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Tuna Physiology Ecology And Evolution

This book is a multidisciplinary volume that overviews the most recent literature covering the physiology, biomechanics, evolution, and ecology of tunas. It examines critical areas of molecular and organismal physiology, phylogeny, ecology, and evolutionary biology. Recently developed techniques for electronic tagging of fish are presented.

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Tuna: Physiology, Ecology, and Evolution | Barbara Block ...

Overviews the literature covering the physiology, biomechanics, evolution, and ecology of tunas. This book examines areas of molecular and organismal physiology, phylogeny, ecology, and evolutionary biology. It presents techniques for electronic tagging of fish and covers various aspects of tuna biology, from metabolism to reproductive biology.

Tuna : physiology, ecology, and evolution (eBook, 2001 ...

Request PDF | On Jan 1, 2001, B. A. Block and others published Tuna Physiology, Ecology, and Evolution | Find, read and cite all the research you need on ResearchGate

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Tuna evolution and radiation Comparative physiologists seek to understand the mechanism and biological significance of physiological adaptation, and tunas satisfy all criteria essential for this. Considerable data relate tuna natural history and behavior to functional morphology and ecology (Sharp and Dizon, 1978 ; Block and Stevens, 2001).

Tuna comparative physiology | Journal of Experimental Biology

Fish of the genus *Thunnus* are unusual because they are regional endotherms. In this study, archival tag data were used to demonstrate behavioural and physiological thermoregulation in juvenile yellowfin tuna, *Thunnus albacares* (35–52 cm fork length). Tags inserted into the peritoneal cavity were recovered from 23 yellowfin tuna caught mainly around Ishigaki Island, Japan, in 2009–2012.

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Physiological and behavioural thermoregulation of juvenile ...

Commercial tuna species have received particular attention in this context because of their unique life-history traits among teleosts and a captivating functional evolution, including large size, elevated body temperature, and exceptional swimming ability (e.g., Carey and Teal, 1966; Graham and Dickson, 2004).

Early-life ontogenetic developments drive tuna ecology and ...

We studied the mechanical properties of deep red aerobic muscle of yellowfin tuna (*Thunnus albacares*), using both in vivo and in vitro methods. In fish swimming in a water tunnel at $1-3 L s^{-1}$ (where L is fork length), muscle length changes were recorded by sonomicrometry, and activation timing was quantified by electromyography. In some fish a tendon buckle was also implanted on the ...

Thunniform swimming: muscle dynamics and mechanical power ...

Both physical and physiological modifications to the oxygen transport system promote high metabolic performance of tuna. The large surface area of the gills and thin blood-water barrier means that O₂ utilization is high (30-50%) even when ram ventilation approaches $101 \text{ min}^{-1} \text{kg}^{-1}$. The heart is extremely large and generates peak blood pressures in the range of 70-100 mmHg at frequencies ...

Cardiovascular and respiratory physiology of tuna ...

Overviews the literature covering the physiology, biomechanics, evolution, and ecology of tunas. This book examines areas of molecular and organismal physiology, phylogeny, ecology, and evolutionary biology. It presents techniques for electronic tagging of fish and covers various aspects of tuna biology, from metabolism to reproductive biology.

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Tuna : physiology, ecology, and evolution (Book, 2001 ...

Evolutionary physiology is the study of the biological evolution of physiological structures and processes; that is, the manner in which the functional characteristics of individuals in a population of organisms have responded to natural selection across multiple generations during the history of the population. It is a sub-discipline of both physiology and evolutionary biology.

Evolutionary physiology - Wikipedia

Barbara Block is a marine-animal physiologist who studies the physiology, ecology, and evolution of tuna, billfish, and other open-ocean fishes. Her research is focused on how large pelagic fishes utilize the open-ocean environment.

Barbara Block - MacArthur Foundation

The Tuna Research and Conservation Center (TRCC) is a unique research facility in Pacific Grove, CA. Jointly owned and operated by Stanford University and the Monterey Bay Aquarium, the TRCC plays a leading role in studying physiology and ecology of tunas and other highly migratory marine fishes.

Publications - Tuna Research and Conservation Center

Barbara Block publishes Tuna: Physiology, Ecology, and Evolution, 2001 Steve Palumbi publishes The Evolution Explosion : How Humans Cause Rapid Evolutionary Change, 2001 George Somero publishes Biochemical Adaptation: Mechanism and Process in Physiological Evolution, 2002 Stanford@SEA starts and continues every other year to present, 2003

Hopkins Marine Station (1951 - Present) | Seaside

certain species of tuna (family Scombridae) are apex predators, renowned for their unique

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thunniform swimming mode, high metabolic rates, and endothermic physiology (herein defined as the ability to elevate and retain metabolically produced heat in the swimming muscles and other organs, as well as the ability to physiologically control and reduce routes and rates of heat transfer with the environment) (6).

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