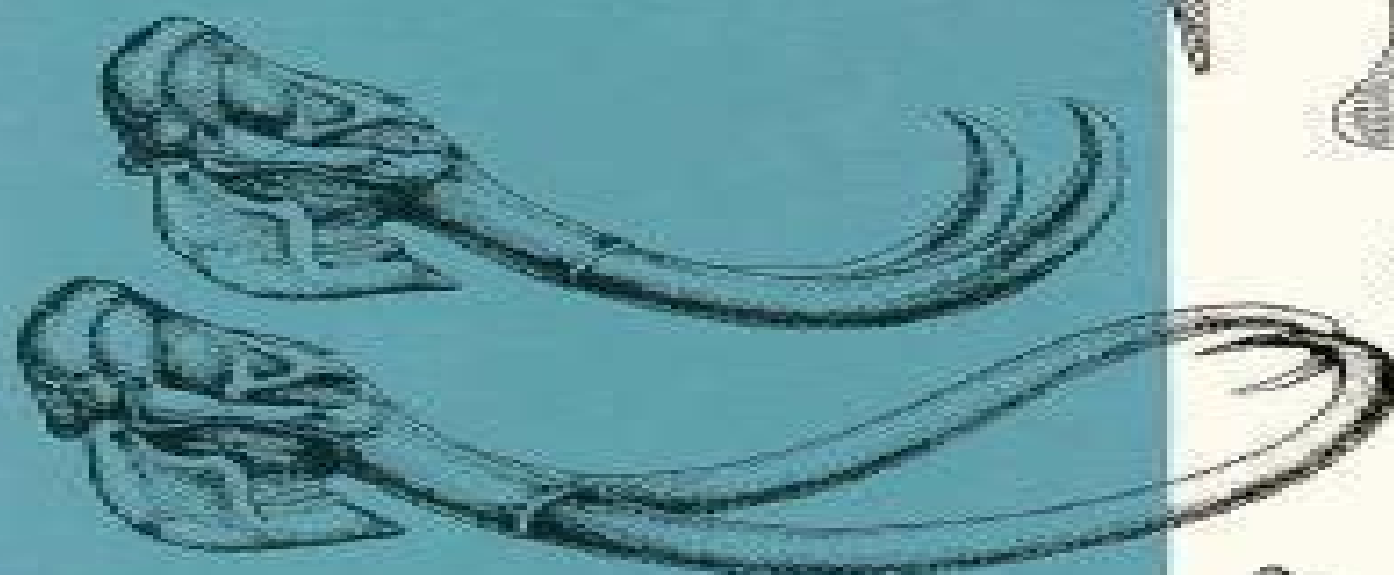


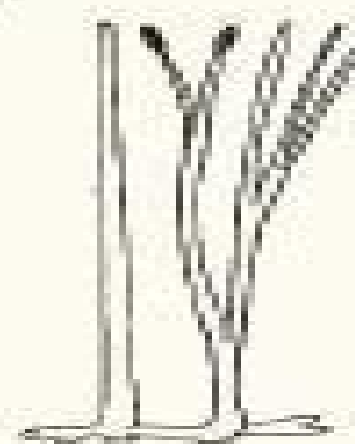
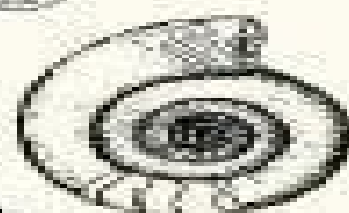
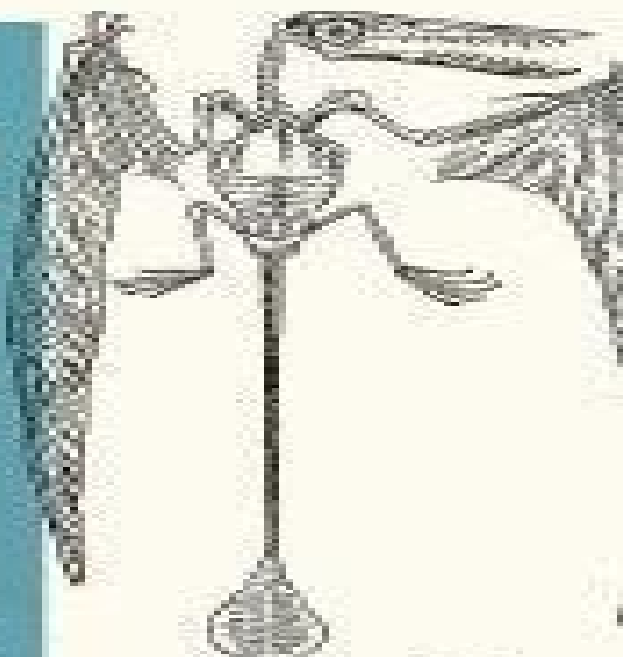
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BASIC QUESTIONS IN Paleontology

Geologic Time,
Organic Evolution, and
Biological Systematics



*Translated by
Judith Schaefer
Revised and with an Afterword by
Wolf-Ernst Reif
With a Foreword by
Stephen Jay Gould*



Basic Questions In Paleontology Geologic Time Organic Evolution And Biological Systematics

Richard G. Delisle



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Basic Questions in Paleontology Otto H. Schindewolf, 1993 Now available in English for the first time Basic Questions in Paleontology is a landmark work in twentieth century evolution and paleontology Originally published in German in 1950 Schindewolf's book was highly controversial for its thoroughgoing anti Darwinism but today his ideas are remarkably relevant to current research in evolutionary biology This book would rank number one on my list of items awaiting translation from the history of twentieth century evolutionary theory Stephen Jay Gould Natural Selection Richard G. Delisle, 2021-02-27 This book contests the general view that natural selection constitutes the explanatory core of evolutionary biology It invites the reader to consider an alternative view which favors a more complete and multidimensional interpretation It is common to present the 1930 1960 period as characterized by the rise of the Modern Synthesis an event structured around two main explanatory commitments 1 Gradual evolution is explained by small genetic changes variations oriented by natural selection a process leading to adaptation 2 Evolutionary trends and speciation events are macroevolutionary phenomena that can be accounted for solely in terms of the extension of processes and mechanisms occurring at the previous microevolutionary level On this view natural selection holds a central explanatory role in evolutionary theory one that presumably reaches back to Charles Darwin's *Origin of Species* a view also accompanied by the belief that the field of evolutionary biology is organized around a profound divide theories relying on strong selective factors and those appealing only to weak ones If one reads the new analyses presented in this volume by biologists historians and philosophers this divide seems to be collapsing at a rapid pace opening an era dedicated to the search for a new paradigm for the development of evolutionary biology Contrary to popular belief scholars position on natural selection is not in itself a significant discriminatory factor between most evolutionists In fact the intellectual space is quite limited if not non-existent between on the one hand Darwinists who play down the central role of natural selection in evolutionary explanations and on the other hand non-Darwinists who use it in a list of other evolutionary mechanisms The mechanism centered approach to evolutionary biology is too incomplete to fully make sense of its development In this book the labels created under the traditional historiography Darwinian Revolution Eclipse of Darwinism Modern Synthesis Post Synthetic Developments are thus re-evaluated This book will not only appeal to researchers working in evolutionary biology but also to historians and philosophers The Architecture of Evolution Marco Tamborini, 2022-12-20 In the final decades of the twentieth century the advent of evolutionary developmental biology evo devo offered a revolutionary new perspective that transformed the classical neo-Darwinian gene-centered study of evolution In *The Architecture of Evolution* Marco Tamborini demonstrates how this radical innovation was made possible by the largely forgotten study of morphology Despite the key role morphology played in the development of evolutionary biology since the 1940s the architecture of organisms was excluded from the Modern Evolutionary Synthesis And yet from the beginning of the twentieth century to the 1970s and 80s morphologists sought to

understand how organisms were built and how organismal forms could be generated and controlled The generation of organic form was they believed essential to understanding the mechanisms of evolution Tamborini explores how the development of evo devo and the recent organismal turn in biology involved not only the work of morphologists but those outside the biological community with whom they exchanged their data knowledge and practices Together with architects and engineers they worked to establish a mathematical and theoretical basis for the study of organic form as a mode of construction developing and reinterpreting important notions that would play a central role in the development of evolutionary developmental biology in the late 1980s This book sheds light not only on the interdisciplinary basis for many of the key concepts in current developmental biology but also on contributions to the study of organic form outside the English speaking world

Landmarks in Foraminiferal Micropalaeontology A.J. Bowden, F.J. Gregory, A.S. Henderson, 2013-12-19 TMS Special Publication 6 This TMS Special Publication comprises a collection of 23 papers with an international authorship reflecting on landmarks in the history and development of Foraminiferal micropalaeontology The volume is prefaced by an introductory overview that provides a brief and selected historical setting as well as the intended aims of the book Selected developments in Foraminiferal studies from a global perspective are presented from the time of Alcide d'Orbigny and the founding of the Paris MNHN collections in the mid nineteenth century to the use of foraminifera in industry other museum collections palaeoceanography and environmental studies regional studies from the Southern Hemisphere and the rise and fall of significant research schools The book concludes with a chapter on the modelling of foraminifera *Landmarks in Foraminiferal Micropalaeontology History and Development* will be of particular interest to micropalaeontologists other Earth scientists historians of science museum curators and the general reader with an interest in science

Hierarchical Evolutionary-Developmental Theory Carlos Ochoa, 2025-06-23 This book introduces a new evolutionary model called Hierarchical Evolutionary Developmental Theory or H Evo Devo Theory This theory proposes that the organism's internal properties reflect entities that are highly integrated in developmental terms that evolve hierarchically In other words it attempts to demonstrate that developmental constraints operate at different scales producing distinct states of morphological stability reflected as subspecies species higher taxa and homologues all representing units of evolution In addition it reintroduces the concept of the organism in evolutionary biology supports a strictly macroevolutionary view and contemplates alternative evolutionary rates processes and mechanisms at different levels microevolution macroevolution megaevolution and modular evolution In short this book establishes a new synthesis between systematics morphology and evolution suggesting a significant shift in evolutionary thought The book comprises 1 A proposal for a new theory of evolution and systematics The H Evo Devo Theory reinterprets the concepts of subspecies species higher taxa and homologues proposing that the phylogenetic tree is built on a hierarchy of types developed from the top down in contrast to the traditional bottom up approach 2 A novel hierarchical perspective that reveals the underlying mechanisms acting on the

patterns of divergence stability and extinction of the units of evolution 3 A resolution to the ontological problem regarding units of evolution e g the reality of species and higher taxa 4 A historical narrative that focuses on the development of a hierarchy theory of evolution grounded in the type concept and the significance of an organism centered perspective 5 A challenge to traditional frameworks that have sought to establish hierarchies in an evolutionary context 6 A challenge to classical evolutionary statements such as gradualism punctuated equilibrium the extrapolationist premise and geographical models of speciation This book is written for those who feel that radical change is needed in evolutionary theory offering them a viable alternative **Ancestors in Evolutionary Biology** Ronald A. Jenner, 2022-07-28 Exploration of the history and current practice of phylogenetics as a storytelling discipline that provides explanations for character evolution

Innovation in Cultural Systems Michael John O'Brien, Stephen Shennan, 2010 Leading scholars offer a range of perspectives on the roles played by innovation in the evolution of human culture In recent years an interest in applying the principles of evolution to the study of culture emerged in the social sciences Archaeologists and anthropologists reconsidered the role of innovation in particular and have moved toward characterizing innovation in cultural systems not only as a product but also as an evolutionary process This distinction was familiar to biology but new to the social sciences cultural evolutionists from the nineteenth to the twentieth century had tended to see innovation as a preprogrammed change that occurred when a cultural group needed to overcome environmental problems In this volume leading researchers from a variety of disciplines including anthropology archaeology evolutionary biology philosophy and psychology offer their perspectives on cultural innovation The book provides not only a range of views but also an integrated account with the chapters offering an orderly progression of thought The contributors consider innovation in biological terms discussing epistemology animal studies systematics and phylogeny phenotypic plasticity and evolvability and evo devo they discuss modern insights into innovation including simulation the random copying model diffusion and demographic analysis and they offer case studies of innovation from archaeological and ethnographic records examining developmental behavioral and social patterns Contributors Andr Ariew R Alexander Bentley Werner Callebaut Joseph Henrich Anne Kandler Kevin N Laland Daniel O Larson Alex Mesoudi Michael J O'Brien Craig T Palmer Adam Powell Simon M Reader Valentine Roux Chet Savage Michael Brian Schiffer Jeffrey H Schwartz Stephen J Shennan James Steele Mark G Thomas Todd L VanPool **Milestones in Systematics** David M. Williams, Peter L. Forey, 2004-05-12 Presenting a historical analysis of the evolution of systematics during the last one hundred years Milestones in Systematics reviews many of the major issues in systematic theory and practice that have driven the working methods of systematics during the 20th century and looks at the issues most likely to preoccupy systematists in the immediate fu The Paleobiological Revolution David Sepkoski, Michael Ruse, 2015-03-04 The Paleobiological Revolution chronicles the incredible ascendance of the once maligned science of paleontology to the vanguard of a field With the establishment of the modern synthesis in the 1940s and the pioneering work of George Gaylord

Simpson Ernst Mayr and Theodosius Dobzhansky as well as the subsequent efforts of Stephen Jay Gould David Raup and James Valentine paleontology became embedded in biology and emerged as paleobiology a first rate discipline central to evolutionary studies Pairing contributions from some of the leading actors of the transformation with overviews from historians and philosophers of science the essays here capture the excitement of the seismic changes in the discipline In so doing David Sepkoski and Michael Ruse harness the energy of the past to call for further study of the conceptual development of modern paleobiology Life's Splendid Drama Peter J. Bowler, 1996-11-15 As Bowler tracks major scientific debates over the emergence of the vertebrates the origins of the main types of living animals and the rise and extinction of groups such as the dinosaurs his richly detailed accounts bring to light complex interactions among specialists in various fields of biology

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for the nitration 4 01 ml of nitric acid 4 00 ml of sulfuric acid and 4 56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4 56 ml of bromobenzene was used the amount of product predicted to be recovered was 8 7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction eas particularly nitration of methyl benzoate go give methyl m nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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show more this experiment was performed in order to demonstrate the principles of nitration through electrophilic aromatic substitution it also examined the effects of bromine on an aromatic ring ortho para vs meso directing

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then actual is your actual findings yield actual theoretical $\times 100$ what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 °C

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1-bromo-4-nitrobenzene

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture HNO_3 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0.6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accommodate their electrons demonstration of creating the p arenium cation by nitration of bromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion NO_2^+ which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4 0ml of nitric acid and 4 0ml of sulfuric acid and will then react with 4 5ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group

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