

ZOOLOGY

Quick Study
ACADEMIC

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; possess 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 head for orientation

1 RADIAL



2 BILATERAL



Embryology

- Zygote → 2 cell → 4 cell → 8 cell → 16 cell → Morula (solid ball of cells) → Blastula w/ blastocoel chamber → Gastrula w/ blastopore 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

3. Protostome/deuterostome classification

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

4 SPIRAL CLEAVAGE (TOP VIEW)



5 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 "twinning" or genetically identical individuals; deuterostome feature
- Coelem 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)



- Blastopore fate
 - Mouth; a second opening in embryo forms anus; protostome feature
 - Anus; a second opening in embryo forms mouth; deuterostome feature
- Body plans
 - Acoelomates - No cavity between body wall and organs (1)
 - Pseudocoelomates - Embryonic blastocoel persists as body cavity (2)
 - Coelomates - Body cavity lined with mesodermal tissues (3)



Many inside

Zoology Study Guides

**Charles Benedict Davenport, Gertrude
Anna Crotty Davenport**

Zoology Study Guides:

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Zoology Study Guides**

In a global inundated with screens and the cacophony of fast communication, the profound power and psychological resonance of verbal art frequently fade into obscurity, eclipsed by the constant assault of noise and distractions. Yet, situated within the musical pages of **Zoology Study Guides**, a charming perform of literary elegance that pulses with raw thoughts, lies an memorable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this mesmerizing opus manuals readers on an emotional odyssey, gently exposing the latent possible and profound impact stuck within the complex web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is main themes, dissect their fascinating publishing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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