



Biotechnology Explained

From traditional microbe-mediated processes to modern molecular synthesis.

The Fundamental Equation



At its core, biotechnology deals with techniques of using live organisms or enzymes from organisms to produce products and processes useful to humans.

The Traditional View

Microbe-Mediated Processes utilizing natural biological capabilities.



Making
Curd



Baking
Bread



Fermenting
Wine

Historically, these everyday processes were our first forms of biotechnology.



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

$$E=mc^2$$



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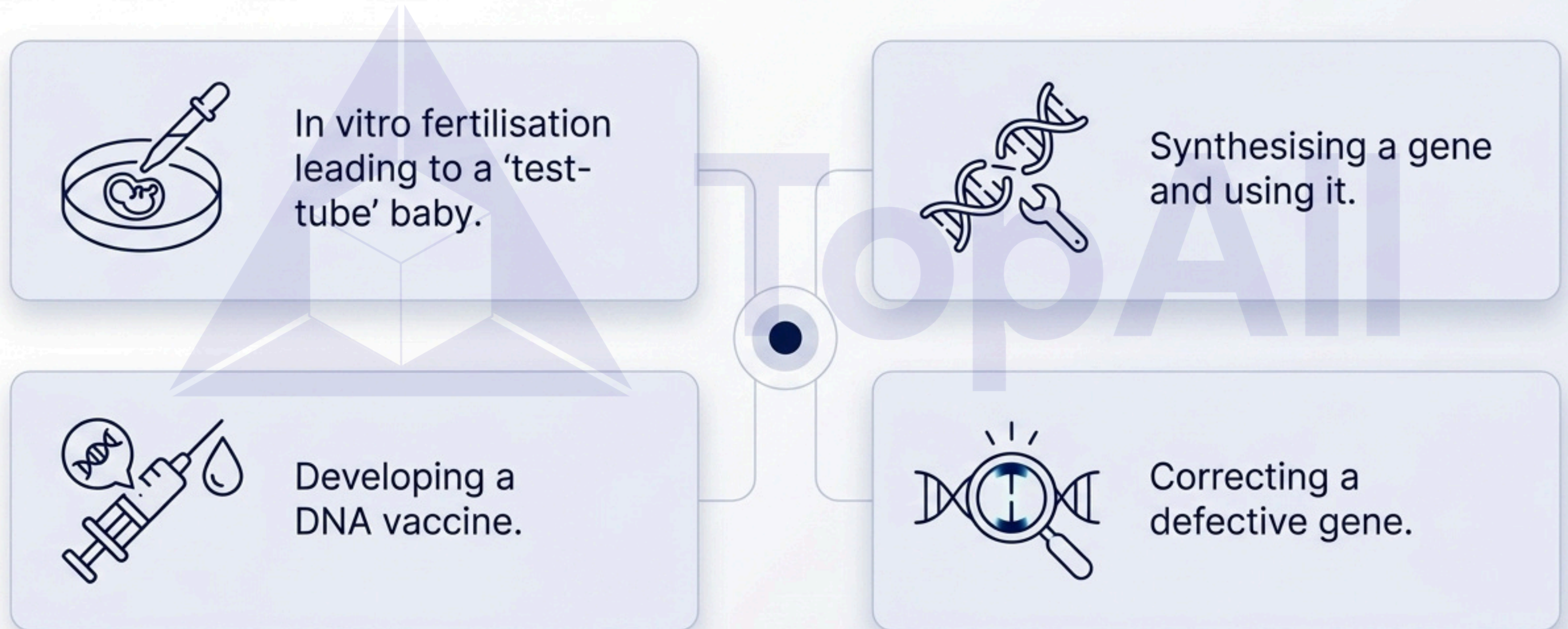
Key Highlights

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The Modern Era

Today, biotechnology is often used in a restricted sense, referring to processes using genetically modified organisms to achieve results on a larger scale.



The EFB Definition



The foundational principles of biology, chemistry, and physics.

‘The integration of **natural science** and **organisms, cells, parts** thereof, and **molecular analogues** for products and services’.



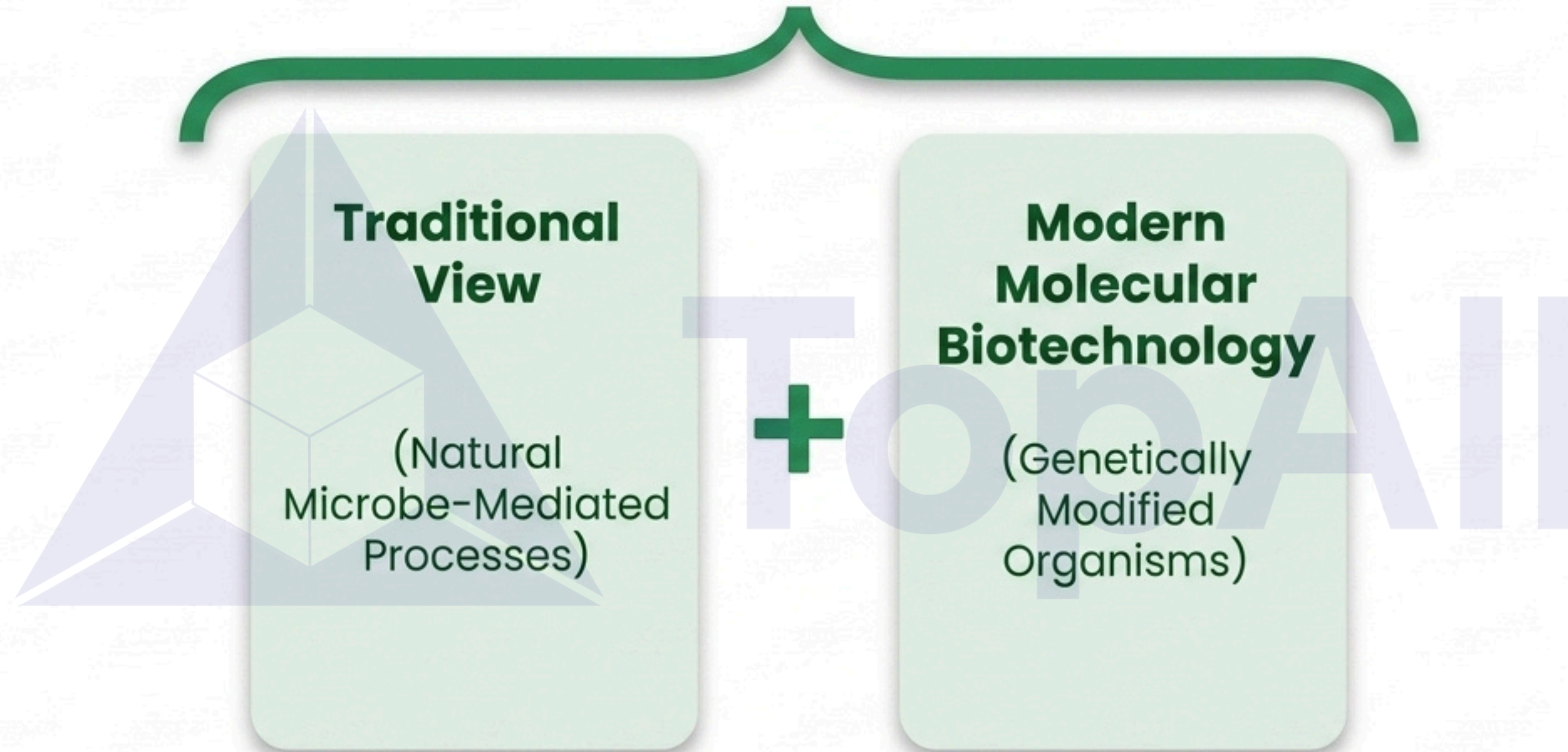
Spans from whole microbes to specific sub-cellular components.



Engineered genetic materials and synthetic biomolecules.

NEET Key Takeaway

The EFB Definition Integrates:



For the exam, remember that the EFB definition is unique because it officially encompasses both traditional practices and modern genetic engineering into a single standardized framework.



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