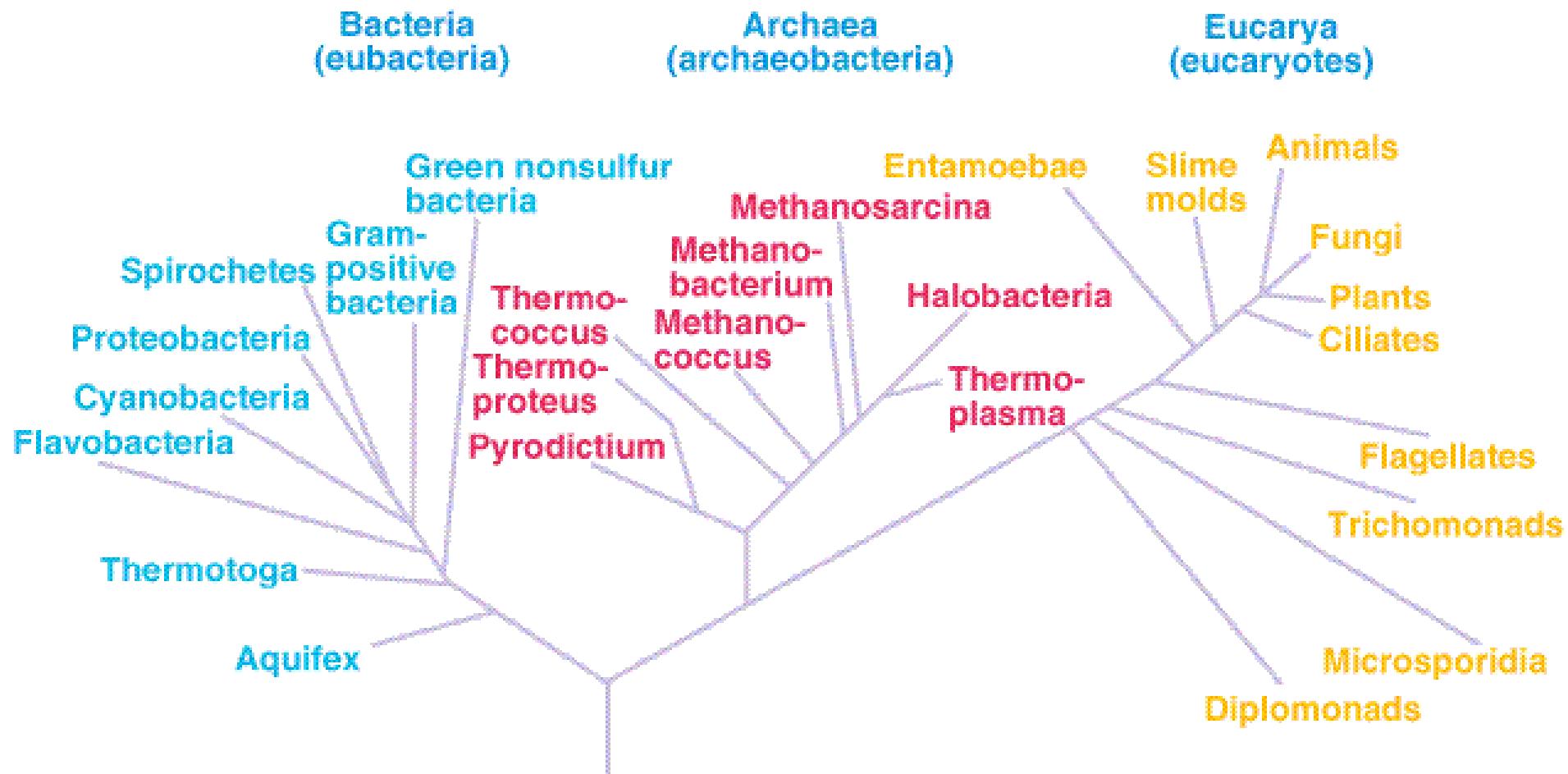
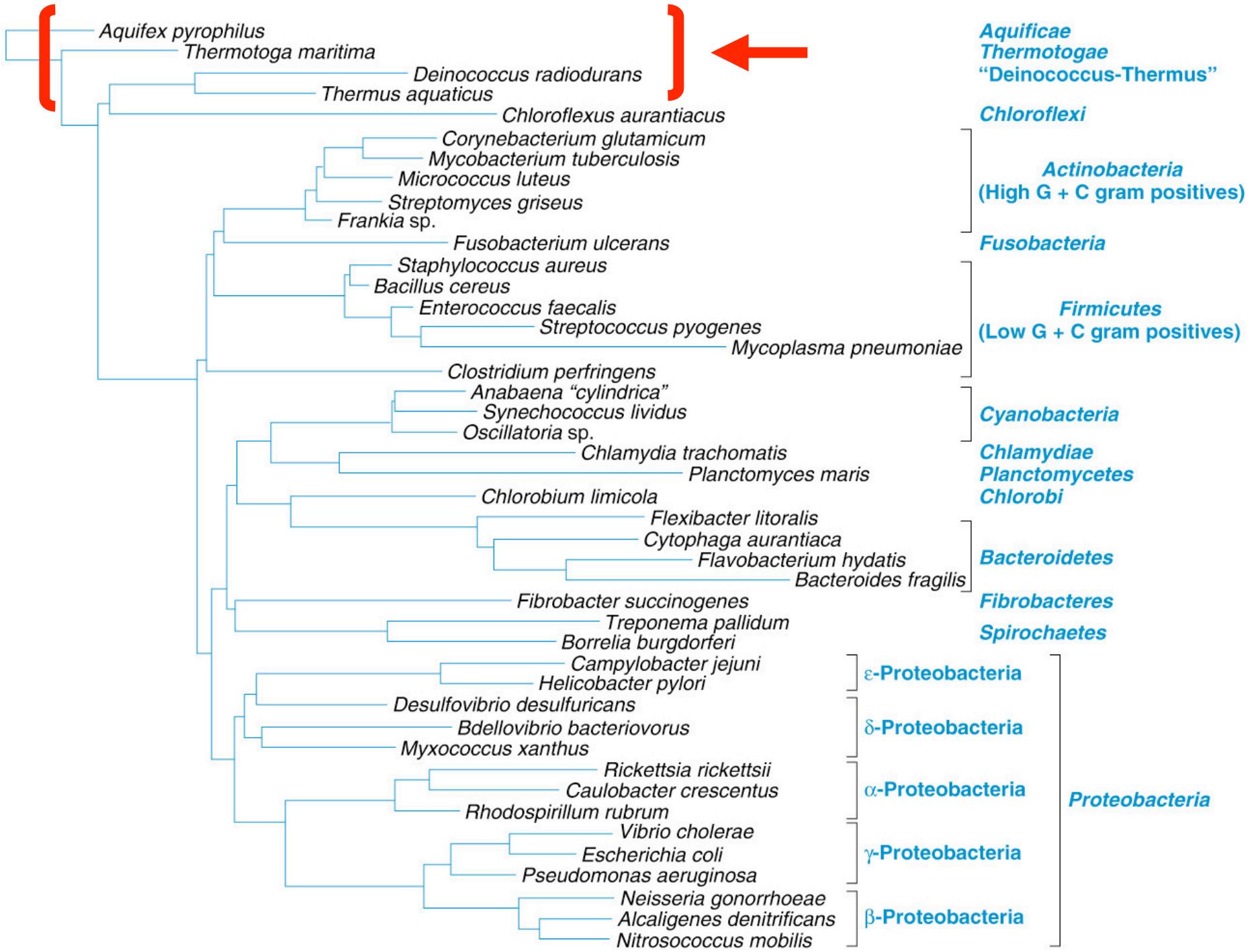


# Prokaryotic Diversity

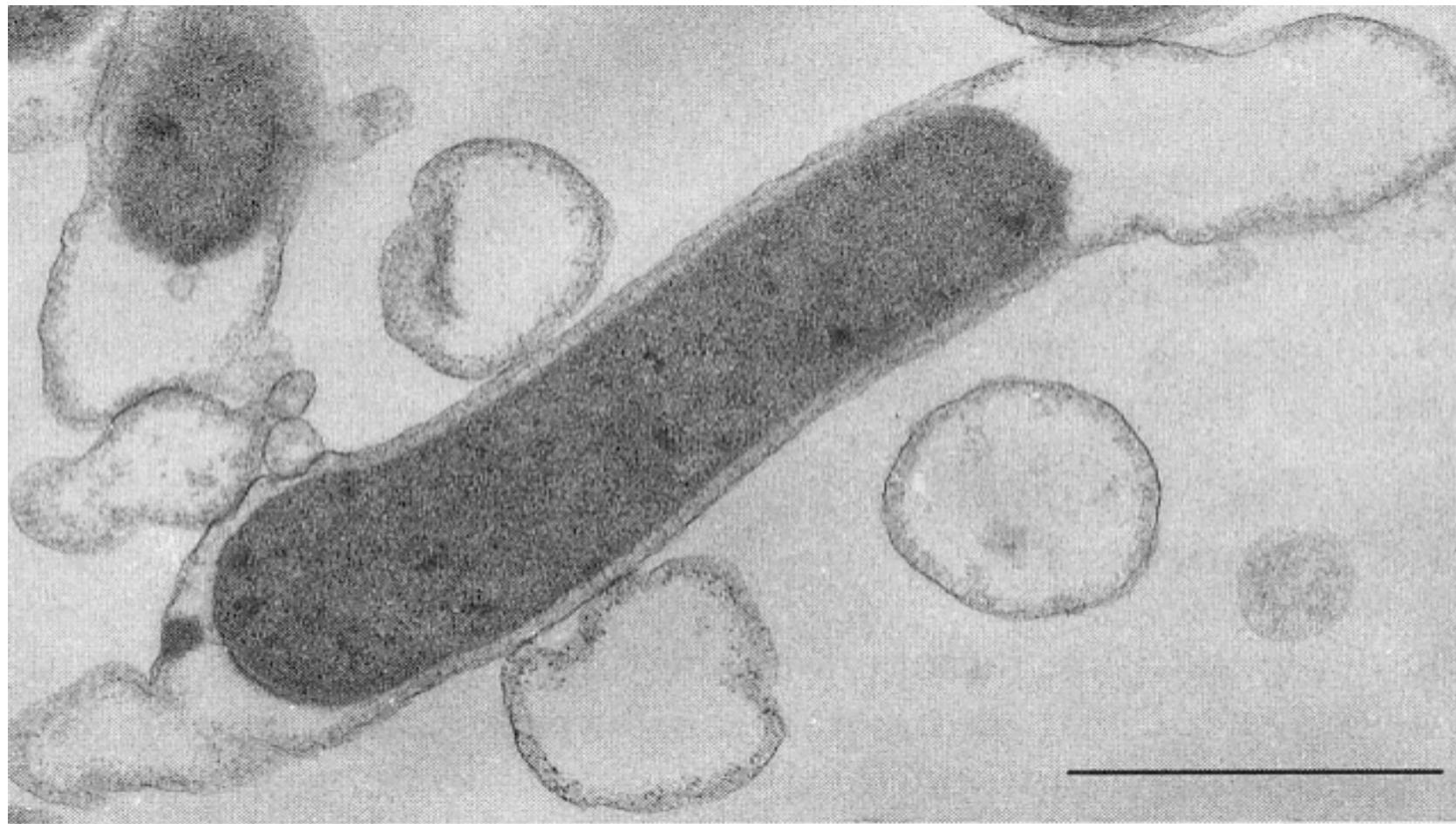
- Environment
- Morphological
- Developmental cycles
- Metabolic
- Role

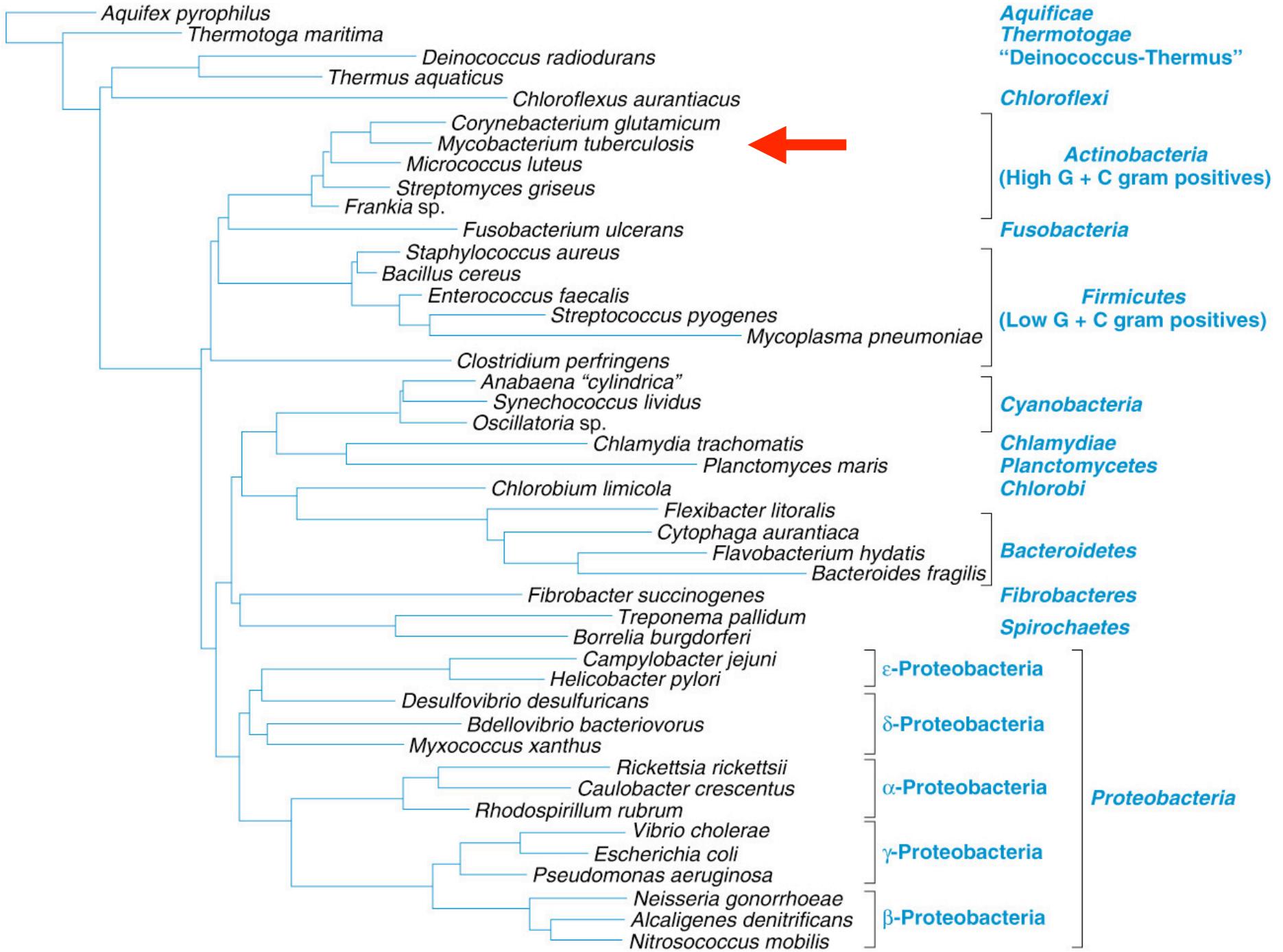
# Universal Phylogenetic Tree





# *Thermatoga maritima*





# *Mycobacterium tuberculosis*

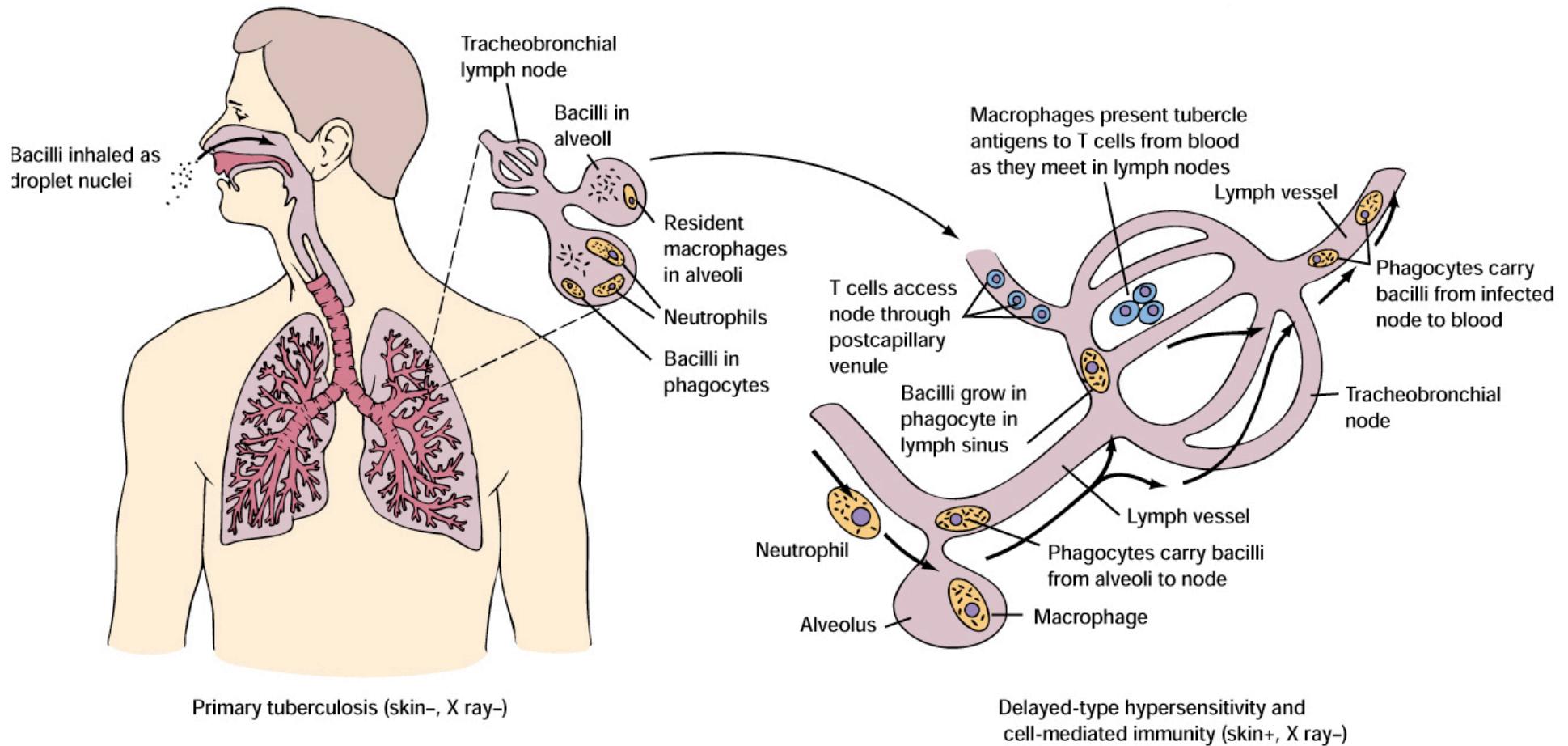
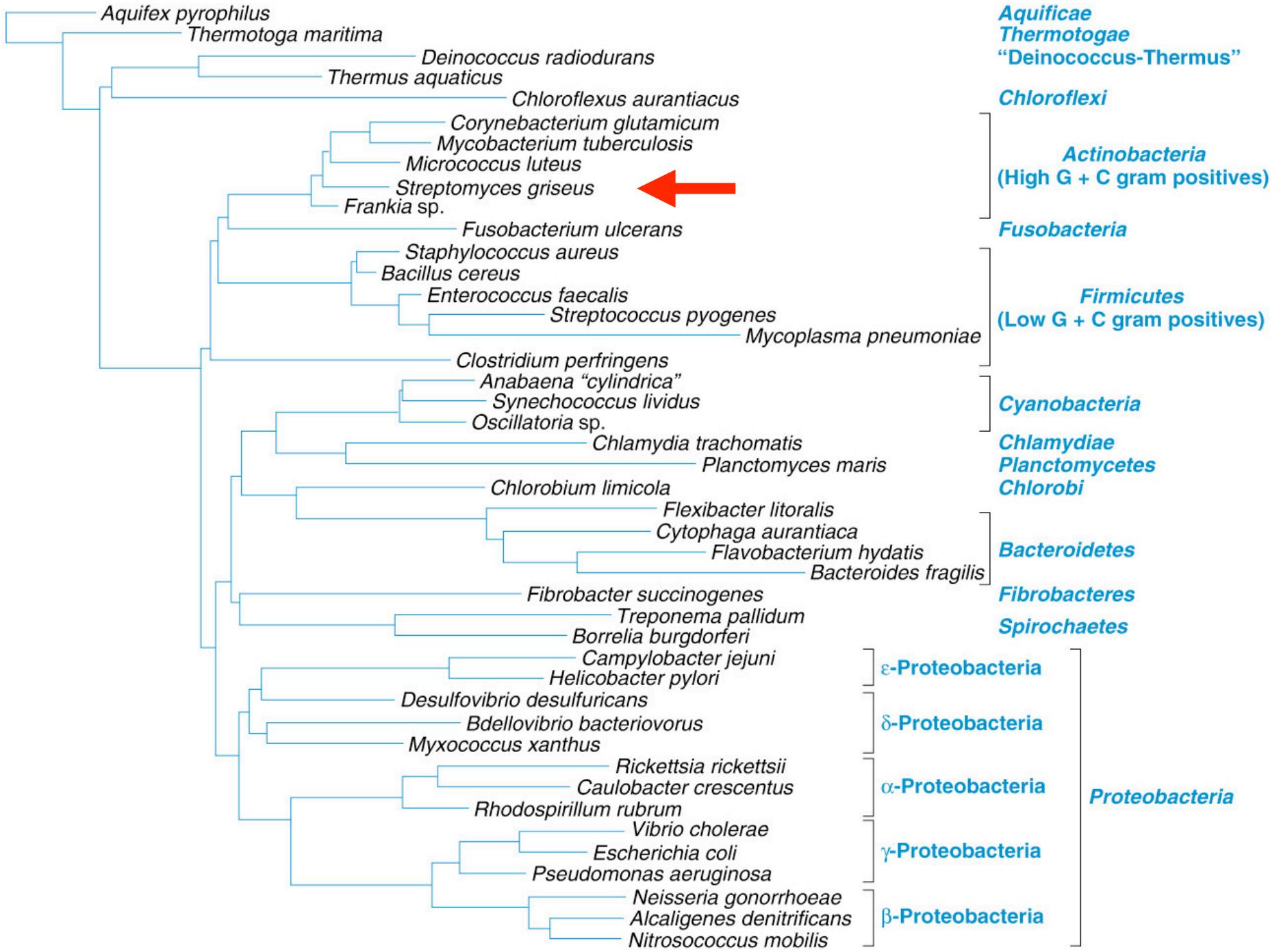
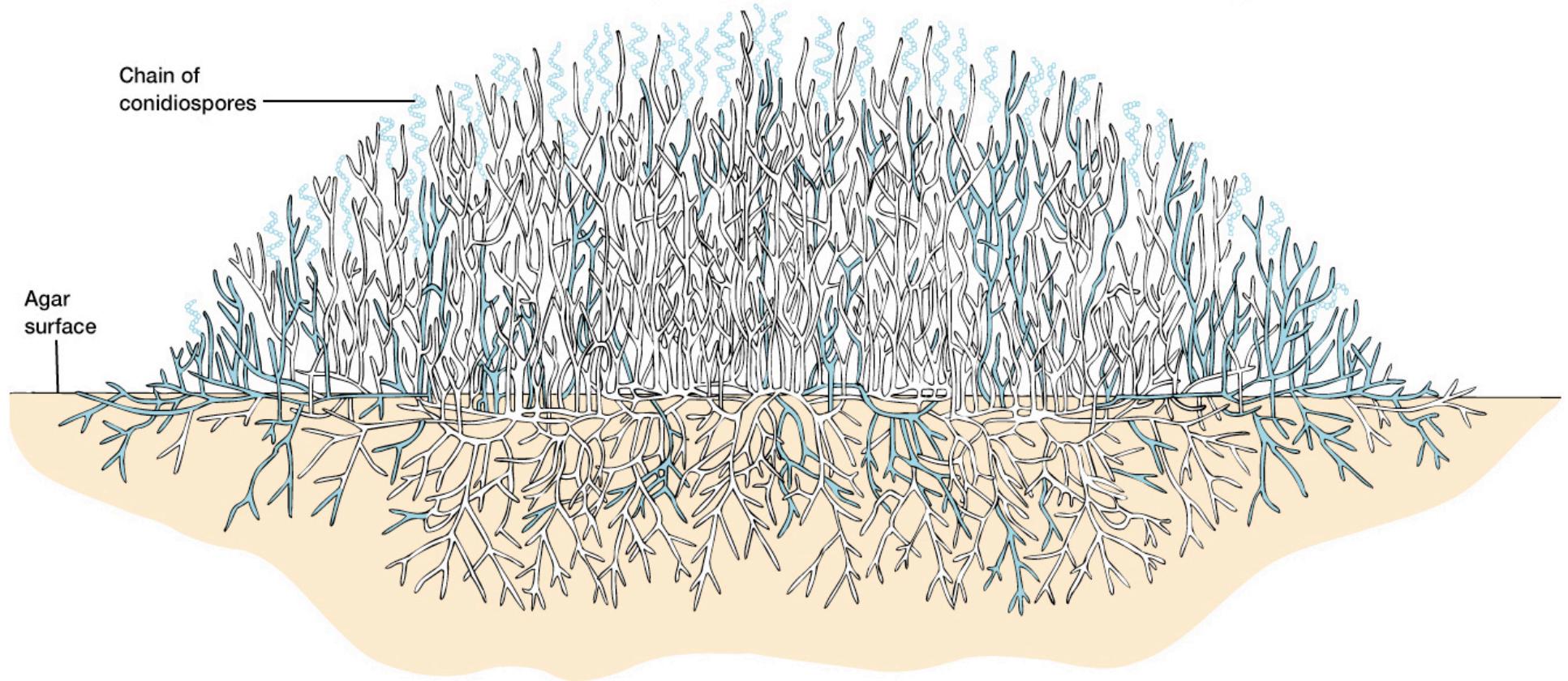


Fig. 39.7



# Actinomycete colony



# Streptomyces

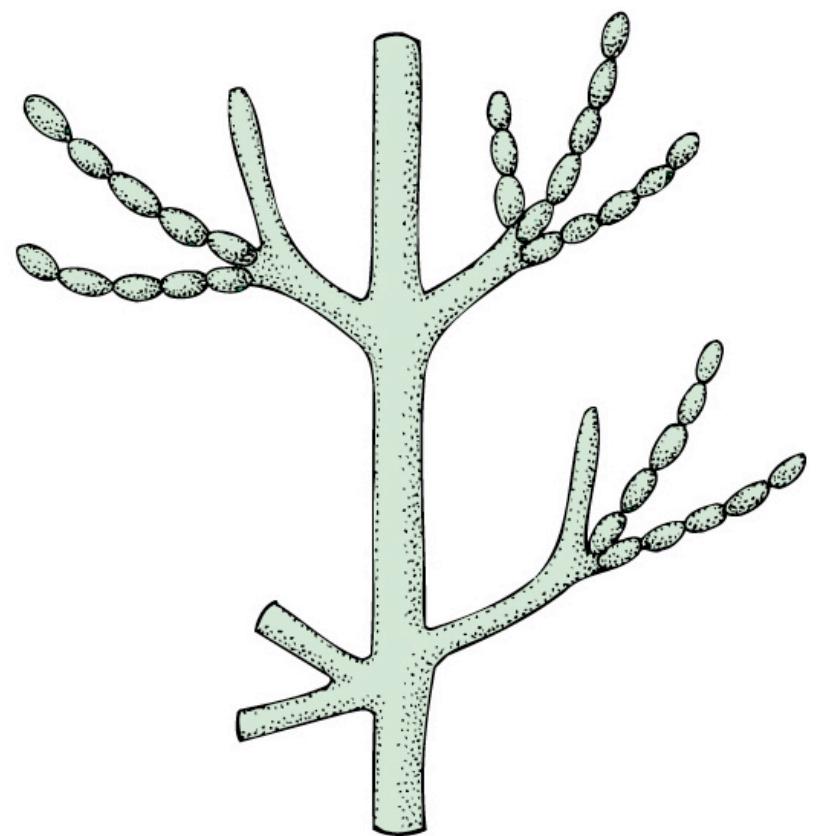
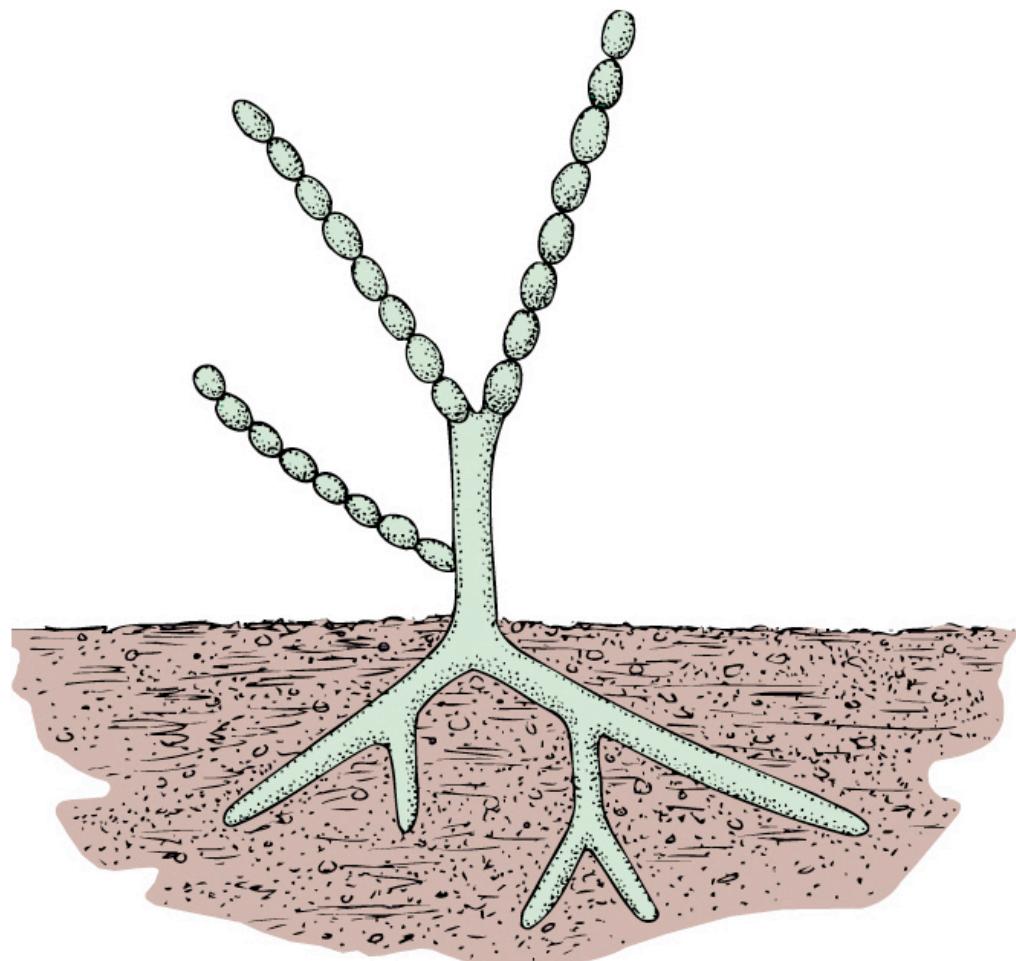
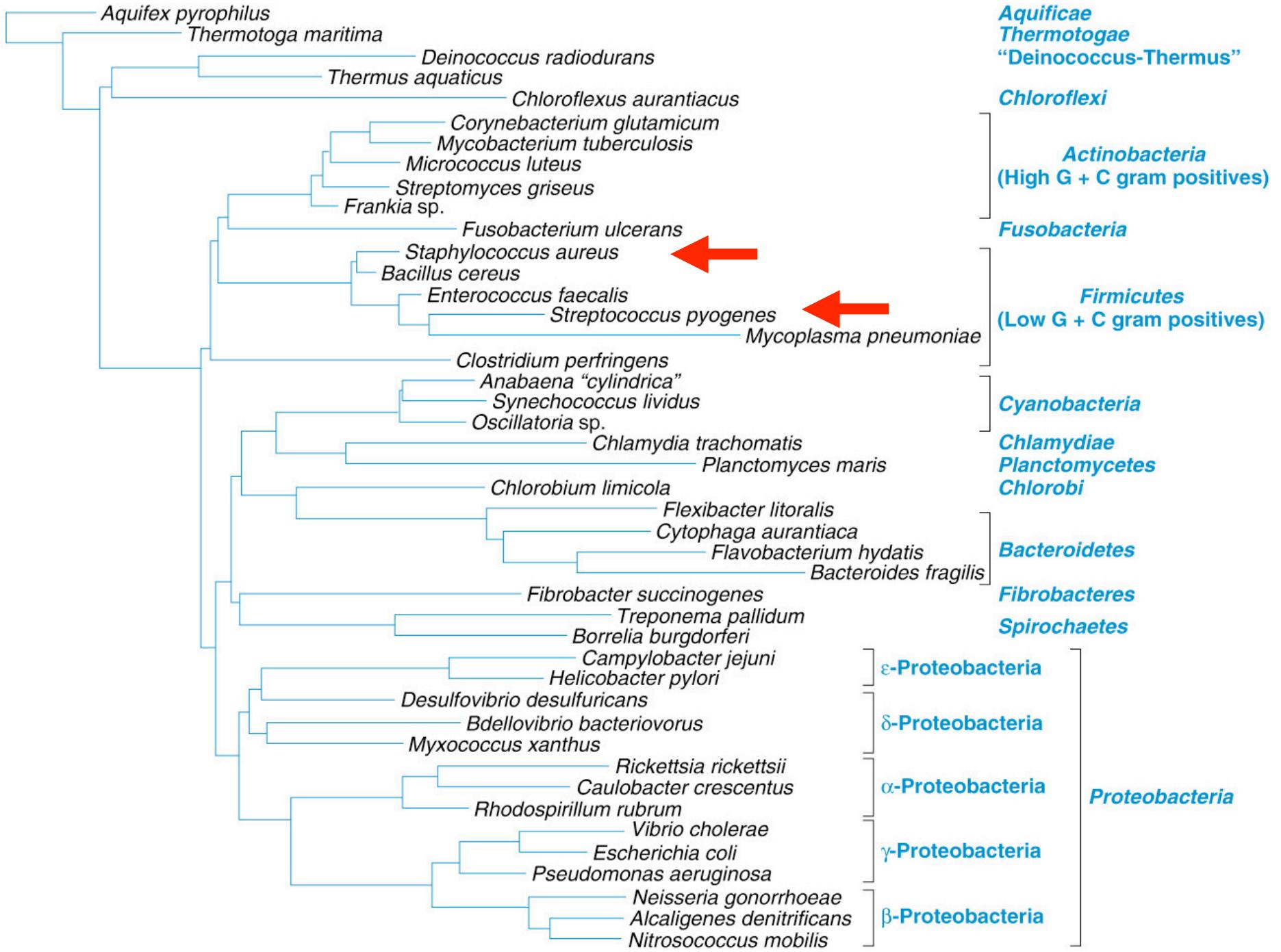
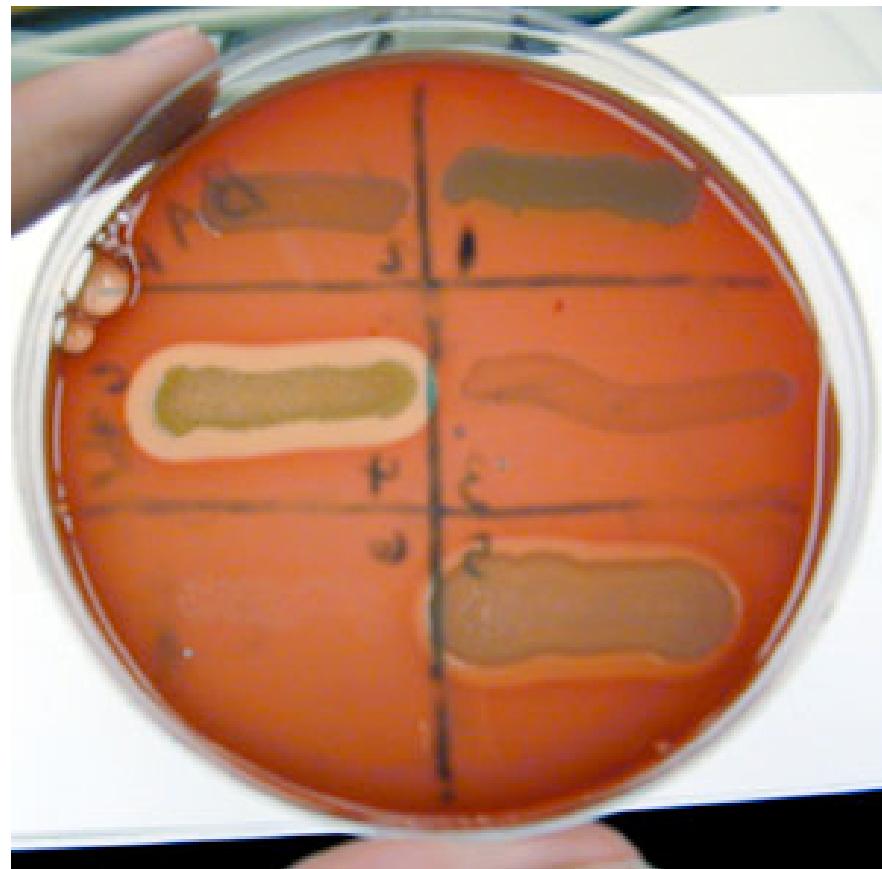


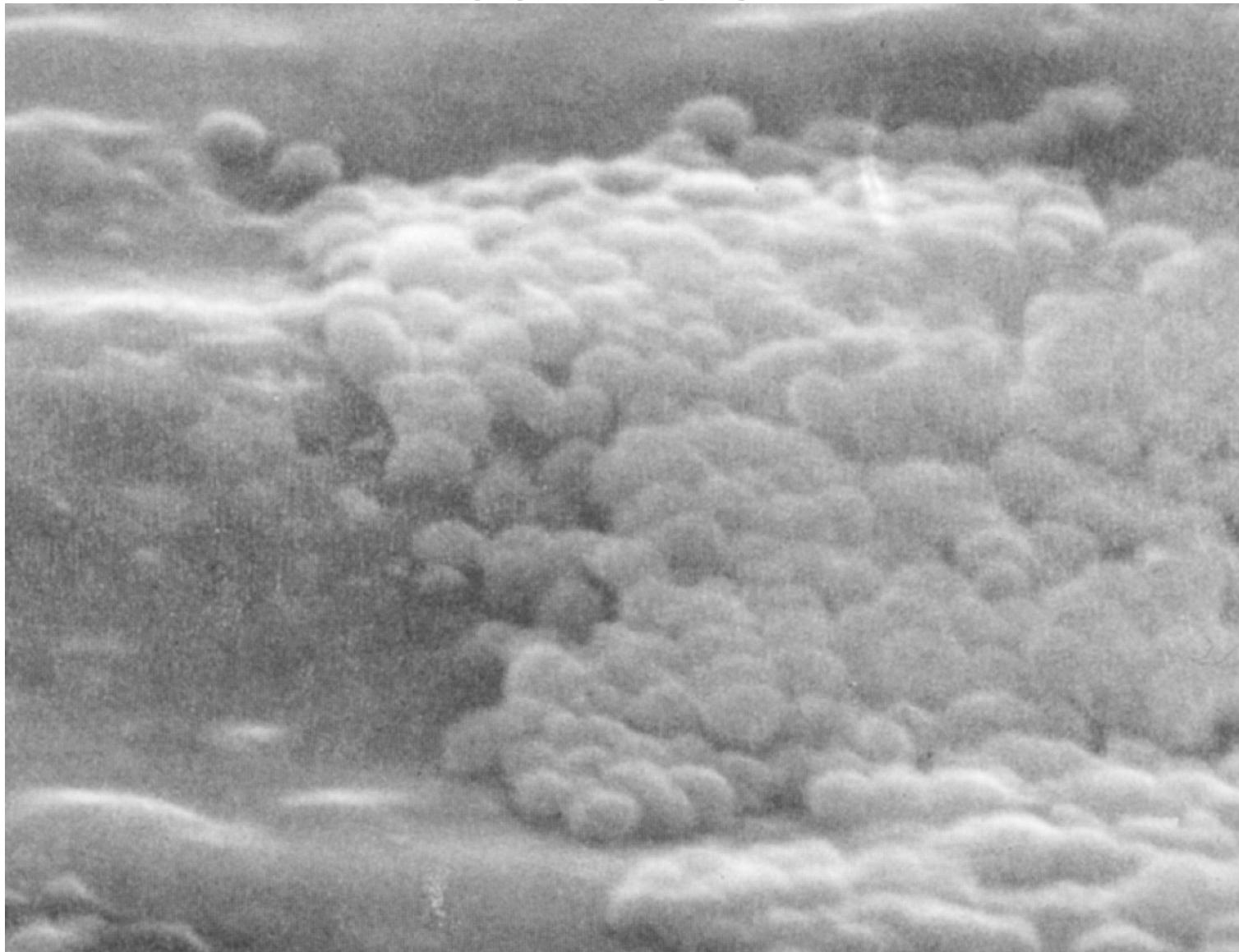
Fig.24.13



# Hemolysis



# *Staphylococcus* biofilm on catheter



# Dental plaque

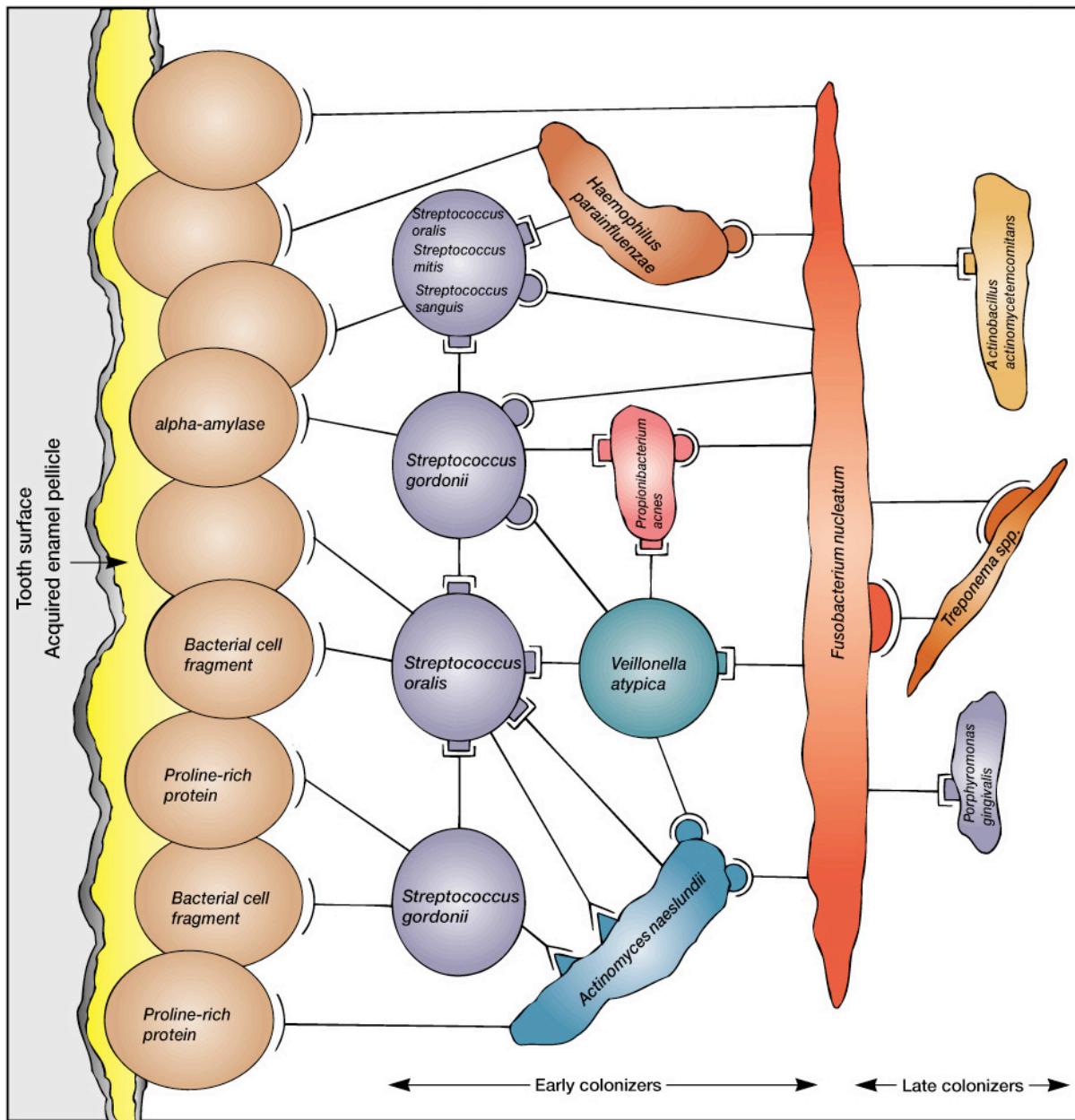
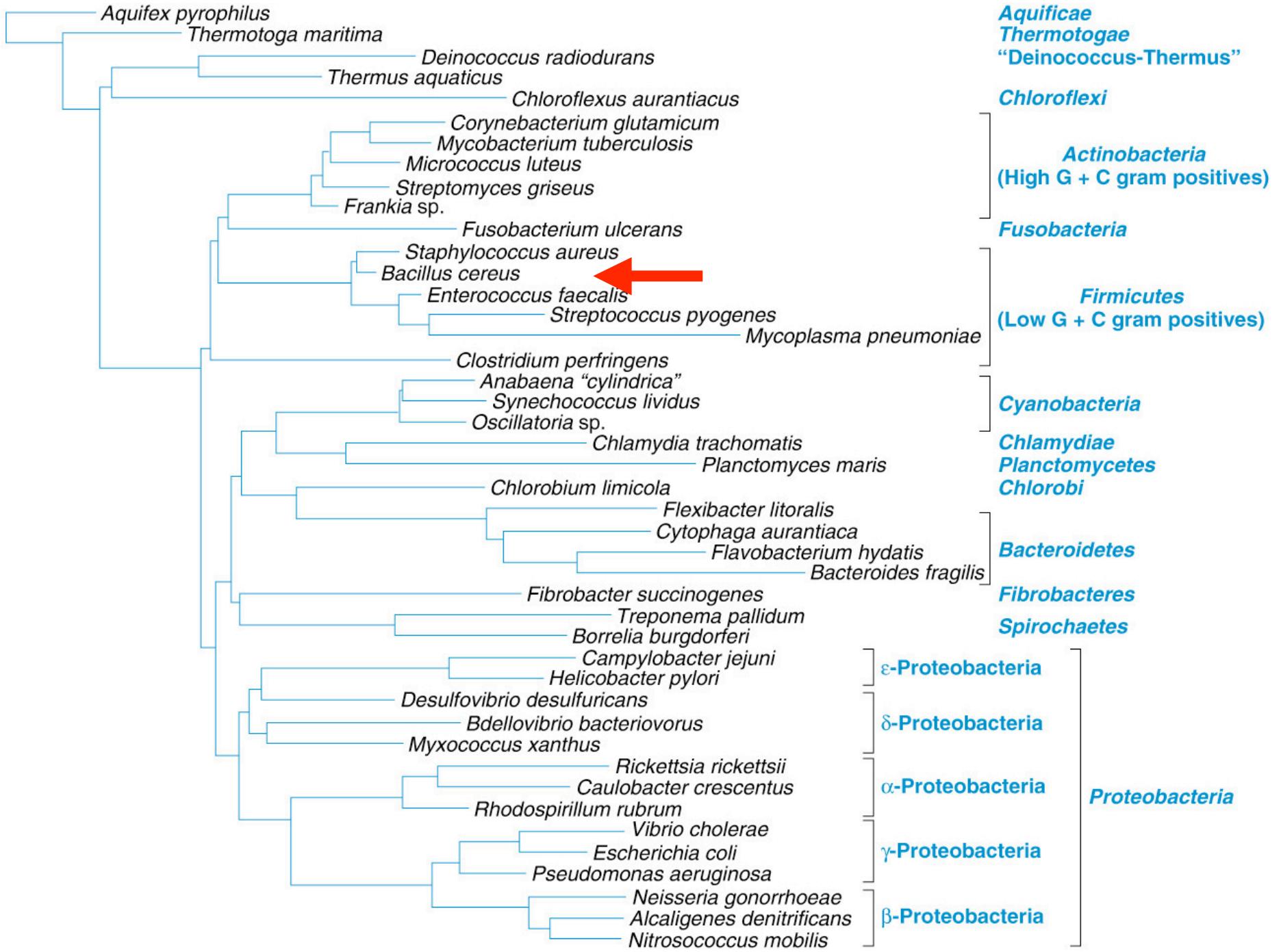
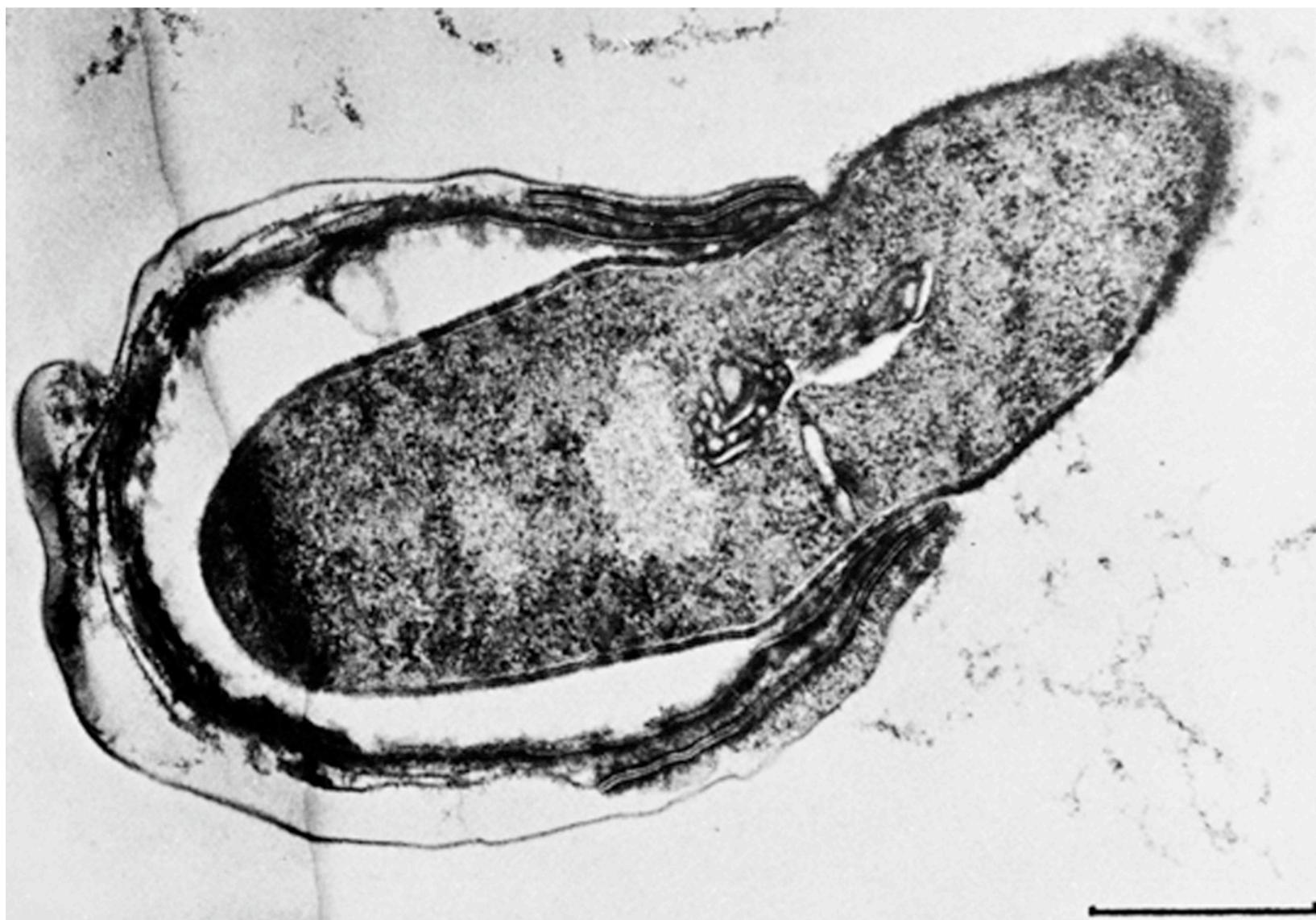
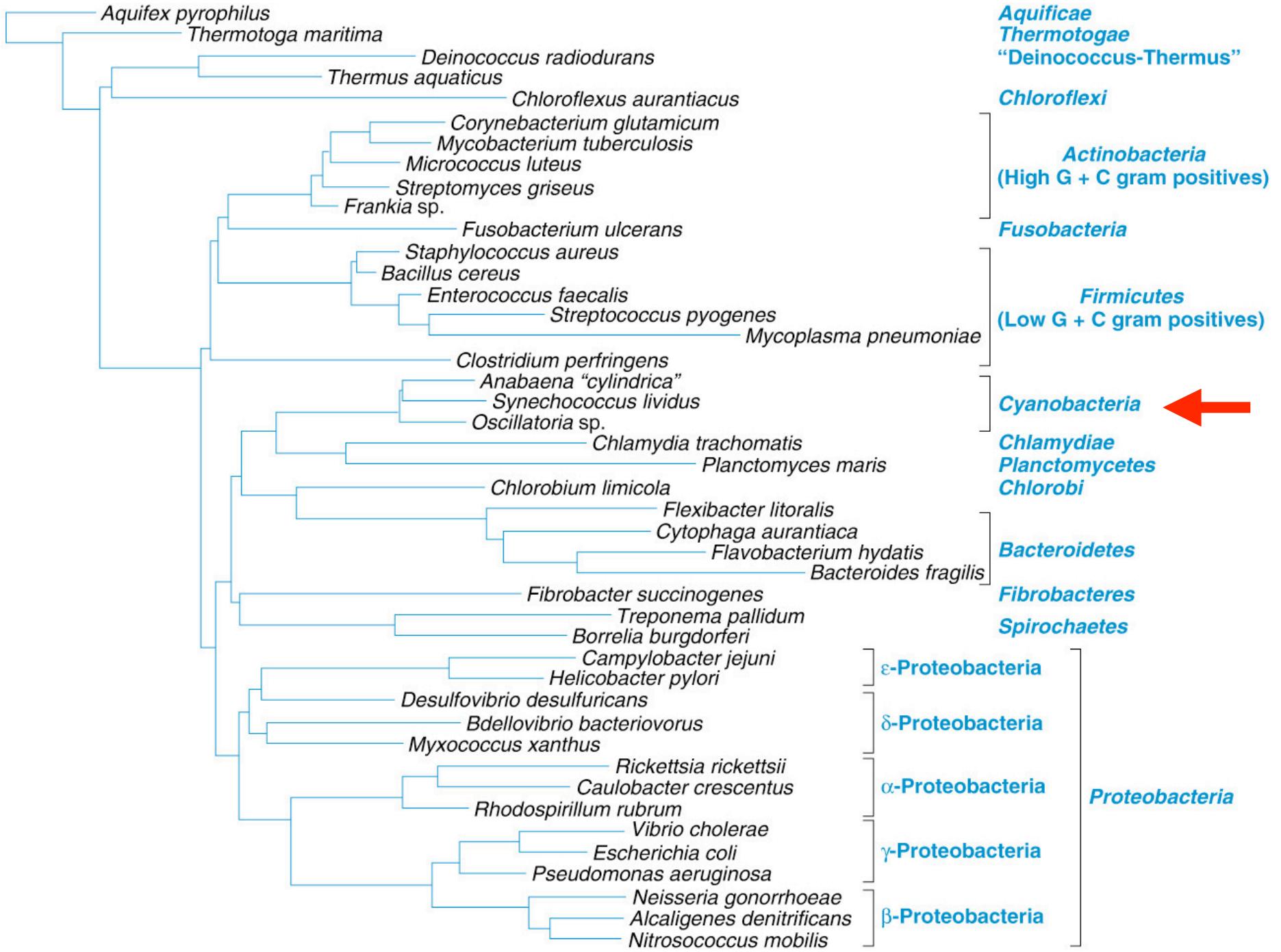


Fig. 39.25

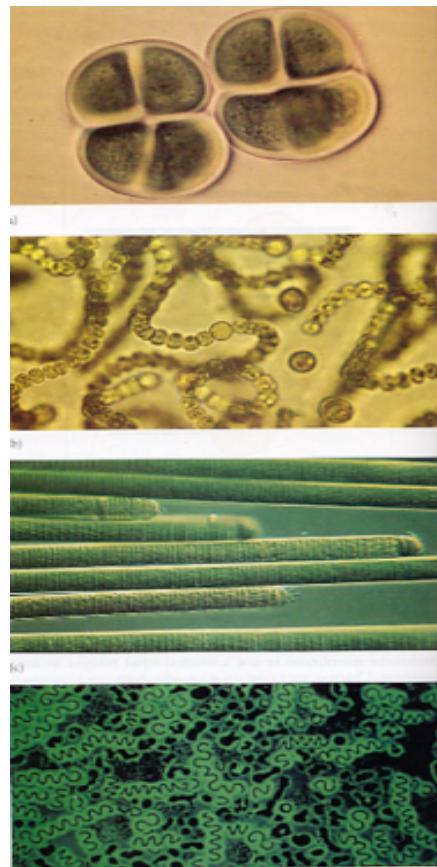


# Gram+ spore formers





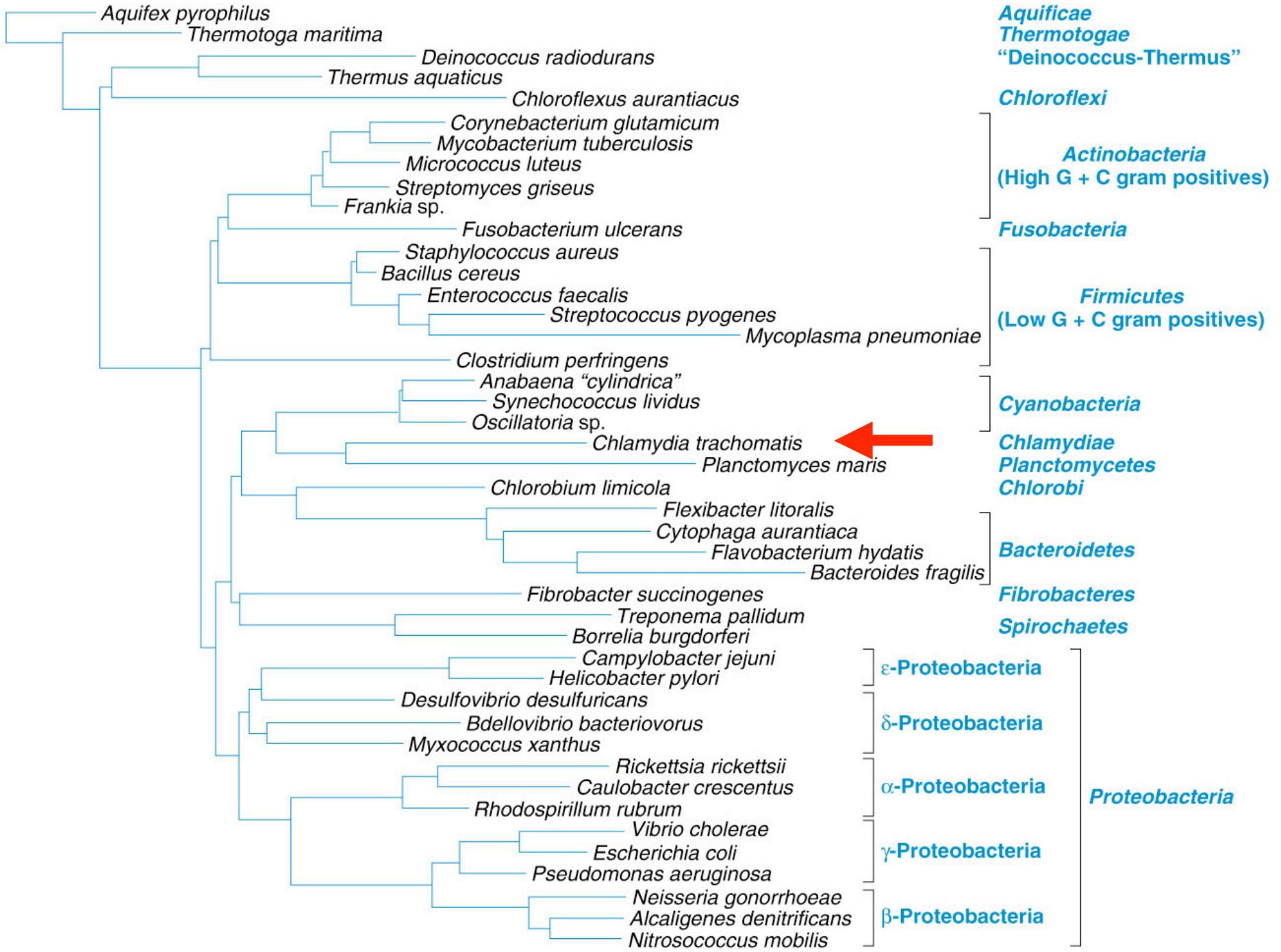
# Cyanobacteria



- Chroococcus
- Nostoc
- Oscillatoria
- Anabaena

Fig. 21.7





# *Chlamydia* life cycle

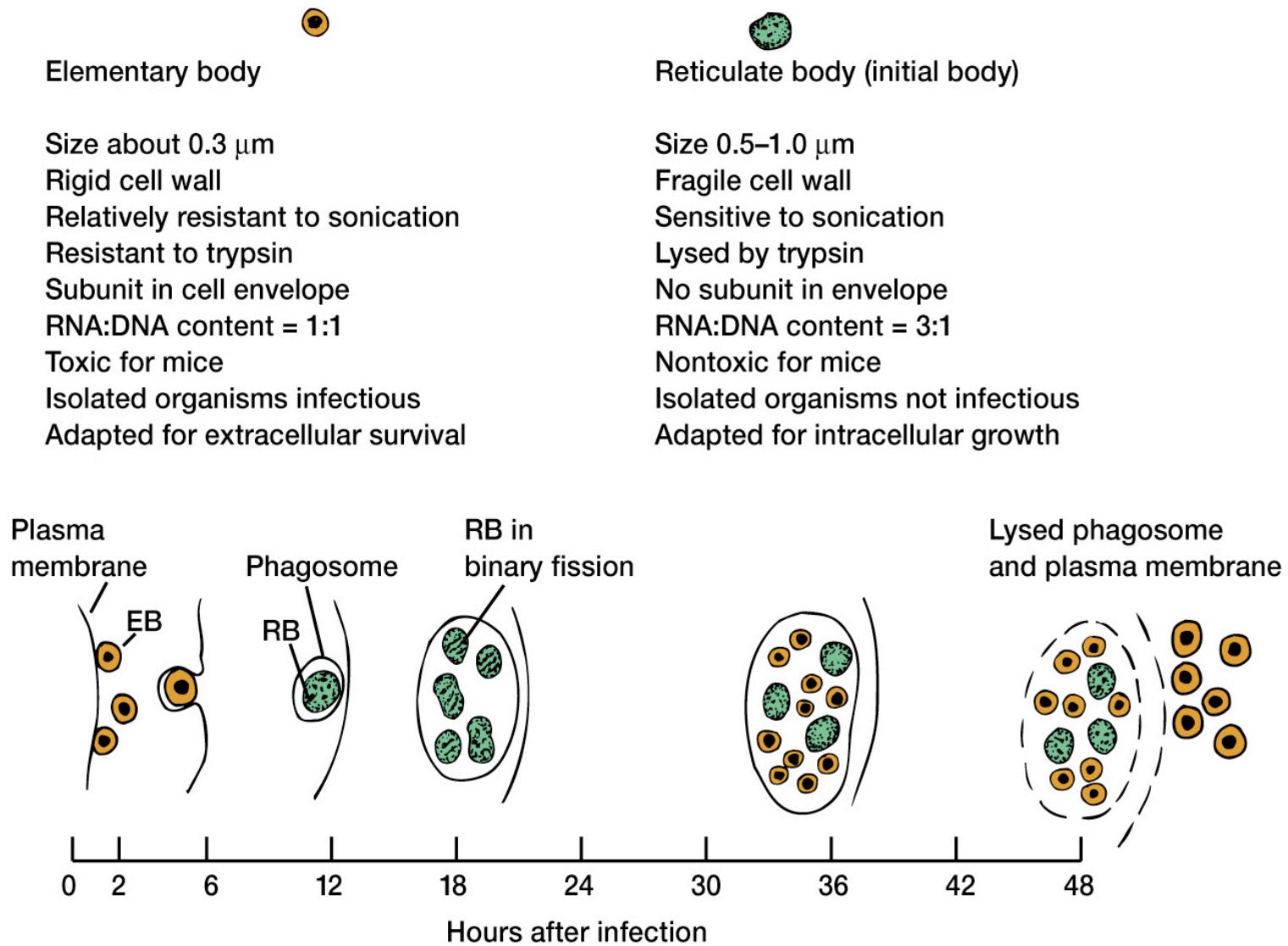
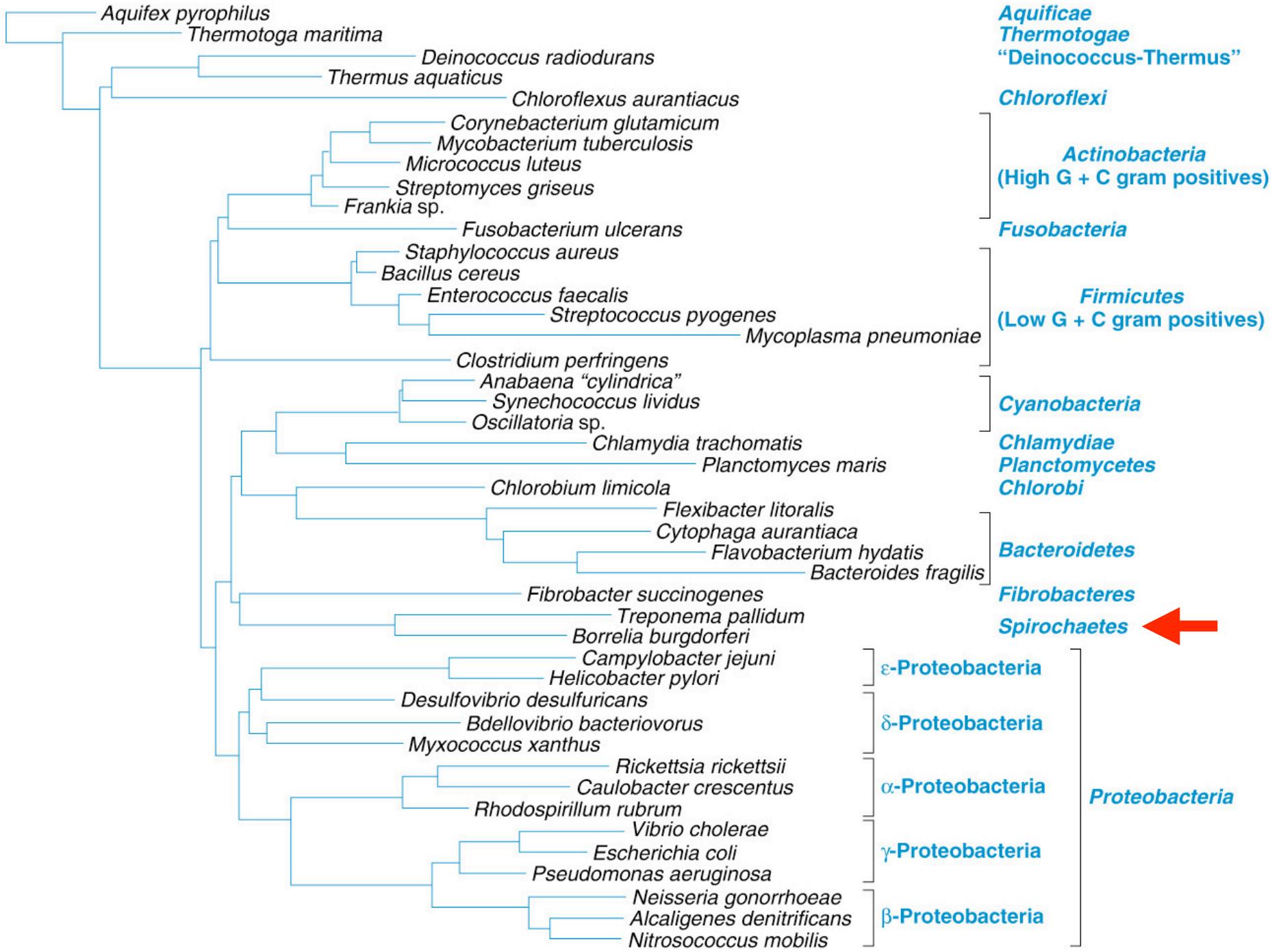
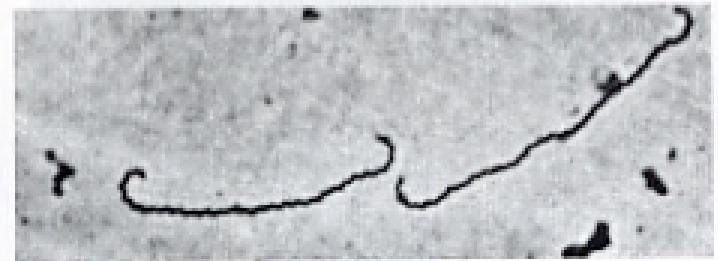
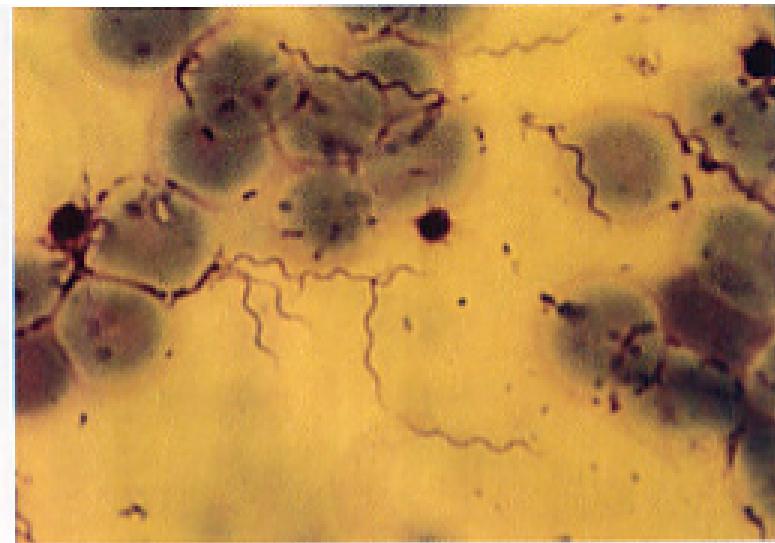
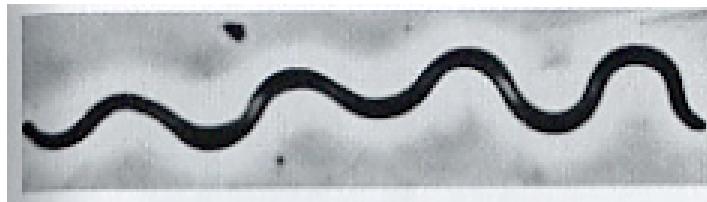
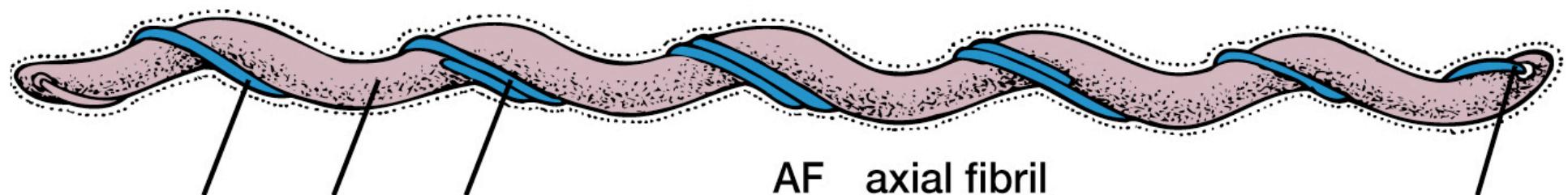


Fig. 21.14

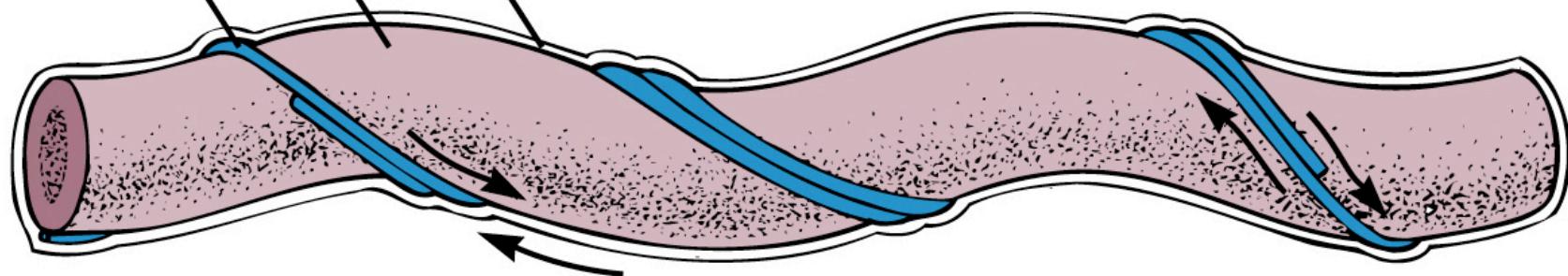


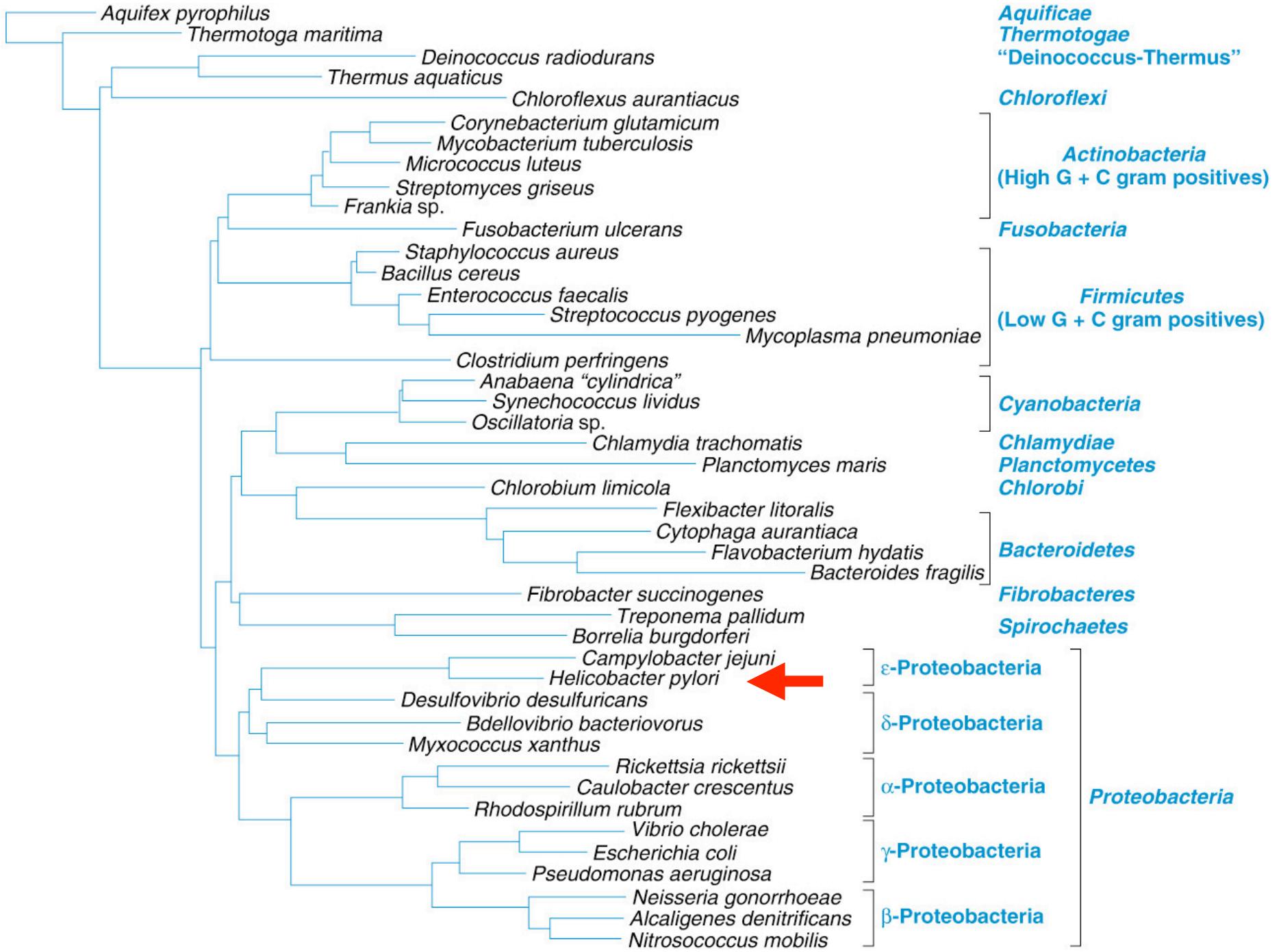
# Spirochetes





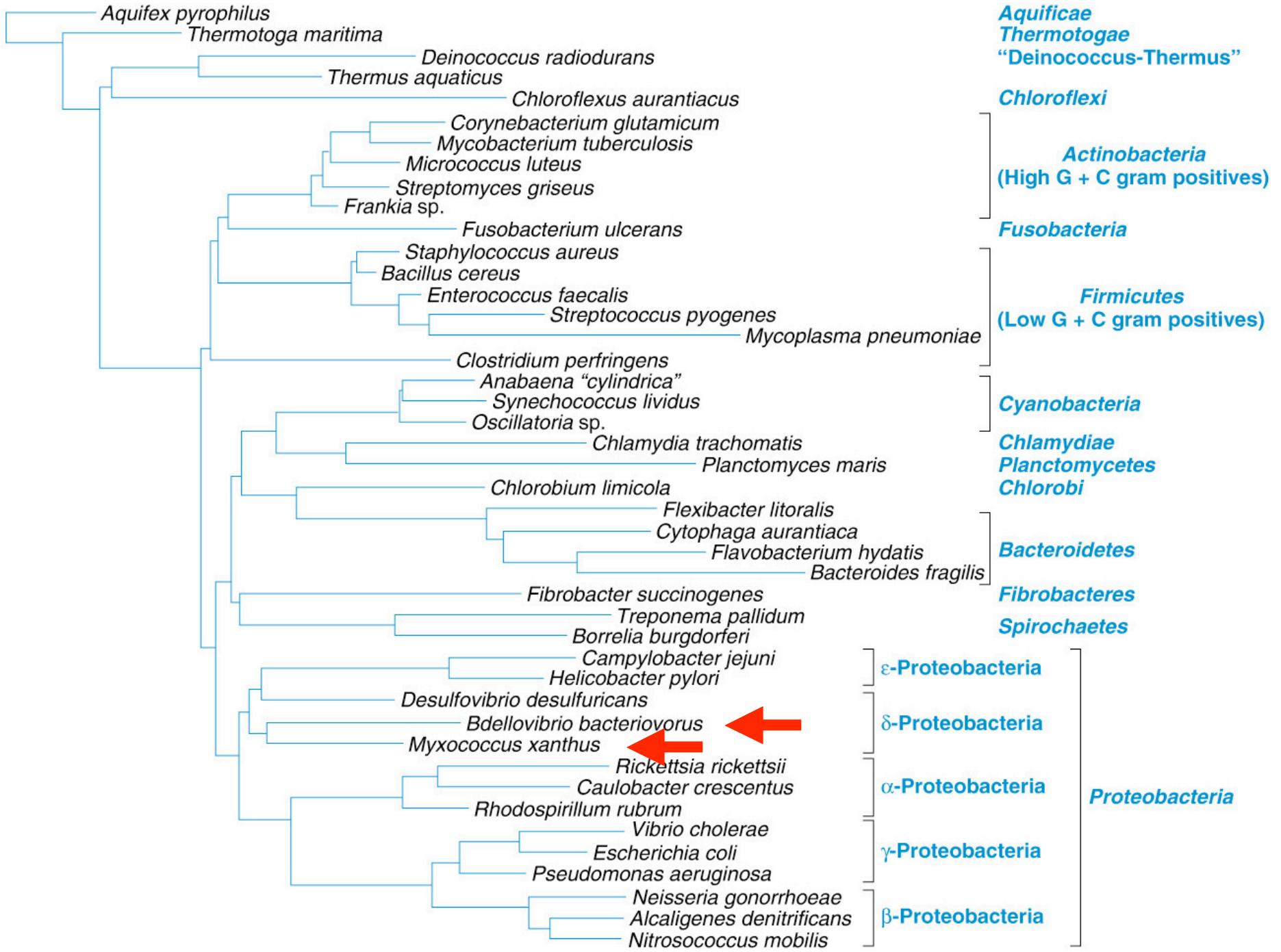
AF axial fibril  
PC protoplasmic cylinder  
OS outer sheath  
IP insertion pore

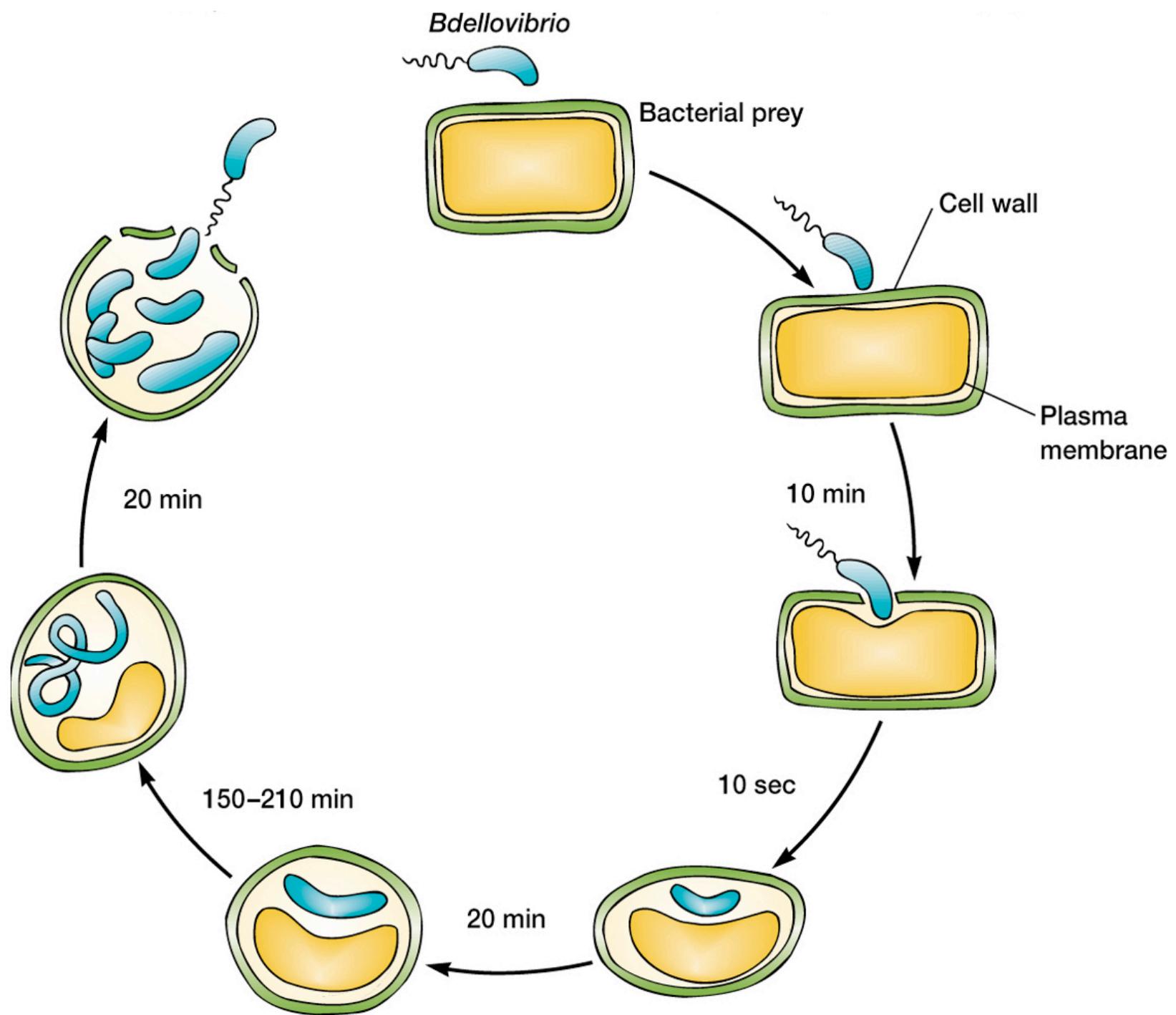


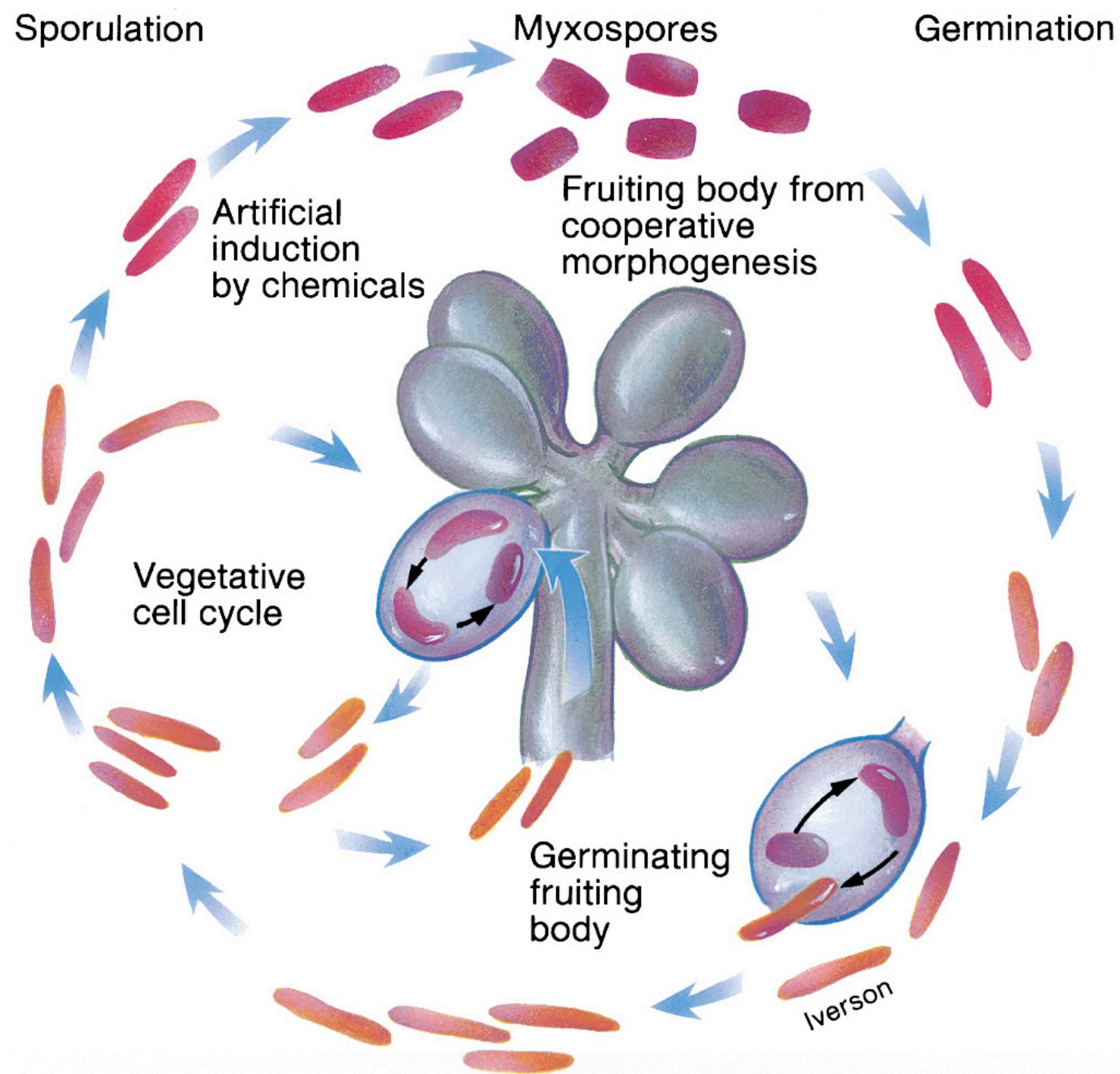


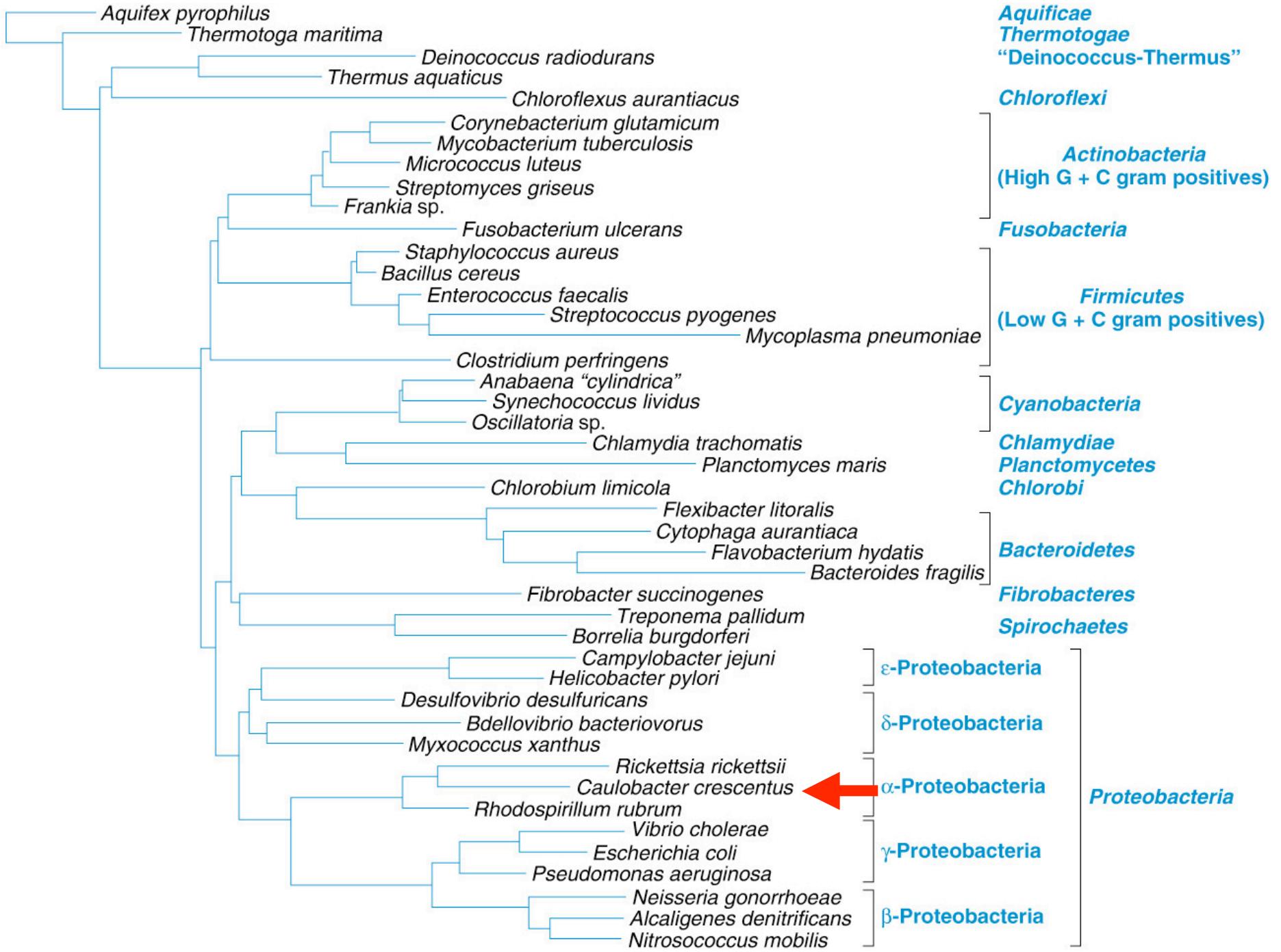
# *Helicobacter pylori* adhering to gastric cells











# *Caulobacter* life cycle

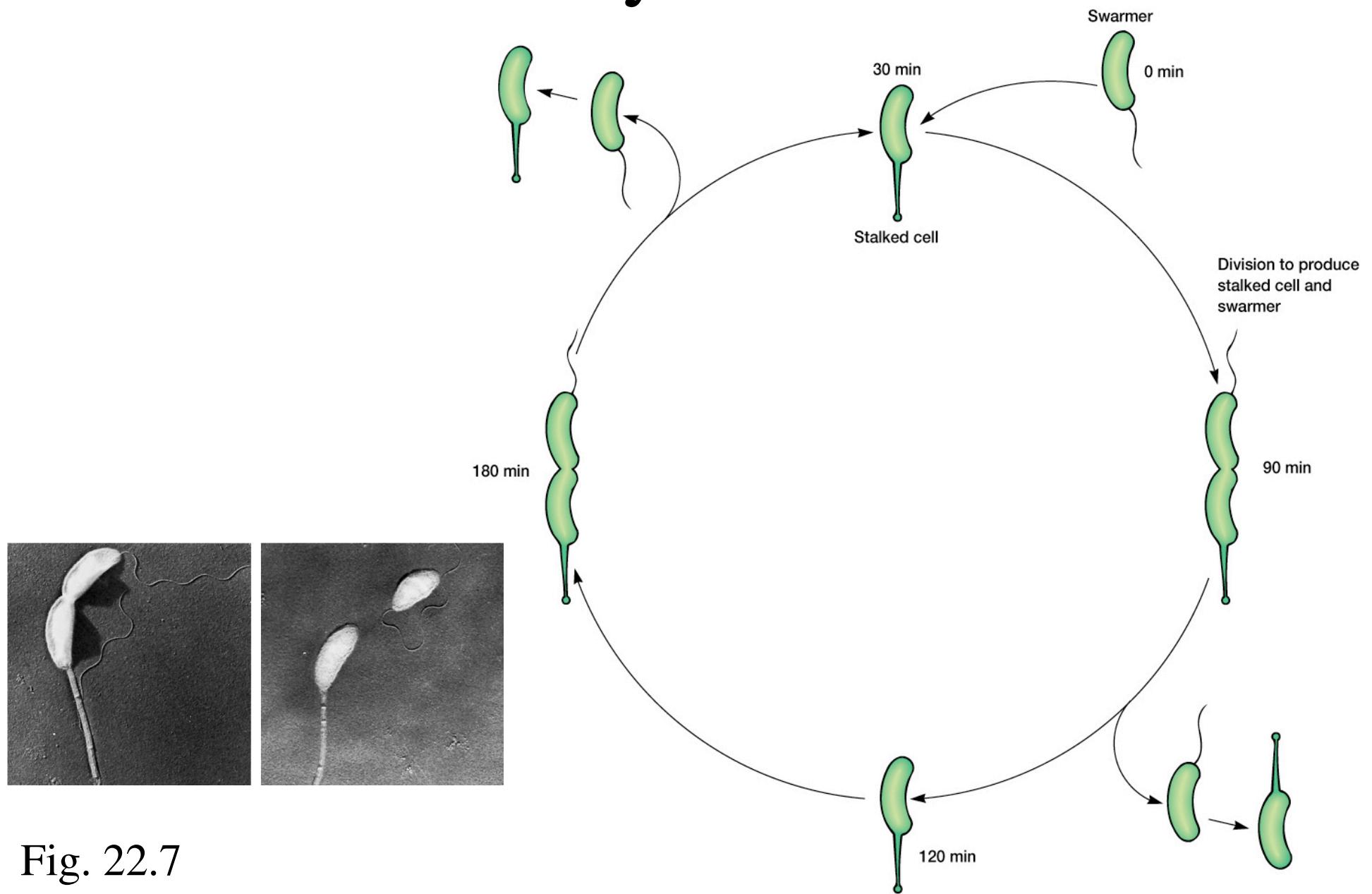
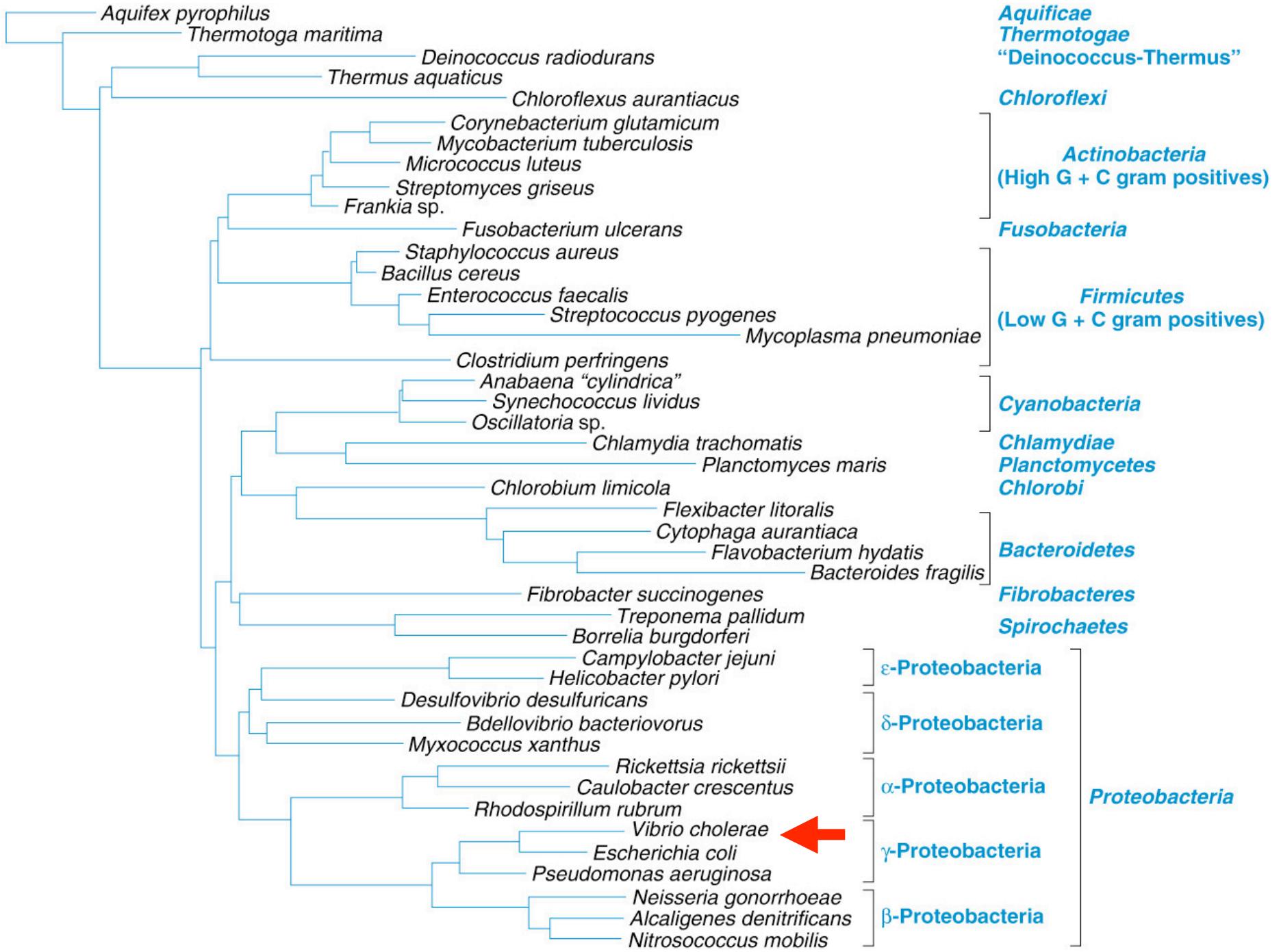
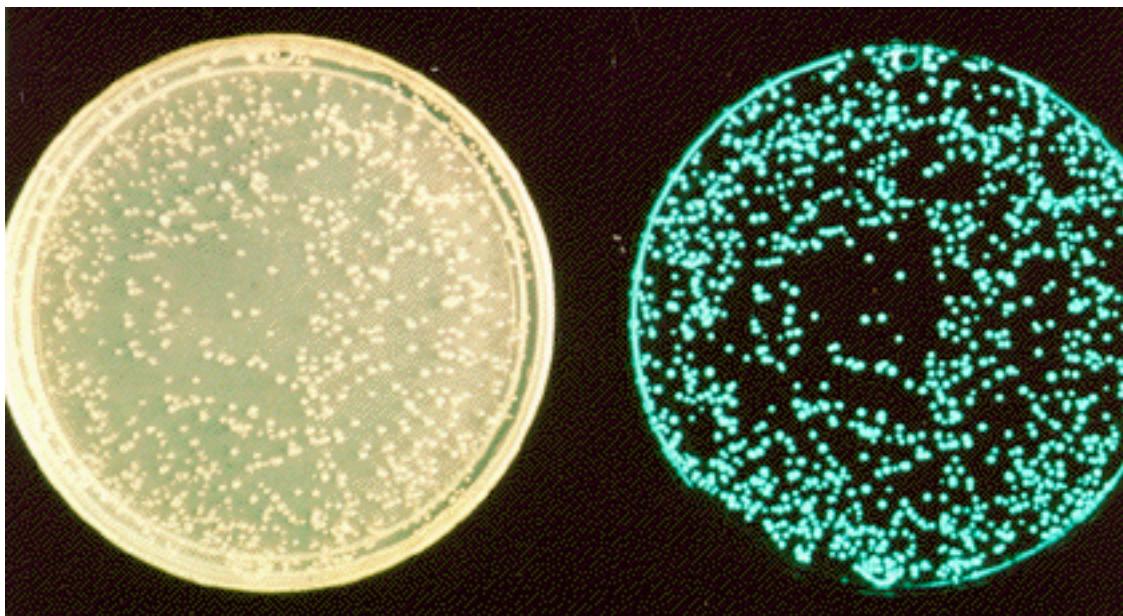
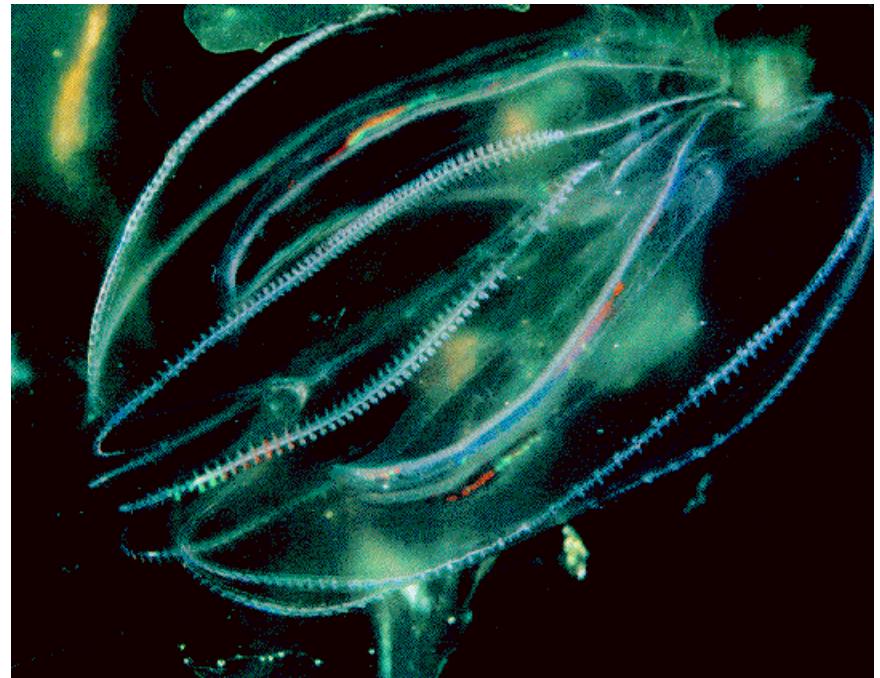
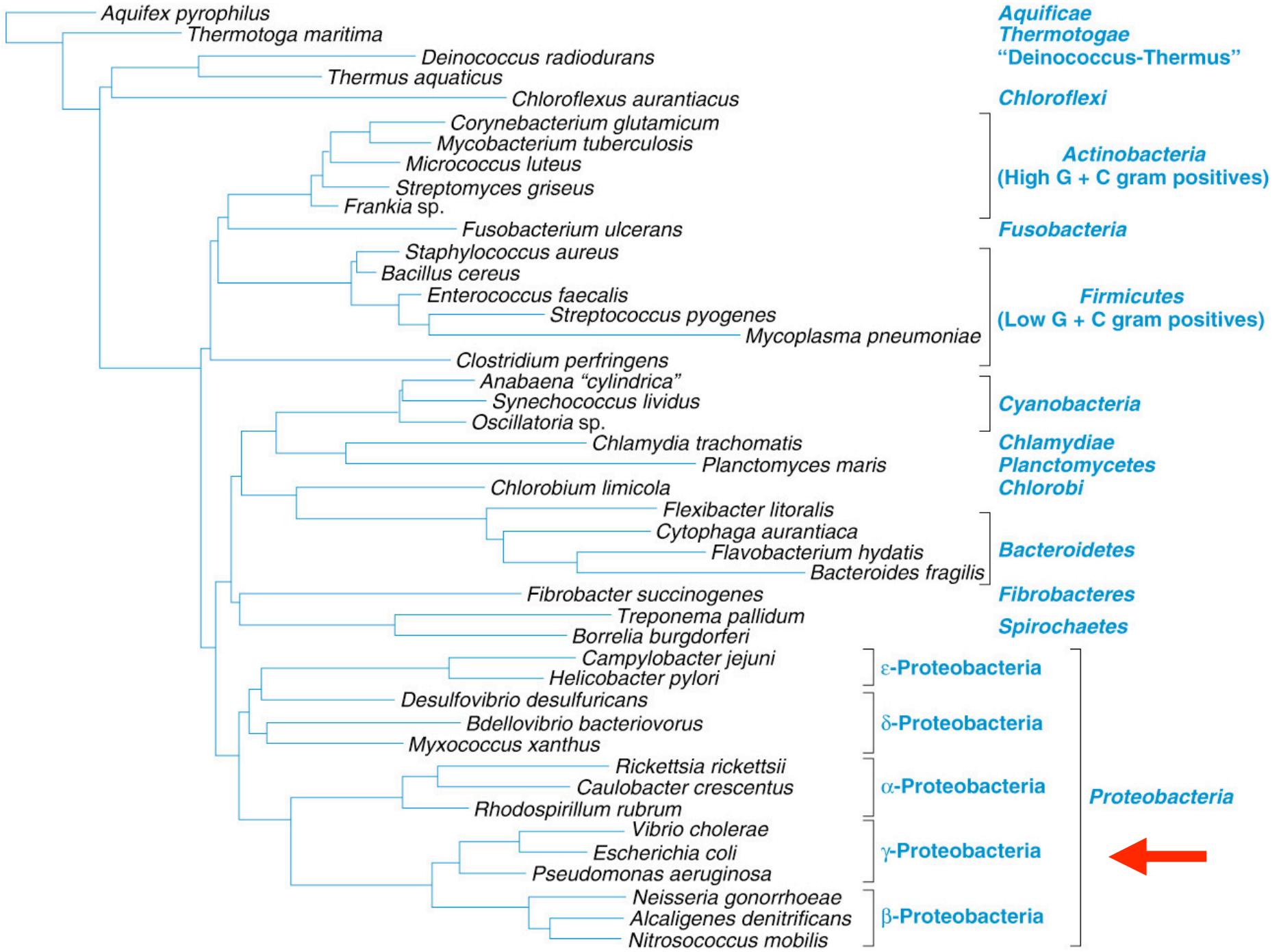


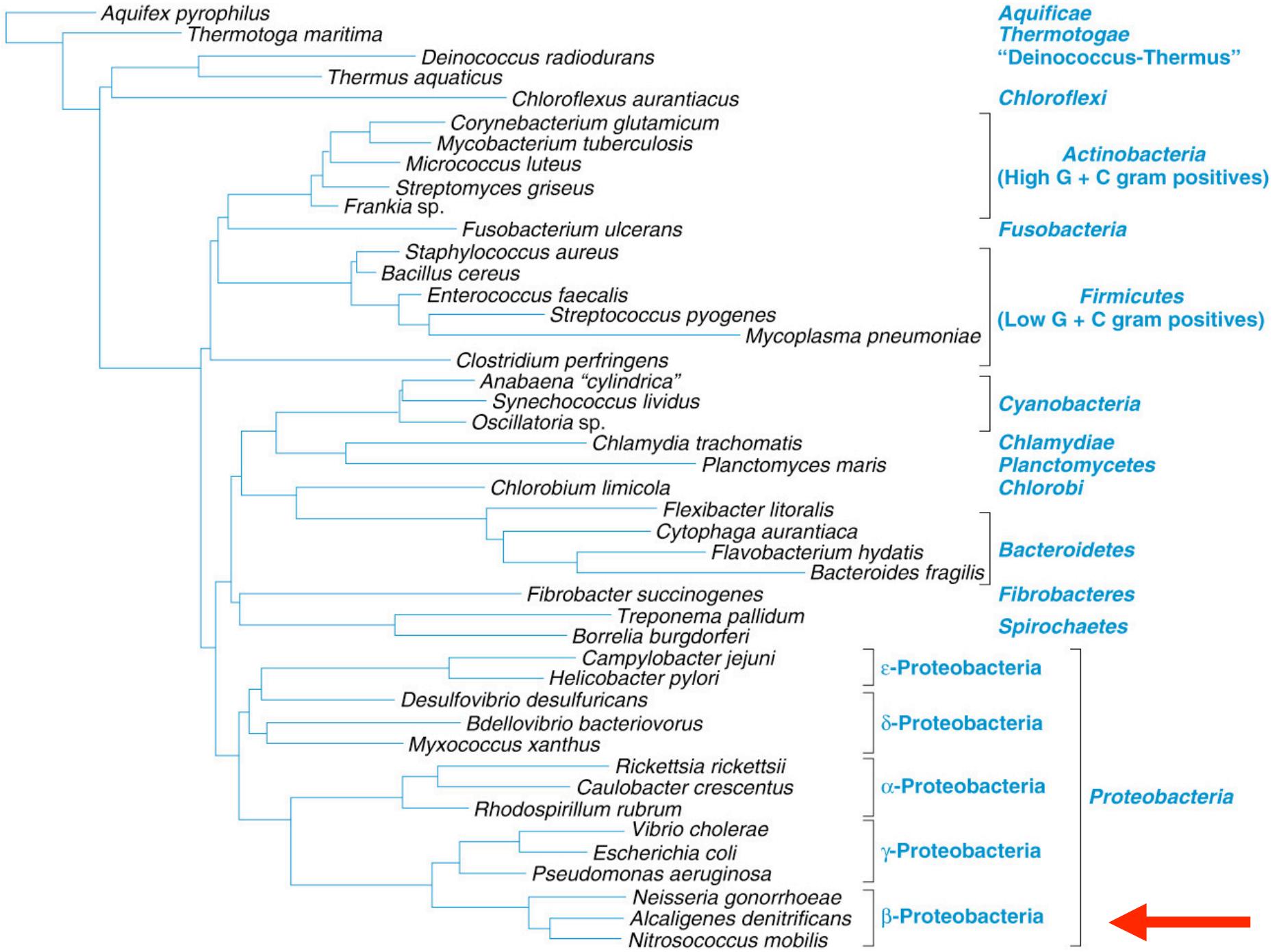
Fig. 22.7



# Bioluminescence

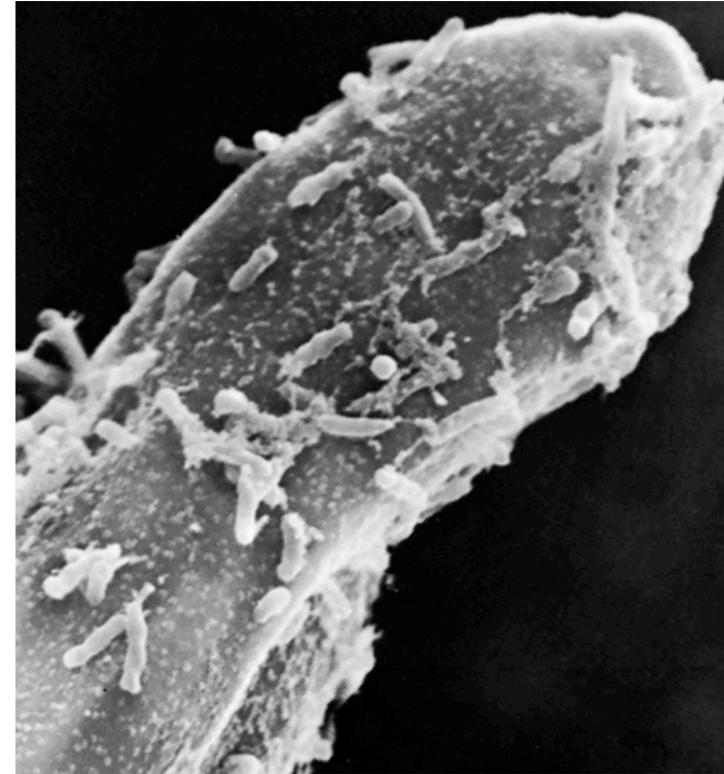






# *Rhizobium*

attachment to root hair



infection thread



Fig. 30.8

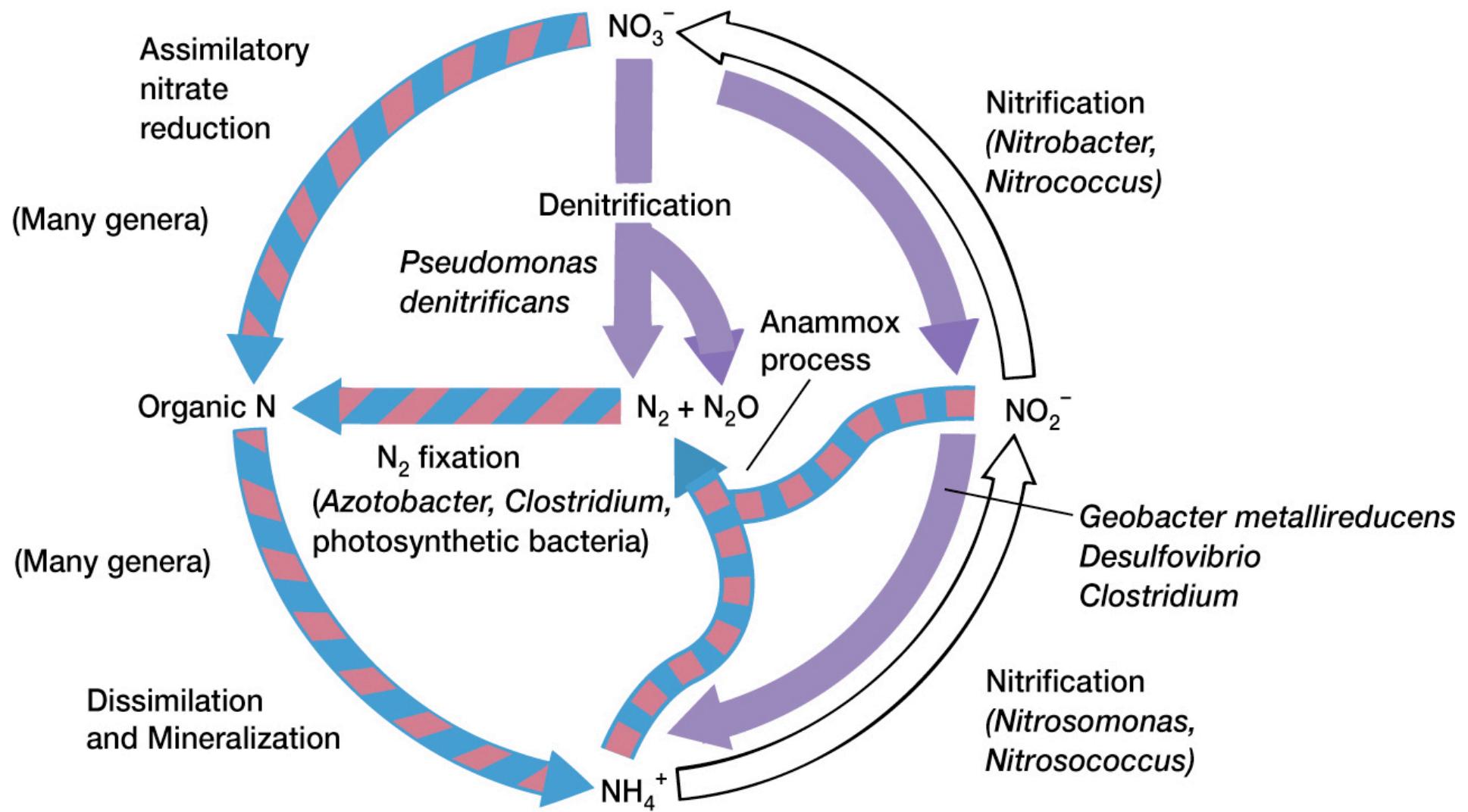


Fig. 28.22