

Darwin's Theory of Evolution and Eugenics

Abhi Agarwal (abhi@nyu.edu)

Eugenics was born out an interpretation of the theory of evolution. Francis Galton, who was a half-cousin to Charles Darwin, desired to apply Darwin's theory that explained the development of plants and animals to humans. Darwin's work showed that evolution takes place through natural selection, and operates on a variety of traits and characteristics that influence ones survival and propagation of their species.

Galton found the idea of questioning natural selection and variability in humans intriguing and in particular he was mostly interested in differences between individuals in their mental traits. He was interested in examining variation in mental traits, and mental ability or as Galton saw it their "genius". Galton evaluated his hypothesis of mental abilities being inherited in his book Hereditary Genius, which provided evidence by looking at frequencies of "genius" in families and concluded that mental abilities did in fact run in families. In his introductory paper, *Inquiries into Human Faculty*, he defines eugenics in a footnote as the "science of improving stock, which is by no means confined to questions of judicious mating, but which, especially in the case of man, takes cognisance of all influences that tend in however remote a degree to give to the more suitable races or strains of blood a better chance of prevailing speedily over the less suitable than they otherwise would have had" ("*Inquiries Into Human Faculty and Its Development*", 24-25). In essence, Galton was interested in trying to improve the quality of our society by applying the principles of Darwinism to the human population.

Darwin's theory of evolution explains that species are altered by natural selection and it can be suggested that the same principles are applied to artificial selection, for example farmers select the best plants and the best animals to breed to get the best yield in the future. The natural thought leading that principle that Galton had is if artificial selection in plants and animals is being done then the same principles can be applied to humans. Eugenics in its purest form is improving the genetic quality of the human population by strictly allowing only a select portion of humans with the best traits to breed.

A couple passages from *The Descent of Man* can be interpreted as Darwin's acknowledgement of concepts similar to eugenics. Darwin suggests that "weak members of civilized societies propagate their kind" ("*Descent of Man*", 159), and it establishes that Darwin does believe in a society where the weaker members create weaker offspring. He follows with the idea that "hardly any one is so ignorant as to allow his worst animals to breed" ("*Descent of Man*", 159), which amplify the view that selection is important and it's our responsibility to always improve traits of our animals and plants and by extension our own race. In addition, in my opinion the most relevant opinion that Darwin expresses is "if we were intentionally to neglect the weak and helpless, it could only be for a contingent benefit, with a certain and great present evil" ("*Descent of Man*", 159). This resonates with eugenics in a sense that the weak are neglected, and left childless in order to not pass on their genetic material, and there is opposition that occurs because of this decision which presents itself as the evil as well as the act of leaving someone to die. Additionally, Darwin could be referring to the human population when he makes this statement as previously he refers to a surgeon operating on a patient right before the quotation. I don't think that he's particularly referring to selectively breeding individuals in this statement, but he's referring to intentionally neglecting people who are diseased or are prisoned. People who are diseased (quarantine) or prisoned (prison) are generally removed from society until

they fit into society again, which temporarily or permanently does not allow them to pass on their genetic material or if they have had children then further pass on their genetic material.

Moreover, the three quotations above do not particularly suggest Darwin's opinions on eugenics itself, but the ideas he suggested could have been used to inspire the idea or could have been used to initially spark the eugenics mentality.

Self-direction of human evolution. Darwinism could be seen as the identify of eugenics, and not the root of eugenics.

Man was still evolving, "I am fully convinced that species are not immutable" ("On the Origin of Species", 15).

Darwin's view on superior and inferior races.

Galton was not a biologist, but a statistician and so he looked at this idea or this problem from a mathematical point of view.

Darwin's influence on the elite shaped the way research, development, and progress was made in major nations such as the United States. The majority of individuals in the United States rejected Darwinism, however some of the leaders, intellectuals, scientists, and biologists believed in the theory and so it was applied in many scientific, economic, and intellectual discussions and proposals in the United States.

References

- [1] Darwin, Charles, and W. F. Bynum. *On the Origin of Species: By Means of Natural Selection or the Preservation of Favored Races in the Struggle for Life*. London: Penguin Classics, 2009. Print.

- [2] Galton, Francis. *Eugenics: Its Definition, Scope, and Aims*. The American Journal of Sociology 10.1 (1904): 1-25. The University of Chicago Press. Web. 11 Nov. 2014.
- [3] Galton, Francis. *Inquiries Into Human Faculty and Its Development*. Inquiries into Human Faculty and Its Development (1883): 24-25. Web.