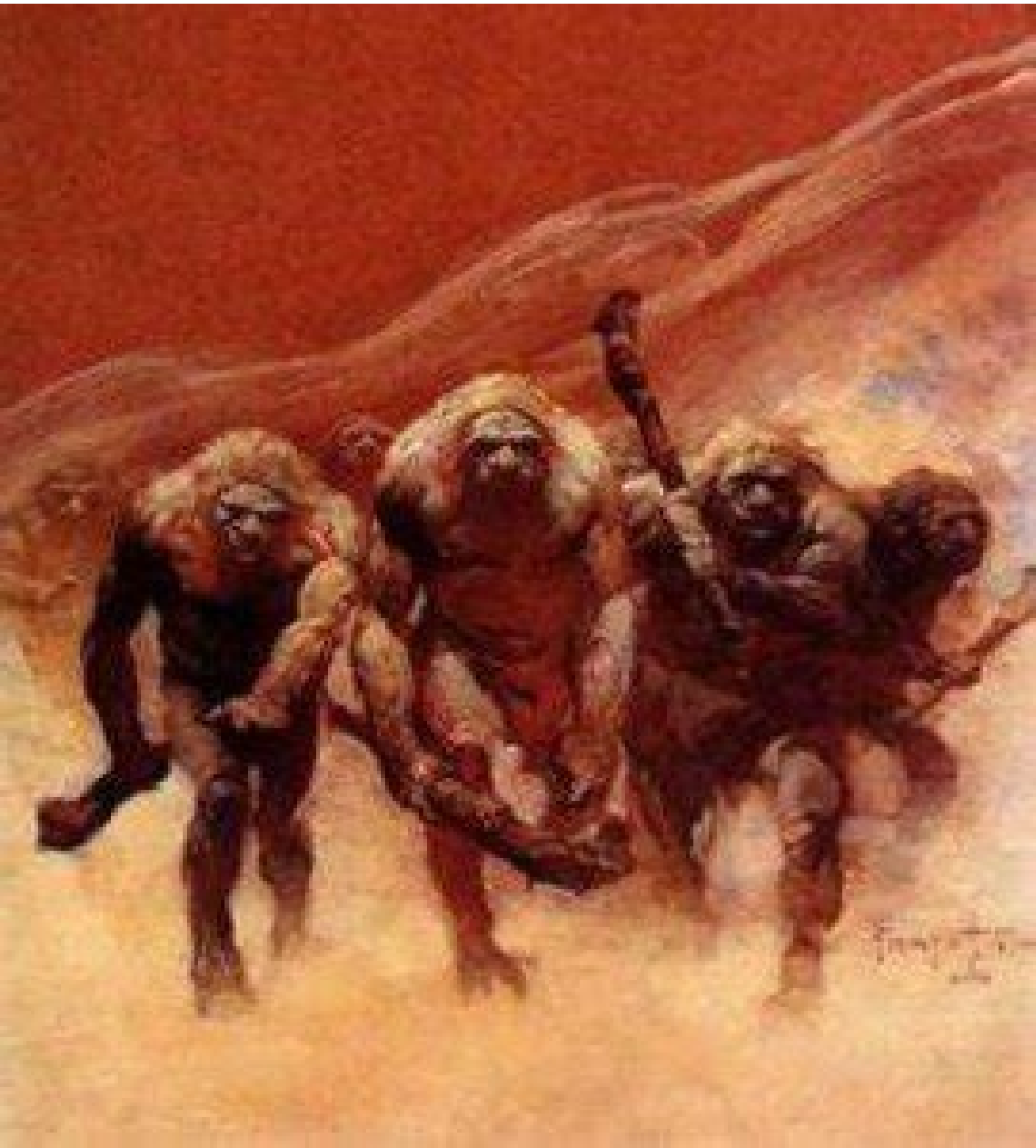


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### What are the Biblical Objections to Theistic Evolution



1. Destroys the integrity of Scripture
2. Denies that Adam was formed from the dust of the ground
3. Dismisses the historical Adam and the Fall
4. Defies the Law of "kind after kind"
5. Desecrates Jesus by relating Him genetically to a primate
6. Declares man to be more akin to a beast than to God



Theistic evolution catholic. Catholic answers theory of evolution. Catholic answers evolution.

How far is the theory of evolution based on observed facts? It is understood to be still only an hypothesis. The formation of new species is directly observed in but a few cases, and only with reference to such forms as are closely related to each other; for instance, the systematic species of the plant-genus *Oenothera*, and of the beetle-genus *Dinarda*. It is, however, not difficult to furnish an indirect proof of great probability for the genetic relation of many systematic species to each other and to fossil forms, as in the genetic development of the horse (Equidae), of ammonites, and of many insects, especially of those that dwell as "guests" with ants and termites, and have adapted themselves in many ways to their hosts. Upon comparing the scientific proofs for the probability of the theory of evolution, we find that they grow the more numerous and weighty, the smaller the circle of forms under consideration, but become weaker and weaker, if we include a greater number of forms, such as are comprised in a class or in a sub-kingdom. There is, in fact, no evidence whatever for the common genetic descent of all plants and animals from a single primitive organism. Hence the greater number of botanists and zoologists regard a polygenetic (poly-phyletic) evolution as much more acceptable than a monogenetic (monophyletic). At present, however, it is impossible to decide how many independent genetic series must be assumed in the animal and vegetable kingdoms. This is the gist of the theory of evolution as a scientific hypothesis. It is in perfect agreement with the Christian conception of the universe; for Scripture does not tell us in what form the present species of plants and of animals were originally created by God. As early as 1877 Knabenbauer stated "that there is no objection, so far as faith is concerned, to assuming the descent of all plant and animal species from a few types" (Stimmen aus Maria Laach, XIII, p. 72). Passing now to the theory of evolution as a philosophical speculation, the history of the plant and animal kingdoms upon our globe is but a small part of the history of the entire earth. Similarly, the geological development of our earth constitutes but a small part of the history of the solar system and of the universe. The theory of evolution as a philosophical conception considers the entire history of the cosmos as an harmonious development, brought about by natural laws. This conception is in agreement with the Christian view of the universe. God is the Creator of heaven and earth. If God produced the universe by a single creative act of His will, then its natural development by laws implanted in it by the Creator is to the greater glory of His Divine power and wisdom. St. Thomas says: "The potency of a cause is the greater, the more remote the effects to which it extends" (Summa c. Gent., III, c. lxxvii); and Suarez: "God does not interfere directly with the natural order, where secondary causes suffice to produce the intended effect" (De opere sex dierum, II, c. x, n. 13). In the light of this principle of the Christian interpretation of nature, the history of the animal and vegetable kingdoms on our planet is, as it were, a versicle in a volume of a million pages in which the natural development of the cosmos is described, and upon whose title-page is written: "In the beginning God created heaven and earth." (2) The theory of evolution just stated rests on a theistic foundation. In contradistinction to this is another theory resting on a materialistic and atheistic basis, the first principle of which is the denial of a personal Creator. This atheistic theory of evolution is ineffectual to account for the first beginning of the cosmos or for the law of its evolution, since it acknowledges neither creator nor lawgiver. Natural science, moreover, has proved that spontaneous generation—i.e. the independent genesis of a living being from non-living matter—contradicts the facts of observation. For this reason the theistic theory of evolution postulates an intervention on the part of the Creator in the production of the first organisms. When and how the first seeds of life were implanted in matter, we, indeed, do not know. The Christian theory of evolution also demands a creative act for the origin of the human soul, since the soul cannot have its origin in matter. The atheistic theory of evolution, on the contrary, rejects the assumption of a soul separate from matter, and thereby sinks into blank materialism. (3) Darwinism and the theory of evolution are by no means equivalent conceptions. The theory of evolution was propounded before Charles Darwin's time, by Lamarck (1809) and Geoffroy de Saint-Hilaire. Darwin, in 1859, gave it a new form by endeavoring to explain the origin of species by means of natural selection. According to this theory the breeding of new species depends on the survival of the fittest in the struggle for existence. The Darwinian theory of selection is Darwinism—adhering to the narrower, and accurate, sense of the word. As a theory, it is scientifically inadequate, since it does not account for the origin of attributes fitted to the purpose, which must be referred back to the interior, original causes of evolution. Haeckel, with other materialists, has enlarged this selection theory of Darwin's into a philosophical world-idea, by attempting to account for the whole evolution of the cosmos by means of the chance survival of the fittest. This theory is Darwinism in the secondary, and wider, sense of the word. It is that atheistical form of the theory of evolution which was shown above—under (2)—to be untenable. The third signification of the term Darwinism arose from the application of the theory of selection to man, which is likewise impossible of acceptance. In the fourth place, Darwinism frequently stands, in popular usage, for the theory of evolution in general. This use of the word rests on an evident confusion of ideas, and must therefore be set aside. To what extent is the theory of evolution applicable to man?—That God should have made use of natural, evolutionary, original causes in the production of man's body, is per se not improbable, and was propounded by St. Augustine (see St. Augustine of Hippo. under V. Augustinism in History). The actual proofs of the descent of man's body from animals is, however, inadequate, especially in respect to palaeontology. And the human soul could not have been derived through natural evolution from that of the brute, since it is of a spiritual nature; for which reason we must refer its origin to a creative act on the part of God. E. WASMAN. B. HISTORY AND SCIENTIFIC FOUNDATIONS.—The world of organisms comprises a great system of individual forms generally classified according to structural resemblances into kingdoms, classes, orders, families, genera, species. The species is considered as the unit of the system. It is designated by a double name, the first of which indicates the genus, e.g. *canis familiaris*, the dog, and *canis lupus*, the wolf. Comparing the species of the present day with their fossil representatives in the geological layers, we find that they differ from one another the more the farther we retrace the geological record. To explain this remarkable fact two theories have been proposed, the one maintaining the stability and special creation of species, the other the instability and evolution, or genetic relation, of species. As is plain from the preceding section of this article, the principal difference between the two theories consists in this: that the theory of evolution derives the species of today by a progressive development from one or more primitive types, whilst the theory of constancy insists upon the special creation of each true species. It is generally admitted that the determination of specific forms depends largely on the subjective views and experience of the naturalist. We shall here confine our attention to the history and scientific foundations of the biological theory of evolution, leaving all purely philosophical and theological discussions to others. The entire subject will here be divided into the following parts: I. HISTORY OF THE SCIENTIFIC THEORIES OF EVOLUTION; II. DEFINITION OF SPECIES; III. VARIABILITY AND EXPERIMENTAL FACTS RELATING TO THE EVOLUTION OF SPECIES; IV. THE PALIEONTOLOGICAL ARGUMENT; V. THE MORPHOLOGICAL ARGUMENT; VI. THE ONTOGENETIC ARGUMENT; VII. THE BIOGEOGRAPHICAL ARGUMENT. Before we begin, we wish to remind the reader of the important distinction brought out in the preceding essay, that the general theory referring to the mere fact of evolution must be well distinguished from all special theories which attempt to explain the assumed fact by ascribing it to certain causes, such as natural selection, the influence of environment, and the like. In other words, an evolutionist—that is, a defender of the general scientific theory of evolution—is not eo ipso a Darwinian, or a Lamarckian, or an adherent of any special evolutionary system. No less important are the other definitions and distinctions emphasized above under A. I. HISTORY OF THE SCIENTIFIC THEORIES OF EVOLUTION.—The historical development of the scientific theories of evolution may be divided into three periods. The main figure of the first period is Lamarck. The period ends with an almost complete victory of the theory of constancy (1830). The second period commences with Darwin's "Origin of Species" (1859). The idea of evolution, and in particular Darwin's theory of natural selection, enters into every department of the biological sciences and to a great extent transforms them. The third period is a time of critical reaction. Natural selection is generally considered as insufficient to explain the origin of new characters, while the ideas of Lamarck and G. Saint-Hilaire become prevalent. Besides, the theory of evolution is tested experimentally. Typical representatives of the period are Bateson, Hugo de Vries, Morgan. First Period.—Linnaeus based his important "Systema naturae" on the principle of the constancy and special creation of every species.—"Species tot numeramus quot diversae formae in principio sunt creatae" ("Philosophia botanica", Stockholm, 1751, p. 99). For, "contemplating the works of God, it is plain to every one that organisms produce offspring perfectly similar to the parents" ("Systema", Leipzig, 1748, p. 21). Linnaeus had a vast influence upon the naturalists of his time. Thus his principle of the constancy of species was universally acknowledged, and this all the more because it seemed to be connected with the first chapter of the Bible. Georges Louis Leclerc Buffon (1707-88), the "suggestive" author of the "Histoire naturelle generale et particuliere", was the first to dispute the Linnaean dogma on scientific grounds. Till 1761 he had defended the theory of constancy, but he then became an extreme evolutionist, and finally held that through the direct influence of environment species could undergo manifold modifications of structure. Similar views were expressed by the German Gottfried Reinhold Treviranus in his work "Biologie oder Philosophie der lebenden Natur" (1802), and by "the poet of evolution", J. W. Goethe (1749-1832). However, none of these men worked out the details of a definite theory. The same must be said of the grandfather of Charles Darwin, Erasmus Darwin (1731-1802), physician, poet, and naturalist, the first who seems to have anticipated Lamarck's main views. "All animals undergo transformations which are in part produced by their own exertions in response to pleasures and pains, and many of these acquired forms and propensities are transmitted to their posterity" (Zoonomia, 1794). Jean-Baptiste de Lamarck (b. 1744) was the scientific founder of the modern theory of evolution and its special form, known as Lamarckism. At the age of forty-nine Lamarck was elected professor of invertebrate zoology at the Jardin des Plantes (Paris). In 1819 he became completely blind, and died ten years later in great poverty and neglected by his contemporaries, socially and scientifically. The main ideas of his theory are contained in his "Philosophie zoologique" (1809) and his "Histoire des animaux sans vertebres" (1816-22). Lamarck disputes the immutability of specific characters, and denies that there is any objective criterion for determining, with any degree of accuracy, which forms ought to be considered as true species. Consequently, according to him, the name species has only a relative value. It refers to a collection of similar individuals "que la generation perpetue dans le meme etat tant que les circonstances de leur situation ne changent pas assez pour fair varier leurs habitudes, leur caractere et leur forme" (Phil. zool., I, p. 75). But how are species transformed into new species? As to plants, Lamarck believes that all changes of structure and function are due to the direct influence of environment. In animals the changed conditions of the environment first call forth new wants and new activities. New habits and instincts will be produced, and through use and disuse organs may be strengthened or weakened, newly adapted to the requirements of new functions, or made to disappear. The

[illegible]

by the length of the single arm, which, strangely enough, exhibit inverse proportions, but also in the interior structure of the bones, as was proved by Kalkhoff (1905) in the case of the femur. If we suppose the length of the body to be 100 we have, according to the following proportions: Part Gorilla Chimpanzee Orang Negro German Airm and hand 64.9 67.7 30.7 45.16 45.43 Leg 34.9 35.2 34.7 48.5 48.8 Special measurements taken from the skeletons of an adult Frenchman and an orang, represented in the accompanying plate, gave the following particulars: Humerus Radius Ulna Femur Tibia Man 28 cm. 22 cm. 25 cm. 47 cm. 37 cm. Orang 36 cm. 39.8 cm. 41 cm. 31 cm. 25 cm The sponge-like structure in the femur of man and anthropoid exhibits considerable difference, so that it could be established by means of radiograms whether the femur was that of an upright walking individual or not; e.g., it was possible to prove the Neandertal and Spy femora to be human. The foot of man is, moreover, very characteristic. It is not furnished with a thumb that can be bent across the whole member, and hence it does not represent a typical prehensile organ, as is the case with the hind feet of the monkey. In general, each bone and organ of man could in some sense be styled ape-like, but in no case does this similarity go so far that the form peculiar to man would pass over into the form which is peculiar to the ape. This conclusion is confirmed by the fact that, according to Ranke and Weisbach, all the efforts to discover a series of bodily formations which would lead from the most apelike savages to the least apelike Caucasians have till now resulted in utter failure, since the apelike forms of organs actually found in some individuals are not confined to a single race or nation, but are distributed throughout all of them. Tailed ape-men, in the proper sense of the word, have no existence. If sometimes taillike appendages occur, they are genuine deformities, pathological remnants of the individual's embryonic life. Cretins and microcephali are likewise pathological cases. The theory that such were the ancestors of the human species is certainly excluded by the fact that they are unable to procure independently the necessary means of existence. (3) "Blood Relationship" between Man and the Anthropoid.—In 1900 Friedental thought that he was able to prove the kinship of man and the anthropoid biochemically by showing, first, that the transfusion of human blood-serum into the chimpanzee was not followed by any signs of blood-poisoning, as usually happens on the introduction of foreign blood, and, secondly, that human serum did not produce a reaction when introduced into a solution of the blood of the orang and gibbon, while on the other hand it dissolved the blood corpuscles of the lower apes. A little later Nutall and others proved that anti-sera exercised an opposite effect. An "anti-man-serum" was prepared by injecting subcutaneously sterile human serum into a rabbit till the animal became immune to poisoning from the foreign blood-serum. The "antiman-serum" of rabbit-blood thus prepared gave a precipitate with the blood-serum of man or of an animal with chemically similar blood, for instance anthropoids, but not with the serum of chemically different blood. The force of the argument lies, therefore, in this, that the chemical reaction obtained seems to be on the whole proportional to the degree of their chemical affinity. What follows from these facts?—Only this, that the blood of man is chemically similar to that of the anthropoids; but it does not follow that this chemical similarity must be attributed to any kinship of race. The mistake arises from the confusion of the ideas "similarity of blood "and" blood-relationship" in the genealogical sense of the term; otherwise it would be at once perceived that the fact of chemical similarity of blood is of no more importance for the theory of evolution than any other fact of comparative morphology or physiology. (4) Rudimentary Organs.—One of the special arguments commonly cited in favor of the evolution theory is based on the frequent occurrence of rudimentary structures in organisms. As examples we may mention the following: Pythons and boas possess vestiges of hind legs and of a pelvis separated from the vertebral column.—The slow-worm is without external limbs, and yet possesses the shoulder-girdle and the pelvis, as well as a slightly developed breast-bone.—The ostrich has merely stunted wing-bones, while the nearly extinct kiwi (apteryx) of New Zealand has only extremely small stumps of wings, which are clothed with hair-like feathers.—The gigantic birds of New Zealand which became extinct in past ages were entirely wingless.—Well worthy of note, also, are the rudimentary organs of the whale (Cetacea), since of the hind limbs only a few minute bones remain, and these are considered to be the pelvic bones, while the Greenland whale (Balœna mysticetus) also possesses thigh and leg bones. The bones of the forelimbs are not movable independently of one another, being bound together by means of tendons.—Other remarkable vestigial structures are the teeth of the Arctic right whale, which never penetrate the gums and are reabsorbed before birth, the upper teeth of the ox, the milk teeth and the eyes of the mole. The deep sea fish, like the Barathronus, have instead of eyes "two golden metallic concave mirrors" (Chun).—Nor is man devoid of rudimentary organs. Wiedersheim mentions no fewer than one hundred. But of these only a few are genuine. The vermiform appendix may serve as an example, though according to recent research it is not entirely functionless. Its length oscillates between 2 cm. and 23 cm., while its breadth and external form vary exceedingly. Probable reasons for its partially rudimentary character are, besides its extreme variability. Especially two facts in particular: the length of the organ compared with that of the large intestine is as 1:10 in the embryo, and as 1:20 in the adult; secondly, in 32 per cent of all cases among adults of over twenty years of age the appendix is found to be closed. Do such rudimentary organs furnish us with an acceptable proof for the theory of evolution? It is to be admitted that in many instances the organs were formerly in a more perfect condition, so as to perform their typical functions—e.g., the eyes of the mole as organs of sight; and the limbs of the kiwi as means of locomotion for running or even for flying. Hence those individuals which now possess rudimentary organs are descended from ancestors which were in possession of these same organs in a less degenerated condition. But it cannot be ascertained from the structures whether those ancestors were of another kind than their offspring. The vermiform appendix in man is fully explained by supposing it to have had in antediluvian man a more perfect function of secretion, or even of digestion. Until the palaeontological records furnish us with more evidence we can only conclude from the occurrence of rudimentary structures that in former ages the whale possessed better developed limbs, that the moles had better eyes, the kiwi wings, etc. In short, rudimentary organs per se do not prove more than that structures may dwindle away by disuse. Haeckel's endeavor to invalidate the teleological argument has no foundation in fact. In many cases the function of rudimentary organs has been discovered—e.g., the rudimentary teeth of the whale are probably of use in the growth of the jaw; the breast-bone of the slow-worm as a protection of the chest. But even in instances in which we have not succeeded in discovering the function of such structures, it must not be forgotten that degeneration may be eminently teleological in furnishing material for other organs whose functions become more important. Moreover, as long as rudimentary organs remain, they may become, under altered circumstances, the starting point for an appropriately modified reorganization. It is indeed difficult to see how "dysteleology", as Haeckel calls it, follows from the fact that an organ adapted to specified means of livelihood disappears, probably in order to strengthen other organs when those means of livelihood are changed; and, until the contrary is proved, we may assume that we have to deal with instances of teleological adaptation and correlation, as has already been demonstrated in many cases—e.g., in the development of amphibians. VI. THE ONTOGENETIC ARGUMENT.—Comparisons between the embryos of higher forms and the adult stages of lower groups were made long before the evolution theory was generally accepted by biologists. But it was only after 1859 that the facts of embryology were interpreted by means of that theory. Fritz Muller (1864) was one of the first to advance the view that the ontogenetic development of an individual is a short and simplified repetition of the stages through which the species had passed. Haeckel modified the proposition by introducing the term "kenogenesis", which should account for all points of disagreement between the two series of development. In its new form the theory of recapitulation received the name "the biogenetic law of development". Later on Hertwig reformed the law a second time by changing the expression "repetition of forms of extinct ancestors", into "repetition of forms necessary for organic development and leading from the simple to the complex". Besides, considerable changes, generally in an advancing direction, are said to have been brought about by the action of external and internal factors, so that in reality "a later condition can never correspond to a preceding one". Both Haeckel's and Hertwig's views were rejected by Morgan, who does not believe in the recapitulation of ancestral adult stages by the embryo, but tries to show that the resemblance between the embryos of higher forms might be due to "the presence in the embryos of the lower groups of certain organs that remain in the adult forms of this group". According to Morgan, we are justified in comparing "the embryonic stages of the two groups" only—a theory which he calls "the repetition theory". Perhaps the most striking fact to illustrate the onto-genetic argument is the resemblance between the gill-system of fishes and certain analogous structures in the embryos of the other vertebrates, man included. However, contrary to the statements of most scientists, we do not think that the resemblance is such as to justify us in concluding "with complete certainty that all vertebrates must in the course of their history have passed through stages in which they were gill-breathing animals" (Wiedersheim). The embryos of fishes are at a certain very early stage of development furnished with vertical pouches which grow out from the wall of the pharynx till they fuse with the skin. Then a number of vertical clefts (gill-slits) are formed by the fact that the walls of the pouches separate. In the adult fishes the corresponding openings serve to let water pass from the mouth through the gill-slits, which are covered by the capillaries of the gill-filaments. In this way the animal is enabled to provide the blood with the necessary oxygen and to remove the carbon dioxide. Now it is quite true that in all vertebrates there is some resemblance as to the first formation of the pouches, the slits, and the distribution of blood-vessels. But it is only in fishes that real gill-structures are formed. In the other vertebrates the development does not proceed beyond the formation of the apparently indifferent pouches which never perform any respiratory function nor show the least tendency to develop into such organs. On the contrary, the gill-slits and arches seem to have, from the very beginning, a totally different function, actually subserving, at least in part, the formation of other organs. Even the amphibians that are furnished with temporary gills form them in quite a peculiar manner, which cannot be compared with that of fish-embryos. Besides, the distribution of blood-vessels and the gradual disappearance of seemingly useless structures, as the "gill-systems" of vertebrates seem to be, may likewise be observed in cases where no one would seriously suspect a relation to former specific characteristics. In short, there is (1) no evidence that the embryos of mammals and birds have true incipient gill-structures; (2) it is probable that the structures interpreted as such really subserve from the very beginning quite different functions, perhaps only of a temporary nature. In general it may be said that the biogenetic law of development is as yet scarcely more than a petitio principii. Because (1) the agreement between ontogeny and phylogeny has not been proved in a single instance; on the contrary—e.g., the famous pedigree of the horse's foot begins ontogenetically with a single digit; (2) the ontogenetic similarity which may be observed, for instance, in the larval stages of insects may be explained by the similarity of the environment; (3) the ontogenetic stages of organisms are throughout specifically dissimilar, as is proved by a careful concrete comparison. The same conclusion is indicated by Hertwig's and Morgan's modifications of the biogenetic law, which, in turn, are of a merely hypothetical nature. In addition to this a short reference to Weismann's "confirmation" of Haeckel's law may be useful. Weismann knew that in the larval development of certain butterflies transverse stripes were preceded by longitudinal ones. Hence he concluded that in certain similar butterflies, whose early larval stages were then unknown, a similar succession of markings ought to be found. Ten years later the "predicted" marking was discovered. It is plain that such facts are no confirmation of the biogenetic law, but find their simple explanation in the fact that similar organisms will show similar ontogenetic stages. This fact, too, seems to account sufficiently for the observations advanced by Morgan in support of his theory of repetition. VII. THE BIOGEOGRAPHICAL ARGUMENT.—The biogeographical argument is a very complex one, composed of a vast number of single facts whose correlation among one another, and whose bearing upon the problem of evolution, can hardly be determined before many years of detailed research have gone by. The theories established, for instance, by Wallace are certainly not sufficiently supported by facts. On the contrary, they have serious defects. One of them is the well-known "Wallace line"; another, much more important, the unfounded assertion that the higher vertebrates must have originated from marsupials and monotremes because these animals are almost entirely extinct in all countries except in isolated Australia, where they survive, as the highest representatives of the Australian vertebrates, in greatly varying forms till today. Besides, in most cases we have no sufficient knowledge of the geographical distribution of organisms and of its various causes. But in order to give the reader an idea of the argument, we shall briefly refer him to a group of facts which is well adapted to support the view of evolution explained in the preceding pages. Volcanic islands and such as are separated from the continent by a sea or strait of great depth exhibit a fauna and flora which have certainly come from the neighboring continents, but which at the same time possess features altogether peculiar to them. The flora of Socotra, in the Indian Ocean, for instance, comprises 565 systematic species; among these there are 206 endemic ones. Similarly, on Madagascar there are 3000 endemic plant-species among 4100; on the Hawaiian Islands, 70 endemic species of birds among 116; on the Galapagos, 84 among 108. Many such facts are known. They certainly form an excellent demonstration in favor of the proposition defended throughout this article: that such forms as the endemic species, which may well be compared with the races of the human species, were not directly created, but arose by some process of modification which was greatly facilitated by their complete isolation. The most important GENERAL CONCLUSIONS to be noted are as follows: 1. The origin of life is unknown to science. 2. The origin of the main organic types and their principal subdivisions are likewise unknown to science. 3. There is no evidence in favor of an ascending evolution of organic forms. 4. There is no trace of even a merely probable argument in favor of the animal origin of man. The earliest human fossils and the most ancient traces of culture refer to a true Homo sapiens as we know him today. 5. Most of the so-called systematic species and genera were certainly not created as such, but originated by a process of either gradual or saltatory evolution. Changes which extend beyond the range of variation observed in the human species have thus far not been strictly demonstrated, either experimentally or historically. 6. There is very little known as to the causes of evolution. The greatest difficulty is to explain the origin and constancy of "new" characters and the teleology of the process. Darwin's "natural selection" is a negative factor only. The moulding influence of the environment cannot be doubted, but at present we are unable to ascertain how far that influence may extend. Lamarck's "inheritance of acquired characters" is not yet exactly proved, nor is it evident that really new forms can arise by "mutation". In our opinion the principal of "Mendelian segregation", together with Darwin's natural selection and the moulding influence of environment, will probably be some of the chief constituents of future evolutionary theories. H. MUCKERMANN Catholic Answers is pleased to provide this unabridged entry from the original Catholic Encyclopedia, published between 1907 and 1912. It is a valuable resource for subjects related to theology, philosophy, history, culture, and more. Like most works that are more than a century old, though, it may occasionally use anachronistic language or present outdated scientific information. Accordingly, in offering this resource Catholic Answers does not thereby endorse every assertion or phrase in it.

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