

Evolution of Multicellular Life

Big Picture

This is a very brief description of how the organisms that we have today evolved from the early, single-celled organisms that lived in water two billion years ago. We must remember that it took an extremely long period of time for the modern-day organisms to appear and that there were many more organisms that today's organisms evolved from. These species were forced to adapt to Earth's constantly changing environment.

Key Terms

Geologic Time Scale: Divides the history of the Earth into different time periods based on the climate and the types of organisms living on Earth at the time.

Mass Extinction: When some sort of geologic or climate change causes a large number of species to go extinct.

Extinction: When all organisms of a particular species die; this can be a result of some natural phenomenon, such as a meteor falling.

Important Eras

The geologic time scale organizes Earth's history by major changes in geology and climate and by important events in the evolution of life. These are some of the key eras organized in chronological order:

Late Precambrian Era:

Occurred two billion years ago to about half a billion years ago.

There were a lot of geologic and climate changes to the Earth.

- The continents drifted away and toward one another, eventually forming the continents we have now.
- There were also fluctuating carbon dioxide levels due to volcanic activity. This caused the climate to change constantly, as the Earth was continually going in and out of ice ages. One ice age was so cold, the Earth was

completely frozen.

About a billion years ago, the first multicellular organisms evolved.

- Single-celled organisms often found in freshwater in the ocean to sea water to various parts of the earth. Different organisms lived in different places. Some lived in deep water, some lived in shallow water, some lived in warm water, and some lived in cold water. Some lived in the ocean, and some lived in freshwater.

The first multicellular organisms lived in a shallow ocean. As the continents moved, the climate changed. Some organisms died, but some survived. Some organisms died, but some survived. Some organisms died, but some survived. Some organisms died, but some survived.

Ordovician Period:

The Ordovician Period of life that occurred right before the Silurian Era. This happened as a result of the mass extinction that occurred at the end of the Precambrian era. When the continents moved, the climate changed. Some organisms died, but some survived. Some organisms died, but some survived. Some organisms died, but some survived.

Paleozoic Era:

Occurred around 544-252 million years ago; so much happened in this era that it had to be divided into 6 periods.

- Cambrian Period: Because the preceding era ended with a mass extinction, this period began with a huge explosion of new organisms. Ancient organisms such as sponges and trilobites formed.
- Ordovician Period: Although no animals lived on land (all animals were invertebrates that still lived in water), plants such as mosses started appearing on land, and the earliest fish started appearing.
- Silurian Period: Fish and coral continued to live in the oceans, and vascular plants, such as ferns, evolved on land.
- Devonian Period: A type of fish evolved to breathe oxygen when its head was above water. Moreover, seed plants evolved on land.
- Carboniferous Period: The first plants on land were a huge variety of ferns that were able to grow on land. Moreover, the first insects and even able to fly on land. The first vertebrates were able to reproduce on land as well.

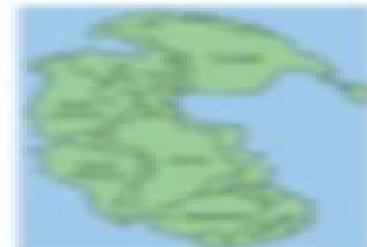


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- Permian Period: Because a huge land mass formed, all the continents on Earth were stuck together. In this period, the continents were very dry. During this time, many animals in the oceans died. Plants that were able to grow on land had difficulty due to the dry conditions.

Triassic Period:

This was a time between at the end of the Permian Period, marking the end of the Paleozoic Era.

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