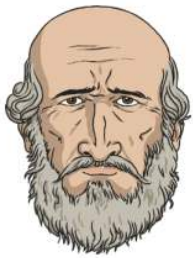


Scientists of Evolution



Anaximander of Miletus (c. 610 – 546 BC)

Greek Philosopher

First animals lived in water during a wet phase of the Earth's past.



Augustine of Hippo (354 - 430)

Bishop and Theologian

Believed that God created life but that living things had been transformed slowly over time.



Georges-Louis Leclerc (1707 – 1788)

French Philosopher

Thought all the mammals had descended from as few as 38 original animal types.



Ibn Khaldun (1332 - 1406)

Arab Historian

Thought living things were able to transform from one thing to another.



Al-Jahiz (776 – 868)

Arab Prose Writer

Argued that animals struggled for existence, resources, to breed and avoid being eaten. Those that were successful were better able to survive.



Thomas Robert Malthus (1766 – 1834)

English Cleric and Scholar

Argued that if populations grew then they would struggle to survive as food would become scarcer. In this case, some would die of disease or hunger and others would live.



Zhang Zhou (c. 369 – 286 BC)

Chinese Philosopher (Taoist)

Believed that plants and animals did change and that the species were not fixed.



Pierre Louis Maupertuis (1698 - 1759)

French Mathematician and Philosopher

Adaptations result in new varieties of the living thing as well as lead to new species.



Empedocles (c. 490 – 430 BC)

Greek Philosopher

Thought only some animals and plants survived, others die out.

Animals and plants were like disjointed parts of the ones we see now.

Animals and plants that survived seem like they were created that way but it was actually accidental that they did.



Tusi (1201 – 1274)

Persian Scholar

Argued that those organisms that could gain new features could gain an advantage over those that did not and survived.



Epicurus (341 – 270 BC)

Greek Philosopher

Believed that the goddess Gaia created lots of different species in the past.

Only those that functioned the best survived and had offspring.



Erasmus Darwin (1731 - 1802)

English Physician

Thought that the strongest and most active animals would reproduce.

Believed that animals transmuted (evolved) from other living things.



Charles Darwin (1809 - 1882)

English Naturalist and Geologist

Brought together the ideas of natural selection, adaptation and a single origin of life. He went on to state that humans were not separate from all living things but had developed through the same evolutionary process. He emphasised survival of the fittest and the competition that allowed certain varieties to survive due to inherited traits.

The reason Darwin is known for evolutionary theory is the way that he combined the ideas so that they made sense – there was a single origin of life for all living things, that living things changed through adaptations that helped them to survive better in their environment and that these adaptations led to evolution from the original living thing to the ones we see now.



Alfred Wallace (1823 - 1913)

British Naturalist and Explorer

Thought that natural selection caused varieties of the same species based on evidence from observations in South America and Asia.

Emphasised how environmental changes could lead to natural selection (adaptive traits).