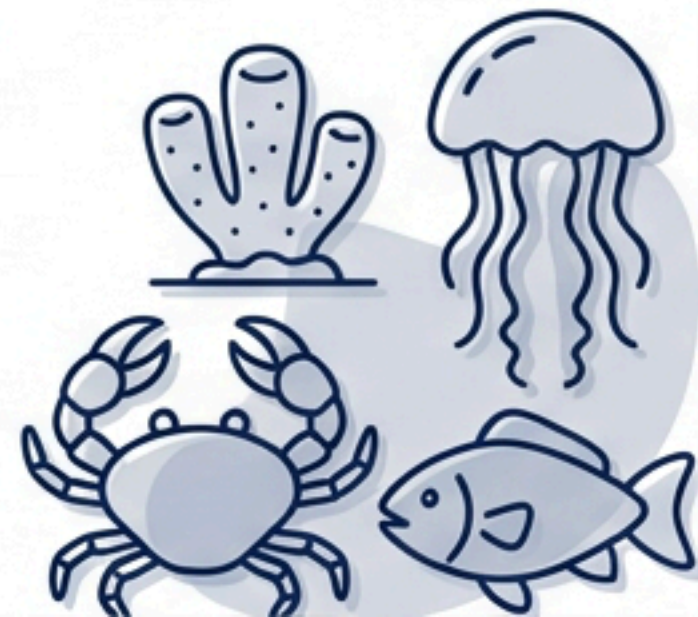


The Rules Behind Animal Classification



With over a million species described, classification is essential to assign systematic positions to newly discovered life.



Cellular Level

Cells are arranged as loose aggregates with some division of labor.

Porifera (Sponges)

Tissue Level

Cells performing the same function are arranged together into tissues.

Coelenterates

Organ Level

Tissues are grouped together to form distinct organs, each specialized for a particular function.

Platyhelminthes

Organ System Level

Organs associate to form highly functional physiological systems.

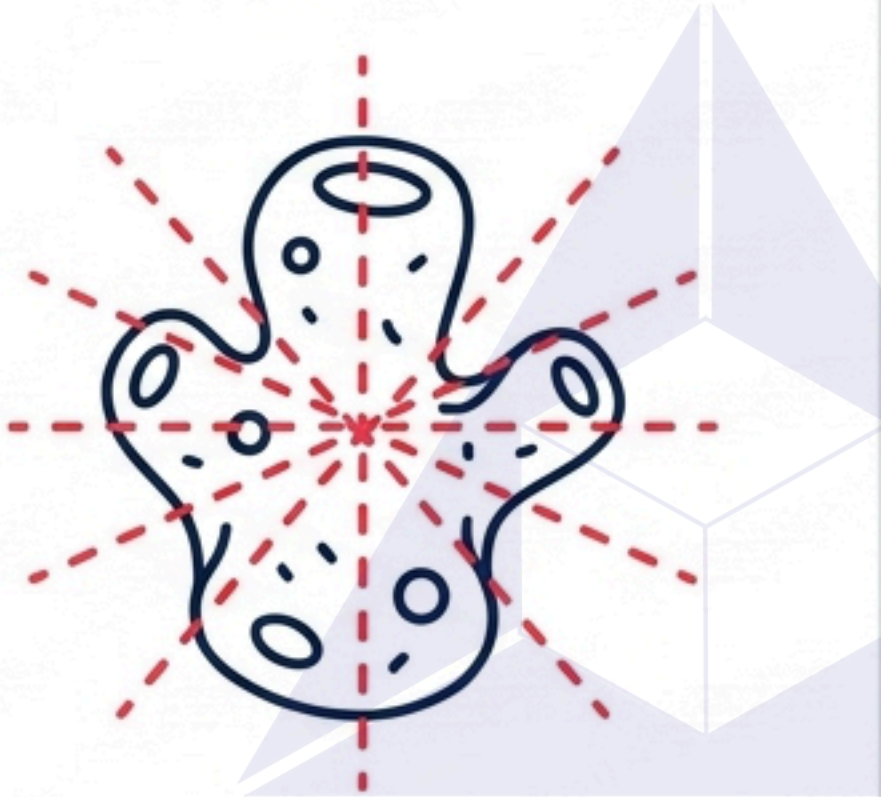
Annelids

Arthropods

Chordates

Taxonomic Dashboard

ASYMMETRICAL



Any plane that passes through the center fails to divide the organism into equal halves.

Sponges

RADIAL SYMMETRY



Any plane passing through the central axis divides the organism into two identical halves.

Coelenterates

Ctenophores

Echinoderms

BILATERAL SYMMETRY



The body can be divided into identical left and right halves in only one single plane.

Annelids

Arthropods

Chordates



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The coelom is the cavity between the body wall and the gut wall.
Its presence or absence dictates major evolutionary branches.

Coelomate



Possesses a true coelom entirely lined by mesoderm tissue.

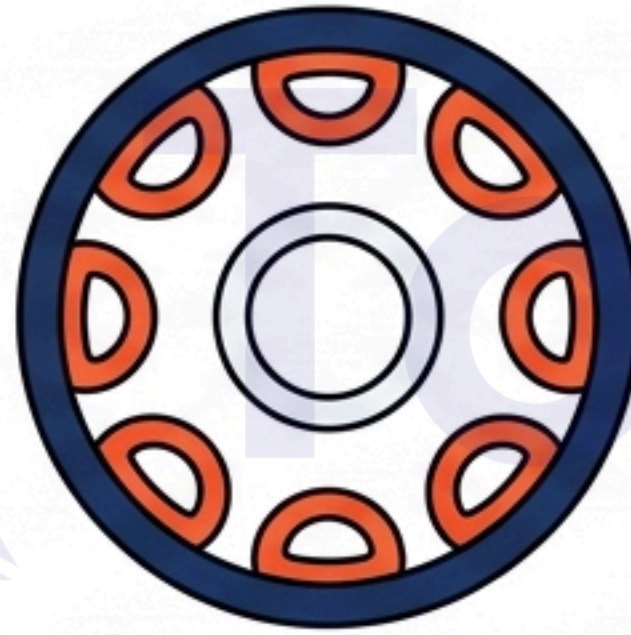
Annelids

Molluscs

Arthropods

Chordates

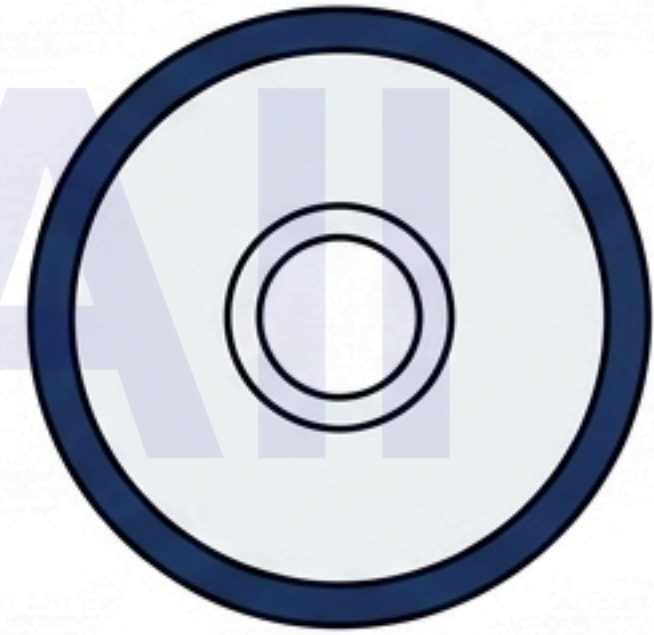
Pseudocoelomate



False cavity; body cavity is not lined by mesoderm, which instead exists as scattered pouches.

Aschelminthes

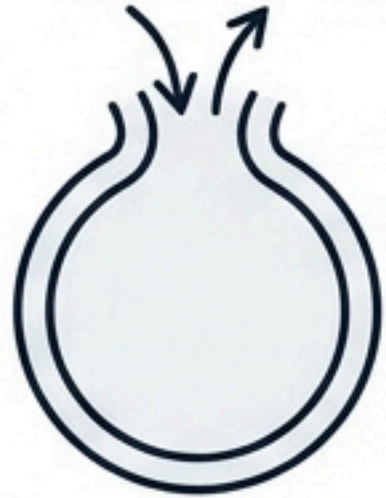
Acoelomate



The internal body cavity is completely absent.

Platyhelminthes

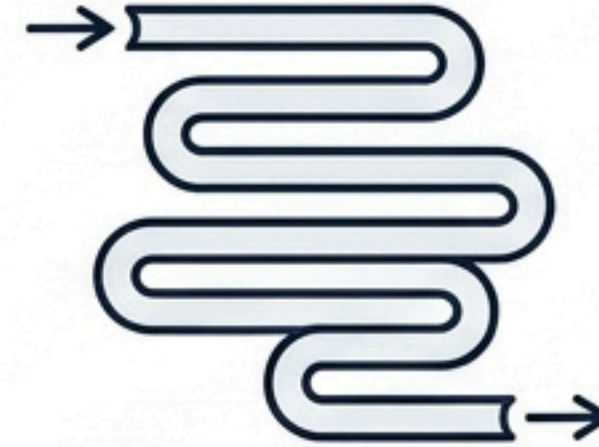
Digestive: Incomplete



Features a single opening to the outside of the body that serves as both mouth and anus.

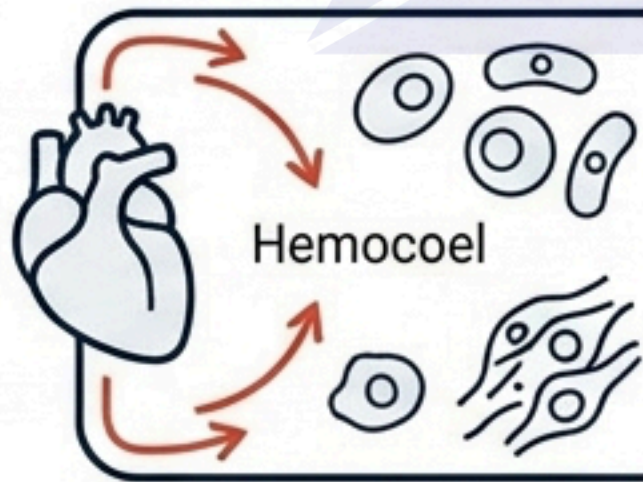
Platyhelminthes

Digestive: Complete



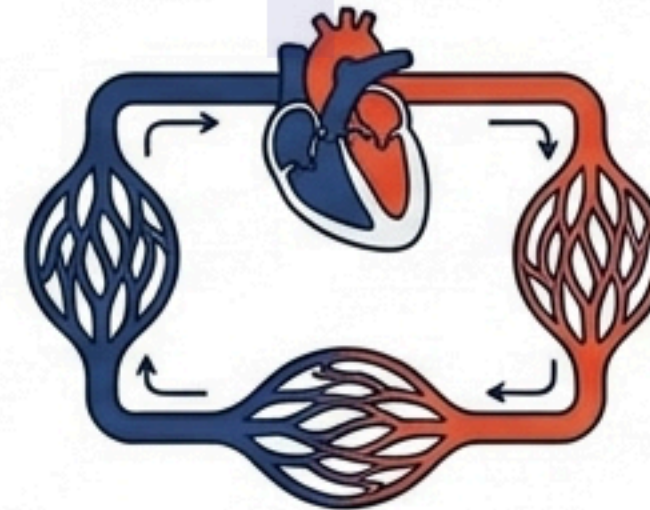
Features a more complex, one-way system with two distinct openings (mouth and anus).

Circulatory: Open Type

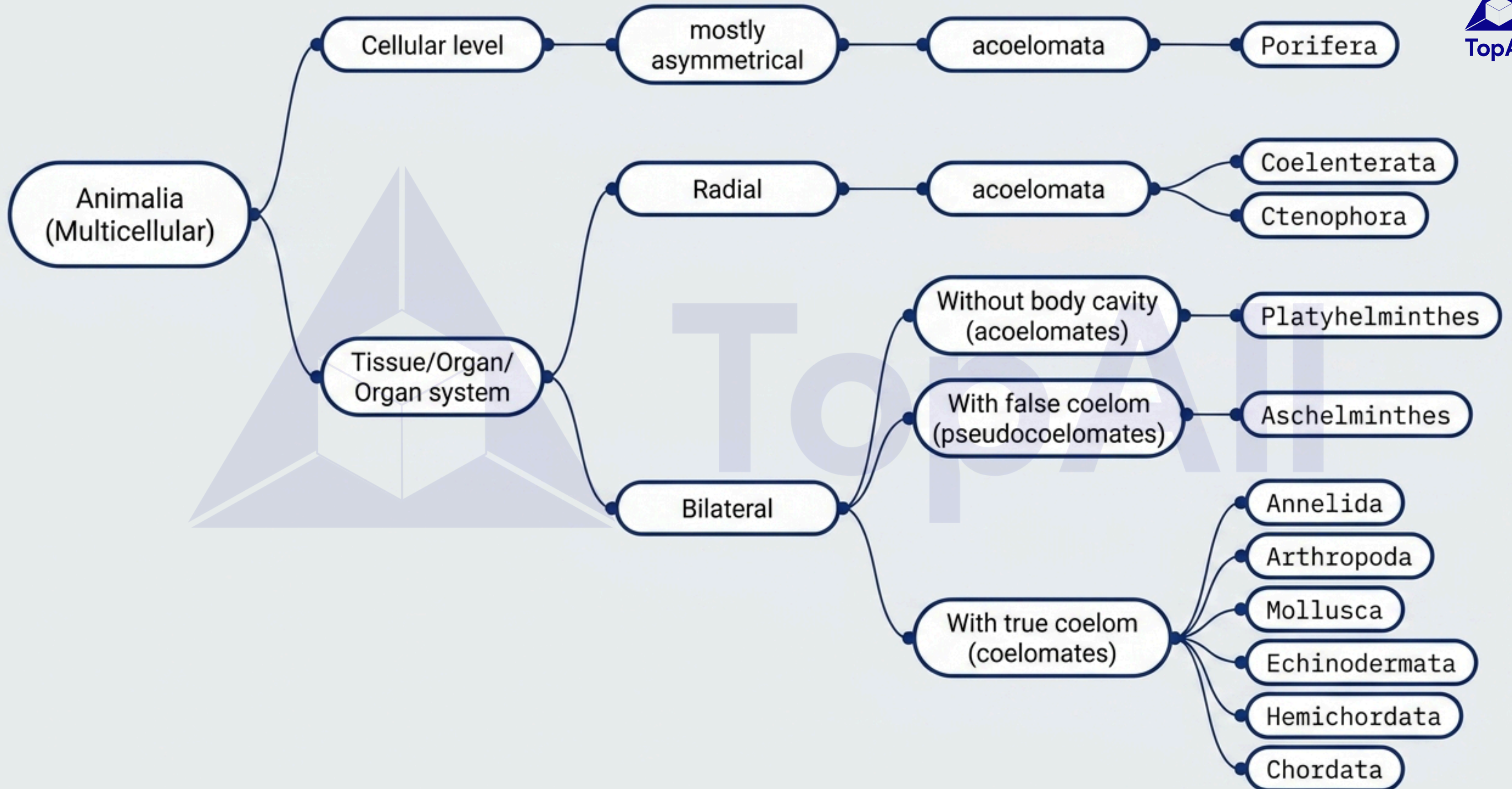


Blood is pumped directly out of the heart; cells and tissues are directly bathed in the fluid.

Circulatory: Closed Type



Blood is precisely circulated through a sealed series of vessels of varying diameters (arteries, veins, and capillaries).



The Blueprint of Animal Life

Despite immense differences in form and structure, fundamental features like cell arrangement, symmetry, and coelom nature provide a universal, systematic blueprint for classifying all animal life.



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