

Marine Mammals Evolutionary Biology

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Marine Mammals Evolutionary Biology

<Emphasis Type='Bold'>Marine mammals: Evolutionary ...

Marine Mammals: Evolutionary Biology (2nd edition) by Annalisa Berta, James L Sumich, Kit M Kovacs New York, Academic Press, 2006, 560 pages, ISBN 0-12-088552-2 £4399 (hardback) Marine mammals are scientiPcally one of the most enigmatic of animal groups to study Although marine mammals are some of the largest of all animals in

BIOL 464- Biology of Marine Mammals - Fall 2018

Marine Mammals Evolutionary Biology 3 rd edition Elsevier, San Diego, USA Lecture notes: Sketches summarizing the lectures that you should download from Canvas before class Scientific articles uploaded to Canvas Evaluation and Grading Mid-term exam (Oct 31st) 15 % Feedback of mid-term exam (Nov 28th) 5 %

MARINE MAMMALS - Bi 416/516

TEXTS: 1) MARINE MAMMALS: EVOLUTIONARY BIOLOGY by Berta, Sumich & Kovacs (2nd ed); 2) GUIDE TO MARINE MAMMALS OF THE WORLD by Reeves, et al; 3) THE EMPTY OCEAN by Ellis (Amazon) CLASS EXPECTATIONS and BASIS FOR GRADE: 1 Students must take the midterm, the 2 lab exams and the final; & participate in necropsies and journal discussions 2

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512 Evolution & Ecology of Marine Mammals (3) x

Biology Course number SU18FA18SP19SU19 Biology Course number SU18FA18SP19SU19 100 General Biology (3) x x x 512 Evolution & Ecology of Marine Mammals (3) x 100L General Biology Laboratory (1) x x 514 Biology of the Algae (4) x 101 World of Animals (3) x x 515 Marine Invertebrate

Biology (4) x 101LWorld of Animals Laboratory (1) x x 516AMarine Larval Ecology Research I (4)

SIO 133 - Marine Mammal Biology

SIO 133 - Marine Mammal Biology Textbook: Marine Mammals: Evolutionary Biology (2nd Edition) Berta, Sumich and Kovacs Supplemental PDF readings posted

Marine Biology Major

Graduates of Marine Biology are prepared for careers in management agencies at the local to international levels, environmental consulting, non-profit organizations and a range of educational settings DECLARE A MAJOR IN MARINE BIOLOGY Marine Biology is an open major that can be declared at any time by currently enrolled UW undergraduates

The Rise of Marine Mammals

of marine mammals Changes in the positions of continents and sea margins have affected ocean circulation patterns and, consequently, food availability and marine mammal distributions A main objective is to illustrate how the evolutionary biology of marine mammals has been enriched by recent remarkable advances in integra-

Marine Mammal Ecology and Conservation / 14-Boyd-Ch14 ...

141 The biology of structure and the role of genetics Genetics has provided new tools to understand units to conserve (UTC) for marine mammals Direct observations of processes important to the management and understanding of marine mammal biology are impossible or costly for most species

Inferring the mammal tree: Species-level sets of ...

obligate marine habitation Ecomorphological disparity accompanying fossil diversity prompted Simpson [6,11,12] to make mammals an original flagship for testing evolutionary models, including that of adaptive radiation Of core societal relevance, mammalian phylogeny has been used to address questions of human origins [13,14], zoonotic disease

Name Period AP Biology Date LAB . WALRUSES AND WHALES ...

In addition, hemoglobin has been studied by many evolutionary biologists, so sequences are available in GenBank from many different organisms PROCEDURE In this lab, we will be testing hypotheses about the evolutionary ancestry of different marine mammals To repeat, we are trying to answer the question: Did marine mammals evolve from a

MARINE MAMMALS GULF COAST RESEARCH LABORATORY ...

This course, Marine Mammals, is a part of the summer field program at the Gulf Coast Research Laboratory and offered through the Department of Coastal Studies, University of Southern Mississippi COURSE DESCRIPTION: The course, Marine Mammals, will cover biology (classification, evolutionary

MARINE MAMMALS AND THE EFFECTS OF NOISE: FACTS ...

8 Berta and Sumich, Marine Mammals: Evolutionary Biology, 261-283 9 Richardson et al, Marine Mammals and Noise, 181-189 Page 5 of 28 The best-studied echolocation system in marine mammals is that of the bottlenose dolphin Bottlenose dolphins produce ...

2017 TETRAPODS SYLLABUS - biology.cofc.edu

1 To develop a solid working knowledge of the biological diversity of the marine reptiles, birds and mammals 2 To thoroughly understand the evolutionary significance of secondary marine adaptations 3 To evaluate the evolutionary relationships of the extinct and living marine tetrapods 4

Biology Notes Marine Biology - University of North ...

UNCW's Department of Biology and Marine Biology is home to several investigators focusing on the biology of phytoplankton. The breadth of these studies reflects the diversity of phytoplankton and the utility with which they can be used to address questions in ecology, evolutionary biology, cell physiology, and biochemistry and other areas.

Faculty of Science Course Syllabus Department of Biology

Marine Mammals: evolutionary biology QL 7132 B47 1999 Evans, Peter GH and Raga, JA (eds) Marine Mammals Biology and Conservation QL 7132 M354 2001 Boyd, I (ed) Marine mammals: advances in behavioural and population biology QL 1Z8 1992

Universal General Education Transfer Component

Marine Biology Core Requirement Not Completed Prior OR BIO Elective* Marine Botany Invertebrate Zoology Marine Mammals Coral Reef Biology Fisheries Biology Coastal Marine Biology Behavioral Ecology Evolutionary Biology Honors Work in Biology Introduction to Coastal Management Directed Independent Study Internship in Biology Advanced Topics in

Diving Physiology of Marine Vertebrates

Diving Physiology of Marine Vertebrates Daniel P Costa, Department of Ecology and Evolutionary Biology, University of California-Santa Cruz, Santa Cruz, California, USA Air-breathing marine vertebrates that dive to find food deal with two fundamental problems, the effects of pressure at depth, and the need to actively forage while breathholding.

The Rise of Marine Mammals

The Rise of Marine Mammals Annalisa Berta, James L Sumich Published by Johns Hopkins University Press Berta, Annalisa and James L Sumich The Rise of Marine Mammals: 50 Million Years of Evolution

Ancient convergent losses of Paraoxonase 1 yield potential ...

losses across independent marine mammal lineages. In one extreme case, Paraoxonase 1 (PON1) accrued lesions in all marine lineages, while remaining intact in all terrestrial mammals. These lesions coincide with PON1 enzymatic activity loss in marine species' blood plasma. This convergent loss is likely explained by parallel