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Charles Darwin

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Most of the great revolutions that ever happened are from science discoveries. Therefore, scientists are one of the main factors that renovate the world. They spend their life studying what they are interested in and develop new technologies that are very useful for others. One of the most influent scientists who changed the world is an English naturalist name Charles Darwin. He devoted himself to develop the new evolutionary theory called "origin of species". His discovery is a crucial key on the idea of heredity. Therefore, his work is a foundation of modern discovery of humanity. Darwin's works had renovated ordinary ideas about evolution and explained the way all creatures live. Moreover, his theory has become an important base of sciences that provides a lot of benefits as you can see in following paragraphs.

Charles Darwin was born on February 12th, 1809 in Shrewsbury, Shropshire, England.¹ His father who was a doctor sent him to study medicine at University of Edinburgh Medical School in October 1825. Since he found that he did not like medicine, then he joined the Plinian Society which was a student natural history group in second year. It was the group that discussed about radical materialism. After that he studied classification of plants and also helped for work on the collections of the University's Museum. Moreover, he learned Paley's Natural Theology which was about God acting through laws of nature. In 1828, he was sent to Christ's College, Cambridge to study ministry, because his father noticed that Darwin was not

¹ Wikipedia contributors. "Charles Darwin - Wikipedia, the free encyclopedia." Wikipedia, the free encyclopedia. N.p., n.d. Web. 28 Jan. 2013. <http://en.wikipedia.org/wiki/Charles_Darwin>.

interested in a medical career. While he was studying there, his mentor; John Stevens Henslow recommended him as a young naturalist to Captain Robert FitzRoy in order to let him joined the HMS Beagle trip. The ship took five years to survey around the world since December 27th, 1831.² Along the trip, he collected several of specimens such as birds, plants and fossils. Moreover, he had a chance to observe principles of botany, geology and zoology on this journey. His most interested observed areas were The Pacific Islands and Galapagos Archipelago. He returned to England in 1836. Then, he began to study and work on the various specimens that he brought back from the trip. In addition, he wrote what he discovered from the observation and published them as the Zoology of the Voyage of the Beagle. Since the trip changed the way he thought about the natural history, then he developed his own theory about the origin of species which leaded to an evolution of biology today.

Darwin developed theory of revolution after he returned from the Beagle trip. He wrote the book called the origin of species. It was a work of scientific literature which was published on 24 November 1859. Its full name was "On the Origin of Species by Means of Natural Selection or the Preservation of Favoured Races in the Struggle for Life".³ This book contained various views on evolution especially Darwin's. Apart from evolution views, in the book, there were evidences that Darwin collected from the Beagle trip, his discoveries, essays and experiments. However, his purpose in this book was to explain the new biology theory that he had developed.

² "Charles Darwin Biography - Facts, Birthday, Life Story - Biography.com." Famous Biographies & TV Shows - Biography.com . N.p., n.d. Web. 28 Jan. 2013. <<http://www.biography.com/people/charles-darwin-9266433>>.

³ Wikipedia contributors. "On the Origin of Species - Wikipedia, the free encyclopedia." Wikipedia, the free encyclopedia. N.p., n.d. Web. 28 Jan. 2013. <http://en.wikipedia.org/wiki/On_the_Origin_of_Species>.

After the book was released and the result was that his theory was not accepted. Since his theory contrasted to other popular ideas at that time, therefore his works were debated for a long time before they were accepted. Other views believed that every species were created since the beginning of the earth and does not changed even though time was changing. Moreover, humans are unique which do not relate to other species. On the other hand, Darwin believed that many species are related to each other. Moreover he revealed that all species were changed all the time through generations to generations by the law of natural selection. This law reveals that the one that adapted itself with the surrounding environment had more chance to survive in order to reproduce its descendents. The way organisms adapted themselves is called mutation and the good adaptations is called beneficial mutations. These beneficial mutations can pass through the next generation thus; one species can be separated to many subspecies. The result is that one organism can be changed to different organism which, in fact, they are from the same ancestors. Natural selection was originally developed from the observation of birds from different islands. Darwin discovered that Galapagos birds from different island were separated species of finches. In other word, all those birds were from the same ancestors of finches.⁴ Therefore there was the possibility that one species could change into another as Darwin believed. Around 1930s to 1940s, his theory was accepted and became more popular. Darwin's natural selection theory is now central of the modern evolutionary theory which now it is known as life sciences.⁵

⁴ Wikipedia contributors. "Charles Darwin - Wikipedia, the free encyclopedia." Wikipedia, the free encyclopedia. N.p., n.d. Web. 28 Jan. 2013. <http://en.wikipedia.org/wiki/Charles_Darwin>.

⁵ Wikipedia contributors. "On the Origin of Species - Wikipedia, the free encyclopedia." Wikipedia, the free encyclopedia. N.p., n.d. Web. 28 Jan. 2013. <http://en.wikipedia.org/wiki/On_the_Origin_of_Species>.

The ordinary evolution ideas were completely changed after the discovery of Darwin. Theory of evolution explains how all forms of life come from and how each relates to each other. It also describes the way human beings have developed and the way humans live as they really are through sciences. Moreover, the evolutionary theory focuses since the small part as cells in living thing to the vast part as the world. Evolution is a basic knowledge of any science theories. For example, evolution can explain the chemical blocks in living things and how they relate to genetic inheritance. Moreover, evolutionary is central of things that make modern life possible. Without evolutionary theory, we do not deeply understand how any diseases cause, how they effect to us and how to fight them. Apart from diseases, we use evolutionary knowledge to understand how agricultural pesticides adapt. We know how to protect our crops from weeds by non-toxic way. In addition, genetically modified organism or GMO is an outcome of evolution. Thus evolution is a foundation of modern sciences i.e. genetic, biology, chemical and physic.

Charles Darwin is one of the most powerful scientists in the world. His theory has renovated the way the evolution was viewed at that time. It completely changed the way we understand in living things. The theory explains almost everything in the world especially the creation and the way organisms live. Evolution makes us know everything clearly in any fields of sciences. It is not only the knowledge for the expert, but also for everyone who is interested in how the world works. As you can see, evolution changes the way we live and makes the world better.