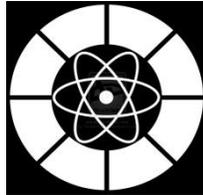




**Research Group, A.D.T. And Shardabai
Pawar Mahila Mahavidyalaya, Shardanagar,
Malegaon(Baramati) Dist. Pune – 413115.**



“Dr. APIS” SCIENCE SPECTRUM

Objective: To Establish the Repository of Contributions of Eminent Scholars and Information on Science and Culture For The Society.

Charles Darwin: Biologist of the Day 12 February



(Birth : 12 February, 1809)

(Death: 19 May, 1976)

Darwin Day is a celebration to commemorate the anniversary of the birth of Charles Darwin on 12 February 1809. The day is used to highlight Darwin's contribution to science and to promote science in general. Darwin Day is celebrated around the world. The celebration of Darwin's work and tributes to his life have been organized sporadically since his death on 19 April 1882, at age 73. Events took place at Down House, in Downe on the southern outskirts of London where Darwin and members of his family lived from 1842 until the death of his wife, Emma Darwin, in 1896.

Darwin is credited for all species of life have descended over time from common ancestors, and in a joint publication with Alfred Russel Wallace introduced his scientific theory that this branching pattern of evolution resulted from a process that he

called natural selection, in which the struggle for existence has a similar effect to the artificial selection involved in selective breeding. Darwin published his theory of evolution with compelling evidence in his 1859 book *On the Origin of Species*, overcoming scientific rejection of earlier concepts of transmutation of species. By the 1870s, the scientific community and much of the general public had accepted evolution as a fact. However, many favored competing explanations and it was not until the emergence of the modern evolutionary synthesis from the 1930s to the 1950s that a broad consensus developed in which natural selection was the basic mechanism of evolution. In modified form, Darwin's scientific discovery is the unifying theory of the life sciences, explaining the diversity of life. Darwin's early interest in nature led him to neglect his medical education at the University of Edinburgh; instead, he helped to investigate marine invertebrates. Studies at the University of Cambridge (Christ's College) encouraged his passion for natural science. His five year voyage on HMS *Beagle* established him as an eminent geologist whose observations and theories supported Charles Lyell's uniformitarian ideas, and publication of his journal of the voyage made him famous as a popular author. Puzzled by the geographical distribution of wildlife and fossils he collected on the voyage, Darwin began detailed investigations and in 1838 conceived his theory of natural selection. Although he discussed his ideas with several naturalists, he needed time for extensive research and his geological work had priority. He was writing up his theory in 1858 when Alfred Russel Wallace sent him an essay that described the same idea, prompting immediate joint publication of both of their theories. Darwin's work established evolutionary descent with modification as the dominant scientific explanation of diversification in nature.



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