



Cardio-Respiratory Control in Vertebrates: Comparative and Evolutionary Aspects

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Hopefully, this book will be taken off of the shelf frequently to be studied carefully over many years. More than 40 researchers were involved in this project, which examines respiration, circulation, and metabolism from fish to the land vertebrates, including human beings. A breathable and stable atmosphere first appeared about 500 million years ago. Oxygen levels are not stable in aquatic environments and exclusively water-breathing fish must still cope with the ever-changing levels of O₂ and with large temperature changes. This is reflected in their sophisticated countercurrent systems, with high O₂ extraction and internal and external O₂ receptors. The conquest for the terrestrial environment took place in the late Devonian period (355–359 million years ago), and recent discoveries portray the gradual transitional evolution of land vertebrates. The oxygen-rich and relatively stable atmospheric conditions implied that oxygen-sensing mechanisms were relatively simple and less gain compared with acid–base regulation. Recently, physiology has expanded into related fields such as biochemistry, molecular biology, morphology and anatomy. In the light of the work in these fields, the introduction of DNA-based cladograms, which can be used to evaluate the likelihood of land vertebrates and lungfish as a sister group, could explain why their cardio-respiratory control systems are similar. The diffusing capacity of a duck lung is 40 times higher than that of a toad or lungfish. Certainly, some animals have evolved to rich high-performance levels.

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