to have been reversed in whales for example whose front limbs became flippers when they reverted to the water as well as situations in which limbs are lost such as in snakes With contributions from world renowned researchers Fins into Limbs will be a font for further investigations in the changing field of evolutionary developmental biology Fitness of the Cosmos for Life John D. Barrow,2008 An

interdisciplinary book for scientists interested in the origin and existence of life in our universe first published in 2007

Recent Advances in Ecobiological Research M. P. Sinha,1997 Contributed articles with reference to India commemoration volume for Prof P N Mehrotra **Food Hoarding in Animals** Stephen B. Vander Wall,1990-07-10 In this first comprehensive synthesis of the literature on food hoarding in animals Stephen B Vander Wall discusses how animals store food how they use food and how this use affects individual fitness why and how food hoarding evolved how cached food is lost mechanisms for protecting and recovering cached food physiological and behavioral factors that influence hoarding and the impact that hoarding animals have on plant populations and plant dispersal He then provides detailed coverage of hoarding behavior across taxa mammals birds and arthropods to address issues in evolution ecology and behavior Drawings photographs and appendixes document complex and intrinsically interesting food hoarding behaviors and the bibliography of nearly 1 500 sources is itself an invaluable and unique reference **Evolutionary Genetics** Charles W. Fox,Jason B.

Wolf,2006-04-27 Charles Fox and Jason Wolf have brought together leading researchers to produce a cutting edge primer introducing readers to the major concepts in modern evolutionary genetics This book spans the continuum of scale from studies of DNA sequence evolution through proteins and development to multivariate phenotypic evolution and the continuum of time from ancient events that lead to current species diversity to the rapid evolution seen over relatively short time scales in experimental evolution studies Chapters are accessible to an audience lacking extensive background in evolutionary genetics but also current and in depth enough to be of value to established researchers in evolution biology

The Structure and Confirmation of Evolutionary Theory Elisabeth A. Lloyd,2021-01-12 Traditionally a scientific theory is viewed as based on universal laws of nature that serve as axioms for logical deduction In analyzing the logical structure of evolutionary biology Elisabeth Lloyd argues that the semantic account is more appropriate and powerful This book will be of interest to biologists and philosophers alike Hemoglobin Richard Earl Dickerson,Irving Geis,1983

Life's Solution Simon Conway Morris,2003-09-04 The assassin s bullet misses the Archduke s carriage moves forward and a catastrophic war is avoided So too with the history of life Re run the tape of life as Stephen J Gould claimed and the outcome must be entirely different an alien world without humans and maybe not even intelligence The history of life is

littered with accidents any twist or turn may lead to a completely different world Now this view is being challenged Simon Conway Morris explores the evidence demonstrating life's almost eerie ability to navigate to a single solution repeatedly Eyes brains tools even culture all are very much on the cards So if these are all evolutionary inevitabilities where are our counterparts across the galaxy The tape of life can only run on a suitable planet and it seems that such Earth like planets may be much rarer than hoped Inevitable humans yes but in a lonely Universe

Evolutionary Systems G. Vijver, Stanley N. Salthe, M. Delpo, 2013-04-17 The three well known revolutions of the past centuries the Copernican the Darwinian and the Freudian each in their own way had a deflating and mechanizing effect on the position of humans in nature They opened up a richness of disillusion earth acquired a more modest place in the universe the human body and mind became products of a long material evolutionary history and human reason instead of being the central immaterial locus of understanding was admitted into the theater of discourse only as a materialized and frequently out of control actor Is there something objectionable to this picture Formulated as such probably not Why should we resist the idea that we are in certain ways and to some degree physically biologically or psychically determined Why refuse to acknowledge the fact that we are materially situated in an ever evolving world Why deny that the ways of inscription traces of past events and processes are co determinative of further evolutionary pathways Why minimize the idea that each intervention of each natural being is temporally and materially situated and has as such the inevitable consequence of changing the world The point is however that there are many more or less radically different ways to consider the mechanization of man and nature There are in particular many ways to get the message of material and evolutionary determination as well as many levels at which this determination can be thought of as relevant or irrelevant

A Handbook of Global Freshwater Invasive Species Robert A. Francis, 2012-03-12 Invasive non native species are a major threat to global biodiversity Often introduced accidentally through international travel or trade they invade and colonize new habitats often with devastating consequences for the local flora and fauna Their environmental impacts can range from damage to resource production e g agriculture and forestry and infrastructure e g buildings road and water supply to human health They consequently can have major economic impacts It is a priority to prevent their introduction and spread as well as to control them Freshwater ecosystems are particularly at risk from invasions and are landscape corridors that facilitate the spread of invasives This book reviews the current state of knowledge of the most notable global invasive freshwater species or groups based on their severity of economic impact geographic distribution outside of their native range extent of research and recognition of the ecological severity of the impact of the species by the IUCN As well as some of the very well known species the book also covers some invasives that are emerging as serious threats Examples covered include a range of aquatic and riparian plants insects molluscs crustacea fish amphibians reptiles and mammals as well as some major pathogens of aquatic organisms The book also includes overview chapters synthesizing the ecological impact of invasive species in fresh water and summarizing practical

implications for the management of rivers and other freshwater habitats

Hormones and Reproduction of Vertebrates, Volume 2 David O. Norris, Kristin H. Lopez, 2024-07-17 Hormones and Reproduction of Vertebrates Volume 2 Amphibians is the second of five second edition volumes representing a comprehensive and integrated overview of hormones and reproduction in fishes amphibians reptiles birds and mammals The book includes coverage of endocrinology neuroendocrinology physiology behavior and anatomy of amphibian reproduction It provides a broad treatment of the roles of pituitary thyroid adrenal and gonadal hormones in all aspects of reproduction as well as descriptions of major life history events New to this edition is a concluding assessment of the effect of environmental influences on amphibians Initial chapters in this book broadly examine sex determination reproductive neuroendocrinology stress and hormonal regulation as it relates to male and female reproductive structure and function Subsequent chapters examine hormones and reproduction of specific taxa including anuran amphibians urodeles and gymnophionids The book concludes with an examination of endocrine disruption of reproduction in amphibians Hormones and Reproduction of Vertebrates Volume 2 Amphibians is designed to provide a readable coordinated description of reproductive basics in amphibians as well as an introduction to the latest trends in reproductive research and a presentation of our understanding of reproductive events gained over the past decade It may serve as a stand alone reference for researchers and practitioners in the field of herpetology or as one of five coordinated references aligned to provide topical treatment across vertebrate taxa for researchers practitioners and students focused on vertebrate endocrinology Covers endocrinology neuroendocrinology physiology behavior anatomy and development of amphibian reproduction Includes pituitary thyroid adrenal and gonadal hormones Focuses on anuran urodele and gymnophiona amphibians Provides new coverage on environmental disruption in amphibians

The Neural Crest and Neural Crest Cells in Vertebrate Development and Evolution Brian K. Hall, 2008-12-28 A presentation of all aspects of neural crest cell origins embryological and evolutionary development and evolution neural crest cell behavior migration and anomalies neurocristopathies and birth defects that arise from defective neural crest development The treatment of development will include discussions of cellular molecular and genetic aspects of the differentiation and morphogenesis of neural crest cells and structures derived from neural crest cells The origins of the neural crest in embryology will be discussed using the recent information on the molecular basis of the specification of the neural crest Also presented are the advances in our understanding of the evolution of jaws from studies on lampreys and of the neural crest from studies on ascidians and amphioxus

International Books in Print, 1991 [Ecology, Environmental Science and Conservation 2nd Edition](#) JS Singh | SP Singh | SR Gupta | Rishikesh Singh, The updated second edition of the book offers an innovative synthesis of fundamental ecological concepts and practical applications in environmental science and conservation It is the first textbook on the subject by eminent Indian researchers and presents most of the examples from the Indian subcontinent The book covers a wide range of topics including fundamental concepts required to comprehend the physical environment

population dynamics community characteristics patterns and gradients in biodiversity ecosystem functioning and dynamics and the study of biogeography It also addresses applied topics such as environmental pollution impact assessment natural resource management biodiversity conservation ecosystem services global climate change ecosystem restoration urban ecology and sustainable development The main issues are discussed within the sustainability framework considering humans as part of ecosystems and recognising that sustainable development requires the integration of ecology with social sciences for policy formulation and implementation The updated edition of the book aligns with the National Education Policy 2020 and the revised UGC Guidelines It aims to meet the needs of students in basic and multidisciplinary courses in ecology and environmental science as well as professionals in agriculture forestry and geography at both the graduate and postgraduate levels

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