

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 lived in symbiosis in the ocean to use oxygen to produce energy to perform different specialized tasks. Over time, these symbiotic relationships began to evolve and some became dependent on one another, and thus the evolution of single-celled organisms became multicellular organisms.

There was evidence of a billion years ago with a major extinction. Due to some geological or climate change, even though we don't know the real cause of this mass extinction, we do know that this mass extinction paved the way for a lot of new species to form in the next era, the Paleozoic Era.

Carboniferous Period

The warmest part of life that occurred right before the Permian Era. This happened as a result of the mass extinction that occurred at the end of the Precambrian era. When the symbiotic organisms began to evolve, cooperation or interdependence, it is believed to have not helped in the next way.

Paleozoic Era

Occurred around 544-245 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, or gymnosperms, evolved on land.
- **Carboniferous Period:** The large plants of this period created a huge amount of carbon that was trapped in coal. In addition, with the oceans and were able to breathe on land, and some could even reproduce. Only towards the end of this period were amphibians able to reproduce on land as well.

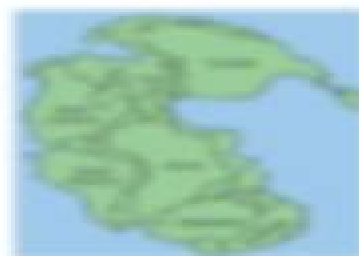


Image credit: Earth, by Dennis Cox

- **Permian Period/Pangaea:** A huge landmass formed when all the continents on Earth were stuck together. In this period, the climate was very dry. Drying plants and animals to produce adaptations. Plants had waxy leaves and some made their seedlings able to germinate under rock.

Permian Extinction

This was a mass extinction at the end of the Permian Period, marking the end of the Paleozoic Era.

Radiation Of Multicellular Life Study Guide Answers

RJ Shavelson



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