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Help

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Tools

- Having nucleosomes associated with the chromatin, eukaryotes may be **diploid** (having two sets of chromosomes) or **tetraploid** (having four sets of chromosomes).
- In eukaryotes, animals, a body cavity may be present or absent. A body cavity can be a **protocoelom** (formed from mesoderm) and **metacoelom** or a **triple coelom** (formed only from mesoderm).
- **Procoelom** and **metacoelom** Embryonic cells differ in patterns of cleavage, coelom formation, and cleavage fate.

7 Describe how each phylum provides evidence of evolution and should be recognized/understood when a student is trying to understand evolutionary relationships.

CONCEPT 32.4
New views of animal phylogeny are emerging from molecular data (pp. 662–664)
This phylogenetic tree shows key steps in animal evolution.

Common ancestor of all animals

7 Describe the data and methods used today to determine animal phylogeny.

TEST YOUR UNDERSTANDING

LEVEL 1: KNOWLEDGE/COMPREHENSION

1. Among the characteristics unique to animals is
 - a. gametocytes
 - Epigenetic genes
 - multicellularity
 - homeomorphic nucleation
 - sexual reproduction
2. The distinction between sponges and other animal phyla is based mainly on the absence versus the presence of
 - a body cavity
 - the stomach
 - a complete digestive tract
 - tentacles
 - a circulatory system
3. Arthropods are characterized by
 - the absence of a brain
 - the absence of nematodes
 - desiccation resistance
 - desiccation resistance
 - a coelom that is not completely lined with mesoderm
 - a solid body without a cavity surrounding internal organs
4. The origin of the genes and other genetic changes affecting the regulation of developmental genes
 - the accumulation of subtle autogenic changes to regulate the downstream activities of multiple genes

LEVEL 2: APPLICATION/ANALYSIS

5. Which of these is a pair of coelom between the phylogenetic analysis presented in Figure 32.10 and 32.11?
 - the simplicity of the animal kingdom
 - the relationship of taxa of segmented animals to taxa of unsegmented animals
 - the sponges are basal animals
 - that chordates are descendants
 - the simplicity of the tetrapods

LEVEL 3: SYNTHESIS/EVALUATION

4. EVOLUTION CONNECTION
A professor begins a lecture on animal phylogeny by saying, "We are all worms." In this context, what did she mean?

7. SCIENTIFIC INQUIRY
QUESTION Analyze the cladogram portion of Figure 32.11 for the nine phyla in the table below. Consider three characters: body plan, protocoelom, and metacoelom. List the phylum, ancestral state (ancestral state), and the character state (ancestral state) for each phylum. For each character, list the character state (ancestral state) and the character state (ancestral state) for each phylum. For each character, list the character state (ancestral state) and the character state (ancestral state) for each phylum.

Phylum	Phylum
Porifera	Porifera
Cnidaria	Cnidaria
Mollusca	Mollusca
Annelida	Annelida
Arthropoda	Arthropoda
Chordata	Chordata

ANSWER See the table below. For each row, the first column lists the phylum, the second column lists the character state (ancestral state), and the third column lists the character state (ancestral state) for each phylum. For each character, list the character state (ancestral state) and the character state (ancestral state) for each phylum.

Feedback Register Record all changes greatly during the Cambrian explosion, with water groups expanding in diversity and other declining. Write a short paper (one to two weeks) comparing these events as feedback registers at the level of the biological community.

For selected answers, see Appendix A.

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