



Tikrit University  
College of Veterinary Medicine

# Lect.5: Microbiology

Subject name: Bacterial morphology

Subject year: Third-year

Lecturer name:

Assist.Lecturer. Hanen omar

Academic Email:

Hanenomar@tu.edu.iq



SCAN ME

Lecturers link

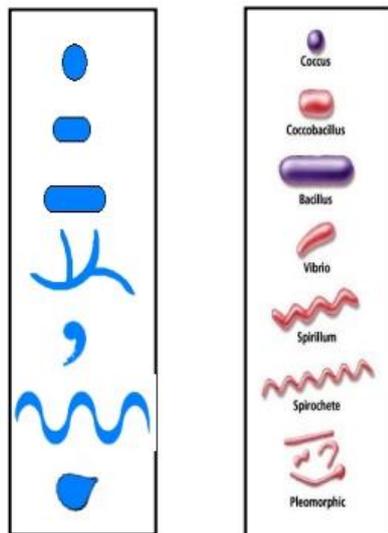
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## Microbiology

### Bacterial Morphology

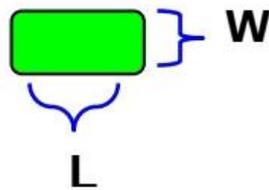
#### 1. Shape

- a- Coccus
- b- Short rods
- c- Long rods
- d -Filamentsd
- e-Comma shape
- f-Spirals
- g -Club



#### 2. Size .

Width and Length



#### 3. Axis.

- a- Straight.

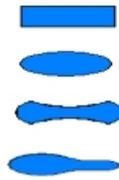


b-Curved.



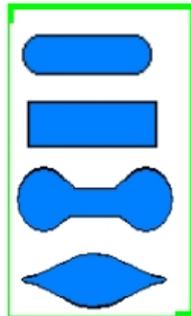
#### 4. Sides.

- a-Parallel
- b-Swollen
- c-Concave
- d-Irregular



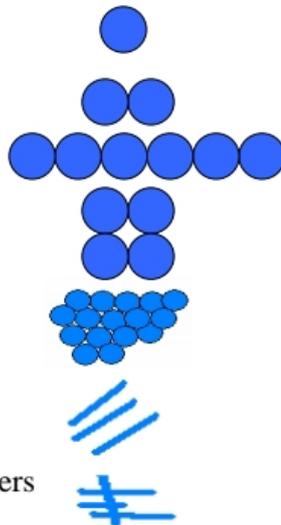
#### 5. Ends.

- a- Rounded
- b-Flat ends
- c-Swollen
- d-Pointed



#### 6- Arrangement.

- a-Single cells
- b-Diploids
- c-Chains
- d-Tetrads
- e-Clusters
- f-Bands
- g-Chinese letters



#### 7. Motility and Flagella.

Flagella are arranged in different patterns:-

- a-monotrichous 
- b-lophotrichous 
- c-peritrichous 
- d-amphitrichous 

**8. Spores.**

- a- Round, Central. 
- b-Oval, Central. 
- c-Round, sub terminal. 
- d-Round, Terminal. 
- e-Causes swollen. 
- f-Does not causes swollen. 

**9. Capsule.**

- a-Capsulated. 
- b-Noncapsulated. 

**10. Staining.**

- a-Even. 
- b-Uneven. 
- c-Bipolar. 
- d-Metachromatic granules. 

**11. Gram's stain.**

**12. Ziehl – Neelsen stain.**