

# Timeline of Human Evolution

**Birth of Earth**  
4.57 Billion years ago  
Moon formation, magnetic field, water (4.0 bya), rain washing minerals to the primordial ocean.

**Oxygen**  
Oxygen crisis (Great Oxygenation Event 2.4 bya), mitochondria and nucleus (first eukaryotes 1.4 bya), Insulin-like molecules.

**Jaws**  
440 Million years ago  
Collision of Laurentia and Baltica, Gnathostomata, emergence of jaws, neural crest cells, myelin, adaptive immune system components (MHC, Ig, TCR).

**Divergence of Amniota**  
310 Million years ago  
Pangea begins to form, Amniota split into Sauropsida and Synapsida (emergence of the breast, urea instead of uric acid, biliverdin reductase), mass extinction (250 mya).

**Human Beings**  
Split of Hominina from the chimpanzee/bonobo lineage, Australopithecus (4-2 mya), Stone Age, genus Homo, Homo sapiens, Neolithic Revolution, metal usage.

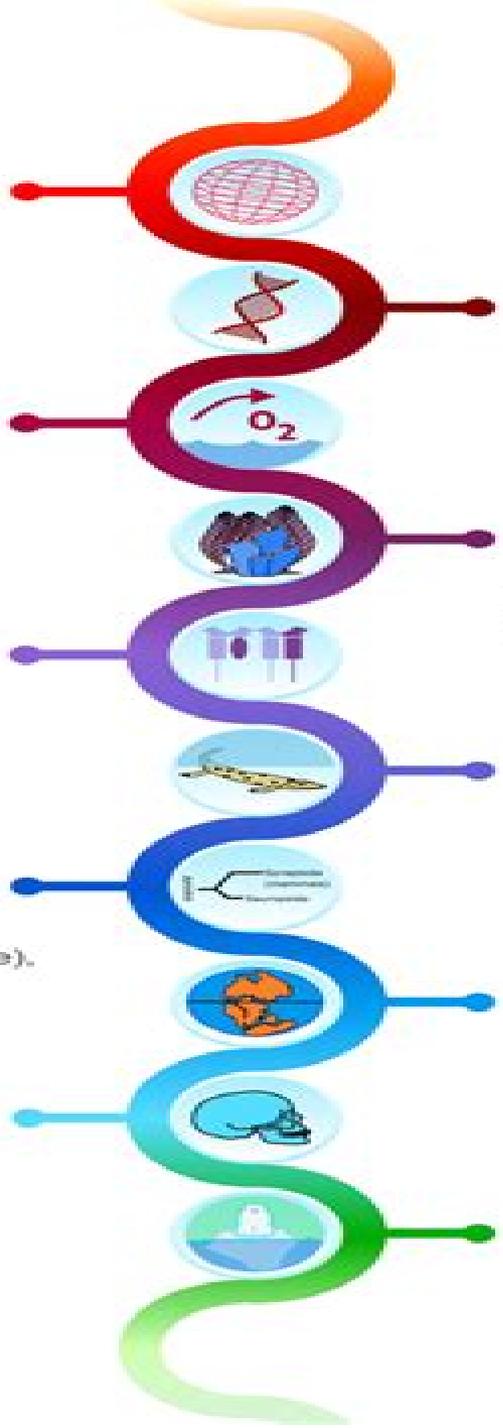
**Emergence of Life**  
3.8 Billion years ago  
RNA, DNA, prokaryotes, porphyrins, cyanobacteria.

**Ediacaran Period**  
635 - 541 Million years ago  
End of Snowball Earth, multicellular life (600 mya), emergence of many animal developmental plans: chordates, lancelets (vascular system), Olfactores (insulin - IGF split), tunicates, vertebrates (bone, multilayered epidermis, labyrinth organ, endothelium).

**Vertebrates Conquer Land**  
380 Million years ago  
Shallow freshwater seas, loss of the effect of buoyancy, ancient amphibians (lung, locomotor system, neck, tongue), Reptiliomorpha, amniotic egg.

**Pangea Begins to Split**  
200 Million years ago  
Continents drift to present positions, higher mammals (enucleated red blood cells, corpus callosum) begin to split into four superorders (115 mya), Primates (79.6 mya), end of dinosaurs (66 mya).

**Today**  
Global sea levels rising, climate change, continents continue to shift, moon landing, sixth mass extinction.



# The Story Of Evolution

**Joseph McCabe**



## **The Story Of Evolution:**

**From the Beginning** David Peters,1991 Examines the history of life on Earth and traces the course of human evolution

**The Story of Evolution** Joseph McCabe,2021-08-30 Excerpt The beginning of the victorious career of modern science was very largely due to the making of two stimulating discoveries at the close of the Middle Ages One was the discovery of the earth the other the discovery of the universe Men were confined like molluscs in their shells by a belief that they occupied the centre of a comparatively small disk some ventured to say a globe which was poised in a mysterious way in the middle of a small system of heavenly bodies The general feeling was that these heavenly bodies were lamps hung on a not too remote ceiling for the purpose of lighting their ways Then certain enterprising sailors Vasco da Gama Maghalaes Columbus brought home the news that the known world was only one side of an enormous globe and that there were vast lands and great peoples thousands of miles across the ocean The minds of men in Europe had hardly strained their shells sufficiently to embrace this larger earth when the second discovery was reported The roof of the world with its useful little system of heavenly bodies began to crack and disclose a profound and mysterious universe surrounding them on every side One cannot understand the solidity of the modern doctrine of the formation of the heavens and the earth until one appreciates this revolution

**Life on Earth** Steve Jenkins,2002-10-28 There are millions of different kinds of plants and animals living on the earth Many millions more lived here in the past Where did they all come from Why have some become extinct and others lived on In this remarkable book for children Steve Jenkins explores the fascinating history of life on earth and the awe inspiring story of evolution Charles Darwin s great contribution to modern science

**A Story of Us** Lesley Newson,Peter Richerson,2021-02-19 Changes in the environment drive evolution and evidence suggests that our ancestors evolved to use cultural adaptations to survive environmental fluctuations of great severity In A Story of Us Lesley Newson and Peter Richerson explain the evidence and ideas that provide an account of how they coped using short descriptive stories to illustrate life at different stages of our evolutionary history

Billions of Years, Amazing Changes Laurence Pringle,2011-10-01 This highly engaging exploration of the concept of evolution lays out the history of life on earth what we know and how we know it Ever since Charles Darwin revealed his landmark ideas about evolution in 1859 new findings have confirmed expanded and refined his concepts This ALSC Notable children s book brings together the pillars of evidence that support our understanding of evolution In addition to stunning illustrations more than fifty photographs capture natural marvels including awe inspiring fossils life forms and geological wonders The result is a full and clear account of the monumental evidence supporting the modern view of evolution

The Fathers of Evolution and Other Addresses John Hassler Dietrich,1927 *The History of Life on Earth* Nathan Keighley,2018-08 Evolution is one of the most fundamental principles that governs life Its actions may be subtle but they can be observed every day such as predators hunting prey or plant successions in competing for empty space These habituations were envisaged by Charles Darwin to be the properties of

nature that lead to evolution and prompted the conceptualisation of the theory of natural selection The force of this process can be most dramatically depicted by looking at the variation of organisms throughout the history of life on Earth

*Evolution* Peter J. Bowler, 1989-01-01 This edition of *Evolution The History of an Idea* is augmented by the most recent contributions to the history and study of evolutionary theory It includes an updated bibliography that offers an unparalleled guide to further reading As in the original edition Bowler's evenhanded approach not only clarifies the history of his controversial subject but also adds significantly to our understanding of contemporary debates over it The idea of evolution continued to evolve Back cover

**A Most Improbable Story** Steven J. Theroux, 2022-07-26 This book is a Big History of the evidence regarding how we came to be It briefly explores philosophical thought and how our past might affect our future The text summarizes different perspectives including the strengths and weaknesses of each The genesis of our planet is explored especially the circumstances that must exist for complex life to arise This brief journey highlights the history of life the emergence of simple lifeforms and the evolution of complex creatures including humans The book concludes with a discussion of why other humanoids went extinct while our species achieved dominance The author speculates on potentialities awaiting humankind and our planet The first Big History written from the perspective of a biologist Summarizes multiple perspectives of history Documents the unique conditions for the emergence of life Speculates on the future Chapter 12 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license available at <http://www.taylorfrancis.com>

**Evolution** Alice Roberts, 2023-05-04 Travel back in time almost eight million years to explore the roots of the human family tree Written and authenticated by a team of experts and with a foreword by Professor Alice Roberts *Evolution* brings us face to face with our ancestors Interweaving latest discoveries maps and incredible illustrations it tells the story of our origins and helps us better understand our species from tree dwelling primates to modern humans Renowned Dutch paleoartists the Kennis brothers bring our ancestors to life with their beautiful accurate reconstructions that visually trace each step in our evolutionary history Combined with clear prose this comprehensive yet accessible book provides a rich history of each stage of human evolution from human anatomy and behaviour to the environment we live in

*Before the Sun Dies* Roy A. Gallant, 1989 Presents the theories controversies and latest scientific thinking on how the Solar System the Earth and the first biological organisms came to be and how the latter changed and adapted for survival Includes a glossary of terms

[The Story of the Mind](#) James Mark Baldwin, 1898

[The Story of Evolution in 25 Discoveries](#) Donald R. Prothero, 2020-12-22 The theory of evolution unites the past present and future of living things It puts humanity's place in the universe into necessary perspective Despite a history of controversy the evidence for evolution continues to accumulate as a result of many separate strands of amazing scientific sleuthing In *The Story of Evolution in 25 Discoveries* Donald R Prothero explores the most fascinating breakthroughs in piecing together the evidence for evolution In twenty five vignettes he recounts the dramatic

stories of the people who made crucial discoveries placing each moment in the context of what it represented for the progress of science He tackles topics like what it means to see evolution in action and what the many transitional fossils show us about evolution following figures from Darwin to lesser known researchers as they unlock the mysteries of the fossil record the earth and the universe The book also features the stories of animal species strange and familiar including humans and our ties to some of our closest relatives and more distant cousins Prothero's wide ranging tales showcase awe inspiring and bizarre aspects of nature and the powerful insights they give us into the way that life works Brisk and entertaining while firmly grounded in fundamental science *The Story of Evolution in 25 Discoveries* is a captivating read for anyone curious about the evidence for evolution and what it means for humanity

*The Story of Life* Catherine Barr, Steve Williams, 2015-03-15 At first nothing lived on Earth It was a noisy hot scary place Choking gas exploded from volcanoes and oceans of lava bubbled around the globe Then in the deep dark ocean something amazing happened This is an exciting and dramatic story about how life began and developed on Planet Earth written especially for younger children The authors explain how the first living cell was created and how the cells multiply and create jellyfish and worms and then fish with bendy necks which drag themselves out of the water into swampy forests They tell the story of the biggest creatures that have ever walked on land the dinosaurs Long after that hairy creatures who have babies not eggs take over stand on two legs and spread around the world some of them living through cataclysmic events such as ice ages and volcanic eruptions Everyone living today is related to these survivors With delightful illustrations including lots of detail and humour all carefully researched and checked this book shows the development of life on Earth in a truly accessible and simple way

**Where Do You Come From?** Marguerite Rush Lerner, 1967 An explanation of the evolutionary process of natural selection Cites existing animals and shows how certain of their characteristics represent a stage in the evolutionary process

**The World's Most Famous Court Trial, Tennessee Evolution Case** National Book Company, Cincinnati, 1925

**A Remarkable Journey** R. Paul Thompson, 2015 Charles Darwin published *On the Origin of Species* a little over one hundred and fifty years ago and it changed everything But many don't realize that it took Darwin over twenty years to develop his theory that others had been advocating a similar theory before him and many others have been developing it since In *A Remarkable Journey* R Paul Thompson tells the story of evolutionary theory of the empirical and theoretical discoveries and the endless heated debates that have led to our understanding of it today As Thompson shows the tortuous path from Darwin's brilliant formulation to today's robust and vibrant model is filled with intrigue Evolutionary theory has become in many respects the center of biological science and its maturation is an indication of a larger and more sophisticated scientific understanding more generally But this development was not easily won a point Thompson makes clear as he takes readers from one stage of the theory's maturation to the next detailing all that went into the development of what most of us now take for granted as a basic and beautiful principle of life

The Outlook Lyman Abbott, Hamilton Wright Mabie, Ernest

Hamlin Abbott, Francis Rufus Bellamy, 1899      Landscape Architecture, 1928      Seven Million Years Douglas Palmer, 2005

A voyage into the deep past to discover how we became human and how modern science is rewriting our family tree Seven million years ago there were ape like animals living in the forests and woodlands of Africa who were our ancestors They were also the ancestors of the chimpanzee It s still a provocative thought today but when the first steps toward this realization were taken most scientists still believed in the special creation of humans and the story of the flood Over the years scientific research has uncovered a fascinating human family tree with over twenty members and more extinct relatives still being identified Seven Million Years explores the discovery of our own species our nearest relatives and an ancient shared history It tells the stories of the archaeological finds the people who made them and how these powerful revelations have altered how we perceive ourselves our uniqueness as human beings and our sense of self in relation to other animals

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