# MICROBIOLOGY

Discover the science of microorganisms

## Organisms & Evolution //

Microbiology: The study of living things too small to see with the naked eye

- · The four main divisions of life are bacteria, arches, enkargeta, and viruses
  - Each division's DNA is more similar to its own than to any of the other three

Bacteria	Archaea	Eucarya
Groen moresus Grown bactor Pumple positives	Methanomicrobisins Methanomicrobisins	Animalia fungi Plantae
Cunaturate 2	Methanocountry Seminocountry Seminocountry	Plageliates
Demoitors	The state of the s	Mongorida
	V	ruses

Characteristic	Bacteria	Anghesia	Euktoryeta	Windows
Some	0.2 - 2 micross	4.2 - 5 microm	3-90 micross	0.02-0.3 micross
Nucleus	No	No	Yes	No
Circumentos insCircumantinos	DINA	DINIA	DOGA	DONA or BOAR
Ligid bilayer	Yes	Mandatori	Yes	Semination
Riberopean	Small, unique	Socially more like endiaryotes	Large	No
Montheme- bound organifies	No	No	Yes	No
ICNA polymeries	Simple, 3 voltands	More complex, 8 subunits	Most complex. 12 subunits	Oxposile on province material
Giorie widhout matelide help	Yes	Ves	Yes	Nim
below innounce manufacts and autilia.	11		Many	Non-orthites
Cellwall	Proteoglycon	Several deliment	Cellulana,	Ninne

#### Bacteria

- · Were the first cells on Earth.
- Contain over 50 different phyla (major groupings).
- . Are the most abundant form of life
- . People have more bacteria growing on in them than human cells
- Incredibly diverse.
  - There are thousands of different species in one gram of soil
- Live in most environments, including the deep sea, underground, and terrestrial

#### Archaea

- Relatively secommon with fewer known species
- . Most common in extreme environments (e.g., deep sea vents and high salinity lakes)
- Combine some features of prokaryotes and enkaryotes
- Often known as extremophiles and will grow when other organisms cannot.

EX: Halophiles, soft loving; sulfophiles, sulfor loving; thermotroph, best loving; lithotroph, rock loving; methanophile, methane loving (ruminant gats)

#### Eukaryotes

- May be single cells (e.g., yeast, algae, and amorbas) or multicellular (e.g., fungi, plants, and animals)
  - Contain months no bound subcompartments that separate specific functions, particularly the modern
  - Division includes microscopic organisms previously belonging to the Moneta kingdom

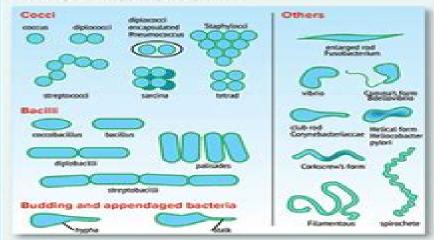
#### Wilnuses.

- Many feel viruses are not alive as they are obligate parasites and cannot replicate without other cells.
- Different viruses target all those domains
- Viruses may use DNA or RNA is genetic material and use molecules from the host cell to make more virus particles, ultimately killing the host

### Shapes & Types //

#### Bacterial & Archeal Cell Shapes & Growth Characteristics

- · Coccis Sphorical
- · Barillis Rod-shaped
- Spirittic Spiral-shaped
- Plessmorphies Multiple shapes are possible.



- Biple-1 Prefix meaning two; a alphococcus in two cocci that have grown together
- Tetrads Four cocci that grow together in a plane
- Sarchase: Eight cooci that grow together in a cube.
- Strepto-: Prefix meaning chain; a streptococcus is cocci that have grown together in a chain
- Staphylo-r Prefix meaning cluster; a staphylococcur is cocci that have goven topolicy in a cluster

#### **Eukaryotic Types**

- Ciliate: Short cilia used for locomotion and/or feeding.
- Flagellate: Long flagella used for locomotion; usually there are only one or two per cell
- Slime model: Single cells living in a damp environment (e.g., under leaves in a forest) that come together during replication



- Amorbic Free-form cell that can change its shape and engulf its prey
- Pretist: Non-plant, non-fungi organism (e.g., ciliates and flagellates)
- Algae: Photosymthetic organism with a model and chloroplasts. Many are single cells, others are multicellular, but many forms are still microscopic (i.e., volvox)
- Diatoms Photosynthesic cukaryote with a silicate cell wall often with a complex symmetrical pattern
- · Yeast: Eukaryotic, single-celled, round fungi-
- Mold: Multicellular fungus which forms hair-like projections (hyphae) that may contain consenally (septate) or not (cornecytle)

#### Viral Shapes

Helical: Spiral arrangement of protein capsid molecules that can appear rod-shaped

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**Albert A Gayle** 

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