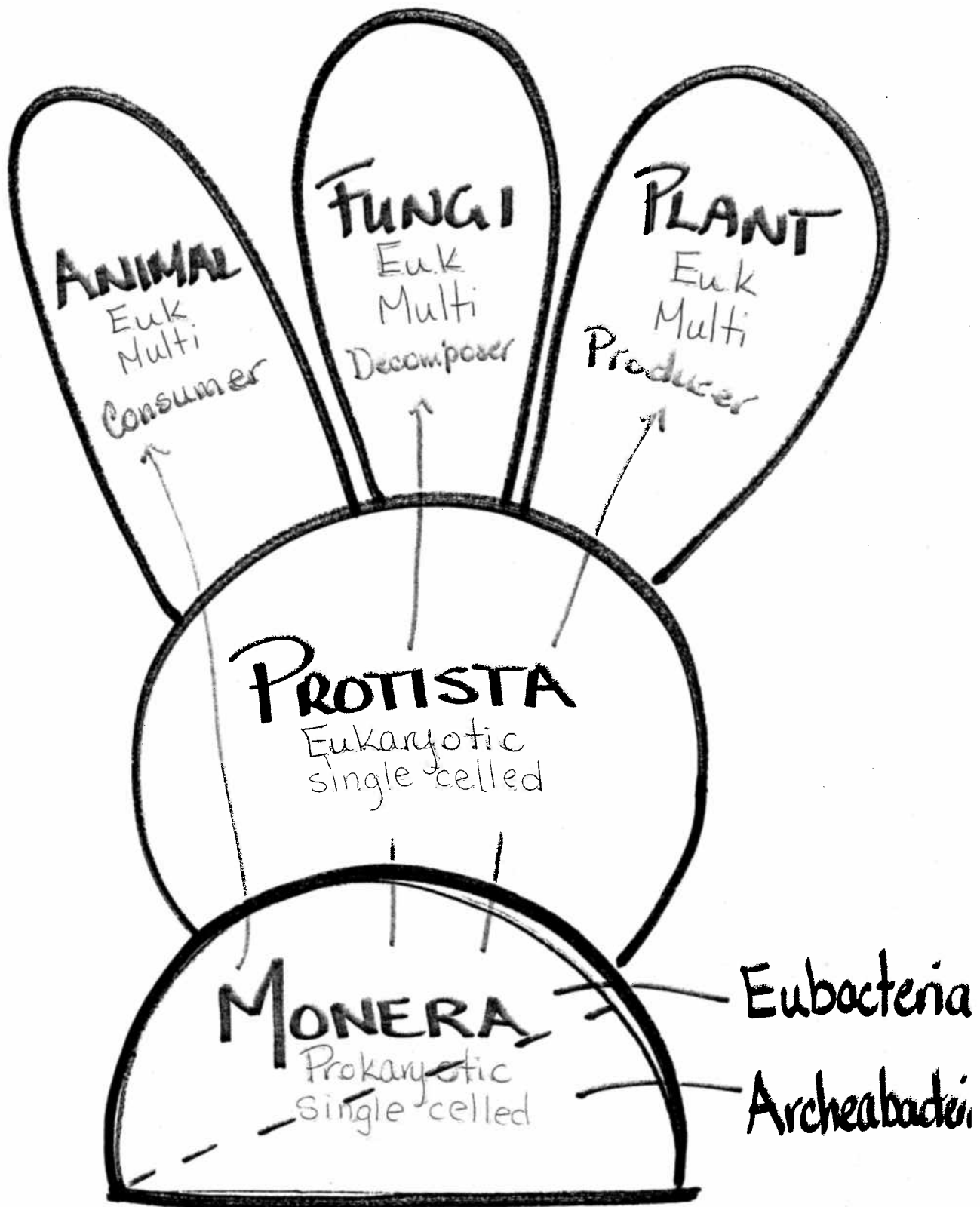


Kingdoms of Life



Cells

PROKARYOTIC

no membrane bound organelles

Moneran's

Single celled

- Variety of nrg acquisition

+ extraction methods

autotroph $\left\{ \begin{array}{l} \text{phototroph} \\ \text{chemotroph} \end{array} \right.$

anaerobic fermentation

heterotroph

aerobic cellular respiration

EUKARYOTIC

nucleus + membrane bound organelles

Protists

Animals

Fungi

Plants

Multicellular

aerobic heterotrophs

aerobic phototroph, autotrophs

aerobic heterotrophs

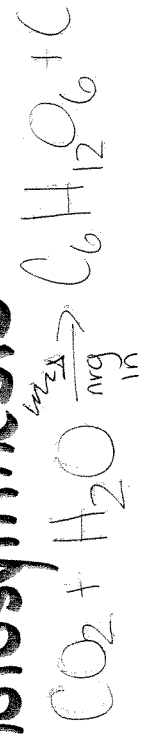
Cell Energy

① Get NRG molecule

- Autotroph (make it)
- Heterotroph (ingest it)

chemosynthesis

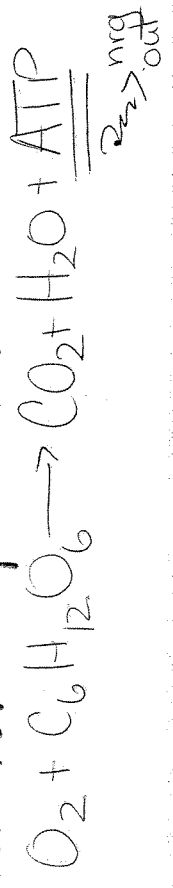
photosynthesis



② Get NRG out of molecule \leftrightarrow ATP

- anaerobic - fermentation
(no O_2)

- aerobic - cellular respiration



Cell Evolution Timeline

