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Descrizione fisica	1 online resource (300 p.)
Altri autori (Persone)	HedrickMichael S FernandesJ. M. O IcardoJose M
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Soggetti	Fishes - Phylogeny Fishes - Anatomy Fishes - Physiology
Lingua di pubblicazione	Inglese
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Note generali	A Science Publishers book.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Front Cover; Preface; Contents; 1. Phylogenetic Introduction; 2. The Occurrence and Function of the NOS/NO System in the Heart of the Eel and the African Lungfish; 3. Evolutionary Aspects on the Comparative Biology of Lungfishes: Emphasis on South-American Lungfish, <i>Lepidosiren paradoxa</i> ; 4. Developmental Physiology of the Australian Lungfish, <i>Neoceratodus forsteri</i> ; 5. Aestivation in African Lungfishes: Physiology, Biochemistry and Molecular Biology; 6. Anatomy of the Heart and Circulation in Lungfishes; 7. The Cardiac Outflow Tract of Primitive Fishes 8. Control of Breathing in Primitive Fishes 9. The Lung-Swimbladder Issue: A Simple Case of Homology-Or Not?; 10. The Gut and Associated Organs in the African Lungfish <i>Protopterus annectens</i> ; 11. Morphology, Histology, and Functional Structure of the Alimentary Canal of Sturgeon; 12. The Structural Organization in the Olfactory System of the Teleosts and Garfishes; 13. Hagfish Slime and Slime Glands

## Sommario/riassunto

This book on ancient fishes unites the work of many specialists coming from different areas of biology. Hagfishes, lungfishes, Chondrosteans, and Holosteans constitute the main subject of study. Fossil records and extant species are compared to establish the conservation or the degeneration of specific characters. However, phylogenetic relationships have mostly been revisited in the light of new molecular and developmental data. The morphology of several organs is also revisited. This volume includes a phylogenetic account of the cardiac outflow tract, and the particulars of the heart and circ

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