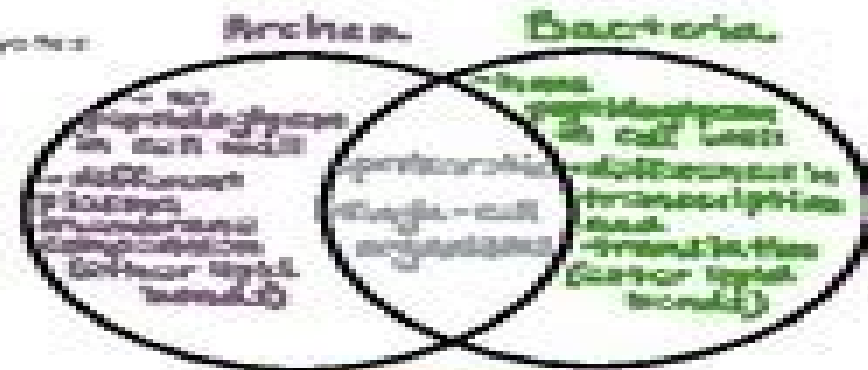


Prokaryotes make up
2/3 of life's three domains

Prokaryotes



Features used to classify prokaryotes:

1. Shape (3)

- spherical → coccus(x): cocci (pl)
- rodlike → bacillus(x): bacilli (pl)
- corkscrew shaped → spirillum(x): spirilla(pl)



2. Pigments

- Bacteria produce different colors that help identify them for scientific and food applications
- DNA → mRNA → proteins expressed pigment



3. Nutritional Requirements

Habitats:

- Hot springs: underground environments
- Cold environments (Antarctic sea ice)
- Black salt environments (Dead Sea)
- Acidic or alkaline environments (mineral, ammonia)
- Moderate environments (human body)
- Hot environments (deep-sea vents, hot springs)

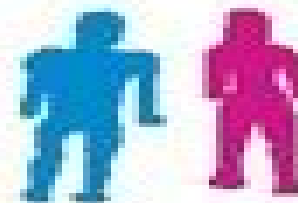
Metabolism:

- Anaerobic metabolism (live w/ out oxygen)
- ferment bacteria

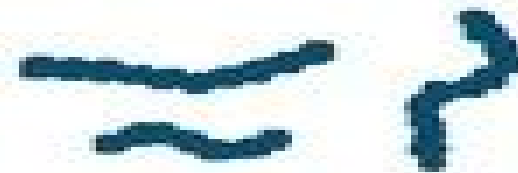


4. Means of locomotion

- Glucose are primary metabolites in prokaryotes
- found mostly in pairs or in hairs or protrusions of cell or partial adhesion with surface



- Aerobic (live w/ oxygen)
- tuberculous pneumonia



Prokaryotes Study Guide Key

Cybellium



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