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**Tuna Physiology
Ecology And Evolution
Volume 19
Physiological Ecology
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Physiology

*3 breakthrough books deliver
innovative global investing
strategies for today's radically
new market environment
Yesterday's investment*

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*strategies won't cut it any
more! This Collection brings
together innovative new
approaches from three of this
generation's most successful
investors: strategies you
simply won't find elsewhere! In*

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*Buying at the Point of
Maximum Pessimism: Six Value
Investing Trends from China to
Oil to Agriculture, Lauren
Templeton Capital
Management's D. Scott
Phillips reveals today's secret*

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*for earning consistently
outsized profits: In times of
maximum pessimism,
recognize your long-term
opportunities, and pounce!
Phillips identifies six powerful
value investing themes for the*

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2010s: emerging areas of long-term growth that become even more compelling in volatile or bear markets. In What Would Ben Graham Do Now?: A New Value Investing Playbook for a Global Age, Jeffrey Towson

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modernizes value investing for high-growth emerging markets, introducing techniques he mastered working for Prince Alwaleed, the “Arabian Warren Buffet.” Building on Ben Graham’s classic focus on price

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and quality, he integrates crucial values of political access, reputation, and capabilities that are indispensable for modern global investing. Next, he presents practical investment

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“playbooks” designed to help you profitably navigate tomorrow’s titanic market collisions. Finally, in The Esoteric Investor: Alternative Investments for Global Macro Investors, Vishaal B.

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Bhuyan reveals immense new investment opportunities hidden in the coming age wave, pension crisis, and today's massive demographic, economic, and regulatory shifts. Discover how to profit

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*from reverse equity
transactions, surprising
commodities, and longevity
risk markets—the \$24 trillion
market you've never heard of!
From world-renowned leaders
in alternative global*

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*investment, including D. Scott
Phillips, Vishaal B. Bhuyan, and
Jeffrey Towson
Zoo Animal and Wildlife
Immobilization and Anesthesia,
Second Edition is a fully
updated and revised version of*

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*the first comprehensive
reference on anesthetic
techniques in captive and free-
ranging wildlife. Now including
expanded coverage of avian
and aquatic species, this
exhaustive resource*

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*presents information on the full
range of zoo and wildlife
species. Covering topics
ranging from monitoring and
field anesthesia to CPR
and euthanasia, the heart of
the book is devoted to 53*

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species-specific chapters providing a wealth of information on little-known and common zoo and wildlife animals alike. In addition to new species chapters, the new edition brings a new focus on

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*pain management, including
chronic pain, and
more information on species-
specific physiology. Chapters
on airway management,
monitoring, emergency
therapeutics, and*

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field procedures are all significantly expanded as well. This update to Zoo Animal and Wildlife Immobilization and Anesthesia is an invaluable addition to the library of all zoo and wildlife veterinarians.

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*Advances in Tuna Aquaculture:
From Hatchery to Market*

*provides detailed overviews on
the current status of tuna
fisheries, fattening, and
farming practices, as well as
advances in closed-cycle tuna*

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*aquaculture. Contributors are
renowned scientists,*

*internationally recognized as
authorities in their fields. This
book addresses all basic and
applied aspects of tuna
aquaculture, presenting and*

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*discussing the global status of
tuna fisheries, reproduction,
broodstock management,
spawning, larval rearing and
early developmental stages
including nursery and grow out
methods. It presents*

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*incorporates the most
comprehensive and updated
data, statistics, and trends in
tuna fisheries and aquaculture,
covering and addresses a
variety of topics ranging
from from endocrinology,*

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nutrition, diseases, and genetics to economics and markets. It covers describes recent up-to-date progress on tuna aquaculture and hatchery development. It also provides a synopsis overview of the

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challenges presently confronted by tuna aquaculturists, facing tuna aquaculture and and offers innovative views on the challengesbottle-neck issues faced by the industry with the

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current shift from fisheries to fattening to closed-cycle aquaculture. This is the first book to encompass all aspects related to the tuna aquaculture industry, and merges them into a state-of-the-art compendium

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that will serve as seminal reference for students, researchers, and professionals working with tuna biology, fisheries, and aquaculture worldwide. Incorporates and reviews the most recent

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*19 Physiological Ecology And
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information on tuna fisheries
and aquaculture Presents the
most innovative production
technologies in tuna
aquaculture, from hatchery to
market Includes important
information on tuna, derived*

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from industry experience and academic research on larval rearing technology and grow out operations Encompasses and discusses key topics such as genetics, diseases, nutrition, endocrinology, and

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*Presents the independent and
collective assessments,
viewpoints, and visions of
various scientists, all
internationally recognized as
authorities in the field
Off the shore of Hatteras*

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*Island, where the inner edge of
the Gulf Stream flows*

*northward over the outer
continental shelf, the marine
life is unlike that of any other
area in the Atlantic. Here the
powerful ocean river helps*

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*foster an extraordinarily rich
diversity of life, including
Sargassum mats concealing
strange creatures and exotic
sea beans, whales and sea
turtles, sunfish and flying fish,
and shearwaters and Bermuda*

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petrels. During his long career as a research scientist, David S. Lee made more than 300 visits to this area off the North Carolina coast, documenting its extraordinary biodiversity. In this collection of twenty linked

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essays, Lee draws on his personal observations and knowledge of the North Atlantic marine environment to introduce us to the natural wonders of an offshore treasure. Lee guides readers

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*on adventures miles offshore
and leagues under the sea,
blending personal anecdotes
with richly detailed natural
history, local culture, and
seafaring lore. These journeys
provide entertaining and*

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*informative connections
between the land and the
diverse organisms that live in
the Gulf Stream off the coast of
North Carolina. Lee also
reminds us that ocean
environments are fragile and*

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*vulnerable to threats such as
pollution, offshore energy
development, and climate
change, challenging those of
us on land to consider carefully
the costs of ignoring sea life
that thrives just beyond our*

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view.

Gulf Stream Chronicles

*A Naturalist Explores Life in an
Ocean River*

*Tagging and Tracking of Marine
Animals with Electronic
Devices*

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*Physiology of Elasmobranch
Fishes: Structure and
Interaction with Environment
Vulnerability of Tropical Pacific
Fisheries and Aquaculture to
Climate Change
Love, Death, and Mercury*

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Evolution Fish Physiology

This book focuses on latest information on the biology and ecology of the three bluefin tuna species: the Pacific (*Thunnus orientalis*), Atlantic (*T. thynnus*), and southern bluefin tuna (*T. maccoyii*). In the book, the phylogeny and basic ecological

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Evolution. Fish Physiology.

information such as early life history, age and growth, and food habits are covered.

Information relat

Examines the advances in cloning technology, including sensor-wearing seals, cyborg beetles, a bionic bulldog, and the world's

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first cloned cat.

**Scientists, fisheries managers,
policymakers, and marine
conservationists will take away
key data from this timely volume
to help them ensure these
remarkable fish continue in
perpetuity.**

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Reviews: Methods and Technology in Fish Biology and Fisheries published by Kluwer Academic Publishers is a book series dedicated to the publication of information on advanced, forward-looking methodologies, technologies, or

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perspectives in fish and is especially dedicated to relevant topics addressing global, fisheries. This series international concern in fish and fisheries. Humans continue to challenge our environments with new technologies and

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technological applications. The dynamic creativity of our own species often tends to place the greatest burden on our supporting ecosystems. This is especially true for aquatic networks of creeks, lakes, rivers and ocean environments. We also

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frequently use our conceptual powers to balance conflicting requirements and demands on nature and continue to develop new approaches and tools to provide sustainable resources as well as conserve what we hold most dear on local and global

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***scales. This book series will
provide a window into the
developing dynamic among
humans, aquatic ecosystems
(both freshwater and marine),
and the organisms that inhabit
aquatic environments. There are
many reasons to doubt the***

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increasing social and economic value technology has gained over the last two centuries. Science and technology represent stages in human development. I agree with Ernst Mayer when he said in Toward a New Philosophy of Biology (1988) that "endeavors

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***to solve all scientific problems by
pure logic and refined
measurements are unproductive,
if not totally irrelevant.***

***Cuddling Up to Biotech's Brave
New Beasts***

***How Animals Process Energy,
Nutrients, and Toxins***

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Frankenstein's Cat

World Ocean Assessment

Advances in Tuna Aquaculture

The Future of Bluefin Tunas

Providing a comprehensive
account of marine conservation,
this book examines human use and
abuse of the world's seas and

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oceans and their marine life, and
the various approaches to

management and conservation.

Healthy marine ecosystems - the
goods and services that they
provide - are of vital importance to
human wellbeing. There is a
pressing need for a global

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synthesis of marine conservation
issues and approaches. This book

covers conservation issues
pertinent to major groups of
marine organisms, such as sharks,
marine turtles, seabirds and
marine mammals; key habitats,
from estuaries, wetlands and coral

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reefs to the deep sea; and from local and regional to international initiatives in marine conservation.

An ideal resource for students, researchers and conservation professionals, the book pays appropriate attention to the underlying marine biology and

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Since the publication of The Migrations of Fish by Prof.

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Alexander Meek in 1916, a number of books have been published on this subject. However, most of these books only cover one type of migratory mechanisms. This book aims to overcome this drawback by presenting a comprehensive coverage of all life history

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Physiological Ecology And Evolution Fish Physiology strategies—potadromy, anadromy, catadromy, amphidromy and

oceanodromy in one book. The first section of this book reviews the history of fish migration studies, the main definitions and concepts related with fish migration and the main trends and

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Physiological Ecology And Evolution Fish Physiology challenges of fish migration research. The second section describes the main processes and patterns associated with all migratory life history strategies, as well as the main problems associated with their conservation. Finally, the third section provides

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examples of the main methodologies used to study fish migration. This book was conceived with the objective to provide undergraduate and graduate students and researchers with a comprehensive book on which they could rely.

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In light of mounting fishing pressures, increased aquaculture production and a growing concern for fish well-being, improved knowledge on the swimming physiology of fish and its application to fisheries science and aquaculture is needed. This book

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presents recent investigations into some of the most extreme examples of swimming migrations in salmon, eels and tunas, integrating knowledge on their performance in the laboratory with that in their natural environment. For the first time, the application

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of swimming in aquaculture is explored by assessing the potential impacts and beneficial effects. The modified nutritional requirements of “athletic” fish are reviewed as well as the effects of exercise on muscle composition and meat quality using state-of-the-

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art techniques in genomics and proteomics. The last chapters introduce zebrafish as a novel exercise model and present the latest technologies for studying fish swimming and aquaculture applications.

Destined to quickly become the

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Evolution Fish Physiology
standard reference for scientists,
students, and naturalists, Tunas
and Billfishes of the World will be
prized by all fishers who pursue
these species.

A Critical Introduction

Fish Locomotion

Biology and Ecology of Bluefin

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Tuna

Ontogeny and Phylogeny of the
Vertebrate Heart

Physiological Ecology

Physiology, Ecology, and Evolution

**Massive demographic,
environmental, economic, and
regulatory shifts are**

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generating huge new investment opportunities with an exceptionally high probability of success over the coming years and decades. In The Esoteric Investor, a world-class portfolio manager identifies

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these investments, and shows
how your best profit
opportunities may now lie
far beyond the boundaries of
traditional financial
markets. LifeQuant Capital
Management principal Vishaal
B. Bhuyan begins by

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**explaining why investors
must become far more
creative in the way they
source opportunity. Next, he
identifies immense growth
potential in markets ranging
from reverse equity
transactions to longevity**

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risk—the \$24 trillion market
you've never heard of.

Bhuyan also shows how global
events offer sustained
profit opportunities in
three key markets most
investors consistently
ignore. If you're looking

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**for promising investments
that everyone else doesn't
already know about, The
Esoteric Investor offers the
unique perspective you've
been seeking.**

**Fish Physiology: Physiology
of Elasmobranch Fishes,**

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Volume 34B is a useful reference for fish physiologists, biologists, ecologists, and conservation biologists. Following an increase in research on elasmobranchs due to the plight of sharks in today's

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oceans, this volume compares
elasmobranchs to other
groups of fish, highlights
areas of interest for future
research, and offers
perspective on future
problems. Covering
measurements and lab-and-

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field based studies of large
pelagic sharks, this volume
is a natural addition to the
renowned Fish Physiology
series. Provides needed
comprehensive content on the
physiology of elasmobranchs
Offers a systems approach

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between structure and interaction with the environment and internal physiology Contains contributions by leading experts in their respective fields, under the guidance of internationally

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recognized and highly
respected editors Highlights
areas of interest for future
research, including
perspective on future
problems

This collection of reviews
will be of considerable

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**interests to biologists and
MDs working on any aspect of
cardiovascular function.**

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experts in the field, the
content is also of interest
for MSc and PhD students in**

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**Fish Physiology: Tuna:
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**An Eco-ethological
Perspective**

The Tragedy of the Commodity

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Swimming Physiology of Fish

Examines the natural

history of the tuna, one
of the world's most
endangered marine
animals, revealing how
the increasing demand

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Physiological Ecology And Evolution Fish Physiology

for sushi has caused a devastating overfishing

of the tuna and detailing the implications of its potential extinction.

This book is a

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multidisciplinary volume
that overviews the most
recent literature
covering the physiology,
biomechanics, evolution,
and ecology of tunas. It
examines critical areas

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fish are presented. The book covers all aspects of tuna biology, from metabolism and cardiovascular research to reproductive biology.

* Contains a

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comprehensive review of
tuna biology * Provides
a synthesis of archival
and pop-up satellite tag
technology in tunas *

Covers the phylogenetics
of modern tunas *

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Includes color plates on
morphology, physiology,
ecology, and
oceanography.

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addition to the series
includes updates on many
topics that will appeal
to postgraduates and
researchers in marine

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oceanography. Specialty
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areas from all areas of
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management, and
molecular biology, and
the full range of

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geographic areas from
polar seas to tropical
coral reefs. Reviews
articles on the latest
advances in marine
biology Authored by
leading figures in their

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respective fields of
study Presents materials
that are widely used by
managers, students, and
academic professionals
in the marine sciences
Provides value to anyone

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studying bottlenose
dolphins, deep-sea
macrofauna, marine
invertebrates, pinna
nobilis, and ecology,
amongst other study
areas

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Among the roughly 30,000 species of fish, migratory species account for only 165 species, but most of them are very important fisheries resources.

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This book presents up-to-date innovative research results on the physiology and ecology of fish migration. It focuses on salmon, eels, lampreys, and bluefin

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tuna. The book examines
migratory behavior,
spawning, and behavioral
ecology.

From Genome to
Environment
Finfish Aquaculture

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Towards Using Exercise
to Farm a Fit Fish in
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evolution

International Law on
Tuna Fisheries
Management

Winner of the 2017 Paul Sweezy

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Marxist Sociology Book Award
from the American Sociological
Association Although humans
have long depended on oceans
and aquatic ecosystems for
sustenance and trade, only
recently has human influence on

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these resources dramatically increased, transforming and undermining oceanic environments throughout the world. Marine ecosystems are in a crisis that is global in scope, rapid in pace, and colossal in

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scale. In *The Tragedy of the Commodity*, sociologists Stefano B. Longo, Rebecca Clausen, and Brett Clark explore the role human influence plays in this crisis, highlighting the social and economic forces that are at the

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heart of this looming ecological
problem. In a critique of the
classic theory “ the tragedy of
the commons ” by ecologist
Garrett Hardin, the authors
move beyond simplistic
explanations—such as

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unrestrained self-interest or population growth—to argue that it is the commodification of aquatic resources that leads to the depletion of fisheries and the development of environmentally suspect means of aquaculture.

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To illustrate this argument, the book features two fascinating case studies—the thousand-year history of the bluefin tuna fishery in the Mediterranean and the massive Pacific salmon fishery. Longo, Clausen, and

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Clark describe how new fishing technologies, transformations in ships and storage capacities, and the expansion of seafood markets combined to alter radically and permanently these crucial ecosystems. In doing so,

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the authors underscore how the particular organization of social production contributes to ecological degradation and an increase in the pressures placed upon the ocean. The authors highlight the historical, political,

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economic, and cultural forces that shape how we interact with the larger biophysical world. A path-breaking analysis of overfishing, *The Tragedy of the Commodity* yields insight into issues such as deforestation,

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biodiversity loss, pollution, and
climate change.

Substantially updated for the
second edition, this engaging
and innovative introduction to
the environment and society
uses key theoretical approaches

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to explore familiar objects.

Features substantial revisions
and updates for the second
edition, including new chapters
on E waste, mosquitoes and
uranium, improved maps and
graphics, new exercises, shorter

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theory chapters, and refocused
sections on environmental
solutions Discusses topics such
as population and scarcity,
commodities, environmental
ethics, risks and hazards, and
political economy and applies

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them to objects like bottled
water, tuna, and trees Accessible
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images and teaching material
Advances in Marine Biology,
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science, ecology, zoology and
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in marine biology Authored by
leading figures in their

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respective fields of study
Presents materials that are
widely used by managers,
students and academic
professionals in the marine
sciences

Tuna and tuna-like species are

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migrating over long distances
and cross national and
international boundaries.

Therefore, international
cooperation is required in order
to ensure sustainable
management of the fisheries

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targeting these species. The book deals with the international legal framework for the management. It focuses on the Regional Fisheries Management Organizations (RFMOs), concentrating particularly on

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this framework enables tuna
RFMOs and, in particular, the
Western Central Pacific Fisheries
Commission to manage their
fisheries sustainably.

Proceedings of the Symposium
on Tagging and Tracking Marine

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Fish with Electronic Devices,
February 7–11, 2000, East-
West Center, University of
Hawaii

Physiology and Ecology of Fish
Migration

The Physiology of Fishes, Third

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Edition

Evolution Fish Physiology
Ecology, Fisheries Management,
and Conservation

The Esoteric Investor

Encyclopedia of Fish Physiology

Inspired by the International

White Shark Symposium in

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2010, Global Perspectives on the Biology and Life History of the White Shark incorporates the most important contemporary research findings into a single peer-reviewed book. This beautifully

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illustrated reference represents a historic change in the context of White Shark (Carcharodon carcharias) research. Once considered one of the most poorly understood and difficult sharks to study,

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this timely book recognizes a new sophisticated focus on the White Shark, raising its status from obscurity to enlightenment. The Global Perspectives on the Biology and Life History of the White

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Shark celebrates the White Shark as the most studied shark in the sea. Within the chapters one can find new insights into a vast range of topics, such as behavior, physiology, migration patterns,

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*habitat preferences, daily
activity patterns, molecular
genetics, reproductive biology
and new research methods.
The book also delves into
population monitoring and
policy options for managers*

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and researchers.

*Nation-states are failing to
resolve global problems that
transcend the abilities of
single governments or even
groups of governments to
address. This book argues that*

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*this dilemma is not as new as
is sometimes claimed. It offers
crucial context and even
lessons for present-day
debates about resolving the
most urgent environmental
problems.*

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Since the award-winning first volume, The Biology of Sharks and Their Relatives, published in 2004, the field has witnessed tremendous developments in research, rapid advances in technology,

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and the emergence of new investigators beginning to explore issues of biodiversity, distribution, physiology, and ecology in ways that eluded more traditional studies. As an entirely new companion

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volume, Sharks and Their Relatives II: Biodiversity, Adaptive Physiology, and Conservation brings you up to speed on these significant changes, specifically examining how elasmobranch

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fishes - the sharks, skates, rays, and chimaeras - successfully survive in a wide range of habitats. Emphasizes Conservation of Threatened Species This multidisciplinary volume begins by examining

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elasmobranch biodiversity patterns and their integrated sensory systems. It then explores the physiological adaptations - from unique sensory modalities to compensatory mechanisms for

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physiological and environmental stress – that make these animals particularly well-suited for the range of habitats where they are found, in both oceanic and freshwater realms. Features

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*Established Researchers and
Introduces New Pioneers in*

*the Field The book then
considers the human*

interactions and

*anthropogenic effects on
worldwide elasmobranch*

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populations and the potential extinction risks posed by increasing threats from changes in habitat, changes in water chemistry, and growing commercial exploitation. This text truly is unrivaled in terms

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of coverage and readability, and it is a must-have reference for marine biologists, fishery scientists, oceanographers, and also marine, zoo, and aquarium veterinarians. To address subject areas and

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subdisciplines where coverage was absent or superficial in volume one, Jeffrey Carrier and associates have assembled in the current volume a collection of works that reveal patterns of biodiversity, the

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*physiological attributes that
contribute to elasmobranchs'
successful exploitation of
oceanic and freshwater
realms, and the unique issues
associated with the interaction
between elasmobranchs and*

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*humans, all of this with
overarching attention to issues
of conservation. "We begin
with chapters examining
biodiversity. We have chosen
to approach this discussion by
presenting elasmobranchs as*

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inhabitants of the range of zoogeographic provinces, realizing that significant overlap may occur for more pelagic species. This realization was reflected in the dialogue that occurred during

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*preparation of the book
between our chapter authors,
and the recognition that many
species simply cannot be
confined to a specific habitat
or range of habitats. We then
continue by examining some of*

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the unique physiological adaptations that allow these animals to exploit the range of habitats where they are found, from unique sensory modalities to compensatory mechanisms for physiological

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and environmental stress. "Our concluding section presents some of the challenges faced by members of these groups. We have asked our authors to consider human interactions and anthropogenic effects on

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*worldwide populations and the
potential extinction risks
posed from survival under
increasing threats from
changes in habitat, changes in
water chemistry, and
increasing commercial*

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exploitation. Conservation of species under threat remains a theme throughout the book.

"Our authors represent an international group of investigators including established scientists whose

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*work has been widely
published and respected, and
emerging younger scientists
who have exploited recent
advances in technology to ask
and answer new questions as
well as offering new insights*

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*and interpretations to
enduring problems in the
fields of ecology and
physiology. We have asked
them to be speculative and
challenging, and we have
asked them to predict future*

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areas for investigation in hopes that their work will both inspire and provoke additional studies of these fascinating animals." - from the Preface
Fish form an extremely diverse group of vertebrates. At a

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*conservative estimate at least
40% of the world's vertebrates
are fish. On the one hand they
are united by their adaptations
to an aquatic environment and
on the other they show a
variety of adaptations to*

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differing environmental conditions - often to extremes of temperature, salinity, oxygen level and water chemistry. They exhibit an array of behavioural and reproductive systems.

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Interesting in their own right, this suite of adaptive physiologies provides many model systems for both comparative vertebrate and human physiologists. This four volume encyclopedia covers

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*the diversity of fish physiology
in over 300 articles and
provides entry level
information for students and
summary overviews for
researchers alike. Broadly
organised into four themes,*

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articles cover Functional, Thematic, and Phylogenetic Physiology, and Fish Genomics

Functional articles address the traditional aspects of fish physiology that are common to all areas of vertebrate

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physiology including:

*Reproduction, Respiration,
Neural (Sensory, Central,
Effector), Endocrinology,
Renal, Cardiovascular, Acid-
base Balance, Osmoregulation,
Ionoregulation, Digestion,*

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Metabolism, Locomotion, and so on. Thematic Physiology articles are carefully selected and fewer in number. They provide a level of integration that goes beyond the coverage in the Functional Physiology

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*topics and include discussions
of Toxicology, Air-breathing,
Migrations, Temperature,
Endothermy, etc. Phylogenetic
Physiology articles bring
together information that
bridges the physiology of*

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*certain groupings of fishes
where the knowledge base has
a sufficient depth and breadth
and include articles on Ancient
Fishes, Tunas, Sharks, etc.
Genomics articles describe the
underlying genetic component*

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*of fish physiology and high
light their suitability and use
as model organisms for the
study of disease, stress and
physiological adaptations and
reactions to external
conditions. Winner of a 2011*

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*PROSE Award Honorable
Mention for Multivolume
Science Reference from the
Association of American
Publishers The definitive
encyclopedia for the field of
fish physiology Three volumes*

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*which comprehensively cover
the entire field in over 300*

*entries written by experts
Detailed coverage of basic
functional physiology of fishes,
physiological themes in fish
biology and comparative*

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*physiology amongst taxonomic
Groups Describes the genomic
bases of fish physiology and
biology and the use of fish as
model organisms in human
physiological research
Includes a glossary of terms*

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*Tunas and Billfishes of the
World*

*An Introduction to Fish
Migration
Biodiversity, Adaptive
Physiology, and Conservation*

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*Fish Physiology: Tuna,
physiology, ecology, and
evolution*

Tuna

**The 2nd international
tagging and tracking
symposium was held in San**

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Evolution Fish Physiology
Sebastian, Spain, in October
2007, seven years after the
first symposium was held in
Hawaii in 2000 (Sibert and
Nielsen 2001). In the
intervening seven years,
there have been major
advances in both the

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capability and reliability
of electronic tags and
analytical approaches for
geolocation of tagged
animals in marine habitats.
Advances such as increased
data storage capacity,
sensor development, and tag

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miniaturization have allowed researchers to track a much wider array of marine animals, not just large and charismatic species.

Importantly, data returned by these tags are now being used in population analyses

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and movement simulations that can be directly utilized in stock assessments and other management applications. Papers in this volume are divided into three sections, the first describing

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insights into behavior achieved using acoustic, archival, and novel tags, the second reporting on advances in methods of geolocation, while the final section includes contributions where tag data

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have been used in management of marine species. Accurate documentation of animal movements and behaviors in critical marine habitats are impossible to obtain with other technologies. The management and conservation

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of marine species are critical in today's changing ocean environment and as electronic tags become more accurate and functional for a diversity of organisms their application continues to grow, setting new

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Fish Physiology: Physiology of Elasmobranch Fishes, Volume 34A is a useful reference for fish physiologists, biologists, ecologists, and conservation

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biologists. Following an increase in research on elasmobranchs due to the plight of sharks in today's oceans, this volume compares elasmobranchs to other groups of fish, highlights areas of interest for future

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Read Book Tuna Physiology Ecology And Evolution Volume 19 Physiological Ecology And Evolution Fish Physiology series. Provides needed comprehensive content on the physiology of elasmobranchs Offers a systems approach between structure and interaction with the environment and internal physiology Contains

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perspective on future
problems

Fish accomplish most of their basic behaviors by swimming. Swimming is fundamental in a vast majority of fish species for avoiding predation, feeding,

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finding food, mating, migrating and finding optimal physical environments. Fish exhibit a wide variety of swimming patterns and behaviors. This treatise looks at fish swimming from the behavioral

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and

Unlocking the puzzle of how
animals behave and how they
interact with their
environments is impossible
without understanding the
physiological processes that
determine their use of food

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resources. But long overdue
is a user-friendly

introduction to the subject
that systematically bridges
the gap between physiology
and ecology. Ecologists--for
whom such knowledge can help
clarify the consequences of

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global climate change, the
biodiversity crisis, and
pollution--often find
themselves wading through an
unwieldy, technically top-
heavy literature. Here,
William Karasov and Carlos
Martínez del Río present the

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first accessible and
authoritative one-volume
overview of the
physiological and
biochemical principles that
shape how animals procure
energy and nutrients and
free themselves of

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toxins--and how this relates
to broader ecological
phenomena. After introducing
primary concepts, the
authors review the chemical
ecology of food, and then
discuss how animals digest
and process food. Their

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broad view includes
symbioses and extends even
to ecosystem phenomena such
as ecological stoichiometry
and toxicant

biomagnification. They
introduce key methods and
illustrate principles with

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wide-ranging vertebrate and
invertebrate examples.

Uniquely, they also link the
physiological mechanisms of
resource use with ecological
phenomena such as how and
why animals choose what they
eat and how they participate

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in the exchange of energy and materials in their biological communities.

Thoroughly up-to-date and pointing the way to future research, Physiological Ecology is an essential new source for upper-level

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undergraduate and graduate students—and an ideal synthesis for professionals. The most accessible introduction to the physiological and biochemical principles that shape how animals use

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From Hatchery to Market
Marine Conservation
Zoo Animal and Wildlife
Immobilization and

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Anesthesia

**Physiology of Elasmobranch
Fishes: Internal Processes**

There is considerable
global interest in the
culture of finfish
species both for cold

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wide selection of novel
and established species
is provided in the form
of technical sheets,
species descriptions and
information on current
rearing practices,

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making this a must-have
reference in the field
of aquacultural science.

The book also offers a
basic framework in order
to support investment
strategies for research

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and development efforts
aimed at the emergence
of a profitable finfish
aquaculture industry and
presents a rationale for
species diversification,
different approaches to

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species selection and
basic economical and
market considerations
governing the launch of
strategic development
and commercialization
efforts.

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This book is a multidisciplinary volume that overviews the most recent literature covering the physiology, biomechanics, evolution, and ecology of tunas. It

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examines critical areas of molecular and organismal physiology, phylogeny, ecology, and evolutionary biology.

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electronic tagging of fish are presented. The book covers all aspects of tuna biology, from metabolism and cardiovascular research to reproductive biology.

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* Contains a comprehensive review of tuna biology * Provides a synthesis of archival and pop-up satellite tag technology in tunas * Covers the phylogenetics

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of modern tunas *

Includes color plates on
morphology, physiology,
ecology, and
oceanography

New scientific
approaches have

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dramatically evolved in
the decade since The
Physiology of Fishes was
first published. With
the genomic revolution
and a heightened
understanding of

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molecular biology, we
now have the tools and
the knowledge to apply a
fresh approach to the
study of fishes.

Consequently, The
Physiology of Fishes,

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Third Edition is not merely another updating, but rather an entire reworking of the original. To satisfy that need for a fresh approach, the editors

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have employed a new set
of expert contributors
steeped in the very
latest research; their
contemporary perspective
pervades the entire
text. In addition to new

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chapters on gas
transport, temperature
physiology, and stress,
as well as one dedicated
to functional genomics,
readers will discover
that many of these new

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contributors approach their material with a contemporary molecular perspective. While much of the material is new, the editors have completely adhered to

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the original's style in
creating a text that
continues to be highly
readable and perpetually
insightful in bridging
the gap between pure and
applied science. The

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Physiology of Fishes,
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completely updated with
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continues to be regarded
as the best single-
volume general reference

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on all major areas of
research in fish

physiology. The
Physiology of Fishes,
Third Edition provides
background information
for advanced students as

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well as material of
interest to marine and
fisheries biologists,
ichthyologists, and
comparative
physiologists looking to
differentiate between

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the physiological
strategies unique to
fishes, and those shared
with other organisms.

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