

The colonisation of land

Origins and adaptations of
terrestrial animals

COLIN LITTLE



Colonisation Of Land Origins And Adaptations Of Terrestrial Animals

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Colonisation Of Land Origins And Adaptations Of Terrestrial Animals:

The Colonisation of Land Colin Little, 1983-12-15 The book traces the ways in which terrestrial animals have evolved from aquatic ancestors and discusses the means by which they are adapted to life on land The most important physiological adaptations are those involving salt and water balance the excretion of nitrogen reproductive mechanisms and the sense organ and these are given priority Evidence from fossil history is combined with that from the ecology and physiology of present day species to assess the probable routes along which various evolutionary lines had moved on to land Individual chapters are concerned with specific animal groups and emphasis is placed on comparisons of physiological mechanisms between closely related animals before attempting wider generalisations The book closes with a brief account of the recolonisation of the sea and fresh waters by terrestrial animals 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

Behavioral Adaptation to Intertidal Life Guido Chelazzi, Marco Vannini, 2013-12-20 The NATO Advanced Research Workshop on Behavioural Adaptation to Intertidal Life held in Castiglioncello Italy May 1987 was attended by 50 participants most of whom presented requested lectures It was perhaps the first time that specialists of various animal groups from cnidarians to birds were able to meet and discuss the importance of behavioural adaptation to this peculiar sometimes very harsh environment But the taxonomic barrier is not the only one which the meeting attempted to overcome Lately the research on intertidal biology has spread from pure taxonomy and static analysis of community structure to such dynamic aspects as intra and interspecific relationships and physiological mechanisms aimed at avoiding stress and exploitation of limited resources This increasing interest stems not only from an inclination for this particular ecological system and some of its typical inhabitants but also from the realization that rocky and sandy shore communities are suitable models for testing

and improving some global theories of evolutionary biology behavioural ecology and sociobiology The number of eco physiological and eco ethological problems emerging from the study of intertidal animals is fascinatingly large and a complete understanding of this environment cannot be reached using a strictly reductionistic or a pure holistic approach

Crustaceans and the Biodiversity Crisis Frederick Schram, Carel von Vaupel Klein, 2023-07-03 This important and extensive volume presents part of the Proceedings of the Fourth International Crustacean Congress held in Amsterdam in 1998 As the title implies Crustaceans and the Biodiversity Crisis was the general underlying theme of all contributions at the congress With the turn of the century someone ought to assess the balance of our natural environment and of the various branches of biology that study its rapidly declining diversity From the five subthemes covered at the conference those of 1 Diversity in Time and Space including Systematics Phylogeny and Palaeontology 2b Biogeography 3c Larvae and 4 Physiology and Biochemistry including Molecular Biology and Genetics are represented in this volume along with a few contributions from other subthemes e g 2a Invasive Crustacea 3a Ecology 3b Behaviour and 5 Fisheries and Aquaculture The book is primarily meant for scientists working at institutes involved in research on the group Crustacea marine freshwater or terrestrial and or the disciplines covered Individual carcinologists working on one of the themes discussed in this volume will find a wealth of interesting and timely contributions as will other scientists working in marine or freshwater biology or in soil ecology Microbial Systems as Paradigms Of Successful and Sustainable Interactions Enrica Pessione, Nathalie

Connil, Anna Luganini, 2022-01-17 **Acid-Base Balance and Nitrogen Excretion in Invertebrates** Dirk Weihrauch, Michael O'Donnell, 2016-12-15 This textbook provides a comprehensive overview on the diverse strategies invertebrate animals have developed for nitrogen excretion and maintenance of acid base balance and summarizes the most recent findings in the field obtained by state of the art methodology A broad range of terrestrial freshwater and marine invertebrate groups are covered including crustaceans cephalopods insects and worms In addition the impact of current and future changes in ocean acidification on marine invertebrates due to anthropogenic CO₂ release will be analyzed The book addresses graduate students and young researchers interested in general animal physiology comparative physiology and marine aquatic animal physiology Also it is an essential source for researchers dealing with the effects of increasing pCO₂ levels on aquatic animals of which the vast majority are indeed invertebrates All chapters are peer reviewed *Comparative Physiology* Interunion Commission on Comparative Physiology, 1987-07-27 This volume examines the extent to which the design and function of terrestrial and aquatic animals are determined by the physicochemical properties of the media in which they live The topic is addressed from the viewpoint of scientists representing a variety of disciplines and approaches Anatomists biochemists biophysicists physiologists and zoologists each contribute their perspectives The general topics examined include respiration acid base balance osmoregulation water and ionic exchanges nutrient acquisition and absorption nitrogen and sulfur metabolism locomotion sensory information and behaviour energy metabolism and

temperature and evolution Four or five papers deal with each of these general topics **The Origin and Evolution of Life on Earth** David W. Hollar,1992 Covers the major works from the late 1800s to the present Aimed at anyone interested in the subject regardless of whether the reader is a layperson a high school or college student or a research scientist The Terrestrial Invasion Colin Little,1990 The theme of this book is the invasion of land by animal lines which originated in aquatic environments It brings together physiological and ecological evidence to show both the likely routes taken out of the sea by the aquatic ancestors of terrestrial animals and the changes in structure and function associated with these routes The author takes an ecophysiological approach and by using representative examples provides a novel background against which both the terrestrial adaptations of individual species and the make up and function of terrestrial ecosystems can be considered Dr Little is the author of the highly acclaimed book *The Colonisation of Land* which discusses the phylogeny and physiology of terrestrial and semi terrestrial animals The *Terrestrial Invasion* takes a fresh approach and provides an excellent introduction to the origins of land animals suitable for ecologists physiologists and evolutionary biologists

Proceedings ,2002 Israel Journal of Zoology ,1993 *Prehistoric Life* David Norman,1994 Traces the development of vertebrates looks at fossil animals and describes the forces that shape evolution *Journal of the Pennsylvania Academy of Science* ,1991 Tropical Ecology ,1989 *Zoology* Lawrence G. Mitchell,1988 *The Biology and Evolution of Fossil Plants* Thomas N. Taylor,Edith L. Taylor,1993 **Evolution and Environment in the Late Silurian and Early Devonian** Royal Society (Great Britain). Discussion Meeting,1985 Proceedings of the 1990 International Crustacean Conference P. J. F. Davie,R. H. Quinn,1991 **Fauna of Australia** Pamela L. Beesley,Graham J. B. Ross,Alice Wells,1987 **Canadian Journal of Earth Sciences** ,1995

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