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SpringerBriefs in Earth System Sciences

A Review of the Phylogenetic Relationships of the Theropods Unenlagiidae, Microraptoria, Anchiornis and Scansoriopterygidae Avian Ancestors, SpringerBriefs in Earth System Sciences,

REVIEW ARTICLE The evolution of avian migration

navigate However, placing our knowledge of avian migration in an evolutionary context has been less well accomplished The present review considers past thoughts on the evolution of migration and suggests *E-mail: zinkx003@umnedu an agenda for future research Biological Journal of the Linnean Society, 2011, 104, 237-250 With 6 figures

Reviews - JSTOR

sible avian ancestors and the events that led to full flapping flight Shipman approaches the various is-sues with a narrative style, thorough documentation, and an appreciation of the nature of scientific debate Several minor errors and omissions crept in but none relevant to the overall message Archaeopteryx, with a classical mixture of morpho-

F. Agnolín, Floods in Megacity Porous Models for Wave ...

Avian Ancestors A Review of the Phylogenetic Relationships of the Theropods Unenlagiidae, Microraptoria, Anchiornis and Scansoriopterygidae Although consensus exists among researchers that birds evolved from coelurosaurian theropods, paleontologists still debate the identification of the group of coelurosaurians that most closely

Commentary - Yale University

avian origin In response to my request for an explicit al-ternative hypothesis of avian origin, Feduccia (2002) concluded that “there are times when there is insuffi cient evidence to make the for-mulation of a hypothesis feasible” Here, he is not actually engaged in the search for a scien-tifi c solution to the question of avian origins

Potential for Powered Flight Neared by Most Close Avialan ...

avian body plan culminated in rapid rates of evolution across the dinosaur-bird transition Current Biology 24, 2386-2392 S5 Agnolín, FL, and Novas, FE (2013) Avian ancestors: a review of the phylogenetic relationships of the theropods Unenlagiidae, Microraptoria, Anchiornis and Scansoriopterygidae, (Dordrecht: Springer) S6

AVIAN EVOLUTION An integrative approach to understanding ...

REVIEW An integrative approach to understanding bird origins Xing Xu,1* Zhonghe Zhou,1 Robert Dudley,2 Susan Mackem,3 Cheng-Ming Chuong,4,7 Gregory M Erickson,5 David J Varricchio6 Recent discoveries of spectacular dinosaur fossils overwhelmingly support the hypothesis

T. Alexander Dececchi - bioRxiv

Table 3) We only included non-avian theropods as previous work has suggested significant allometric and functional shifts in the limbs of early avians compared to their non-avian ancestors [15] This dataset was then expanded to 77 specimens by including multiple taxa without SVL measurements to capture more non-avian

Identity of the Avian Wing Digits: Problems Resolved and ...

Identity of the Avian Wing Digits: Problems Resolved and Unsolved Rebecca L Young,1* Gabe S Bever,2 Zhe Wang,1 and Gu“nter P Wagner1 Controversy over bird wing digit identity has been a touchstone for various ideas in the phylogeny of birds, homology, and developmental evolution This review summarizes the past 10 years of progress to-

Phylogenetic Context for the Origin of Feathers

The purpose of this paper is to review the phylogenetic context for the origin of feath-ers in light of these recent developments in avian paleontology and systematics The re-view is organized into three basic areas: competing hypotheses for the origin of birds and their impact on a most parsimo-

nious origin of feathers; new discoveries

77, 3 2002 *The Quarterly Review* - Yale University

262 THE QUARTERLY REVIEW OF BIOLOGY Volume 77 initial function of feathers are reviewed The aerodynamic theory of feather origins is falsified, but about the biology of avian ancestors Func-September 2002 263EVOLUTION AND DIVERSIFICATION OF FEATHERS Figure 1 The Branched Structure of a Pennaceous Feather

The Evolution of Unidirectional Pulmonary Airflow

the avian and mammalian lineages evolved very different respiratory systems I suggest the difference in design is due to the same selective pressure, expanded aerobic capacity, acting under different environmental conditions High levels of atmospheric oxygen of the Permian Period relaxed selection for a

THE AVIALAE A. What is a bird? Shared, derived ...

facilitate the unique, bellows-like avian respiratory system Bladderless urinary tract: nothing is retained that is unnecessary and might inhibit flight A key point of bird evolution The traits above did not evolve all at once They accumulated over millions of years and in many taxa leading from theropod B Archaeopteryx lithographica

The Evolution of Birds and the Origin of Flight

This theory states that the ancestors of birds were tree-dwellers that jumped from branch to branch (Feduccia 2001a) Wings and feathers developed, allowing them to glide and fly This concurs with the Pseudosuchian thecodont hypothesis Literature Cited Feduccia, A 2001a Evolution of birds and avian flight In Handbook

\$ Y L D Q (Y R O X W L R Q 7 K H) R V V L O 5 H F R U G R I ...

Avian Evolution begins with reviews of evidence bearing on the origin of feathers, avian flight, and Mesozoic avian coloration Most all of these attributes were likely to have been influenced, to varying degrees, by the morphology and lifestyles of the immediate ancestors of the earliest birds Mayr dutifully recounts and accepts the currently

Evo-Devo of amniote integuments and appendages

skin to avian feathers and mammalian hairs A special review issue from J Expt Zoology / Molecular and Developmental Evolution Section is dedicated to the topic of Development and Evolution of amniote Integuments (Chuong and Homberger ed Volume 298B, Aug, 2003) A more detail coverage can be found there 2 Diversity of integument appendages

1 H V W V (J J V D Q G , Q F X E D W L R Q 1 H Z , G H D V D E ...

perspective of avian egg nesting and incubation from the fossil record An ambitious review of current research on fossil evidence, it provides enduring information in Table 21 and a narrative review of our current understanding of where the precursors of modern avian behavior are found in avian ancestors The volume then moves forward in

A new clade of basal Early Cretaceous pygostylian birds ...

A new clade of basal Early Cretaceous pygostylian birds and developmental plasticity of the avian shoulder girdle Min Wang^{a,b,1}, Thomas A Stidhama^b, and Zhonghe Zhou^{a,b,1} ^aKey Laboratory of Vertebrate Evolution and Human Origins, Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences, Beijing 100044, China; and ^bCenter for Excellence in Life and

REVIEWS - Sora

sive review of the avian paleontological literature (Quaternary excepted) since the publication of Brodkorb's Catalog of Fossil Birds (in parts, 1963-1978), with the author's critical commentary on avian systematics and on other workers' treatment of avian fossils Olson begins with a brief introduction