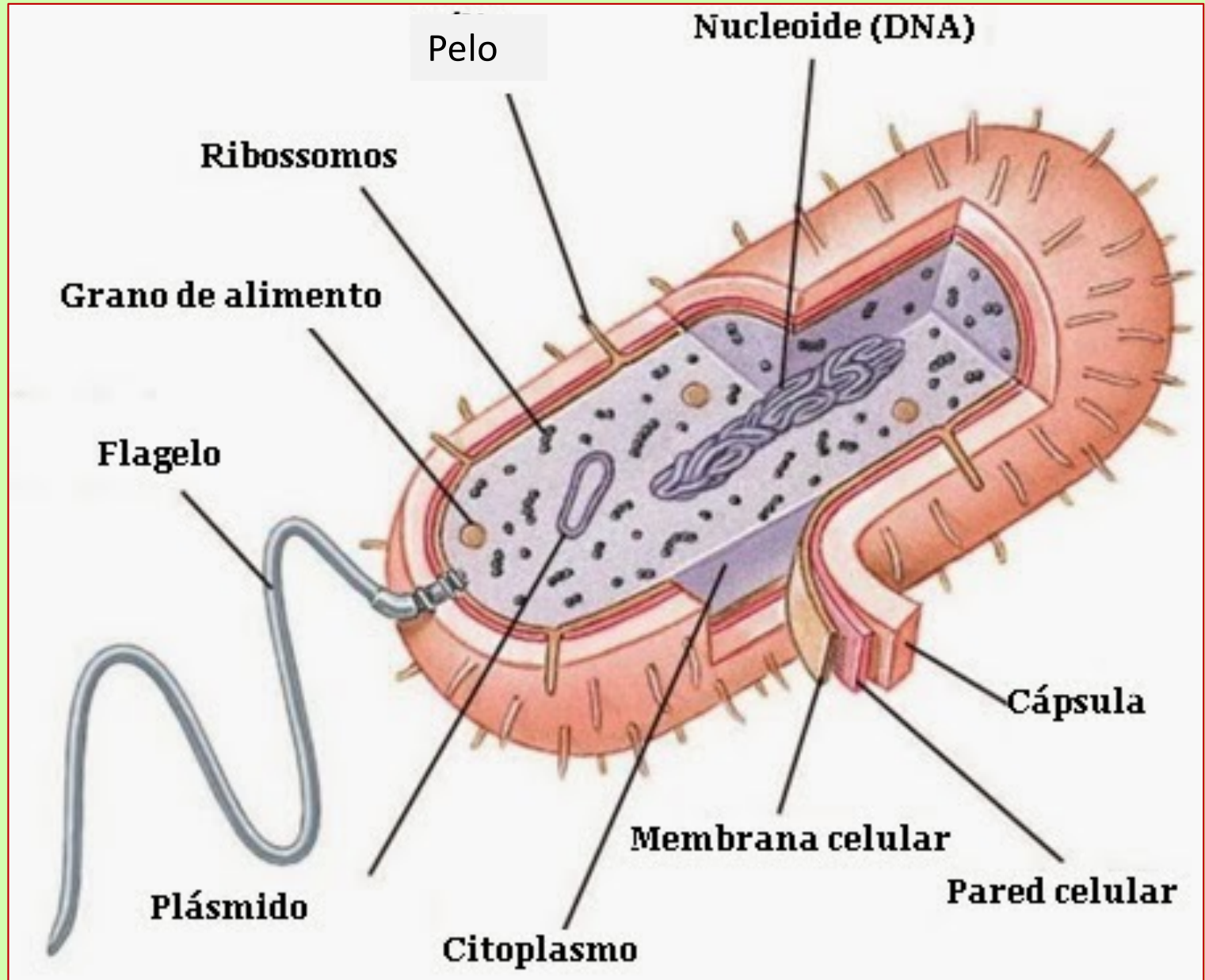
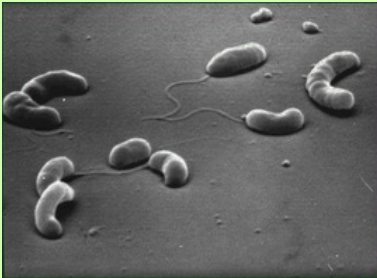
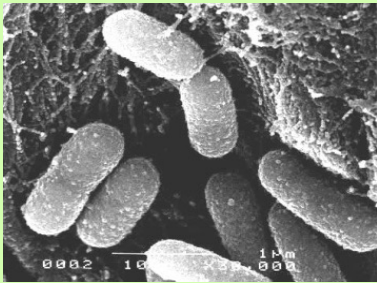
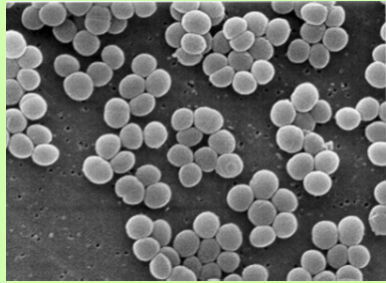


# BACTERIOLOGÍA

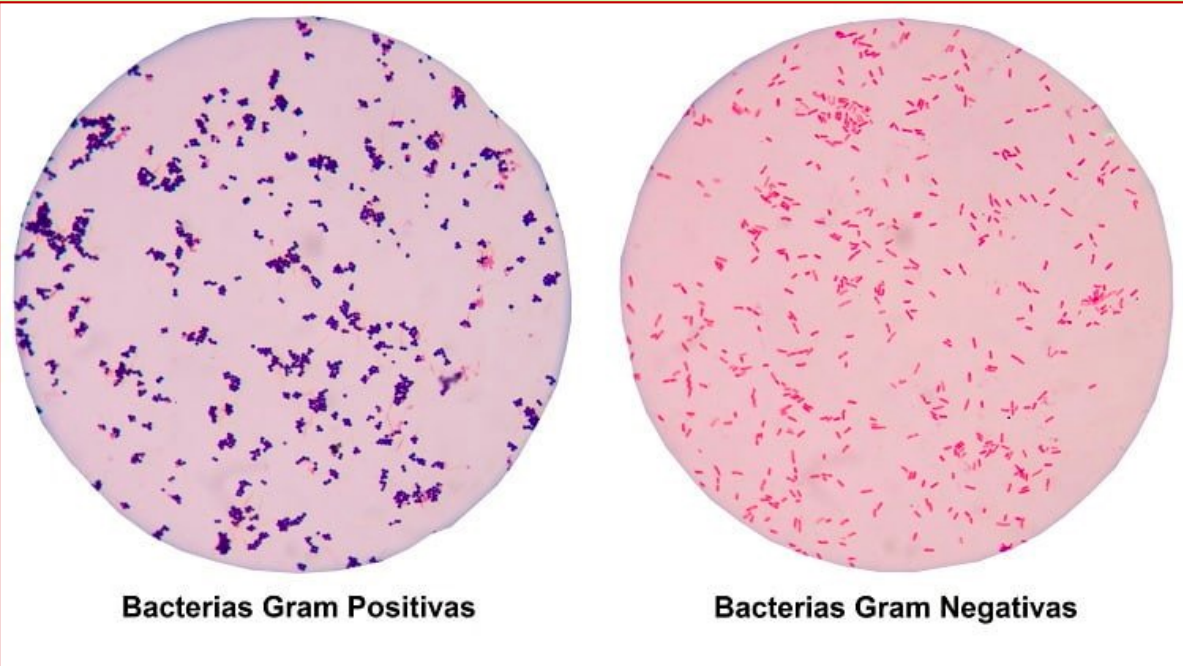


# LAS BACTERIAS

Un reino (Moneras) y dos dominios (Bacterias y Archeobacterias)

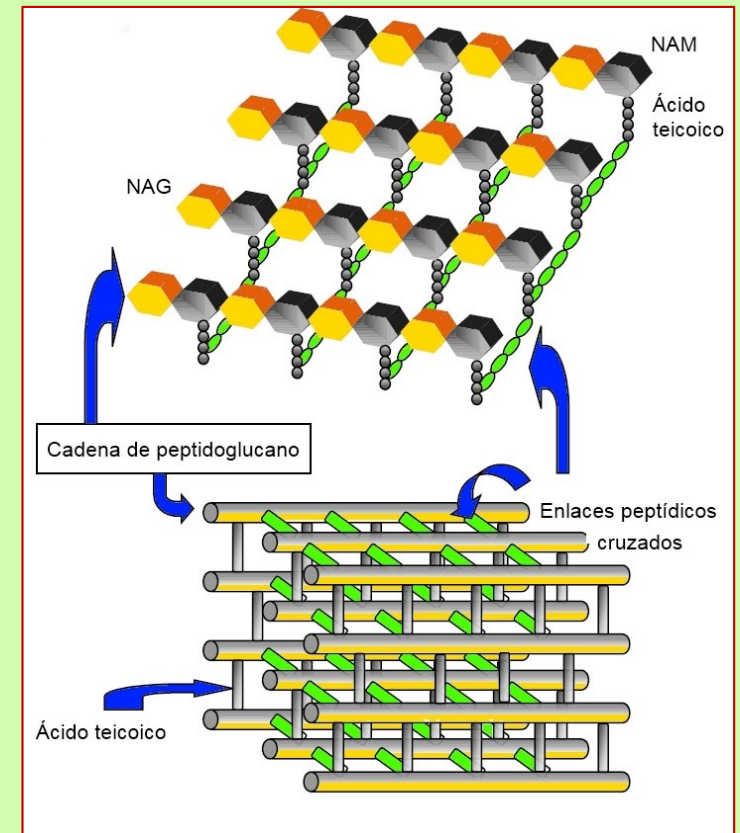
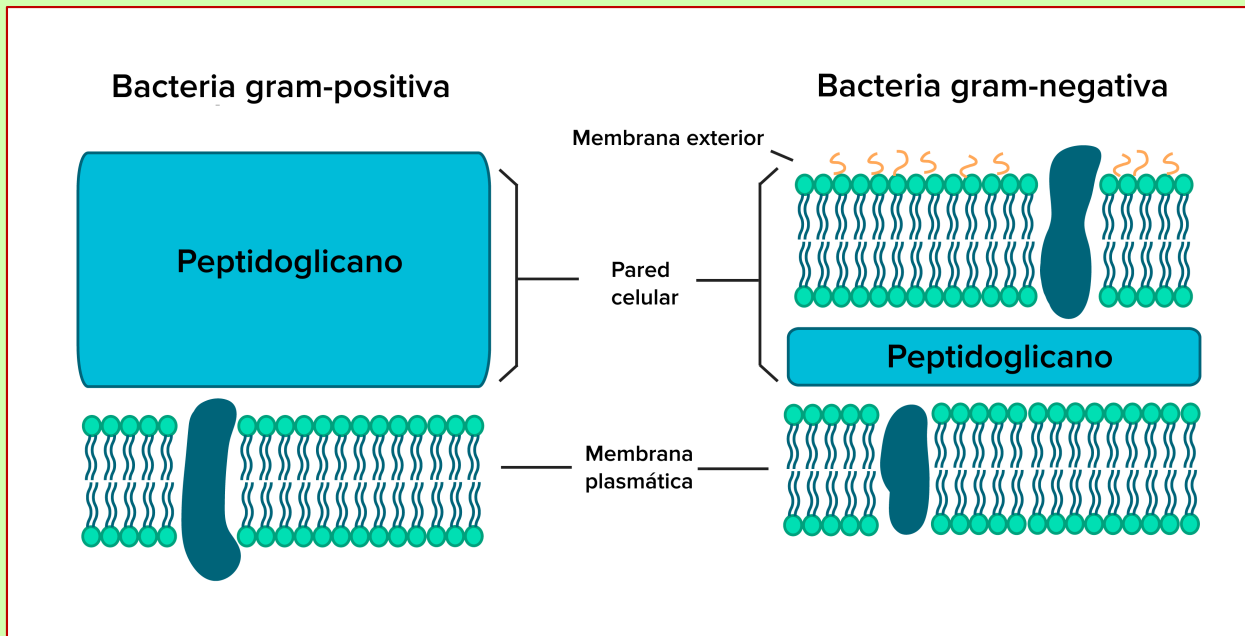


# PARED BACTERIANA

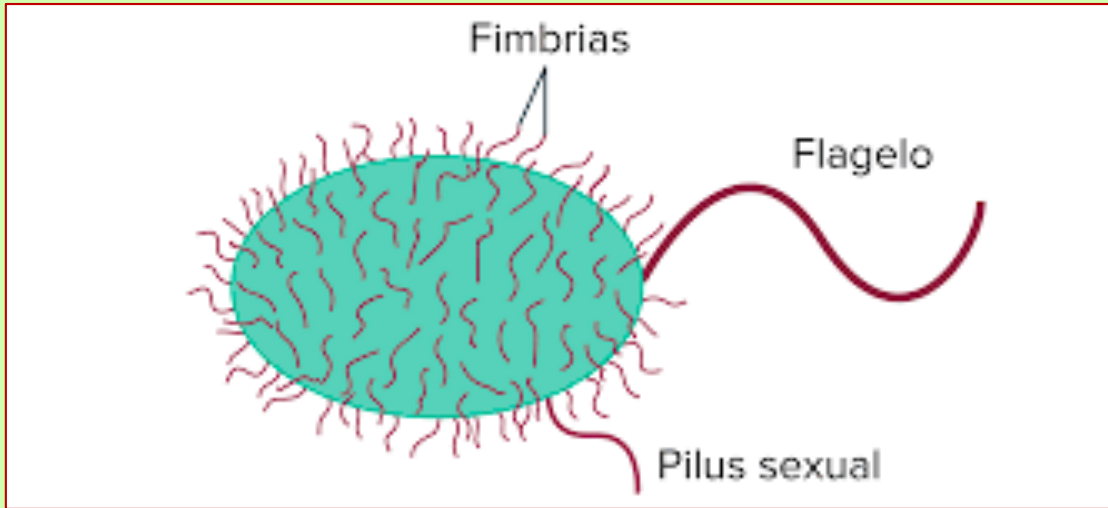


## TINCIÓN DE GRAM:

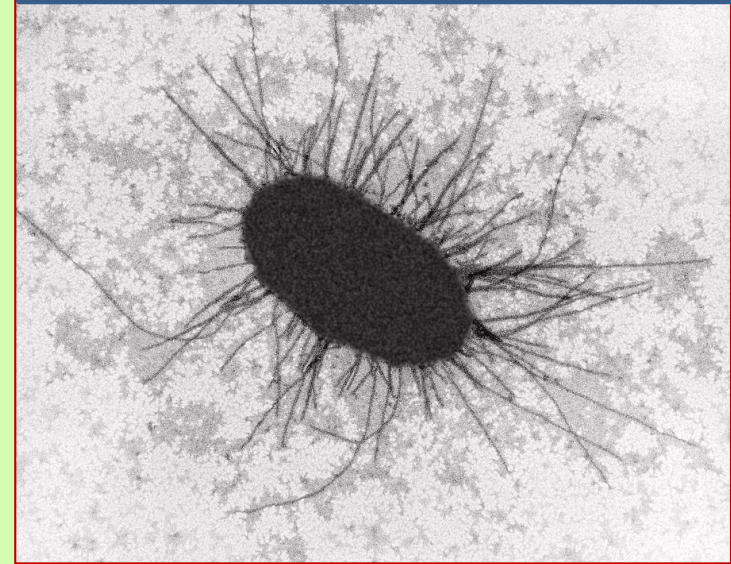
- Añadir azul violeta y después lugol.
- Agregar mezcla de alcohol y acetona.
- Añadir safranina o fucsina (colorante de contraste).



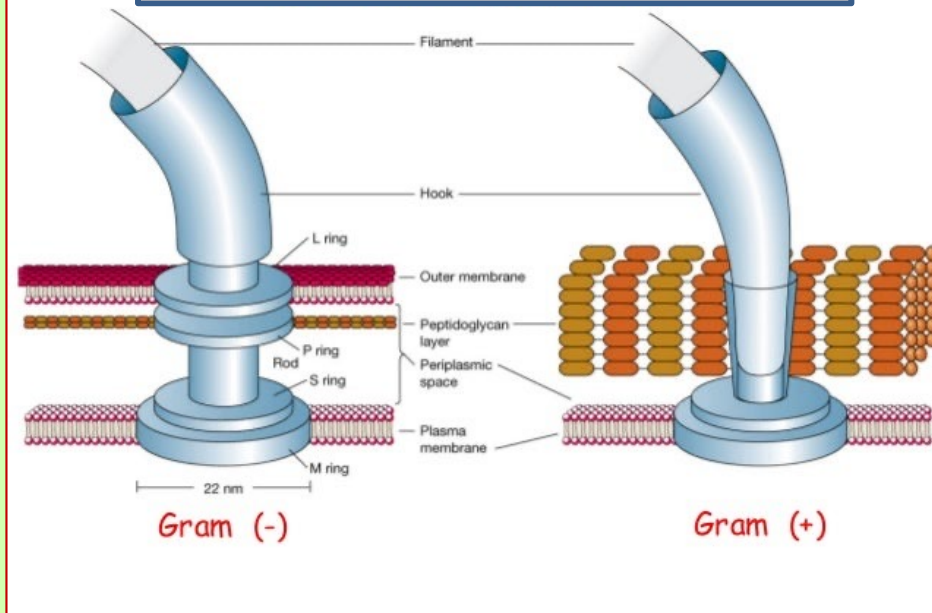
# APÉNDICES BACTERIANOS



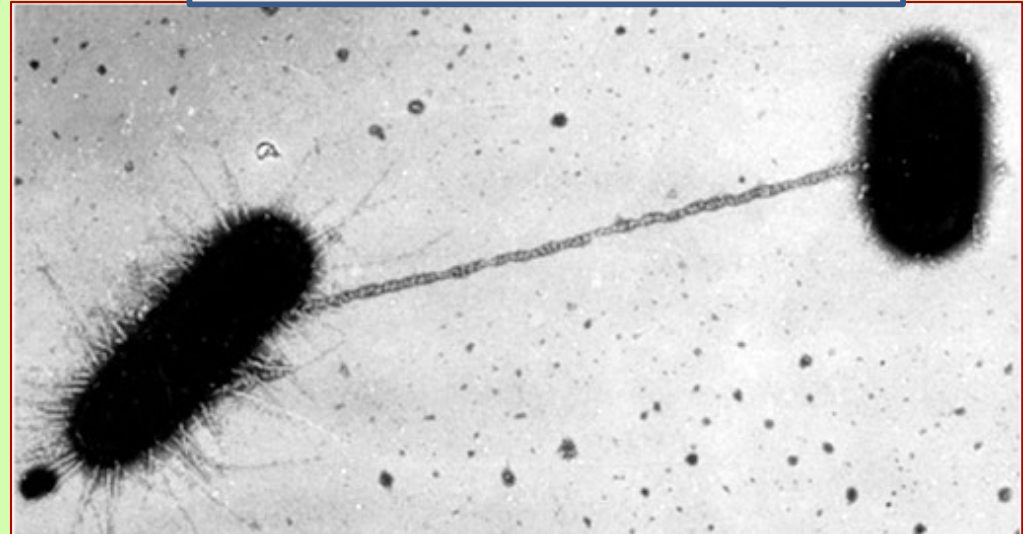
**FIMBRIAS**



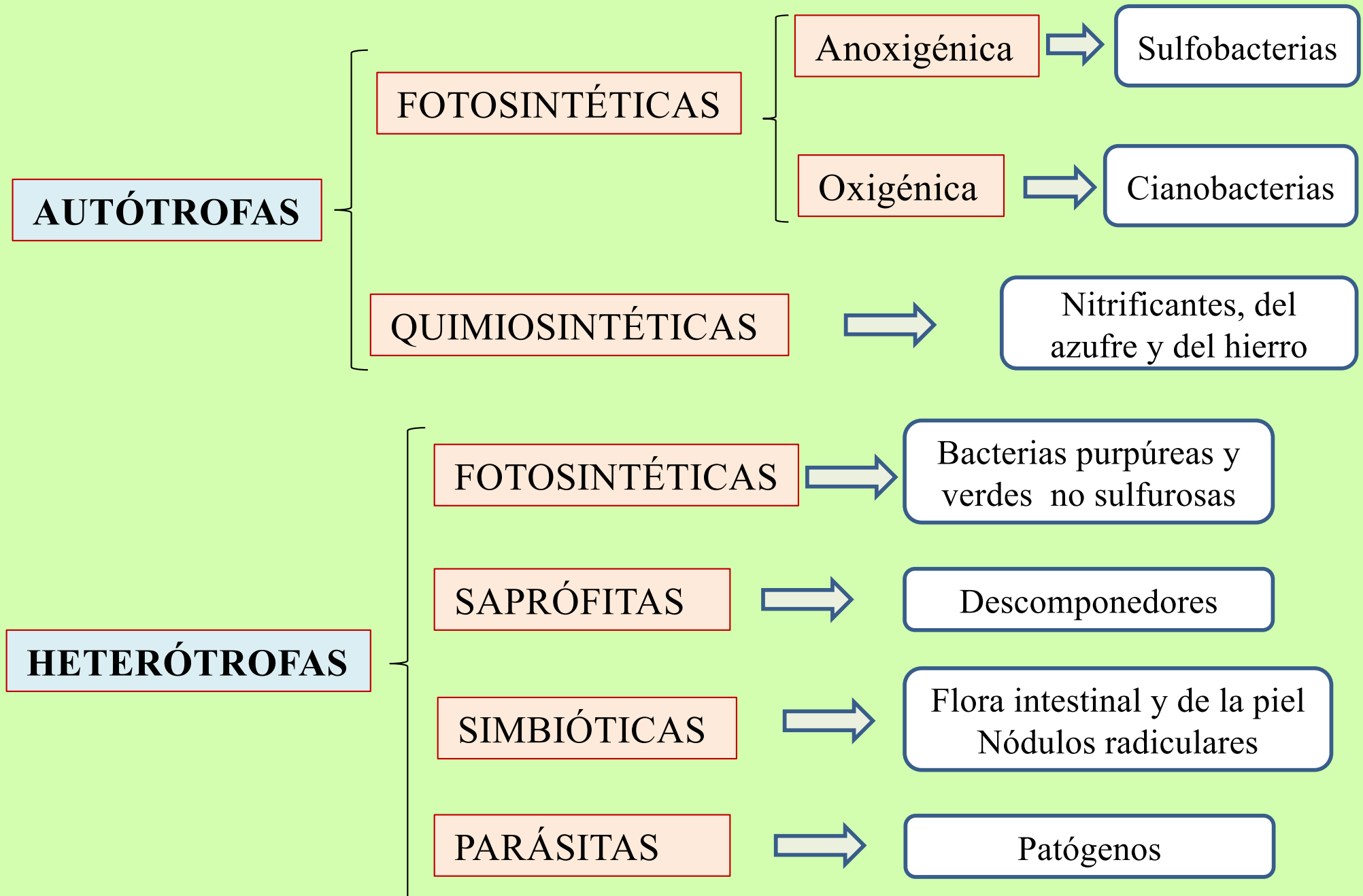
**FLAGELO BACTERIANO**



**PELO SEXUAL**



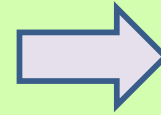
# NUTRICIÓN EN LAS BACTERIAS



# RELACIÓN EN LAS BACTERIAS

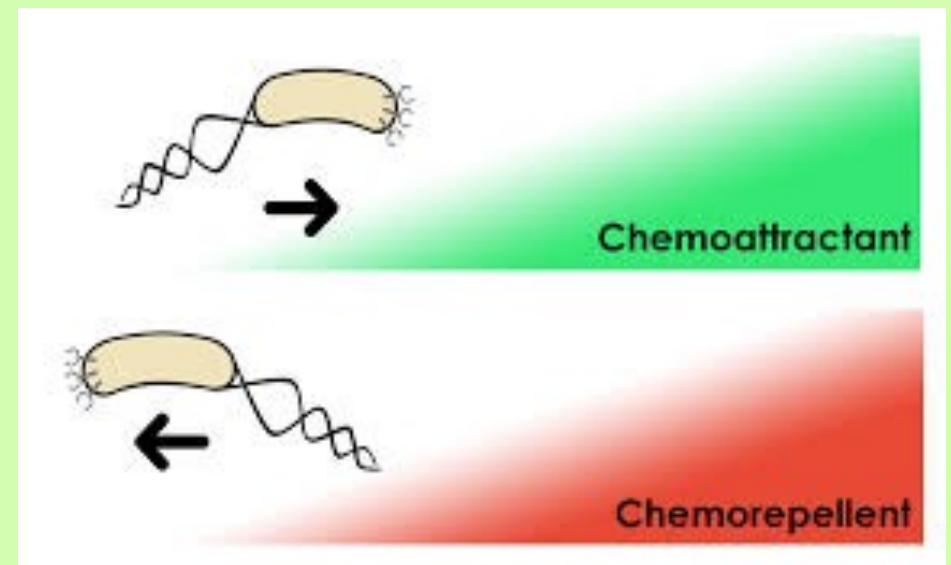
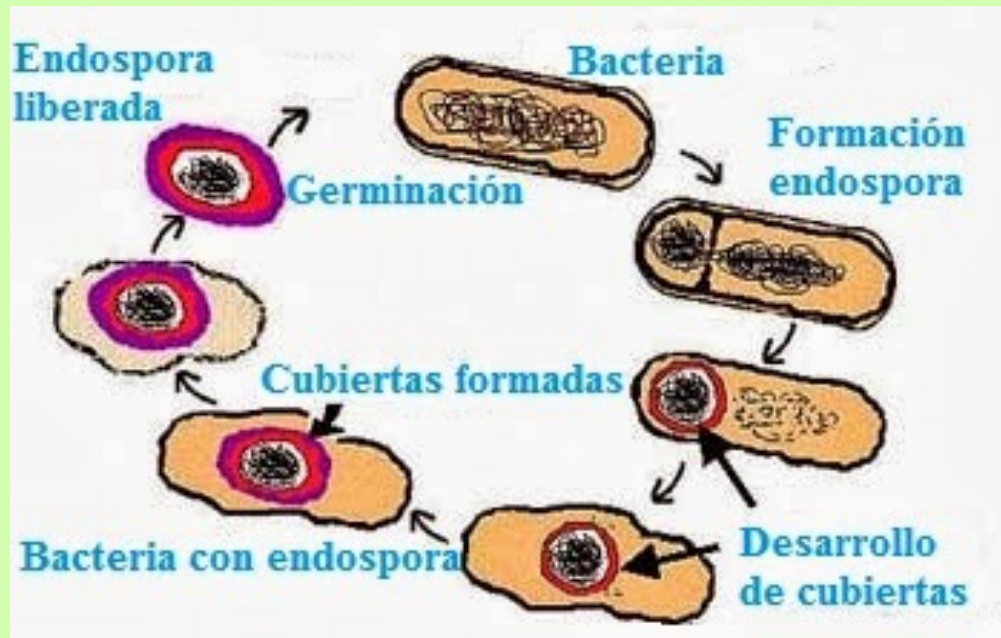
## ESTÍMULOS

- Cambios de pH, temperatura o salinidad.
- Presencia de luz, nutrientes, O<sub>2</sub>



## RESPUESTAS

- Quimiotactismos y fototactismos.
- Formación de esporas de resistencia (endosporas).



# REPRODUCCIÓN ASESEXUAL DE LAS BACTERIAS

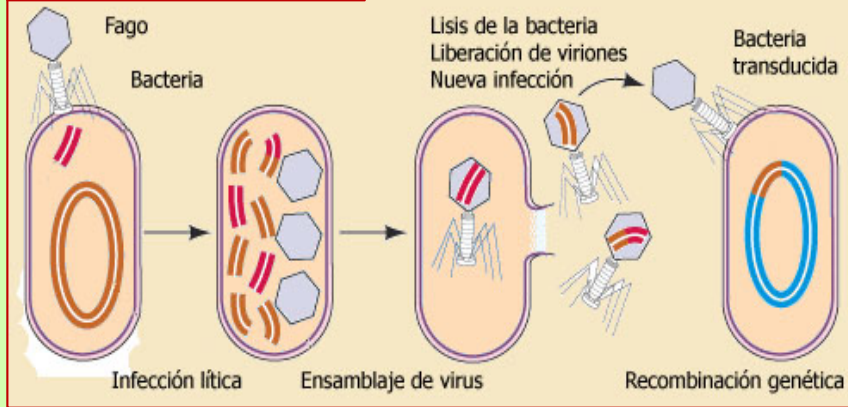


BIPARTICIÓN O FISIÓN BINARIA

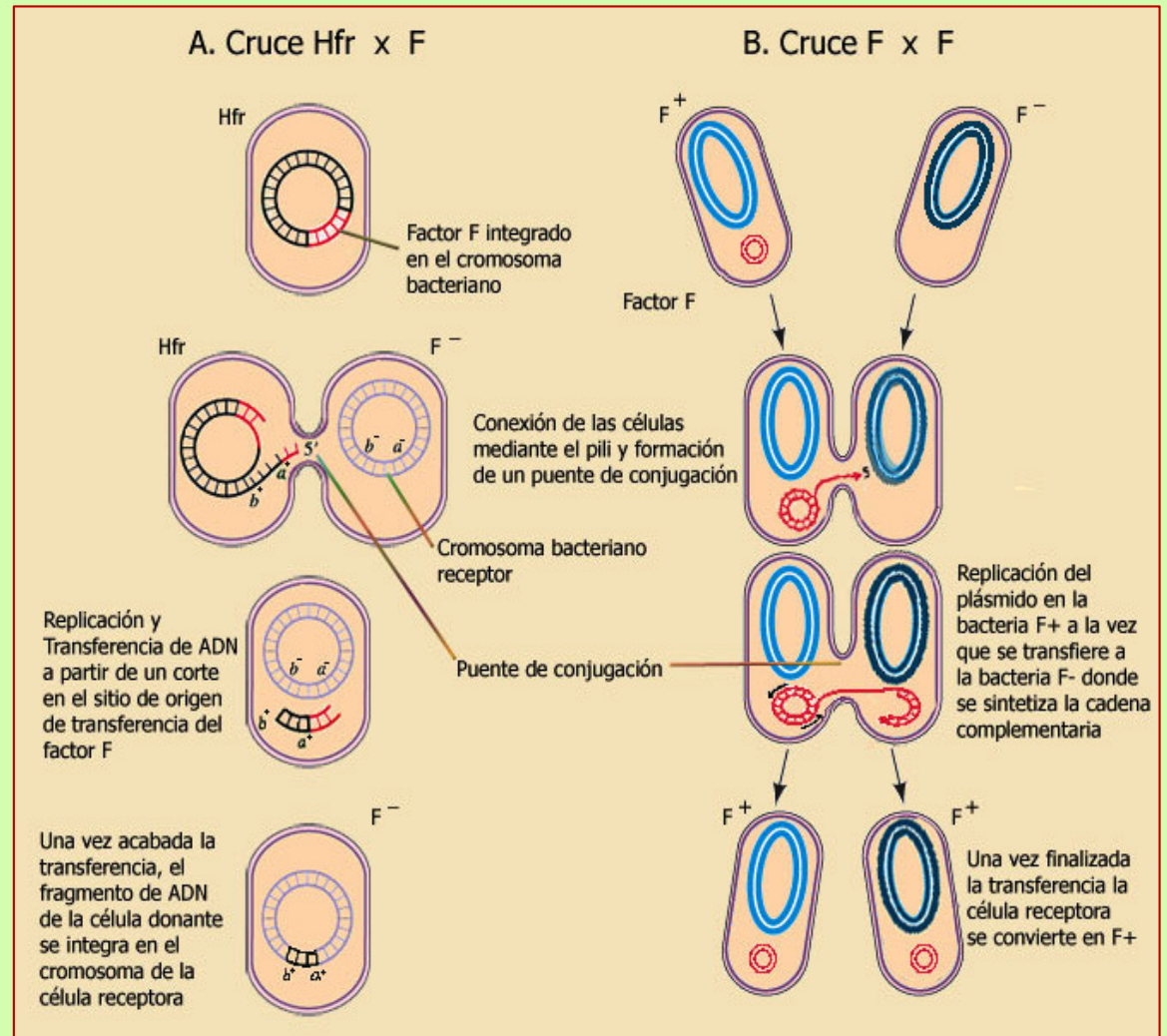


# MECANISMOS PARASEXUALES EN LAS BACTERIAS

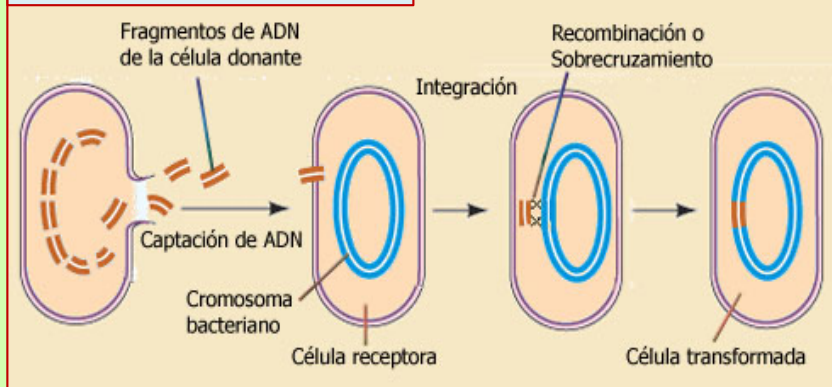
## Transducción



## Conjugación



## Transformación

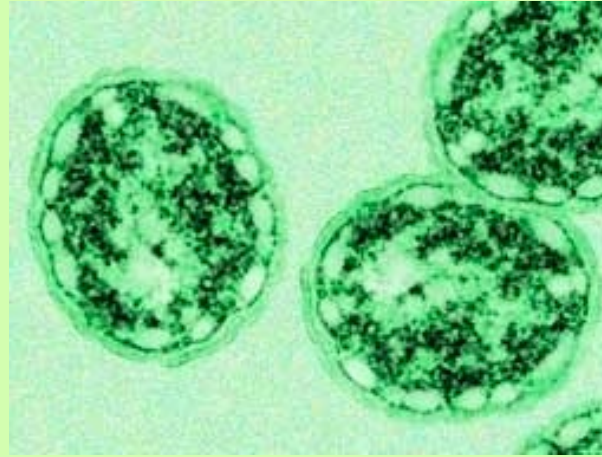




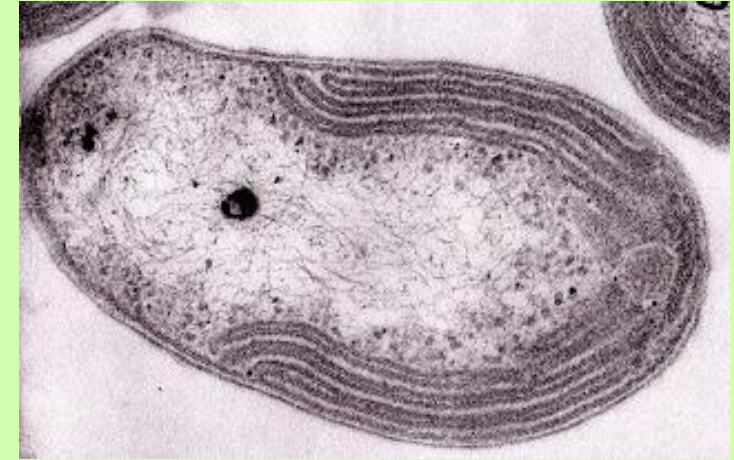
# CLASIFICACIÓN DE LAS EUBACTERIAS



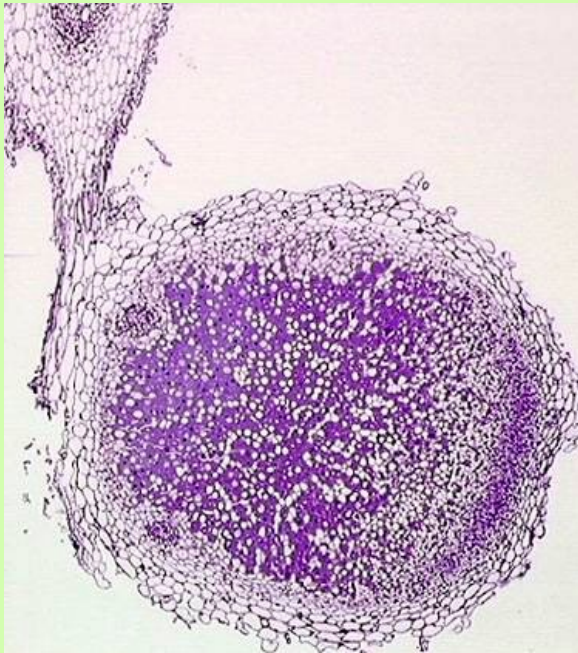
Cianobacterias



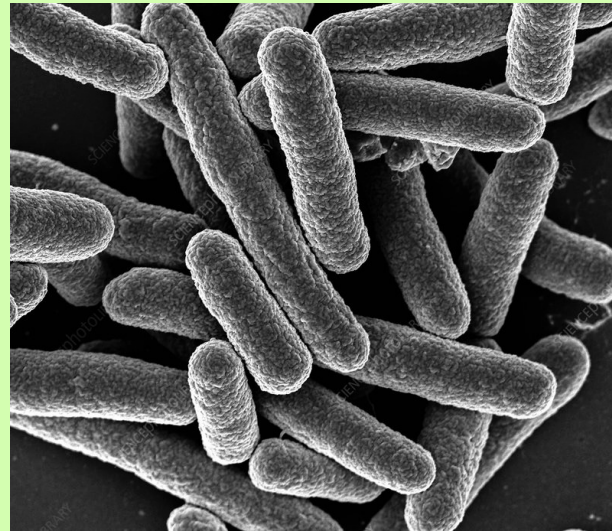
Sulfobacterias verdes



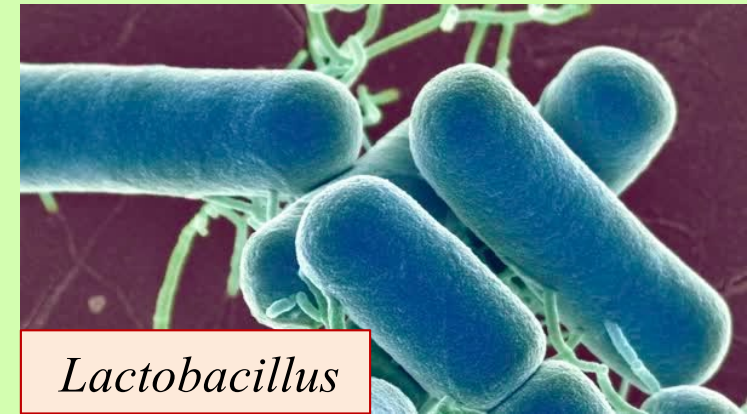
Bacterias nitrificantes  
(*Nitrobacter*)



Bacterias fijadoras del N<sub>2</sub>  
(*Rhizobium*)

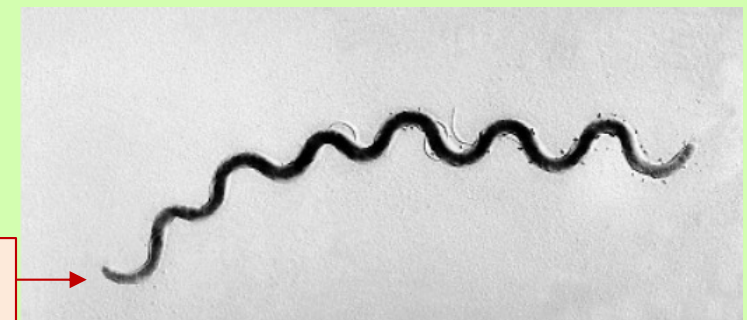


Bacterias entéricas  
(*Escherichia coli*)



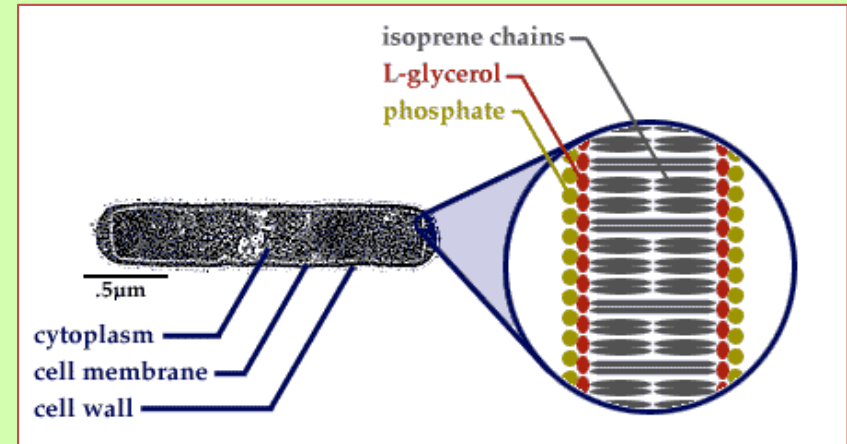
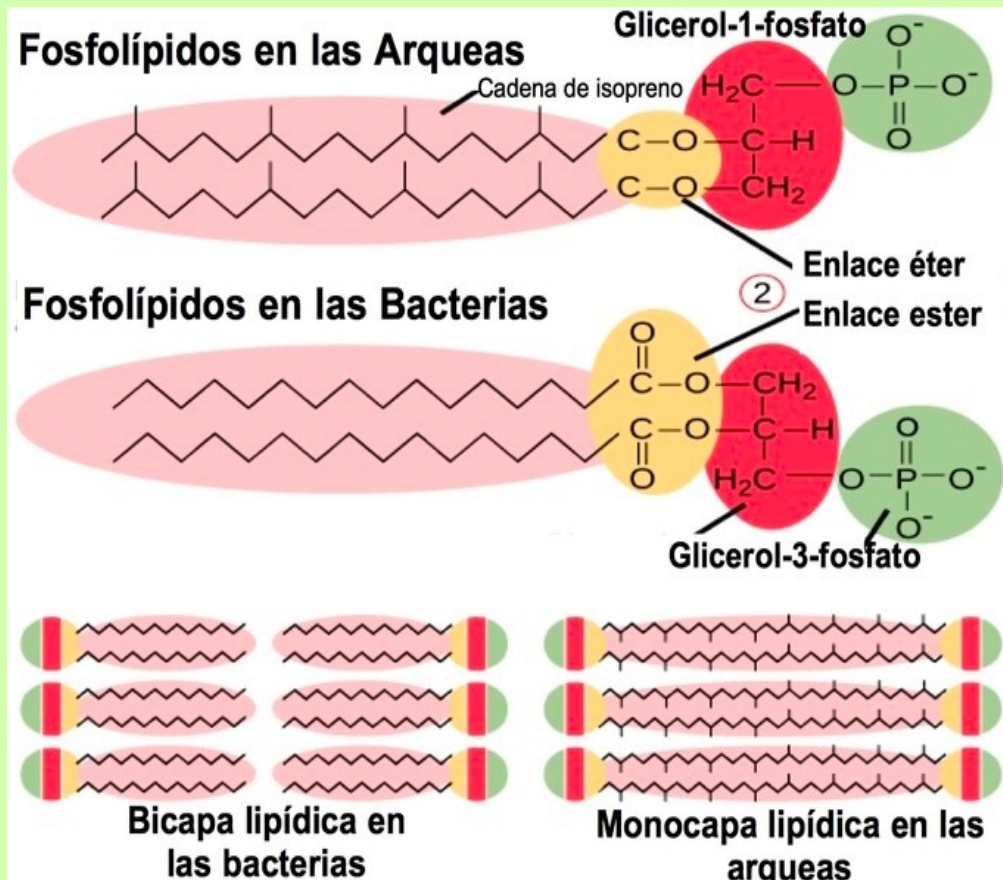
*Lactobacillus*

Espiroquetas (*Treponema*)



# LAS ARQUEOBACTERIAS

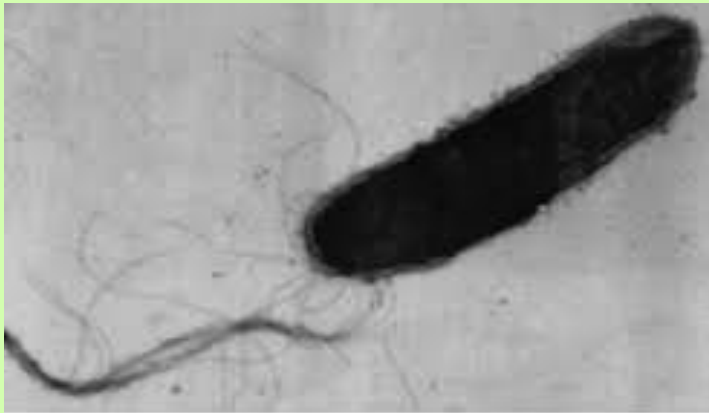
## 1. Membrana plasmática sin AG.



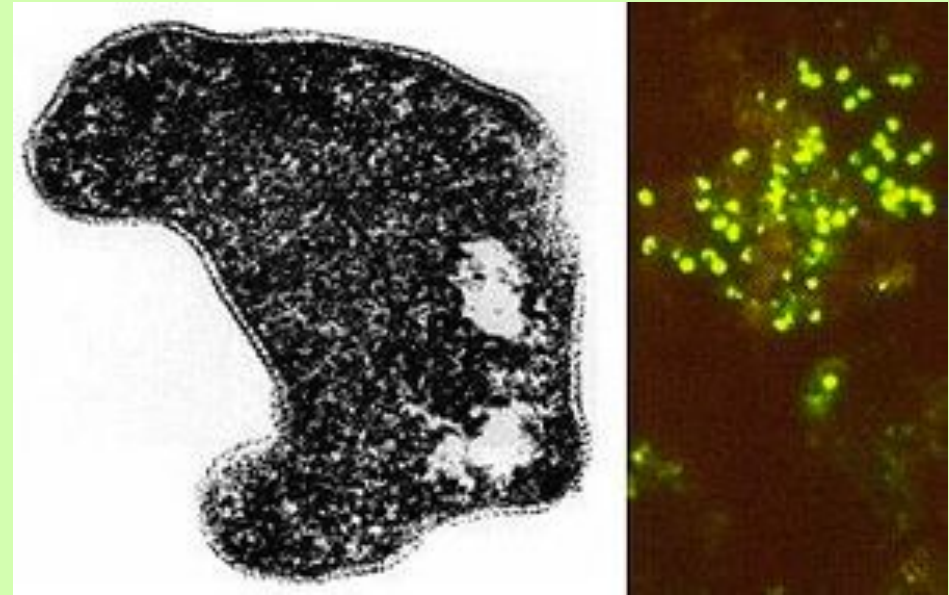
2. Pared de polisacáridos con proteínas.
3. Secuencias únicas en el ARNr

# DIVERSIDAD DE ARQUEOBACTERIAS

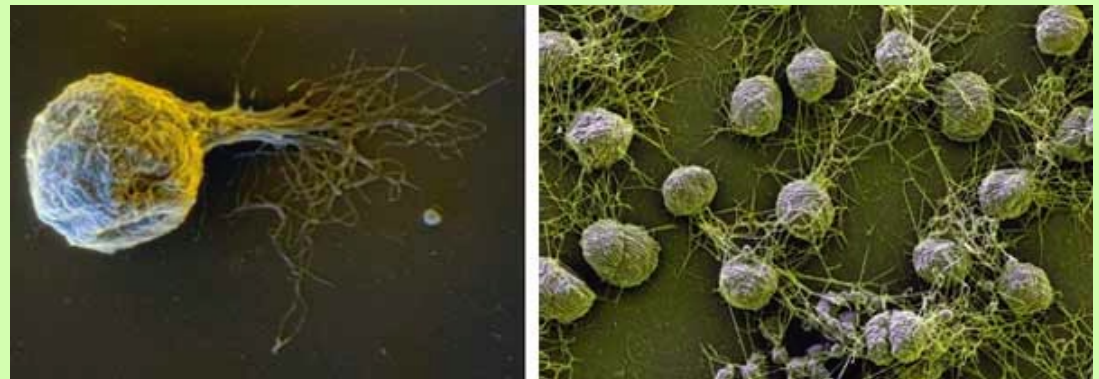
- Extremófilos
- Presentes también en suelos y océanos.



Halófilas *Halobacterium salinarium*

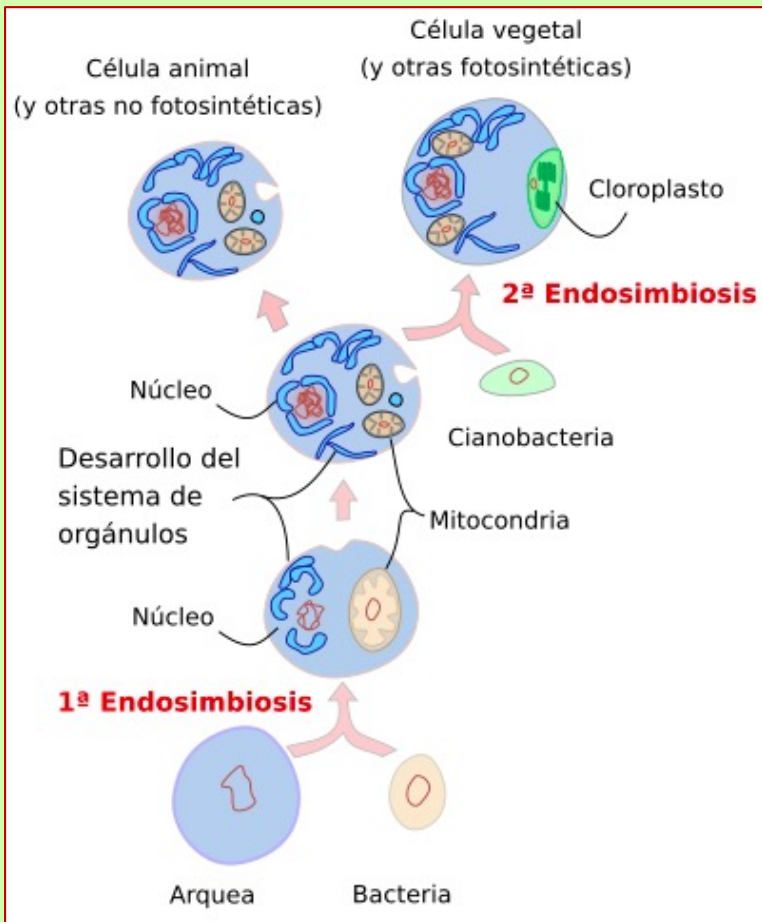


Termófilas: *Sulfolobus acidocaldarius*

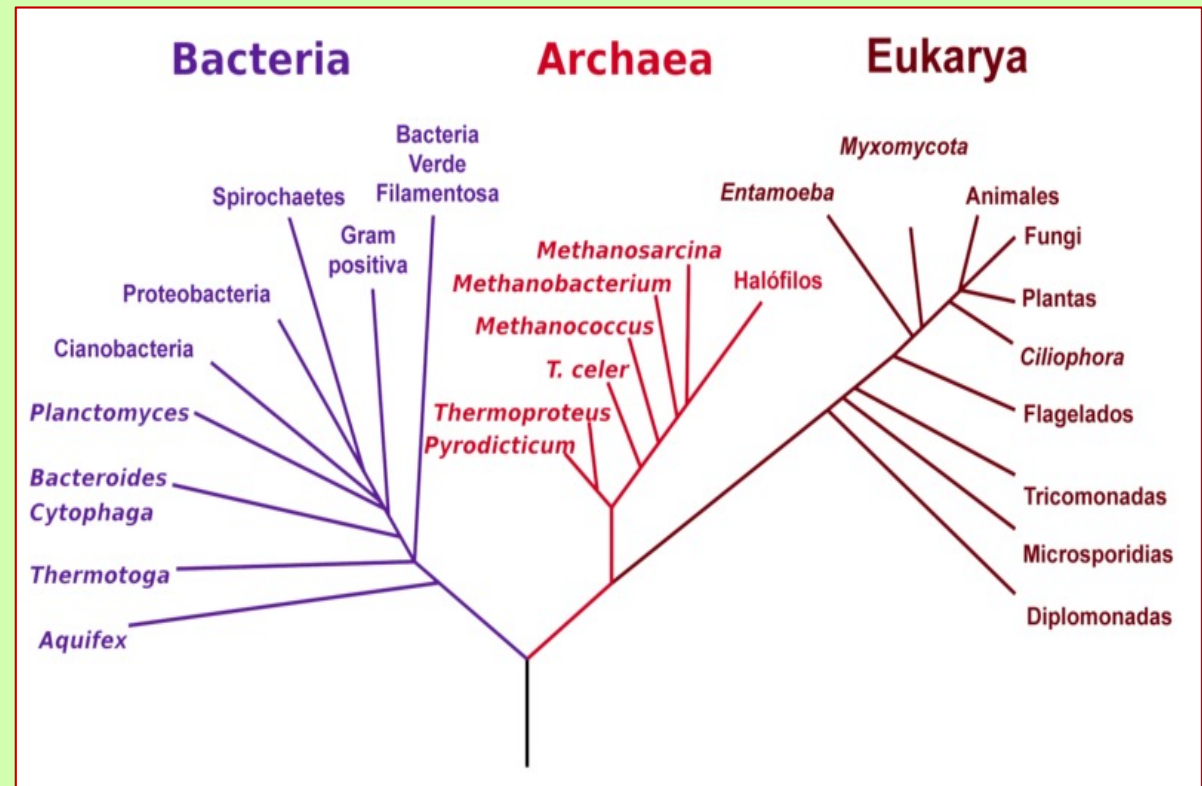


Metanógenas: *Methanocaldococcus villosus*

# ARQUEOBACTERIAS Y EUCARIOTAS



Teoría endosimbiótica



Filogenia basada en el ARNr