

CLASS 11 BIOLOGICAL CLASSIFICATION REVISION DECK

# **Phycomycetes: Aseptate Coenocytic Fungi**

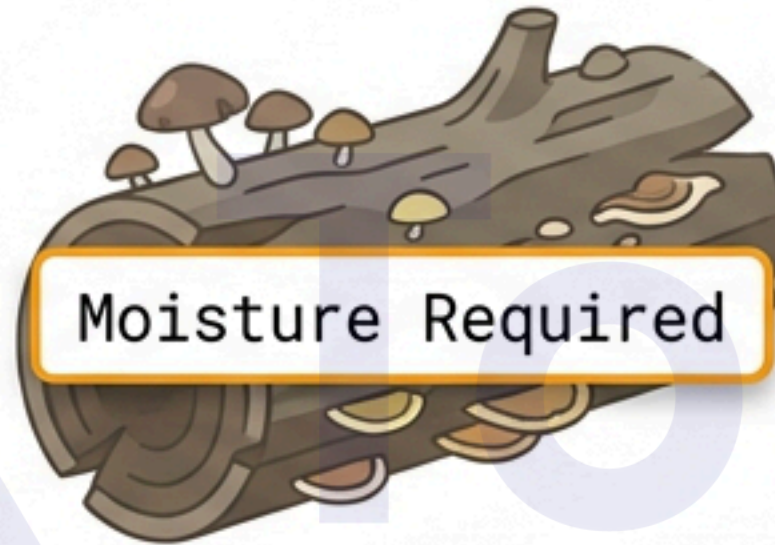


## Aquatic Habitats



Found extensively in water environments.

## Decaying Wood



Moisture Required

Thrives in moist and damp terrestrial places.

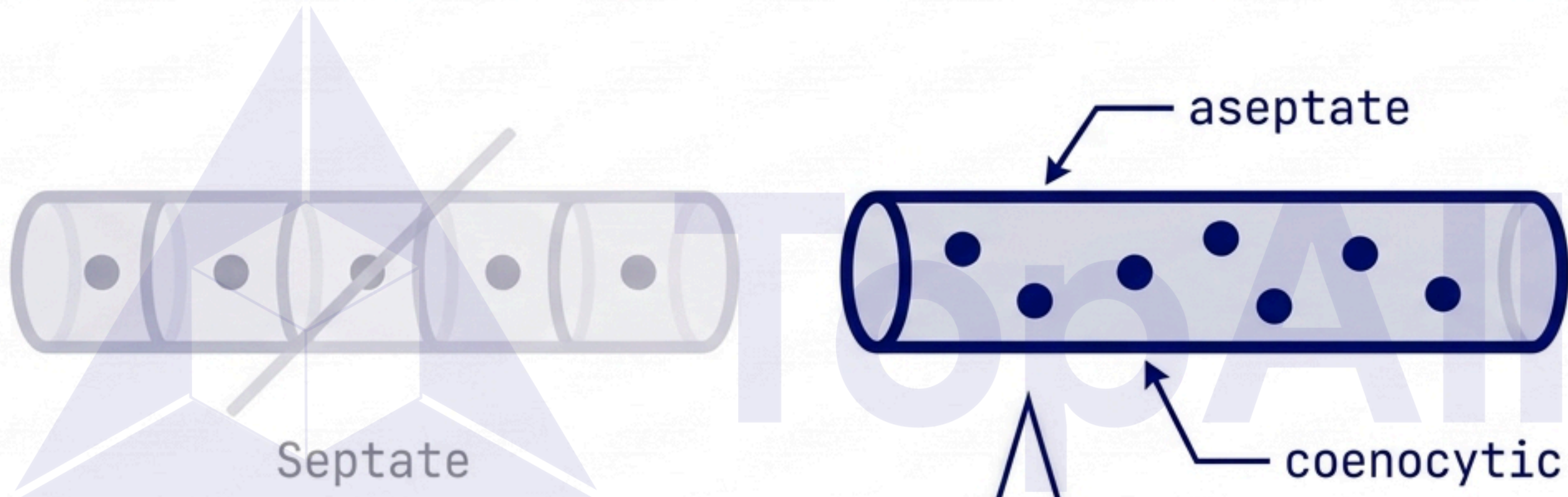
## Obligate Parasites



Plant Pathogen

Cannot survive without a living plant host.

# Structural Anatomy: The Mycelium



## What this means:

The mycelium functions as one giant, continuous tube without cellular partitions.



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

$$E=mc^2$$



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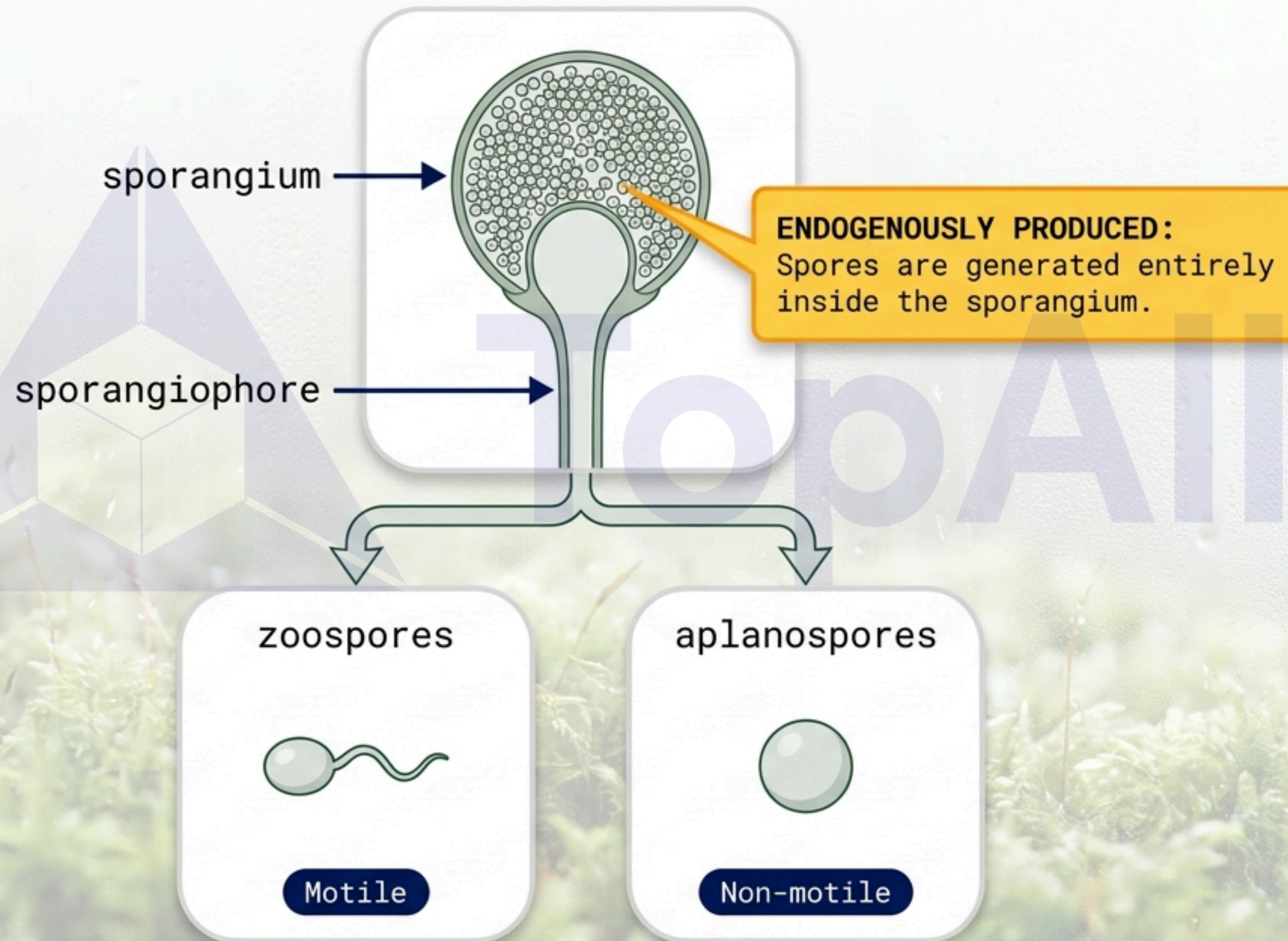
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## Key Highlights

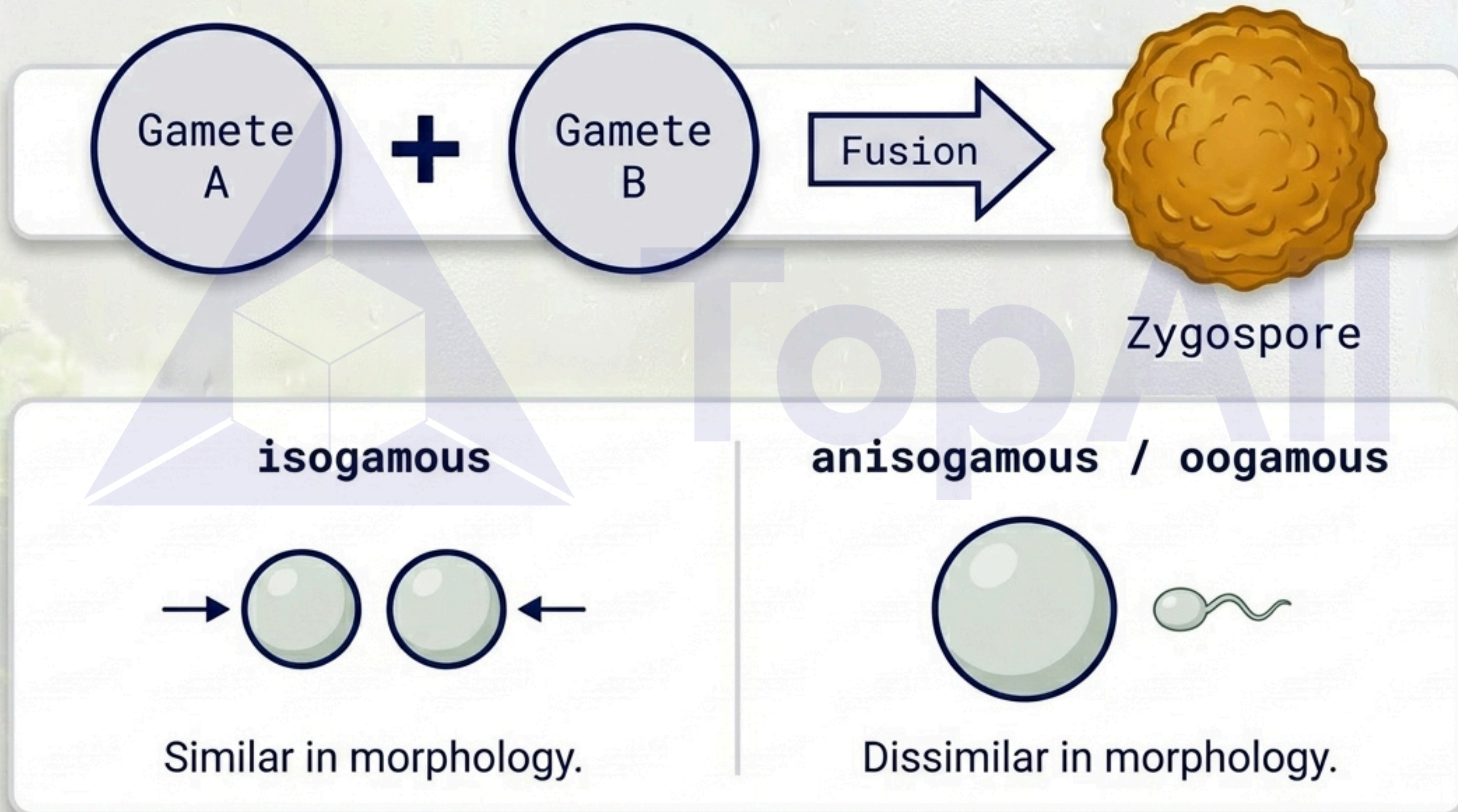
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# Asexual Reproduction: Spore Pathways



# Sexual Reproduction: Gamete Fusion



# Specimen Spotlight: Core Examples



**Mucor**

**Rhizopus**



The common bread mould.

**Albugo**



Parasitic fungi on mustard.

## 1. Anatomy

Mycelium is strictly **aseptate** and **coenocytic**.

## 3. Sexual Repro

Fusion of two gametes forms a **zygospore**.

Morphology: **isogamous**, **anisogamous**, or **oogamous**.

## 2. Asexual Spores

Produced **endogenously** (inside sporangium).

- Types: **zoospores** (motile) & **aplanospores** (non-motile).

## 4. The Big 3 Examples

- *Mucor*
- *Rhizopus* (Bread mould)
- *Albugo* (Mustard parasite)



# You've Learned the Theory.

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