



## The Origin of Animal Body Plans: A Study in Evolutionary Developmental Biology

By Arthur, Wallace

Cambridge University Press, 2000. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface; Acknowledgements; Part I. Introduction: 1.1 A developmental approach to an evolutionary problem; 1.2 The early history of the animal kingdom; 1.3 Alternative strategies; 1.4 Creation versus destruction; 1.5 Systematics and the concept of natural classification; 1.6 Micromutation versus macromutation; 1.7 Developing organisms as inverted cones; Part II. What is a Body Plan?: 2.1 Body plans and taxonomic levels; 2.2 Body plans, cladograms and homology; 2.3 Body plans and embryology; 2.4 Body plans, genes and mutations; 2.5 Body plans, adaptation and environments; Part III. Patterns of Body Plan Origins: 3.1 Strategy; 3.2 Patterns of metazoan inter-relationships; 3.3 Early fossils: from cladograms to trees; 3.4 Bringing back morphology; 3.5 Paleocology and possible adaptive scenarios; Part IV. Evolutionary Developmental Biology: 4.1 From pattern to mechanism; 4.2 The aims of Evolutionary Developmental Biology; 4.3 A brief history; 4.4 Is there a theory of development?; Part V. Developmental Mechanisms: Cells and Signals: 5.1 Strategy; 5.2 Cellular processes and architecture; 5.3 Short-range signals: cell-cell contacts; 5.4 Mid-range signals and the nature of 'morphogens'; 5.5 Long-range signals and pan-organismic co-ordination; 5.6 Patterns of interconnection: developmental programmes; Part VI...



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