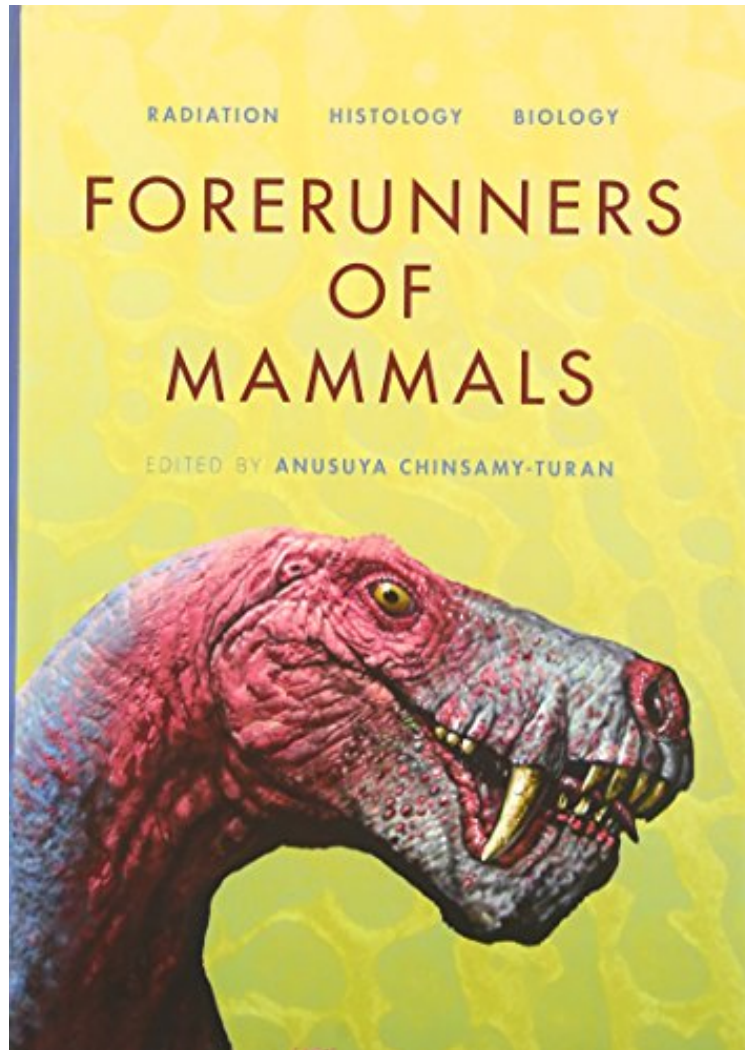


[Pdf free] Forerunners of Mammals: Radiation Histology Biology (Life of the Past)

Forerunners of Mammals: Radiation Histology Biology (Life of the Past)

From Indiana University Press
*DOC | *audiobook | ebooks | Download PDF | ePub*



 Download

 Read Online

#1591840 in Books 2011-11-18 2011-11-18 Original language: English PDF # 1 10.00 x 1.10 x 7.00l, 2.25
#File Name: 0253356970352 pages | File size: 30.Mb

From Indiana University Press : Forerunners of Mammals: Radiation Histology Biology (Life of the Past)
before purchasing it in order to gauge whether or not it would be worth my time, and all praised Forerunners of Mammals: Radiation Histology Biology (Life of the Past):

36 of 37 people found the following review helpful. Not what you expect! By Scott McKenzie This is a book about histology, bone microstructure. There is one chapter on the diversity and evolution of the early mammal-like reptiles. There are some great color pictures of the animals but make no mistake, most of this book is on histology. I am very interested in early mammal relations and the histology does have clear implications for their life styles. This is like a

book on the life of Lincoln with almost all of the volume dealing with his bone microstructure. The title should have reflected the true content! There is room for a book that does speak to the title of this book, Perhaps someone will write it. 24 of 25 people found the following review helpful. Can't Tell a Book.....By Dr. John W. Rippon The old adage "you can't tell a book by its cover" is certainly applicable to "Forerunners of the Mammals". A correlative added could be "don't put too much stock in a publisher's pronouncements about a new book". This book has some significant information within it and a few chapters are well written (chapter 1, 2, 11) but for the most part this is a compilation of bone histology studies and is meant for the "special" specialist. This reminds me of a book I once read on the minute details of the egg shells of turtles, lizards, snakes, birds, dinosaurs and mammals. Lots of information but a little can go an awfully long way particularly for the non-specialist. I'm sure a book on therapsid bone histology is warranted but title it as such. Yes, some summary information may help in understanding survival, radiation and persistence of a species in one or several climates and geographic locations but pages and pages dulls the mind. I agree with the first reviewer that an update and in depth book on the therapsids is sorely needed. This one simply wets the appetite. 7 of 7 people found the following review helpful. An Academic Review Of All Things Proto-Mammalia, Not For Lightweights! By Larry Cosgrove If you have an endearing interest in how reptiles gave rise to mammals (and of that matter, dinosaurs and birds), you will love "Forerunners Of Mammals". Easily the best footnoted and scientific book on mammal ancestry (centered largely on the more familiar pelycosaurs, cynodonts, and early mammals), this writing largely skips the "cute furball picture" route and takes the reader to the science behind evolution. If reading about fossilized bone structure, jaw diversion and cladistics bores you, do not buy this book! However, if you are looking for a great example of paleobiology for your classroom or library, Chinsamy-Turan's compilation of selections from authors versed in the field of diapsid/therapsid relationship cannot be beat. This is involved scholarship, and frankly I wish that we see more of its kind in dealing with other evolutionary topics. Worth the price, and deserving of a five-star rating.

About 320 million years ago a group of reptiles known as the synapsids emerged and forever changed Earth's ecological landscapes. This book discusses the origin and radiation of the synapsids from their sail-backed pelycosaur ancestor to their diverse descendants, the therapsids or mammal-like reptiles, that eventually gave rise to mammals. It further showcases the remarkable evolutionary history of the synapsids in the Karoo Basin of South Africa and the environments that existed at the time. By highlighting studies of synapsid bone microstructure, it offers a unique perspective of how such studies are utilized to reconstruct various aspects of biology, such as growth dynamics, biomechanical function, and the attainment of sexual and skeletal maturity. A series of chapters outline the radiation and phylogenetic relationships of major synapsid lineages and provide direct insight into how bone histological analyses have led to an appreciation of these enigmatic animals as once-living creatures. The penultimate chapter examines the early radiation of mammals from their nonmammalian cynodont ancestors, and the book concludes by engaging the intriguing question of when and where endothermy evolved among the therapsids.

"This volume represents a state-of-the-art contribution to our understanding of the paleobiology of how mammals arose, and what factors contributed to their evolutionary radiation and eventual success. It is highly recommended for anyone interested in these topics, and will be accessible to readers with minimal background in bone histology and synapsid paleontology." Quarterly of Biology "[T]he authors of Forerunners of Mammals have assembled a tremendous amount of information in both paleontology and paleohistology, and the book deserves very serious consideration and appreciation." Journal of Vertebrate Paleontology The evolutionary lineage that eventually led to mammals split off from the rest of the tetrapods soon after vertebrates dragged themselves out of the water. This book uses a combination of in-depth literature reviews and original research to trace the rise of mammals from these earliest origins. Specifically, the authors use detailed analyses of the microstructure of fossilized bones to follow the transition from reptilian synapsids to the familiar warm-blooded creatures of today. The book relates fine osteological anatomy to the distribution, ecology, physiology, and behavior of mammalian ancestors. Forerunners of Mammals is full of meticulous detail... However, it also contains a number of excellently rendered illustrations of some of the animals covered in the book, and the final chapter is a discussion of the evolution of endothermy that anyone with a background in biology might find of interest. Summing Up: Recommended. Upper-division undergraduates and above. --Choice J. L. Hunt, University of Arkansas--Monticello, July 2012 "Forerunners of Mammals is full of meticulous detail... [I]t also contains a number of excellently rendered illustrations of some of the animals covered in the book, and the final chapter is a discussion of the evolution of endothermy that anyone with a background in biology might find of interest.... Recommended." Choice "Forerunners of Mammals will take interested readers beyond the classic jaw-to-ear appreciation of therapsids, towards a deeper appreciation of the ancestry of mammals." Journal of Mammalian Evolution "Ever since Nick Hotton's book from the 1980s we have needed an update on the biology of therapsids, and it has been Anusuya Chinsamy-Turan and her students and associates who through their bone histological work have made the greatest progress in this field." Martin Sander, Steinmann Institute, University of Bonn About the Author Anusuya Chinsamy-Turan is a paleobiologist and global expert on fossil bone microstructure.

She is Professor and Fellow of the University of Cape Town, South Africa, and is former director of the National History Collections, Iziko Museums of Cape Town. She is author of *The Microstructure of Dinosaur Bone: Deciphering Biology through Fine Scale Analysis* and *Famous Dinosaurs of Africa*.