

● Bilateral symmetry

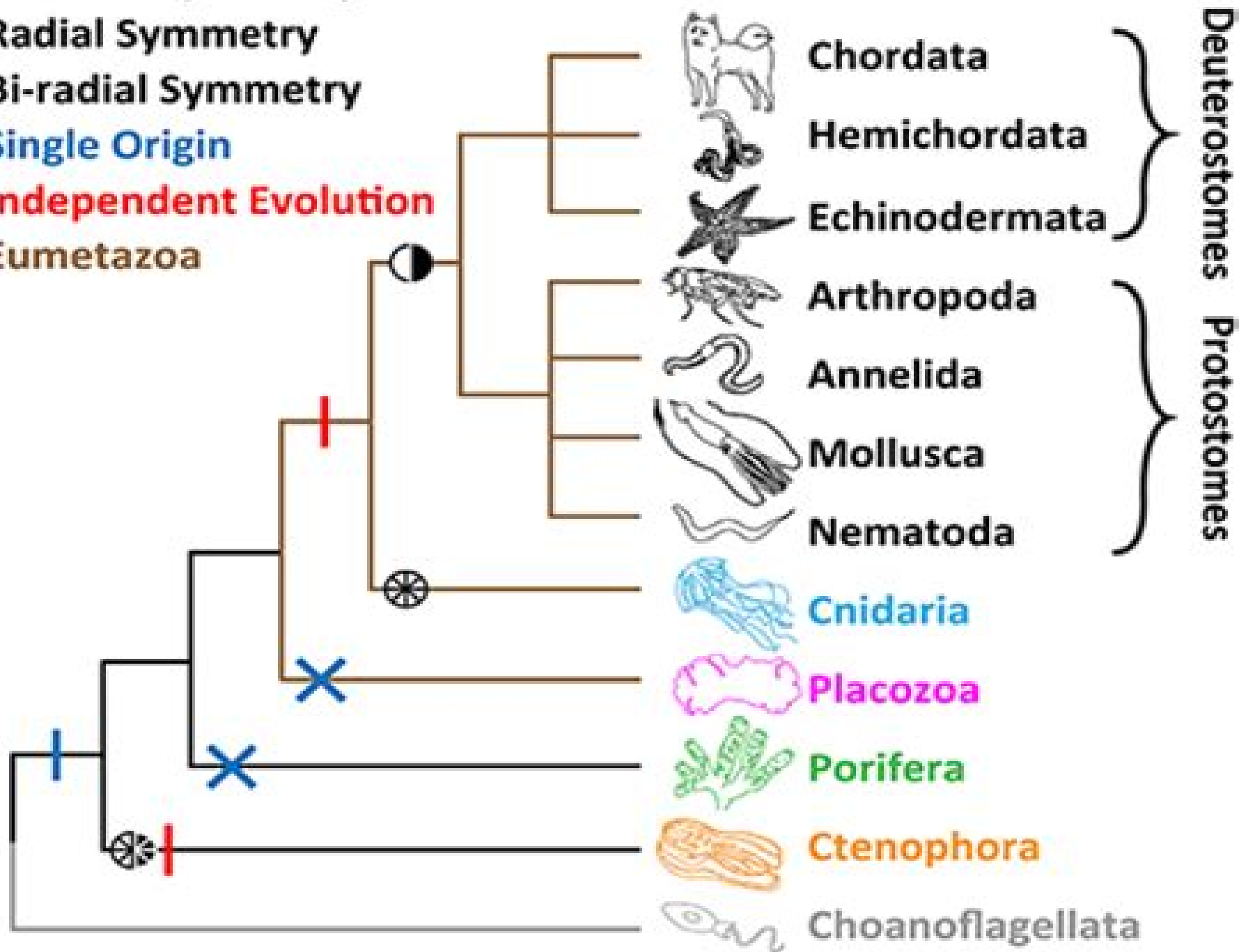
⊗ Radial Symmetry

⊗ Bi-radial Symmetry

Single Origin

Independent Evolution

Eumetazoa



Placozoa Porifera Cnidaria And Ctenophora

Alfred Kaestner



Placozoa Porifera Cnidaria And Ctenophora:

The Choanoflagellates Barry S. C. Leadbeater, 2015-01-08 Choanoflagellates have three distinctive claims to fame they are the closest living unicellular relatives of animals they are a major component of aquatic microbial foodwebs and one group is remarkable for its siliceous basket like coverings This landmark book offers a unique synthesis of over forty years of choanoflagellates research Key areas are covered from the phylogenetic evidence supporting the sister group relationship between choanoflagellates and Metazoa to choanoflagellate distribution and diversity in marine and freshwater environments The structure and assembly of choanoflagellate loricae is also presented together with a full discussion of a novel example of regulatory evolution suggesting that the switch from nudiform to tectiform cell division and lorica production was achieved by a sudden reorganisation of existing structures and mechanisms Providing an authoritative summary of what is currently known about choanoflagellates this title will serve as a foundation upon which future research and discussion can take place

Multicellular Animals Peter Ax, 2012-12-06 No one can ever have secure knowledge about the gods and creatures and should anyone hit by chance upon the right thing he will not know it for sure that is why everything that we believe to be true is opinion XENOPHANES around 500 B C According to ROD 1988 p 85 The goal of phylogenetic systematics cladistics is to discover the kinship relations between all organisms on earth and to translate the order we perceive in Nature into an equivalent man made system Although the goal is easily formulated the path is thorny and the results achieved continue to be imperfect This is the fate of any science that bases its propositions on the interpretation of historical evidence The diversity found in the millions of species originated as a result of the continuous splitting of biopopulations through time Combined with this was the emergence of hierarchically linked descent communities of species We call the process of origin of descent communities phylogenesis We do not know however the exact course of phylogenesis we can only formulate hypotheses The historical evidence at hand consists of the feature patterns of extant species and of extinct species with their combination of original and derived traits which are the result of evolution *Kükenthal - Zoologisches Praktikum* Volker Storch, Ulrich Welsch, 2014-06-04 Seit über 110 Jahren wird der K KÜENTHAL in der Ausbildung von Studierenden der Biologie und verwandter Fächer eingesetzt In den letzten Auflagen wurden viele neue Erkenntnisse aufgenommen und vermehrt funktionelle Aspekte berücksichtigt Eine ganze Reihe von Abbildungen wurde durch ansprechendere ersetzt um die ästhetische Komponente stärker zu betonen Inhaltliche Straffungen ermöglichten es den Umfang nahezu beizubehalten Speziell Studienanfänger sind mit dem Problem konfrontiert die Vielfalt der Organismen in ein System einzuordnen das ihnen noch fremd ist Die systematische Übersicht am Ende des Buches ist in der 27. Auflage stark erweitert und vierfarbig bebildert Die Histologie der Tiere als wichtiger Aspekt in der Lehre ist ergänzt Verbesserte detaillierte farbige Situszeichnungen der wichtigsten Präparationstiere verbessern die Anschaulichkeit des Buches **The Origin of Animal Body Plans** Wallace Arthur, 1997 This book examines both the origin of body plans in particular and the evolution of animal development in

general *Reproduction and Development of Marine Invertebrates* W. Herbert Wilson (Jr.), Stephen A. Stricker, George Loren Shinn, 1994 In *Reproduction and Development of Marine Invertebrates* a group of internationally recognized researchers assesses the state of current knowledge in the field and identifies future avenues of research Comprehensive in scope the book treats all levels of biological organization from the molecular level to communities of organisms After a brief historical overview that identifies the conceptual underpinnings of twentieth century invertebrate zoology and embryology the book is organized by developmental stages The authors first present chapters on oogenesis spermatogenesis fertilization and embryonic development A subsequent section arranged phylogenetically to encompass annelids priapulans molluscs bryozoans and echinoderms covers larval morphology and evolution The final section treats larval or adult populations and includes new information on the role of hydrodynamics to aid in the understanding of larval dispersal and settlement *Reproduction and Development of Marine Invertebrates* is the first book of its kind to be published since 1978 Extensively illustrated with more than a hundred line drawings and photos including sixty high resolution electron micrographs it will be of interest to professionals and students in evolutionary biology invertebrate zoology developmental biology and functional morphology **Plumularian Hydroids (Cnidaria: Hydrozoa) from the Strait of Gibraltar and Nearby Areas** Rijksmuseum van Natuurlijke Historie te Leiden, 1948 **Lehrbuch der Speziellen Zoologie** Alfred Kaestner, 1993 **Microscopic Anatomy of Invertebrates**, 1991 Microscopic Anatomy of Invertebrates: Annelida Edward E. Ruppert, 1991 **Microscopic Anatomy of Invertebrates: Aschelminthes** Frederick W. Harrison, Edward E. Ruppert, 1991 Encyclopaedic in scope this is part of a multi volume fully illustrated reference on the functional anatomy of invertebrates **Microscopic Anatomy of Invertebrates: Mollusca I** Frederick W. Harrison, 1991 Part of a multi volume reference work which provides comprehensive coverage of the functional anatomy of invertebrates this particular volume concentrates on mollusca 1 **Microscopic Anatomy of Invertebrates: Decapod crustacea** Frederick W. Harrison, Edward E. Ruppert, 1991 This illustrated text is part of a multi volume reference on the functional anatomy of invertebrates Subjects discussed include glands connective tissue vascular elements digestion gas exchange salt balance and fluid transport endocrine organs and the nervous system Zoological Parks and Aquariums in the Americas, 1992 **Annual Report of the College of Veterinary Medicine** Kansas State University. College of Veterinary Medicine, 1989 *Choice*, 1992 **Microscopic Anatomy of Invertebrates: Echinodermata** Frederick W. Harrison, Edward E. Ruppert, 1991 The 15 illustrated volumes of this series provide specific and exhaustive coverage of all major invertebrate phyla offering detailed accounts of their gross histological and ultrastructural anatomy The individual volumes are arranged phylogenetically beginning with the protozoa defined herein as motile protists and concluding with the invertebrate members of the phylum Chordata *The Invertebrates* R. S. K. Barnes, Peter P. Calow, P. J. W. Olive, D. W. Golding, J. I. Spicer, 2009-04-13 The majority of undergraduate texts in invertebrate zoology of which there are many fall into one of two

categories They either offer a systematic treatment of groups of animals phylum by phylum or adopt a functional approach to the various anatomical and physiological systems of the better known species The Invertebrates is the first and only textbook to integrate both approaches and thus meet the modern teaching needs of the subject This is the only invertebrate textbook to integrate systematics and functional approaches The molecular systematics sections have been completely updated for the new edition Strong evolutionary theme which reflects the importance of molecular techniques throughout Distills the essential characteristics of each invertebrate group and lists diagnostic features to allow comparisons between phyla New phyla have been added for the new edition Stresses comparisons in physiology reproduction and development Improved layout and illustration quality Second edition has sold 14000 copies Nature of the first edition Students will like this book It deserves to succeed

South Atlantic Zooplankton Demetrio Boltovskoy,1999 **Two New Species of Gargamella (Mollusca, Nudibranchia) from South Africa** Jocelyn B. Garovoy,Ángel Valdés,Terrence Gosliner,1999 **Journal of Morphology** ,2000

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