

Progress in Molecular and Subcellular Biology

**Carlos Arturo Navas
José Eduardo Carvalho**
Editors

Aestivation

Molecular and Physiological Aspects

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Living in a Seasonal World Thomas Ruf, Claudia Bieber, Walter Arnold, Eva Millesi, 2012-04-23 This book summarises the newest information on seasonal adaptation in animals Topics include animal hibernation daily torpor thermoregulation heat production metabolic depression biochemical adaptations neurophysiology and energy balance The contributors to this book present interdisciplinary research at multiple levels ranging from the molecular to the ecophysiological as well as evolutionary approaches The chapters of this book provide original data not published elsewhere which makes it the most up to date comprehensive source of information on these fields The book's subchapters correspond to presentations given at the 14th International Hibernation Symposium in August 2012 in Austria This is a very successful series of symposia held every four years since 1959 that attracts leading researchers in the field Like the past symposia this

meeting and consequently the book is aimed not only at hibernation but at covering the full range of animal adaptations to seasonal environments For the next four years this book will serve as the cutting edge reference work for graduate students and scientists active in this field of physiology and ecology

The Nature of Nutrition Stephen J. Simpson, David Raubenheimer, 2012-07-22 Nutrition has long been considered more the domain of medicine and agriculture than of the biological sciences yet it touches and shapes all aspects of the natural world The need for nutrients determines whether wild animals thrive how populations evolve and decline and how ecological communities are structured The Nature of Nutrition addresses nutrition's enormously complex role in biology both at the level of individual organisms and in their broader ecological interactions

Biology and Evolution of the Mollusca, Volume 1 Winston Frank Ponder, David R. Lindberg, Juliet Mary Ponder, 2019-11-18 Molluscs comprise the second largest phylum of animals after arthropods occurring in virtually all habitats Some are commercially important a few are pests and some carry diseases while many non marine molluscs are threatened by human impacts which have resulted in more extinctions than all tetrapod vertebrates combined This book and its companion volume provide the first comprehensive account of the Mollusca in decades Illustrated with hundreds of colour figures it reviews molluscan biology genomics anatomy physiology fossil history phylogeny and classification This volume includes general chapters drawn from extensive and diverse literature on the anatomy and physiology of their structure movement reproduction feeding digestion excretion respiration nervous system and sense organs Other chapters review the natural history including ecology of molluscs their interactions with humans and assess research on the group Key features of both volumes up to date treatment with an extensive bibliography thoroughly examines the current understanding of molluscan anatomy physiology and development reviews fossil history and phylogenetics overviews ecology and economic values and summarises research activity and suggests future directions for investigation Winston F Ponder was a Principal Research Scientist at The Australian Museum in Sydney where he is currently a Research Fellow He has published extensively over the last 55 years on the systematics evolution biology and conservation of marine and freshwater molluscs as well as supervised post graduate students and run university courses David R Lindberg is former Chair of the Department of Integrative Biology Director of the Museum of Paleontology and Chair of the Berkeley Natural History Museums all at the University of California He has conducted research on the evolutionary history of marine organisms and their habitats on the rocky shores of the Pacific Rim for more than 40 years The numerous elegant and interpretive illustrations were produced by Juliet Ponder

Amphibian and Reptile Adaptations to the Environment Denis Vieira de Andrade, Catherine R. Bevier, José Eduardo de Carvalho, 2017-12-19 Despite their diversity amphibians and reptiles share many physiological traits such as their dependence on external heat sources for body temperature regulation that are of pivotal importance to their ability to cope with the environment Considerable variation in physiological capabilities exists in these groups and often can be related to seasonal and geographic differences in environmental parameters This book

provides a comprehensive and integrative view of the interplay between physiology and behavior in amphibians and reptiles leading to a better understanding of the subject The book covers topics that have recently been in the spotlight for scientific research on the physiology behavior and conservation of amphibians and reptiles It brings together recent information from a range of disciplines that address critical topics for understanding their biology As these studies are scattered across articles in specialized journals this book provides a single and expanded source summarizing such advancements Amphibian and Reptile Adaptations to the Environment Interplay Between Physiology and Behavior maintains a solid scientific basis for the biological topics covered However it presents the material in a clear and direct manner so that it is accessible even to non biologists interested in the basic biology behavior and ecology of these animals as well as how these elements are connected to their conservation *Phylogeny, Anatomy and Physiology of Ancient Fishes* Giacomo Zaccane, Konrad Dabrowski, Michael S. Hedrick, Jorge M. O. Fernandes, Jose M. Icardo, 2015-08-05 This book on ancient fishes unites the work of many specialists coming from different areas of biology Hagfishes lungfishes Chondrosteans and Holosteans constitute the main subject of study Fossil records and extant species are compared to establish the conservation or the degeneration of specific characters However phylogenetic relationship *The Evolution Underground* Anthony J Martin, 2017-02-07 Humans have gone underground for survival for thousands of years from underground cities in Turkey to Cold War era bunkers But our burrowing roots go back to the very beginnings of animal life on Earth Many animal lineages alive now including our own only survived a cataclysmic meteorite strike 65 million years ago because they went underground On a grander scale the chemistry of the planet itself had already been transformed many millions of years earlier by the first animal burrows which altered whole ecosystems Every day we walk on an earth filled with an underground wilderness teeming with life Most of this life stays hidden yet these animals and their subterranean homes are ubiquitous ranging from the deep sea to mountains from the equator to the poles Burrows are a refuge from predators a safe home for raising young or a tool to ambush prey Burrows also protect animals against all types of natural disasters Filled with spectacularly diverse fauna acclaimed paleontologist and ichnologist Anthony Martin reveals this fascinating hidden world that will continue to influence and transform life on this planet *Progress in Molecular and Subcellular Biology*, 5, 1977 **Progress in Biophysics and Molecular Biology**, 1963 **Progress in Biophysics and Molecular Biology** John Alfred Valentine Butler, Denis Noble, 1976 *Progress in Biophysics and Molecular Biology* Butler, 1950-01-01 **Progress in Biophysics and Molecular Biology** D. Noble, 1986-04 **Progress in Biophysics and Molecular Biology** J. A. Butler, 1978-01-01 *Progress in Biophysics and Molecular Biology* J. A. Butler, 1978-07-01 Progress in Biophysics and Molecular Biology Volume 32 summarizes the significant progress that has been made in the fields of biophysics and molecular biology Topics range from metabolic regulation and transfer RNA to cellular metabolism and prokaryotic and eukaryotic ribosomes **Progress in Biophysics and Molecular Biology...**, 1964 *Progress in Biophysics & Molecular Biology* Butler, J A V,

Ed,1974-12 *Progress in Biophysics and Molecular Biology* D. Noble,T. L. Blundell,T. Pawson,2001 *Progress in
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web in electrical engineering single phase electric power abbreviated 1 ϕ is the distribution of alternating current electric power using a system in which all the voltages of the supply vary in unison single phase distribution is used when loads are mostly lighting and heating with few large electric motors

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web single phase motors generally refer to low power single phase asynchronous motors powered by a single phase ac power supply it is also called a single phase induction motor this kind of motor usually has two phase windings on the stator and the rotor is of ordinary squirrel cage type

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web the single coil of a single phase induction motor does not produce a rotating magnetic field but a pulsating field reaching maximum intensity at 0° and 180° electrical figure below single phase stator produces a nonrotating pulsating magnetic field another view is that the single coil excited by a single phase current produces two

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web single phase power is a two wire alternating current ac power circuit typically there is one power wire the phase wire and one neutral wire with current flowing between the power wire through the load and the neutral wire three phase power is a three wire ac power circuit with each phase ac signal 120 electrical degrees apart

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web there are three basic types of small induction motors split phase single phase shaded pole single phase and polyphase in two pole single phase motors the torque goes to zero at 100% slip zero speed so these require alterations to the stator such as shaded poles to provide starting torque

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web dec 15 2021 figure 1 a single phase induction motor stator produces a pulsating magnetic field rather than a rotating one as in a three phase motor this means there is no torque when the rotor is stationary once it is moving the currents induced in the rotor create a magnetic field that interacts with the pulsating field to produce a torque and thus