

## The Life of Air Breathing Fishes, 2 Vols



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### ***Reviews***

*This written book is excellent. It really is rally fascinating throug studying period. You are going to like the way the writer write this publication.*

*(Hadley Ullrich)*

## THE LIFE OF AIR BREATHING FISHES, 2 VOLS



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Narendra Publishing House, 2009. Hardcover. Book Condition: New. The exploratory work on the structure, function and development of the gills and accessory respiratory organs of air-breathing Fishes was initiated by me at Banaras Hindu University. Since then the work diversified in different directions with the application of new techniques. The bimodal breathing in early Vertebrates evolved during the Devonian period in Dipnoi and palaeoniscoidea (Chondrostei) group of fishes. They have developed lungs and gills for breathing both air and water. The living genera Polypterus and Polyodon are found in the Nile river in Africa and Mississippi in North America. From the Palaenioscoidea-Lepisosteus stalk, the Holosteans have evolved. Only a few genera like *Amita calva* of North America and *Acipenser* of Europe live in the Sea but migrate up the River Volga in Russia. During the Traissic period the modern group of teleostean fishes (Leptolepimorpha) have evolved from the Holostei. By this time the lungs got transformed into the air-bladder as they migrated into the Seas. During the tertiary period there was depletion of oxygen in the Atmosphere and many teleostean fishes migrated back into Freshwater from the sea. They were living in Rivers and the swampy wetlands in the river basin. As a result they had to gulp in air in the water-air interface. The result is in the development of new organs the accessory respiratory organs from the pharyngeal-chamber. Several palaeo-ecological factors were responsible for the evolution of the air-breathing habit in fishes. They are oxygen depletion, high-temperature, less Rainfall and the drying up of the swamps and wetlands. The evolutionary History of air-breathing habit in early vertebrates has been traced in relation to Environmental conditions. The Transition from aquatic to aerial respiration require several Structural modifications of the respiratory organs and their vascular supply. In bimodal breathing Fish...



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