

- a. The fossil record shows that prokaryotes were abundant (and eukaryotes were not) for a span of 2.5 billion years.
- b. During this time, the two branches of prokaryotes became both biochemically and geochemically distinct (these are assigned using molecular evidence (DNA)).
- c. The oldest of the two of prokaryotes is now dated to 3.8 billion years (Prochlorococcus).
- d. Last of diversity in eukaryotic eukaryotes (eukaryotes) is ~ 2.7 billion years ago.

V. Oxygen is not recorded in the atmosphere 2.7 billion years ago. (MUNCH 2.7-5.5 oxygen in the early Earth)

- a. **Oxygen catastrophe** = rapid increase in air oxygen, the only impact (well late because oxygen is a reactive and thus a toxic element) found, caused by a probably series of:
  - 1. The prokaryotes that survived = those that had co-operative obligate anaerobes.
  - 2. Some prokaryotes evolved to become aerobic.
  - 3. End of the evolution of eukaryotic super-organisms.
  - 4. The Earth went from a "red air bag" atmosphere (low free oxygen) to an "oxygen" atmosphere after the oxygen revolution (the extra oxygen reacted & became bound), this means that the EARTHLIFE environment enhanced the joining of simple molecules to form more complex ones.

VI. Eukaryotes: Life begins 2.1 billion years ago.

- a. **Oldest Eukaryote** = 2.1-3 billion years old, multi-cell shaped, looks like single celled algae.
- b. Many eukaryotes evolved during the oxygen revolution:
  - i. This could be due to the chloroplasts (CP) the most bacteria, which passed the re-arranging oxygen into a metabolic advantage by doing cellular respiration.

VII. **Multi-cellular Eukaryotes** evolved 0.7-6 billion years ago.

- a. Cell division and cell differentiation by transition: the single cell into multiple cells (organism with specialized cells).
- b. **Simplest Eukaryote** = gills covered all the plants (and some algae); therefore life was confined to land (spores) or deep sea (mats).
  - i. The first major diversification of multicellular eukaryotes occurs specifically from the branching of unicellular Earth. (Prokaryotic period)

VIII. **Assumed Diversity** exploded during the early Earth (this period)

IX. Plants, fungi and animals colonized the land about 400 million years ago.

- a. **Plant life** is the first to colonize land about 400 million years ago.
- b. **Adaptations** that helped prevent against dehydration made it possible:
  - i. **Plants** helped plant in desolate land by working with their roots to bring in water and nutrients.
  - ii. **Plants** changed the landscape and created new opportunities for life (shrubbery).
  - iii. **Infected** the ground of ancient continents were populated 300-500 million years ago.
    - i. 

### The Origin of Life:

- a. Plant cells may have originated by a chemical evolution on a young Earth:
  - i. **Spontaneous Generation** = theory that says that life emerged from inanimate matter.
  - ii. **Biogenesis** = "life from life" principle, cells come from previous living cells.
    - L. No evidence today for spontaneous generation. (MICROBIE) the early Earth was much different than our Earth today.
      - 1. It had little atmospheric oxygen to pull molecules apart.
      - 2. It had more energy sources like lightning, volcanoes, and UV light.
      - 3. SO<sub>2</sub> (sulfur) was present on Earth that was different from the Earth we see today.
    - iii. **Four Stage Hypothesis** for the Origin of Life - 4 stages:
      - i. Absorbtion (synthesis of small organic molecules (amino acids and nucleotides))

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