

- a. The fossil record shows that prokaryotes were abundant (and eukaryotes were not) for a span of 1.5 billion years
- b. During this time, the two branches of prokaryotes branched had: bacteria and archaea (these are **assigned using molecular evidence (DNA)**)
- c. The oldest fossils of prokaryotes are found in **Sewanee shales** (3000-million-year-old)
- d. Lots of diversity in metabolic activity in prokaryotes even 3 billion years ago
- V. Oxygen accumulated in the atmosphere 2.7 billion years ago (**MUCH LESS oxygen in the early Earth**)
 - a. **Cyanobacteria** = only photosynthetic prokaryotes that generate oxygen (photo-synthesis has made oxygen by doing photosynthesis); evolved over 2.7 billion years ago
 - b. Most atmospheric oxygen came from photosynthesis
 - i. **"Oxygen Revolution"** → rapid increase of oxygen, heavily impacted life because oxygen is corrosive and can attack chemical bonds, caused by cyanobacteria!
 1. The prokaryotes that survived = ancestors of our current obligate anaerobes
 2. Some prokaryotes evolved to become aerobic
 3. Led to the evolution of cellular respiration
 4. The Earth went from a "reducing" atmosphere (electron-donating) to an "oxidizing" atmosphere after the oxygen revolution (the extra oxygen attacked chemical bonds), this means that the EARLY environment reduced the joining of simple molecules to form more complex ones
- VI. Eukaryotic Life began 2.1 billion years ago
 - a. **Oldest fossils of eukaryotes** = 2.2 billion years old; corkcopper shaped; look like single celled algae
 - b. Many eukaryotes evolved during the oxygen revolution
 - i. This could be due to the chloroplasts OR the mitochondria, which turned the accumulating oxygen into a metabolic advantage by doing cellular respiration
- VII. **Multi cellular Eukaryotes** evolved 1.2 billion years ago
 - a. Cell division and cell differentiation help transform the single cell into multicellular organisms with specialized cells
 - b. **Snowball Earth** = glaciers covered all the planets land masses; therefore life was confined to hot springs or deep sea vents
 - i. The first major diversification of multicellular eukaryotes corresponds in time to the thawing of snowball Earth. (**Free animals period**)
- VIII. Animal Diversity exploded during the **early Cambrian period**
- IX. Plants, fungi and animals colonized the land about 500 million years ago
 - a. Pivotal milestones in the history of life = **colonization of land**
 - b. Adaptations that helped prevent against dehydration made it possible
 - i. Fungi helped plants colonize land by working with their roots to help absorb water and nutrients
 - c. Plants changed the landscape and created new opportunities for all life (herbivores!)
 - d. Most of the groups of modern mammals were established 50-60 million years ago
 - i. **Fish** → **Amphibians** → **Reptiles** → **Birds** / **Mammals**

The Origin of Life:

- I. First cells may have originated by chemical evolution on a young earth
 - a. **Spontaneous Generation** = theory that says that life emerged from inanimate material
 - b. **Biosynthesis** = "Life-from-life" principle; cells come from pre-existing cells
 - i. No evidence today for spontaneous generation... **HOWEVER**, 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... life started on an Earth that was **WHOLE** different from the Earth we see today
 - c. **Four Stage Hypothesis for the Origin of Life**; 4 stages
 - i. Abiotic synthesis of small organic molecules (amino acids and nucleotide)

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