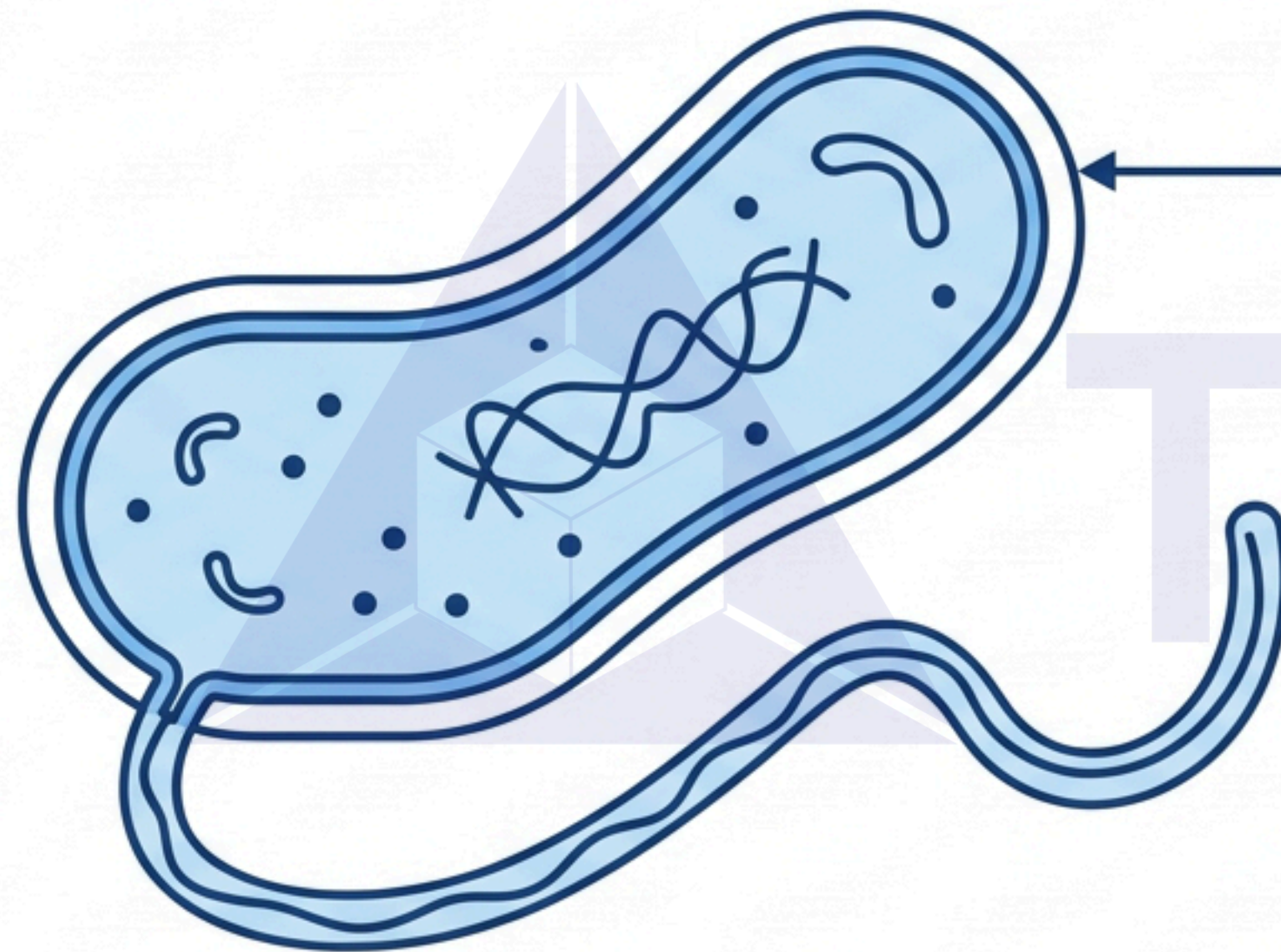


CHAPTER 2.1.2

Eubacteria: True Bacteria

A High-Yield Structural and
Ecological Synthesis



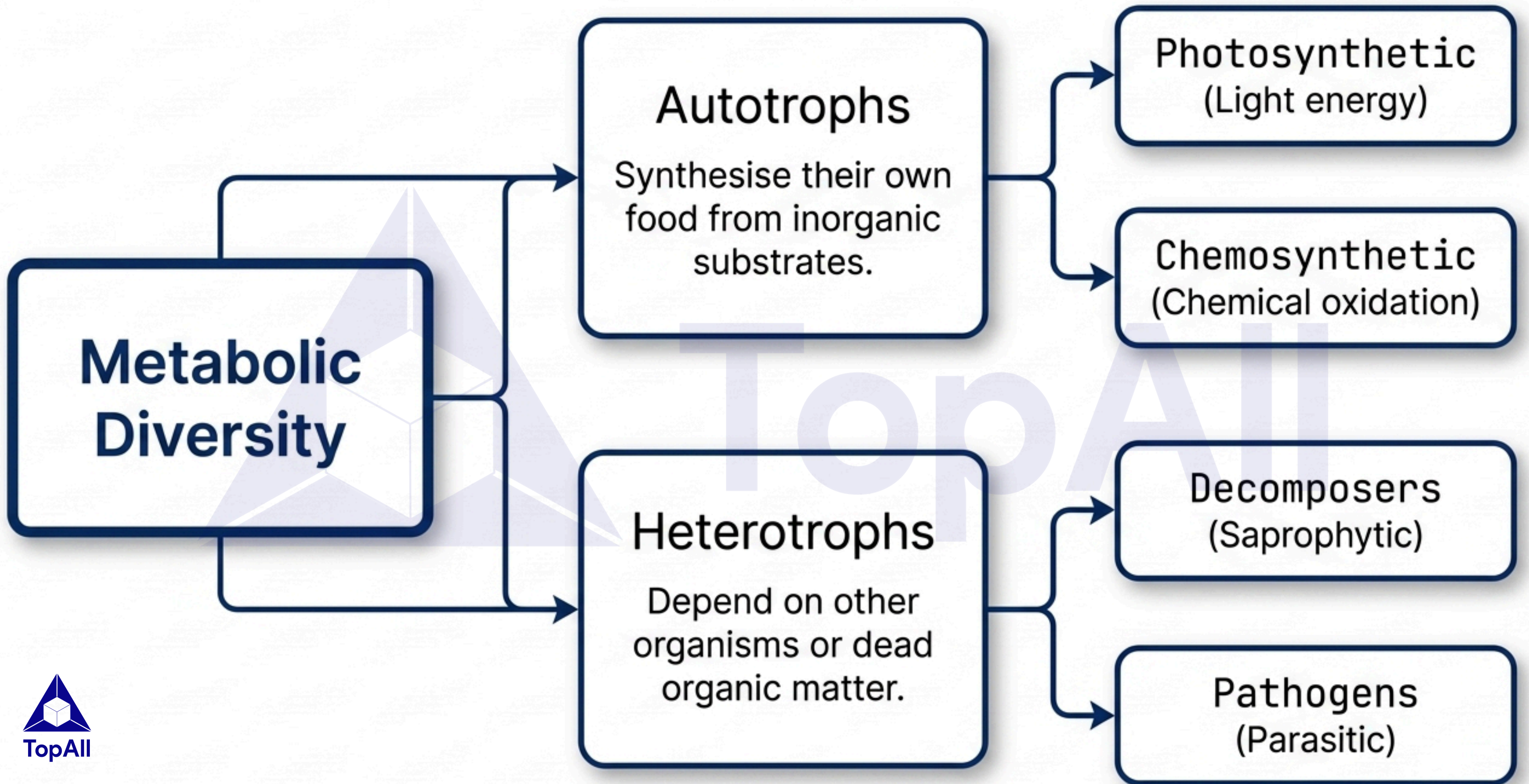
Rigid Cell Wall

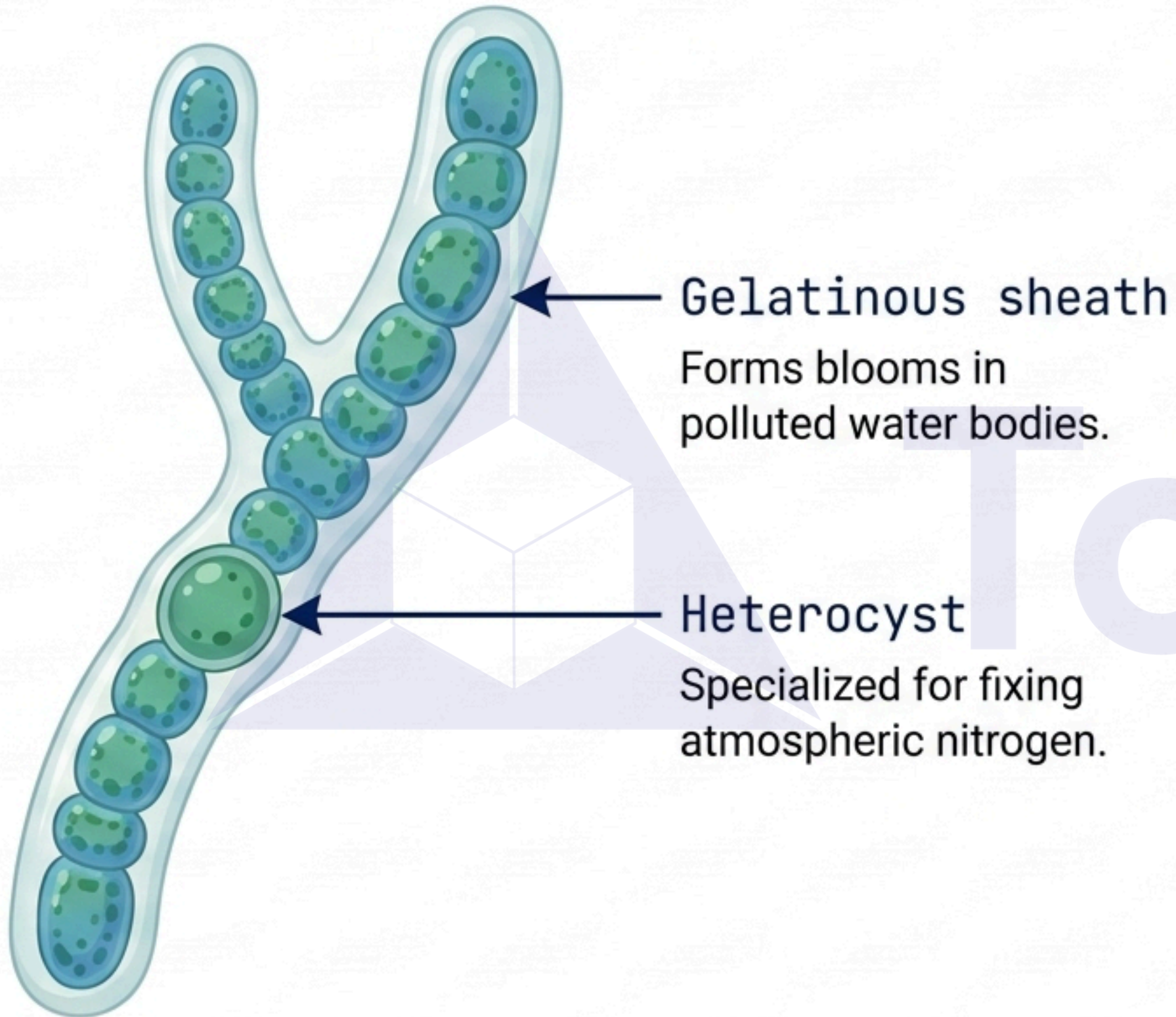
The primary defining feature of all eubacteria.

Flagellum

Present specifically for motility.

Diagnostic Feature: Presence of a rigid cell wall is the absolute diagnostic feature of Eubacteria.





Cyanobacteria (Blue-Green Algae)

- Traits: Unicellular, colonial, or filamentous. Found in freshwater, marine, or terrestrial environments.
- Key Feature: Contains Chlorophyll a (similar to green plants).



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

$$E=mc^2$$



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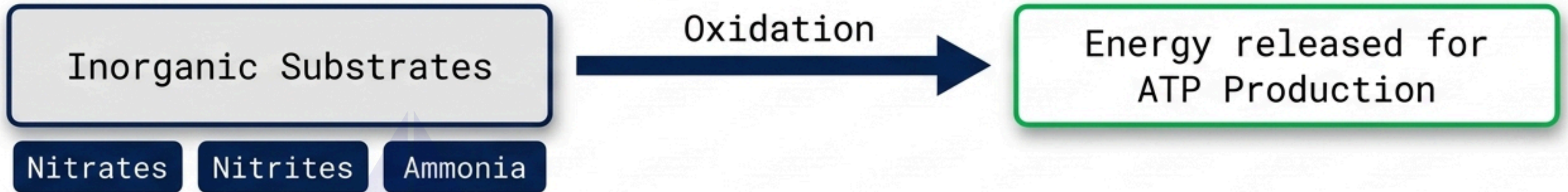
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Key Highlights

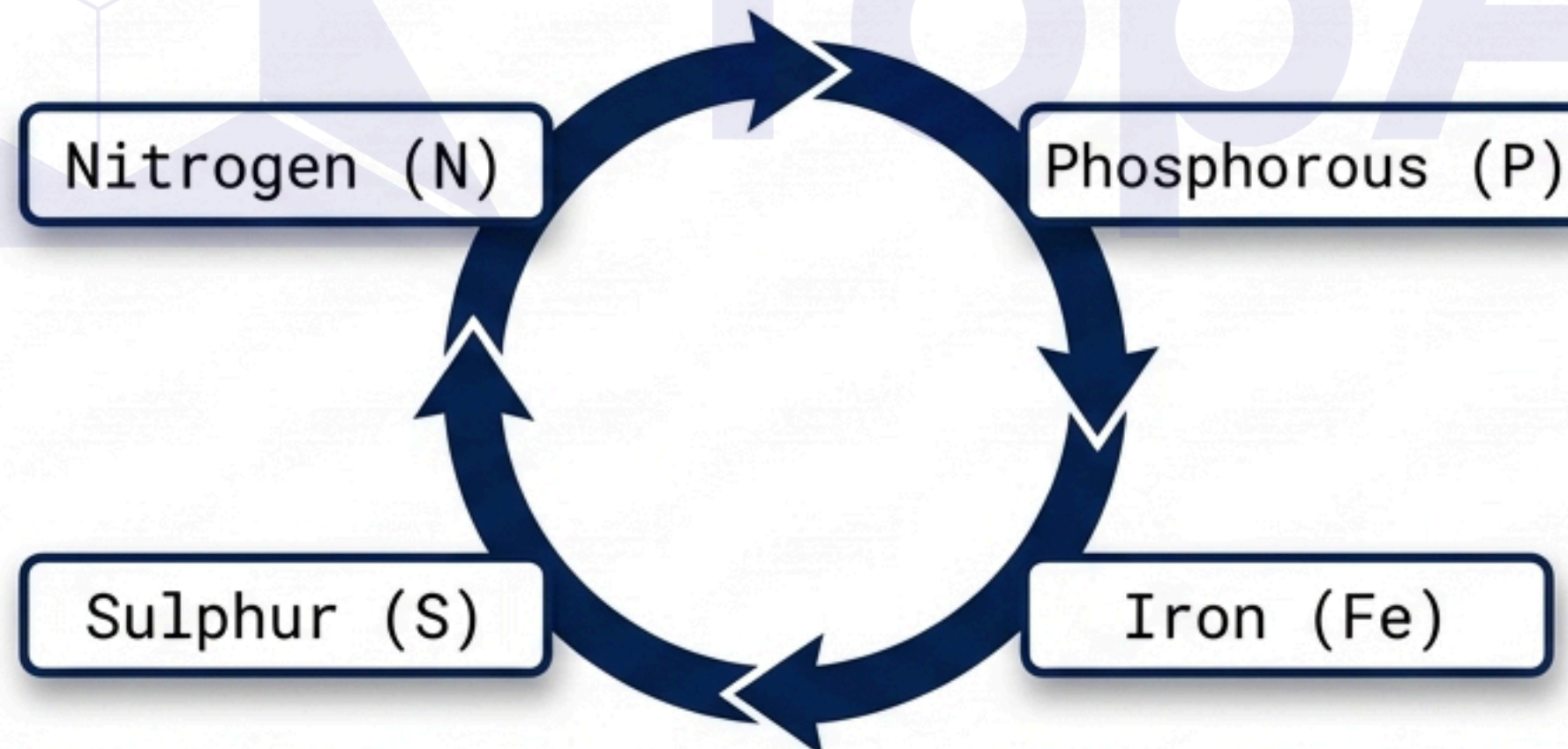
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Chemosynthetic Autotrophic Bacteria



The Great Recyclers: Essential for returning elemental nutrients to the biosphere.





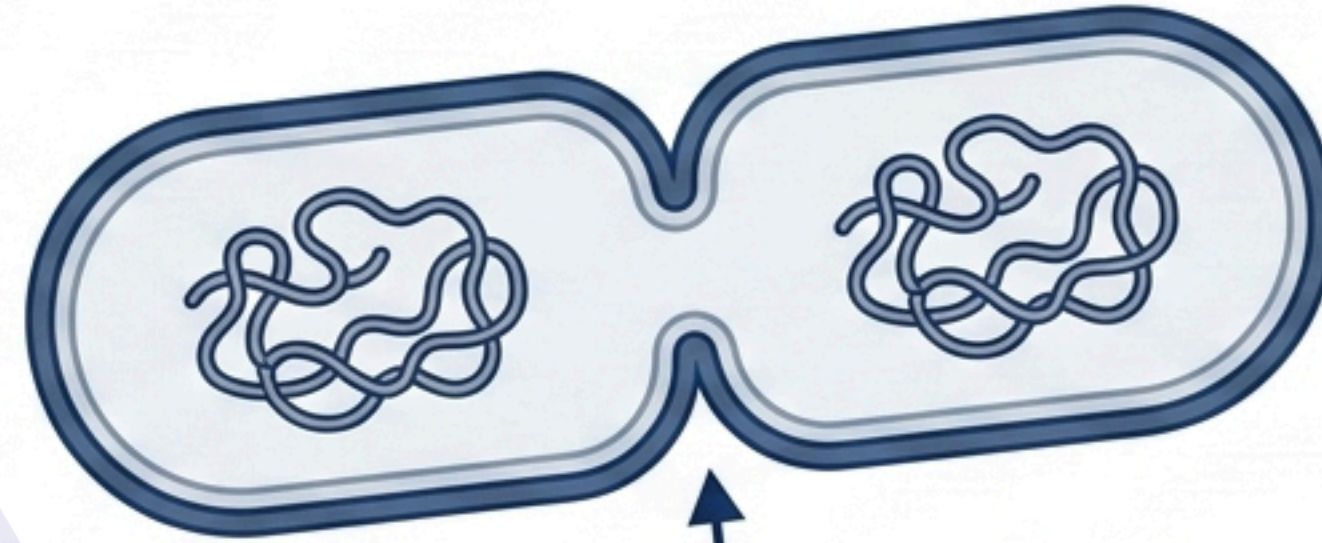
Human Utility & Ecosystems

- Majority act as crucial **Decomposers**.
- Dairy industry: Making curd from milk.
- Medicine: Production of **Antibiotics**.
- Agriculture: Fixing nitrogen in legume roots.



Pathogenic Hazards

- Cause damage to humans, crops, and farm animals.
- Human Diseases: **Cholera, Typhoid, Tetanus**.
- Plant Diseases: **Citrus canker**.



Fission

Fission

The primary method of asexual reproduction.

Spore Formation

Triggered only under unfavourable survival conditions.

DNA Transfer

A primitive type of sexual reproduction involving transfer from one bacterium to another.

The Exception: Mycoplasma



Structure: Completely lack a cell wall.

Scale: The smallest living cells known.

Resilience: Can survive without oxygen (anaerobic).

Impact: **Highly pathogenic** in both animals and plants.

High-Yield Revision: Eubacteria



Defining Traits

Rigid cell wall is universal; flagella only if motile.



Cyanobacteria

Contains Chlorophyll a . Uses Heterocysts for N-fixation (e.g., *Nostoc*, *Anabaena*).



Heterotrophs

Most abundant. Range from crucial decomposers to deadly pathogens (Cholera, Typhoid).



Mycoplasma

Smallest cells, absolutely NO cell wall, survive without O_2 .



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