

**Mohamed Khider University Biskra**  
**Faculty of Exact Sciences and Natural and Life Sciences**  
**Department of Natural and Life Sciences**

**Microbiology**

**TD N°. 03: Bacterial Cell Morphology**

*(Work in pairs)*

**Exercise 1: Illustration Analysis**

Distribution of diagrams representing different bacterial shapes.  
Students must identify the types of bacteria and justify their answers (cocci, bacilli, spirilla, etc.).  
Collective correction and explanation of groupings (staphylococci, streptococci, etc.).

**Exercise 2: Classification**

Associate the following bacteria with their shape and grouping:

- *Staphylococcus aureus*
- *Escherichia coli*
- *Treponema pallidum*
- *Corynebacterium diphtheriae*
- *Bacillus subtilis*

**Exercise 3: Comparison Between Essential and Facultative Structures**

Complete a table by classifying the following elements into the correct category:

- Cytoplasm
- Ribosomes
- Cytoplasmic membrane
- Cell wall
- Capsule
- Flagella
- Pili
- Plasmids
- Endospores