

Kingdom: Animalia | Phylum: Porifera



Porifera: Animals with Pores

The architectural baseline of multicellular life.

The Foundation of Sponges



**Primarily
Marine**

Environment



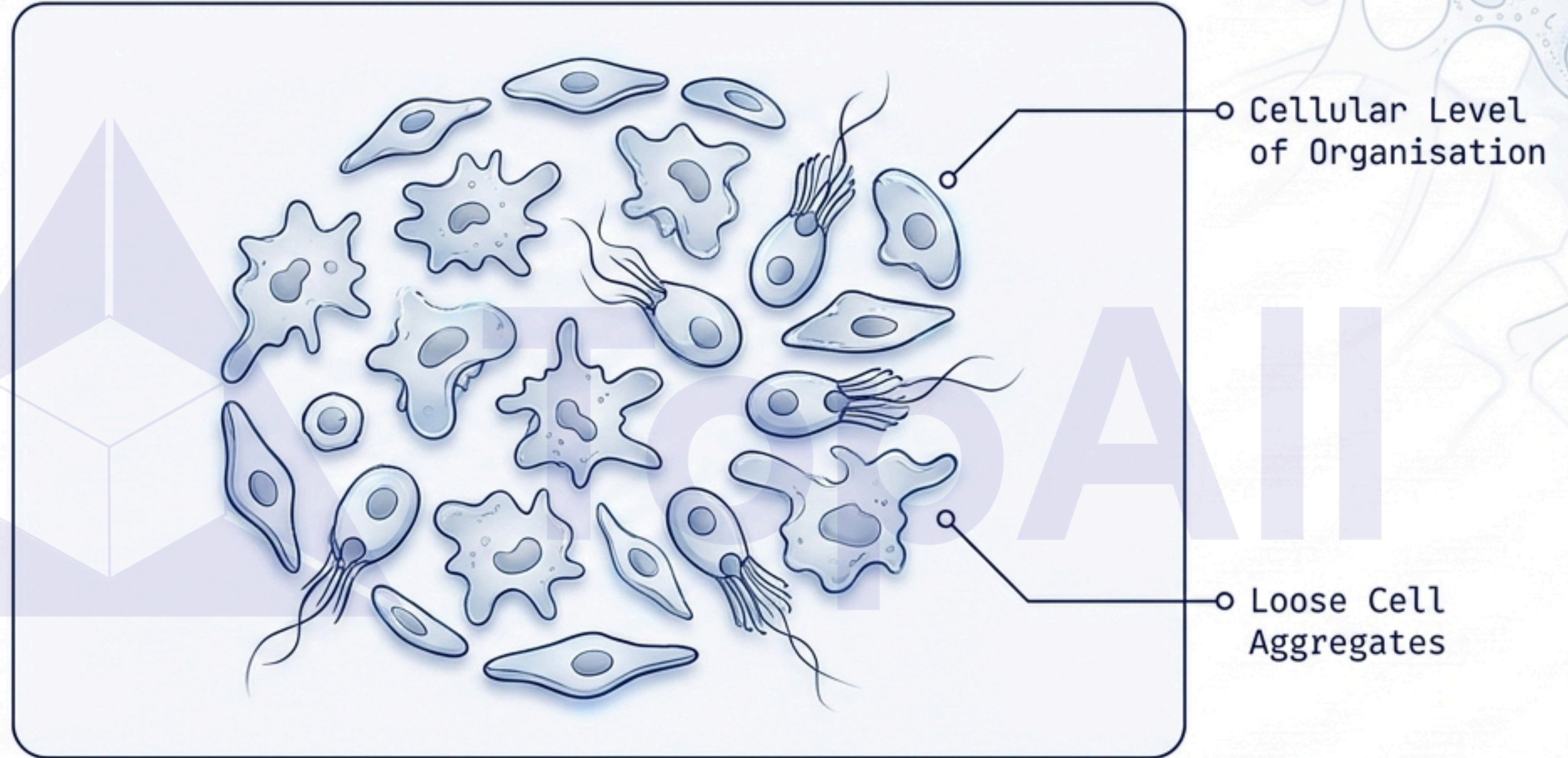
**Mostly
Asymmetrical**

Morphology



Primitive Multicellular Animals: **Porifera** represent one of the earliest evolutionary steps from single-celled organisms.

The Architecture of Simplicity



Division of labor occurs at the individual cell level.
Sponges operate without true tissues or organs.



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



Turn theory into marks with **unlimited MCQs, smart analysis, and focused revision.**

Practice Now



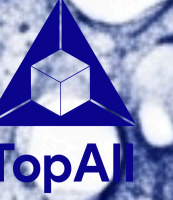
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Key Highlights

- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter



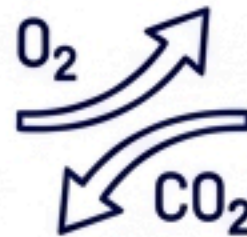
The Engine of the Sponge



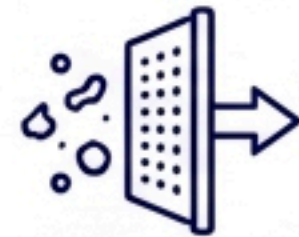
System Functions



**Food
Gathering**



**Respiratory
Exchange**



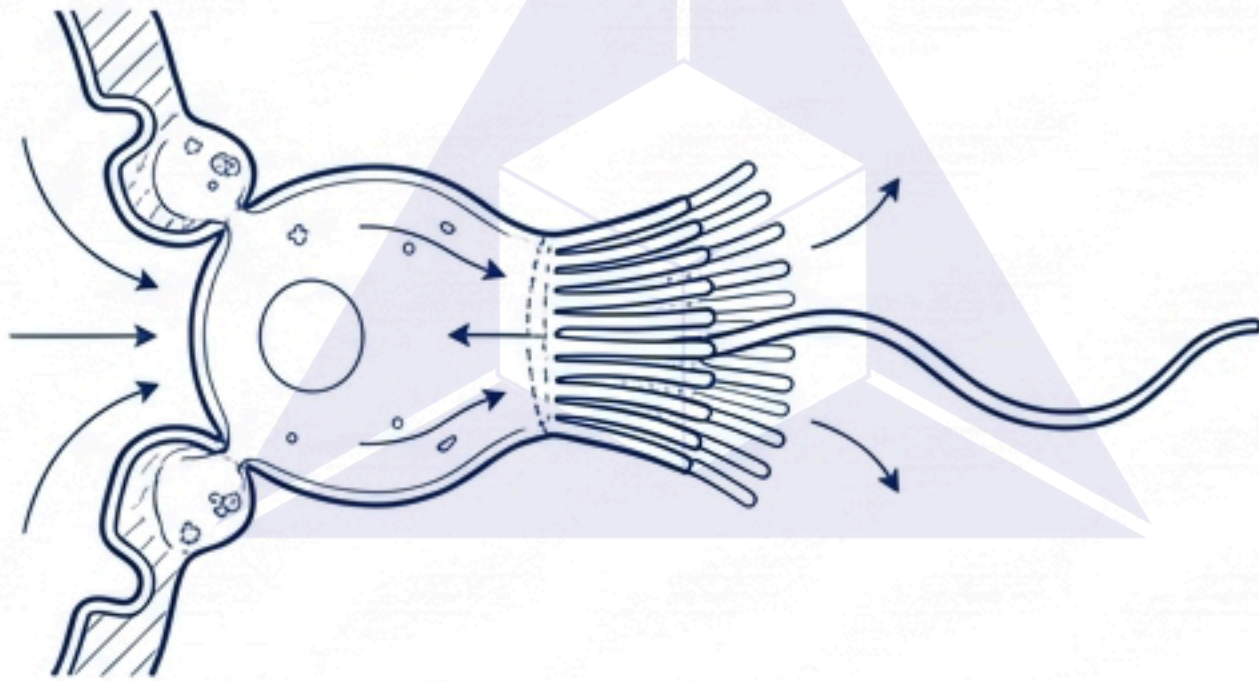
**Waste
Removal**

Specialized Components and Structural Support



The Feeding Mechanism

Choanocytes

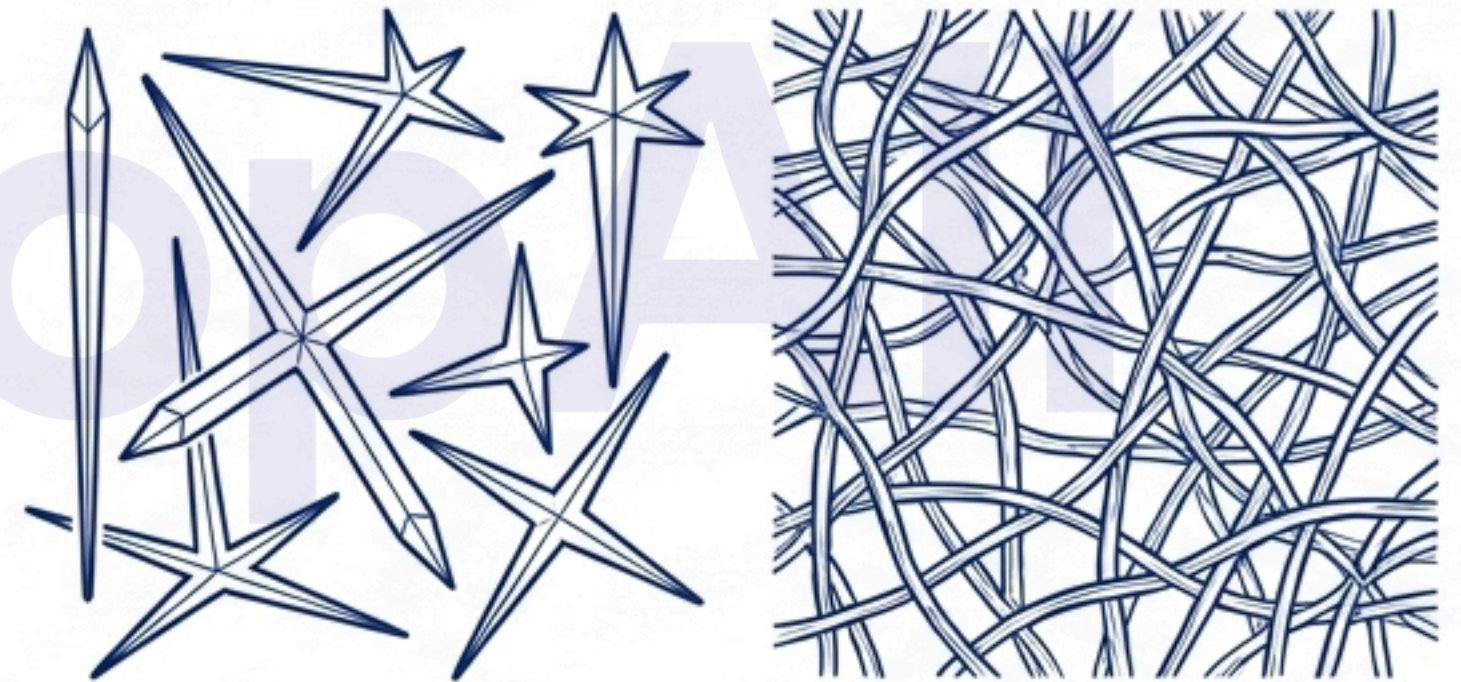


Line the spongocoel and canals.
Digestion is strictly intracellular.

The Skeleton

Spicules

Spongin Fibres

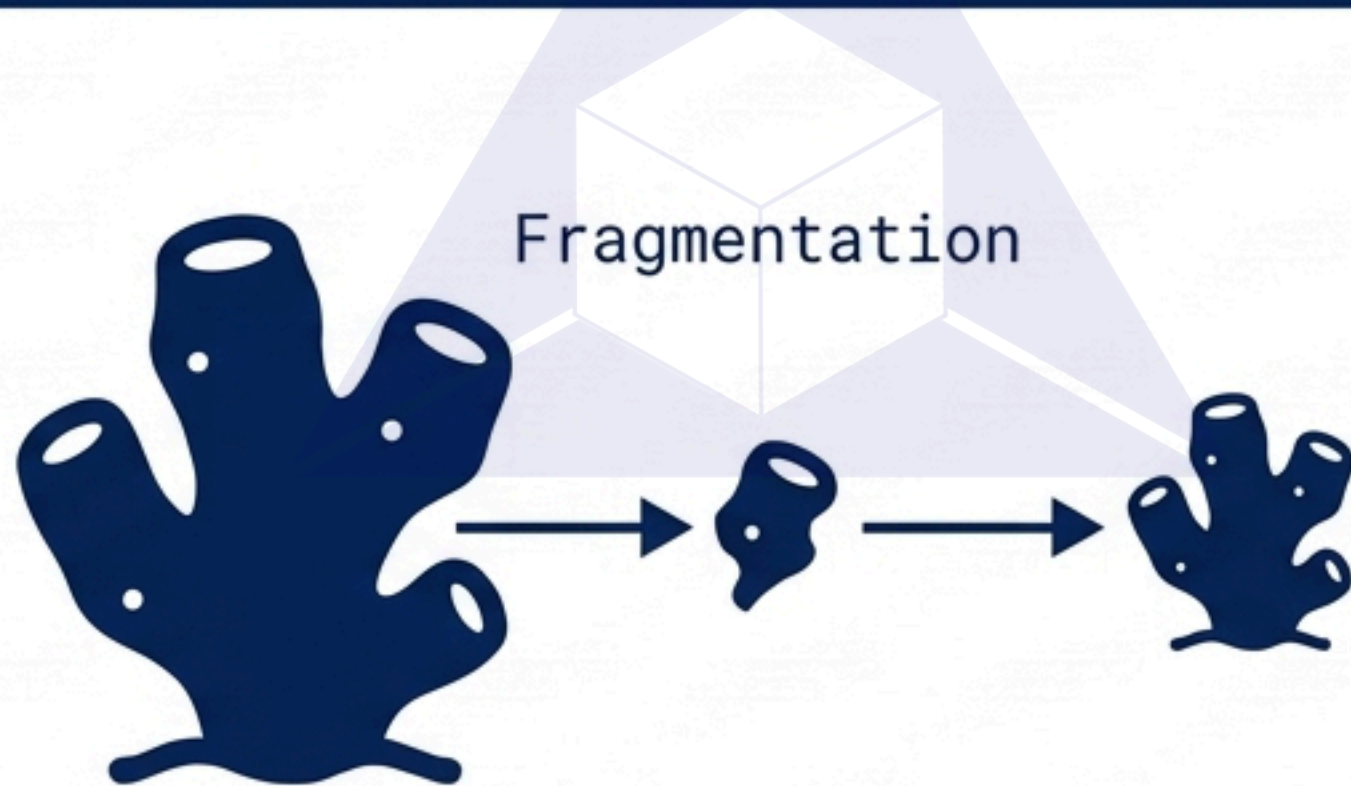


Provides rigid or flexible structural support to the loose cell aggregate.

Lifecycle and Propagation

Hermaphroditic: Sexes are not separate. Eggs and sperm are produced by the same individual.

Fragmentation



Gamete Formation



Step 1
Internal Fertilization



Step 2
Distinct Larval Stage



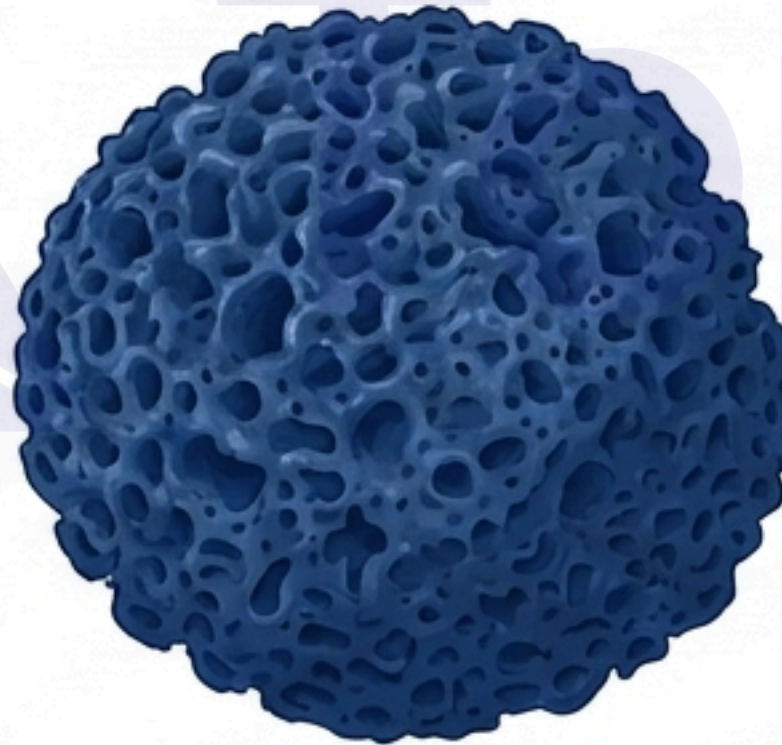
Step 3
Indirect Development

Morphological Diversity

Sycon
(Scypha)



Euspongia
(Bath sponge)



Spongilla
(Freshwater sponge)



Porifera represent the baseline of multicellular life. They survive without true tissues or organs by relying entirely on a unique cellular-level organization and a dynamic water transport system.

Asymmetrical

Intracellular Digestion

Hermaphroditic



You've Learned the Theory.

Now Let's Test It.

Reading notes gets you knowledge.

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Practice the moment you finish studying
Jump in while the concept is still fresh in your head

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