

Haeckel, 1866: “Ontogeny recapitulates phylogeny”

MODIFICATIONS
OF PHYLOGENY



MODIFIED
ONTOGENY
(heterochrony is
an auxillary factor)
“BIOGENETIC LAW”



MODIFIED
PHYLOGENY

Modern paradigm: “Ontogeny produces phylogeny”

MODIFICATIONS
OF ONTOGENY



MODIFIED
ONTOGENY
(heterochrony is
a main factor)
PHYLOTYPIC PERIODS



MODIFIED
PHYLOGENY

Ontogeny And Systematics

Jin-Ying Zhang

Ontogeny And Systematics:

Ontogeny and Systematics Christopher John Humphries, 1988 This collection of short stories focuses on the Scottish civil war of 1644-45 in which the Marquis of Montrose led his royalist forces in a series of stunning victories against the odds before his final defeat at Philiphaugh. Each of Hogg's five tales centres on one of the five major battles of Montrose's brilliant but ultimately futile campaign. Each tale is utterly different from the others in genre and tone but taken together they build up a composite picture of what it was like to experience the anarchy and confusion of the time at first hand.

Ontogeny and Systematics of Fishes, Based on an International Symposium Dedicated to the Memory of Elbert Halvor Ahlstrom ... Held August 15-18, 1983, La Jolla, California NMFS, NOAA, 1984 *Ontogeny and Systematics of Fishes*, 1901 **Ontogeny and Systematics of fishes**, 1984 **Ontogeny And Systematics** C.J. Humphries, **Ontogeny and Systematics of Fishes**, 2015-08-05

Excerpt from *Ontogeny and Systematics of Fishes* Based on an International Symposium Dedicated to the Memory of Elbert Halvor Ahlstrom. The National Marine Fisheries Service organized, supported, and conducted an international symposium entitled *Ontogeny and Systematics of Fishes* held in La Jolla, California, on August 15-18, 1983, and dedicated to the memory of Elbert Halvor Ahlstrom. Dr. R. Lasker served as convener. The papers presented at that symposium form the basis for this book, which is published by the American Society of Ichthyologists and Herpetologists as their Supplement to *Copeia* Special Publication Number 1. Financial support was provided by the National Marine Fisheries Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce. For many years Dr. Ahlstrom planned to write a book on larval fishes and ways in which they contributed to systematics. A few years before his untimely death he and his colleague H. G. Moser outlined such a book and began to work on the initial chapters. Dr. Ahlstrom left a vast store of notes, data, and partly completed manuscripts. Dr. Moser realized that much of the significance of these unique and important data would be lost unless they were brought to light. He approached colleagues at the Southwest Fisheries Center to gather a group of larval fish workers who had worked closely with Dr. Ahlstrom and who were given access to his notes to collaborate on the book. From this initiative a plan developed to conduct a symposium and publish the results in a book to accomplish the original plan of Dr. Ahlstrom and honor his memory as one of the nation's foremost fishery scientists. A symposium steering committee was formed with H. G. Moser as Chairman and consisted of D. M. Cohen, M. P. Fahay, A. W. Kendall Jr., W. J. Richards, and S. L. Richardson. The steering committee first met in Boulder, Colorado, to develop an outline for the symposium and book and invite potential contributors. The aim was to present the current state of knowledge of early life history of fishes and apply that to systematics. Originally it was intended to concentrate solely on the marine groups with which Dr. Ahlstrom had worked, but because of recent advances in freshwater and other early life history work the plan was expanded to include all but the primitive osteoglossomorphs. Thus the coverage was to start with the elopomorphs. Following the Boulder meeting potential contributors were contacted and responded enthusiastically. The Steering Committee met

subsequently in Ocean Springs Mississippi and Miami Florida to review progress and refine plans Because of the subject matter it seemed appropriate that the American Society of Ichthyologists and Herpetologists collaborate in publishing the papers resulting from the symposium C R Robins then President of ASIH supported this suggestion and assisted in many ways Subsequent to the symposium manuscripts were reviewed and edited by the Steering Committee of the Symposium which served as an editorial committee for this volume The Steering Committee thanks all of the authors of this volume among whom there was a great exchange of ideas and generous help Much additional assistance was provided to the authors and is here acknowledged Institutional support was provided by the National Marine Fisheries Service through contributions from each of the four Fisheries Centers Southwest Southeast Northwest and Alaska and Northeast Support was provided by the National Science Foundation through grants Deb 76 82279 Deb 78 26540 the National Geographic Society by grant 2535 82 from the Committee for Research and Exploration the Robert E Maytag Fellowship at the University of Miami Natural History Museum of Los Angeles County the Australian Museum Trust the Australian Marine Science and Technologies Advisory Committee the Commonwealth Science and Industrial Research Organization Science and Industry

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Service,1984 Ontogeny and Systematics in Sponges G. Lévi,1957 Ontogeny and Systematics of Fishes. Based on an International Symposium Dedicated to the Memory of Elbert Halvor Ahlstrom, Held 115-18 Aug, 1983, La Jolla, California ,1984 Ontogeny and Systematics of Fishes ,1984 **Ontogeny and Systematics of Fishes** Elbert Halvor Ahlstrom,National Marine Fisheries Service (Washington, D.C.),1984 **Fishery Bulletin** ,1989 **California**

Cooperative Oceanic Fisheries Investigations Progress Report ,1988 **Nature** Sir Norman Lockyer,1909 **Annals of the Entomological Society of America** ,1990 California Cooperative Oceanic Fisheries Investigations, Progress Report California Cooperative Oceanic Fisheries Investigations (Program),1988 **The Ecology of Marine Fishes** Larry G.

Allen,Daniel J. Pondella,Michael H. Horn,2006 A masterful accomplishment Allen Pondella and Horn have assembled a talented team of experts who produce authoritative up to date accounts This book will be used as the primary text in many fish biology courses and as a valuable reference elsewhere Here is a wealth of data waiting to be mined by legions of graduate students as they generate the new ideas that will motivate marine ecology for years Peter Sale Editor of Coral Reef Fishes Dynamics and Diversity in a Complex Ecosystem A copiously illustrated and comprehensive interpretation of the past present and future state of over 500 species of fishes in Californian waters A compilation of virtually all the many important studies on the ecology of California marine fishes Bruce B Collette National Marine Fisheries Service and co author of The Diversity of Fishes Aquatic Sciences and Fisheries Abstracts ,1985-10 **Proceedings of the Michigan**

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