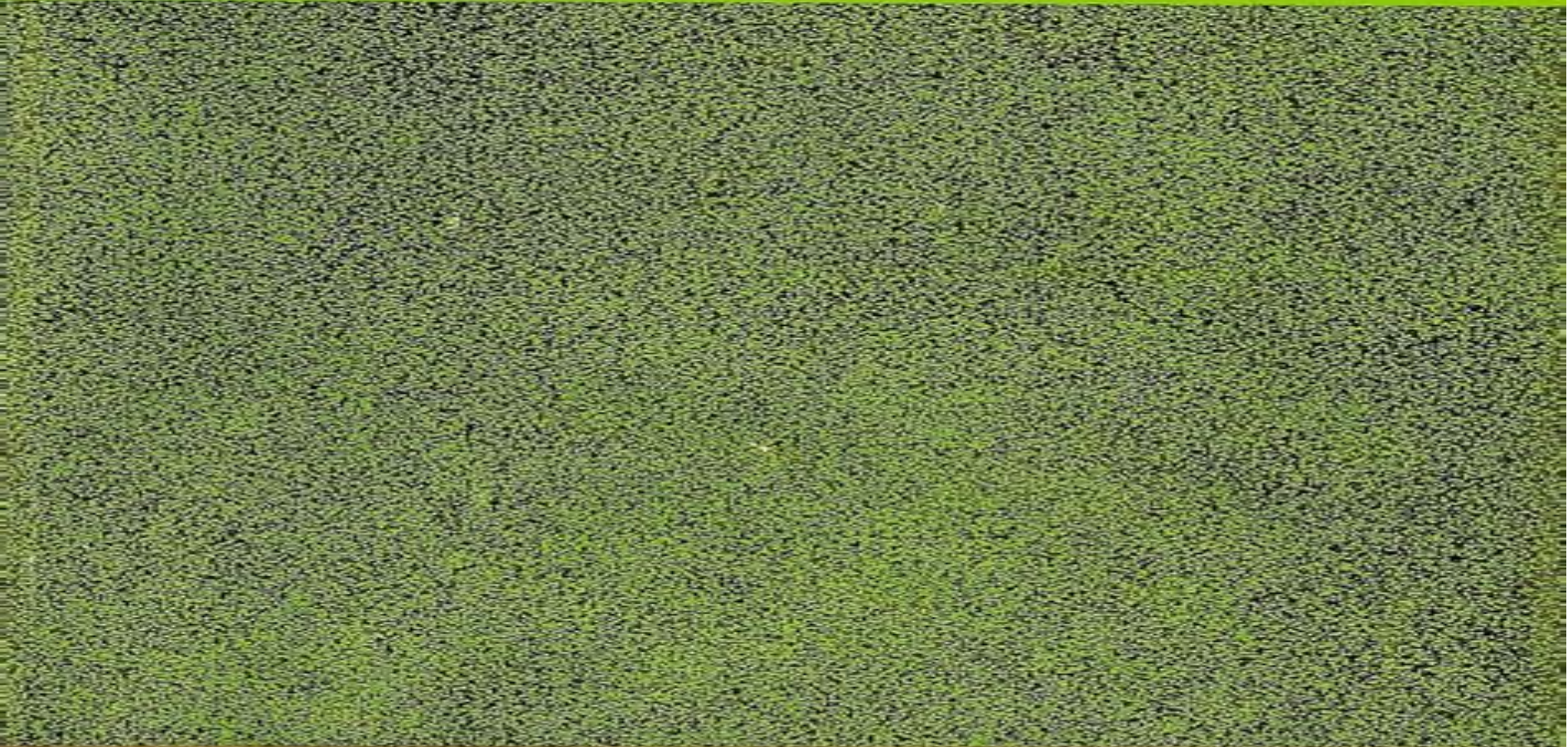


Structure and Habit in Vertebrate Evolution

G. S. Carter

BIOLOGY SERIES



Structure And Habit In Vertebrate Evolution

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Structure And Habit In Vertebrate Evolution:

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Epigenetic Principles of Evolution Nelson R Cabej, 2011-11-22 This is the first and only book so far to deal with the causal basis of evolution from an epigenetic view By revealing the epigenetic user of the genetic toolkit this book demonstrates the primacy of epigenetic mechanisms and epigenetic information in generating evolutionary novelties The author convincingly supports his theory with a host of examples from the most varied fields of biology by emphasizing changes in developmental pathways as the basic source of evolutionary change in metazoans Original and thought provoking

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Biology of the Cyclostomes M. W. Hardisty, 2013-11-11 The proliferation of scientific texts and their rapidly escalating costs demands of an author some justification for the production of yet another specialised volume particularly one that treats of a relatively obscure group of animal the Cyclostomes whose significance is little appreciated outside the circle of professional biologists Yet within the zoological literature this group of vertebrates has always commanded a degree of attention quite disproportionate to the comparatively small numbers of species involved or their economic importance This special interest stems in the main from their unique phylogenetic status As jawless vertebrates the hagfish and the lamprey are regarded as the sole survivors of a once flourishing group of Palaeozoic vertebrates the Agnathans amongst which are numbered the first vertebrates to appear in the fossil record Because of this relationship to the fossil agnathans it was inevitable that past discussion of the phylogenetic significance of the cyclostomes should have been dominated by comparative anatomists and palaeontologists although in recent years their unique evolutionary position has increasingly attracted the interest of comparative physiologists and students of molecular evolution Within the last fifteen years both the hagfish and the lamprey have been the subject of separate publications describing in detail many aspects of their morphology physiology and life cycles Brodal A and Fiinge R The Biology of Myxine 1963 Hardisty M W and Potter I C The Biology of Lampreys 1971 72

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