

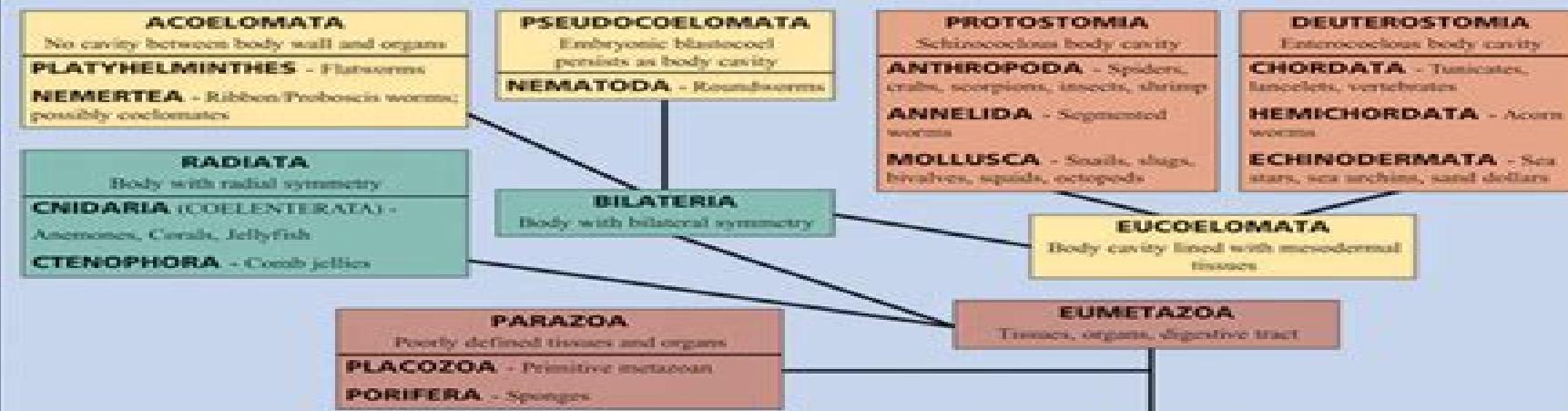
ZOOLOGY



parazoa

What is an animal? A multicellular, eukaryotic, heterotrophic organism lacking cell walls.

CLASSIFICATION OF THE METAZOAN KINGDOM



METAZOAN CHARACTERISTICS

- Advantages
 - Larger size
 - Increased mobility
 - Internal homeostasis
 - Relative independence from environment

Symmetry

- Radial - Circular arrangement with numerous planes creating equal halves; no front/back or left/right sides; possesses top/bottom or oral/aboral surfaces (1).
 - Sessile or pelagic forms.
- Bilateral - Possess left/right sides (2).
 - "Cephalization" or concentration of sensory structures in the head
 - Unidirectional, active movement using front for orientation

Embryology

- Zygote \rightarrow 2 cell \rightarrow 4 cell \rightarrow 8 cell \rightarrow 16 cell \rightarrow Morula (solid ball of cells) \rightarrow Blastula \rightarrow Blastocoel chamber \rightarrow Gastrula \rightarrow Gastrula pore and archenteron (embryonic gut) (3).



- Three germ layers (from which all tissues develop) in place during gastrula phase: Endoderm, Mesoderm, Ectoderm.
- Diploblastic - Organisms produce only ectoderm and endoderm.
- Triploblastic - organisms produce all three layers.

Protostome/Deuterostome classification

- Cleavage patterns.
 - Spiral cleavage** - New cells placed at juncture between previous cell; protostome feature (4).
 - Radial cleavage** - New cells placed directly beside or on top of previous cell; deuterostome feature (5).

SPRiAL CLEAVAGE (TOP VIEW)



RADiAL CLEAVAGE (TOP VIEW)



- Developmental fate of cells.
 - Determinate** - Fate of cells determined early; separated early cells incapable of developing into entire organism; protostome feature.
 - Indeterminate** - Fate of cells determined relatively late; separated early cells can develop into entire organism; allows for "twins" or genetically identical individuals; deuterostome feature.
 - Cochlear formation** - Body cavity lined by mesodermal tissues.
 - Schizocoely** - Derived from split in mesoderm; protostome feature (6).
 - Enterocoely** - Derived from outgrowth of archenteron; deuterostome feature (7).

ACOELOMATES



PLACOZOA

Mouth: a second opening in embryo before anterior protostome feature.

Anal: a second opening in embryo before mesial deuterostome feature.

PORIFERA

Ascohaemocyte - No cavity between body wall and organs (8).

Peribranchial haemocyte - Embryonic blastocoel persists as body cavity (9).

Cochlearomes - Body cavity lined with mesodermal tissues (10).

ACOELOMATES



PSUEDOCOELOMATES



COELOMATES



ENTEROCOEL



SPRiAL CLEAVAGE

Mouth: a second opening in embryo before anterior protostome feature.

Anal: a second opening in embryo before mesial deuterostome feature.

DEUTEROSTOMIA

Ascohaemocyte - No cavity between body wall and organs (11).

Peribranchial haemocyte - Embryonic blastocoel persists as body cavity (12).

Cochlearomes - Body cavity lined with mesodermal tissues (13).

ACOELOMATES



PSUEDOCOELOMATES



COELOMATES



Star field

Zoology Study Guides

Arshad Iqbal

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internal transport and circulatory system interspecific competition interspecific interactions invertebrates nervous system invertebrates sensory reception mammalian digestive system meiosis basis of sexual reproduction mineralized tissues and invertebrates mitosis cytokinesis and cell cycle molecules of animals muscular system of invertebrates muscular system of vertebrates mutations neurons basic unit of nervous system non muscular movement organization of DNA and protein scientific methods sex chromosomes and autosomes sexual reproduction in vertebrates zoology worksheets for competitive exams preparation *Study Guide to Zoology* Cybellium, Welcome to the forefront of knowledge with Cybellium your trusted partner in mastering the cutting edge fields of IT Artificial Intelligence Cyber Security Business Economics and Science Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you're a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com *Villee Walker and Barnes General Zoology* W. Holt Harner, 1978-05 **Human Physiology - Zoology 2420**, 2015

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