

evolutionary biology of hearing pdf

Because the osseous inner ear is the housing of the organ of hearing and balance, it has been proposed that its morphology could reflect adaptation for certain types of locomotion and hearing specialization (e.g., West, 1985; Ketten, 1992; Spoor et al., 2007; Silcox et al., 2009).

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To develop a science of hearing that is intellectually satisfying we must first integrate the diverse, Marine Laboratory in Sarasota, Florida, May - extensive body of comparative research into an 24, 1990. The invited participants came from the evolutionary context.

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Evolutionary Biology of Hearing For well over 100 years, investigators have pondered questions regarding the evolutionary origin of the vertebrate ear and about how the ear evolved from its most primitive form to that found in modern mammals.

Evolutionary Biology of Hearing | CCEBH

The evolutionary biology of hearing 1 Douglas B. Webster, Richard R. Fay, Arthur N. Popper, editors. p. cm. Based on a conference held at the Mote Marine Laboratory in Sarasota, Fla., May 20-24, 1990. Includes bibliographical references and index. ISBN-13:978-1-4612-7668-5 1. Ear-Evolution-Congresses. 2. Hearing-Congresses. 3.

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The Evolutionary Biology of Hearing With 355 Illustrations, 2 in Full Color Springer-Verlag New York Berlin Heidelberg London Paris ... main sources of data on the evolution of the soft structures of the hearing organ are comparative anatomical and neurophysiological studies, which

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To develop a science of hearing that is intellectually satisfying we must first integrate the diverse, Marine Laboratory in Sarasota, Florida, May - extensive body of comparative research into an 24, 1990.

The Evolutionary Biology of Hearing | Douglas B. Webster

Given the value of sound localization to the survival of an animal, it is not surprising that the need to localize sound has been implicated as a primary source of selective pressure in the evolution of mammalian hearing (Masterton et al. 1969; Masterton 1974).

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This is a brief introduction to evolutionary biology. I attempt to explain basics of the theory of evolution and correct many of the misconceptions. What is Evolution? Evolution is a change in the gene pool of a population over time. A gene is a hereditary unit that can be passed on unaltered for many generations.

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EVOLUTIONARY BIOLOGY Molecular parallelism in fast-twitch muscle proteins in echolocating mammals ... proteins that could contribute to high-frequency hearing adaptations. Our screen also showed that echolocating ... evolution or are conservative replacements (similar physicochemical properties of amino acids) (table S1). ...

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Evolutionary Biology Evolutionary Thought before Darwin The modern field of evolutionary biology can be traced back to Charles Darwin. There were ideas about biological change and interactions between organisms prior to Darwin that influenced his thinking. An understanding 2

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Few areas of science have experienced such a blending of laboratory and field perspectives as the study of hearing. The disciplines of sensory ecology and neuroethology interpret the morphology and physiology of ears in the adaptive context in which this sense organ functions.

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This note covers the following topics: What is Evolution, Common Misconceptions about Evolution, Genetic Variation, Evolution within a Lineage, Mechanisms that Decrease Genetic Variation, Mechanisms that Increase Genetic Variation, The Development of Evolutionary Theory, Evolution Among Lineages, Scientific Standing of Evolution and its Critics, Importance of Evolution in Biology.

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The need for this integration of fields of comparative anatomy, physiology, biophysics, and a conceptual framework in which it could be structured, were demonstrated in landmark biology, ontogeny, and paleontology.

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