BIOLOGICAL ADAPTATIONS

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Biochemical Adaptation

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Biochemical Adaptation Peter W. Hochachka, George N. Somero, 2002-01-17 The study of biochemical adaption provides fascinating insights into how organisms work and how they evolve to sustain physiological function under a vast array of environmental conditions This book describes how the abilities of organisms to thrive in widely different environments derive from two fundamental classes of biochemical adaptions modifications of core biochemical processes that allow a common set of physiological functions to be conserved and inventions of new biochemical traits that allow entry into novel habitats Biochemical Adaptation Mechanisms and Process in Physiological Evolution asks two primary questions First how have the core biochemical systems found in all species been adaptively modified to allow the same fundamental types of physiological processes to be sustained throughout the wide range of habitat conditions found in the biosphere Second through what types of genetic and biochemical processes have new physiological functions been fabricated. The primary audience for this book is faculty senior undergraduates and graduate students in environmental biology comparative physiology and marine biology Other likely readers include workers in governmental laboratories concerned with environmental issues medical students interested in some elements of the book and medical researchers Biochemical Adaptation Peter W. Hochachka, George N. Somero, 1984 This book discusses biochemical adaptation to environments from freezing polar oceans to boiling hot springs and under hydrostatic pressures up to 1 000 times that at sea level Originally published in 1984 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These paperback editions preserve the original texts of these important books while presenting them in durable paperback editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 **Biochemical Adaptation** Peter William Hochachka, George N. Somero, 2023 Suitable for graduates and undergraduates in environmental biology comparative physiology and marine biology this text lays out the principles of mechanistic comparative physiology in an ecological and evolutionary context

<u>Physiological Adaptations in Vertebrates</u> Alan Hargens,1991-10-31 This volume originates from a symposium held in Copenhagen in June 1989 to commemorate Kjell Johansen who died March 4 1987 The volume begins with a nonscientific but fascinating glimpse at Kjell followed by an overview of the kinds of physiology that interested him i e adaptational environme

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Animal Biochemistry Klaus Urich, 2013-04-17 tribute greatly to understanding the origins of The plan for this book goes back almost 20 years Already at that time it was possible to recognize organisms an extraordinary variation in metabolites and To provide the biochemist with a ready over processes superimposed upon the basic biochem view of the structural diversity of animals the book includes a simplified version of animal sys ical system of animals Each species each indi tematics for further information on the classifica vidual in fact each type of cell of the multicellu lar organism possesses its own biochemical char tion structure and life of particular animal spe acter and this molecular variety its biological sig cies the reader should consult the relevant text nificance and its evolutionary development books It is assumed that the zoologist reader has throw up many interesting questions. The com a basic knowledge of biochemistry important general biochemical facts are in any case given for parative approach that has been so productive at many of the subjects covered the higher levels of complexity of morphology and physiology can also be used to great effect at I had already completed several chapters of the molecular level this book by the beginning of the 1970s Introduction to Ecological Biochemistry J. B. Harborne, 2014-06-28 Ecological biochemistry concerns the biochemistry of interactions between animals plants and the environment and includes such diverse subjects as plant adaptations to soil pollutants and the effects of plant toxins on herbivores The intriguing dependence of the Monarch butterfly on its host plants is chosen as an example of plant animal coevolution in action The ability to isolate trace amounts of a substance from plant tissues has led to a wealth of new research and the fourth edition of this well known text has consequently been extensively revised New sections have been provided on the cost of chemical defence and on the release of predator attracting volatiles from plants New information has been included on cyanogenesis the protective role of tannins in plants and the phenomenon of induced defence in plant leaves following herbivory Advanced level students and research workers aloke will find much of value in this comprehensive text written by an acknowledged expert on this fascinating subject The book covers the biochemistry of interactions between animals plants and the environment and includes such diverse subjects as plant adaptations to soil pollutants and the effects of plant toxins on herbivores The intriguing dependence of the Monarch butterfly on its host plants is chosen as an example of plant animal coevolution in action New sections have been added on the cost of chemical defence and on the release of predators attracting volatiles from plants New information has been included on cyanogenesis the protective role of tannins in plants and the phenomenon of induced defence in plant leaves following herbivory **Biochemical Adaptation** George N. Somero, Brent L. Lockwood, Lars Tomanek, 2016 Adaptation Michael R. Rose, George V. Lauder, 1996-09-22 The study of evolutionary adaptation returns to the center stage of biology with this important volume This innovative treatise discusses new developments in adaptation with new methods and new theoretical foundations achievements and prospects for a rich intellectual future It is an insightful reintroduction to the themes that Darwin and his successors regarded as central to any profound understanding of biology Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and

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