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The Origin of Species

been nearly impossible to take or Magazine for the past three of vithout meeting at the first g It has take upa Review or Mag months without four with some notice of this sut he new volume issued by vin of London, a man of glance subject, grounded upon by Prof. Charles Dar-of 'long standing and minence,' as even his upon the new volu win of Lon well earned London, a man of tone,' as ned scientific eminence,' as went earned scientific eminence, as even his most incredulous critics confess, who has just broached a theory, to quote from his title page, of 'the Origin of Species by means of Natural Selection; or the preservation of favored Ra-ces in the Struggle for Life." We by no means propose to enter upon any discussion of a question involving such profuse expenditure of language, especially in the has just to quote from his title page,

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propose to enter upon any on involving such profuse guage, especially in the profuse in the expenditure midst of the of Innguage, espec Dog-days, but it see ers, that we should a ust of the to our readers, that we should at least give them at least a bint of what all the learned world are just now, more than anything else, puzzling themselves about, and, in the present instance, we find the means of doing so preems almost due find the means of ir hand in a contri instruct of Science pared at American the last Journal for Prof month, by Parsons of Cambridge.

The article is one that repays which its ch We the ar and attractive style can make but brief an will com clear and mand. scarcely pe, as to satisfactory extracts, yet such we hop satisfy in some measure the curiosity reader unacquainted with the discussi atisfactory hope, as sity of t discussion thus

far carried on. In the first In the first of the following paragraphs Prof. P: refers to the novelty of Darwin's Theory, and hazards the opinion that it will at length in some measure be generally adopted; in the second he gives a concise but fair idea of the position Darwin has taken: 'It has frequently occurred in the history

' It has frequently of science that some occurred in history ling theory, which regarded as the an startling which, when first announced, was regardless tagonist of received opinions, and became at earnest hostility as well ation, has, after much d subject of once the unqualified approbation, has, after muc cussion, been importantly qualified and much dis modithus reconciled d with views and when th fied, and which it med to contradict : thus of its excess and moderated in its demands, has been generally adopted as an important addi-tion to knowledge. It may yet be so with Mr. Darwin's views. 'His theory, stated very briefly, is that all organisms tend to reproduce themselves in a

organisms tend to reproduce geometrical ratio, and with a ometrical ratio, and with such exuberance life, that each one would speedily fill the rth, if not repressed by constant and power-l causes of destruction. Hence but a very exuberance of the earth, ful causes seeds or which are small small proportion of seeds or ova which are impregnated are able to mature and reproduce. Therefore there must be competition, or as he phrases it, a 'struggle for life,' among all these impregnated germs of life; and if one in a hundred only lives there must be a reason why that one lives rather than the ninety and nine which perish. This reason must again be frequently, or at least sometimes, that it had some advantage in this 'struggle for life,' by proportion OVB of anu again L tit had least sometimes, for life,' by That is, advantage this struggle some functional difference. ts kindred in such w a structural of of th such wise that it varied from its l in it to live, to grow, to ce, than for them.— tion it must, as a gen-offspring. When it was somewhat easier fo mature, and This difference to reproduce, than co la 10 variation the same law of , and of death, to impart became established, the same law of advantage, of life, and of death erate upon this new and improved of struggle, h, would opa ty op variety,and would cause another and a fariher ment. As this law is universal, fo th farther improve and mus must ment. operated upon all sų always have organisms from beginning, not the are lished in 80 da become and so and no familie e may suppose that all arth, living and extin the organ-nct, animal oue have proceeded from the sim-nal form of life.' other hand American pu thus finally isms of the and vegetable pr G plest original

Agassiz can scar e Darwin's theory journal contains a On the othe bring himself t scarcely ory with argue to patience. long same and power verful review of it. of it, in which he contro reasoning con. The following extract from Prof. A. jectures

and powerful review of it, in which he contro-verts Mr. Darwin's facts, reasoning and con-jectures. The following extract from Prof. A. will suffice as an example : The fallacy of Mr. Darwin's theory of the origin of species by means of natural selection, may be traced in the first few pages of his book, where he overlooks the difference be-tween the voluntary and deliberate acts of se-lection applied methodically by man to the breeding of domesticated animals and the growing of cultivated plants, and the chance in the state of nature. To call these influen-ces 'natural selection.' is a misnomer which will not alter the conditions under which they may produce the desired results. Selection in the state of nature, is powers to which Darwin refers the order of species, can design nothing. Selection is no doubt the essential principle on which the raising of breeds is founded, and the subject of breeds is presented in its trae-light by Mr. Darwin ; but this process of rais-ing breeds by the selection of favorable sub-jects, is in no way similar to that which regu-lates specific differences. Nothing is more remote from the truth than the attempted parallelism between the breeds of domesticated animals and the species of wild ones. Did there exist such a parellelism, as Darwin maintains, the difference among the domestica-ted breeds should be skin to the differences among wild species, and afford a olue to deter-mine their relative degree of affinity by a comparison with the pedigrees of well known domesticated races. Again, if there were any such parellelism, the distinctive characteristics of different breeds should be skin to the differ-ences which exist between fossil species of artier periods and those of the same genera-tor which means therefore be distinctly bated that Mr. Darwin thas failed to establish a connection between them : for the simple reason whatever between them : for the simple reason whatever between them : for the stable to establish a connection between the mode of raising dowhic ۱b fir ne ca

new creatures; say, if you please, a hundred or a thousand, and consider this as proved and admitted. Still it leaves wholly untouched the question how these parts admitted. Still it leaves wholly unfourned the question how these new creatures were created. And be the answer what it may, that answer so far as it is only an answer to this question, leaves the assertion of Agassiz untouched.— But if we bring to the question, how were these creatures created? the possibility of abberant variation of offspring in the direction of improvement, we bring to it one answer.— For example, suppose the time to have come these creatures created? the possibility of abberant variation of offspring in the direction of improvement, we bring to it one answer.— For example : suppose the time to have come when there is to be a new creation, and it is to be a dog, or rather two dogs, which will be the parents of all dogs. How shall they be crea-ied? We may say of this either of five things. One is, that we do not know, and never can know, and had better not inquire. This does not seem any answer. A second is, that they will be created ' by chance.' This also seems to me no answer, because chance is a word only, and not a thing. A third is, that they will be created at once and out of nothing, by the absolute will of a creator. This answer does not satisfy me much better. The fourth is, that they will be so created by absolute flat, out ot a proper quantity of earth and water, with the necessary chemical elements in doe proportion, which had been summoned to meet together in a proper place by the will of the Creator for that purposes. But this answer does not recommend itself to my reason mach more than the others. The fifth is, he will be created by some influence of variation acting upon the ovum (before or at conception, or during its uterine nutriment) of some animal nearest akin — a wolf, a tox, a byens, or a jaekal; and the brood will come forth puppies and grow up dogs to produce dogs. Now the upon the ovum (before or at conception, or during its uterine nutriment) of some animal nearest akin — a wolf, a tox, a byens, or a jackal; and the brood will come forth puppies and grow up dogs to produce dogs. Now the question is not whether this last answer offers a probability per se, but whether it is not after all less improbable than either of the other suppositions; less unphilosophical than either of the other answers, and therefore to be ac-cepted on that ground; and I may say in passing, that if the present favorite theory for accounting for the diversities of our domestic dogs, by referring them to four different ori-gins, be adopted, we may then conjecture that each of the lour animals above named brought forth its own puppies, to be the progenitors of their respective families. Let this doctriee of the new creation of new species by generative development through va-riation be accepted, and we have Darwin's theory of the origin of species by successive generation; and instead of opposing the theory of Agassiz it confirms it; because it adopts and reasserts the principle of new creations, and offers some explanation of the way in which they were made. a probability per se, but whether it is not after all less improbable than either of the other

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and offers some explanation of the way in which they were made.' As to the religious bearings of the question, Prof. Parson's conclusion will be read with

with greater interest : 'The poet ma

greater interest: 'The poet may say that the undevout as-tronomer is mad; but astronomy and every science cultivated among men, has those who are devoted to it with the most faithful assidu-ity, and who extend its borders and 'enlighten its dark places, and who are, nevertheless, utter unbelievers as to God and religion; and find in their science support for their unbelief. To minister to religion is the highest, the consum-mating work of science; but science cannot render this service where there is no religion to accept it. So will it be with the theory of the creation of all things by successive genera-tive and variant production, if it be established in any form whatever.

the creation of all things by successive genera-tive and variant production, if it be established in any form whatever. This man will read it to whom the idea of God is an offense and a pain. His unbelief-holds him in subjection; and when he read-any book, or studies any subject, he reads with clouded eye and mind all that favors religious truth, but brightens at once when he gets a fact or an argument for his unbelief, and dwells on that as a choice morsel. He will study this new theory, and find in it new evidence that God is a mere superfluity; and he will say exultingly, now we have proof that the laws of the world and their own necessity are all that a truly rational mind can ask. And he will deny, or forget, that there is no possible conception which so imperatively demands a lawgiver, as law; and none which so requires a cause to set it in action as an active necessi-ty.

Another man who loves to believe that God forms and fills and is the universe, and that forms and fills and is the universe, and that there is no other God, will find here abundant support for his opinion, and will rejoice in the evidence this theory affords of the universality of law and the connection of all things by gra-dation into unity. And he will forget, or will not know, that all this implies design, and purpose, and will, and therefore personality. And a third man will see in this theory new proof of the eternal workings of the personal God in whom he believes. He will rejoice at the evidence it offers that God loves to bless every entity of his creation by using it as his own instrument and as the means for farther creation; that preservation is continual crea-tion; and that he forever puts forth the same power, born of the same love and guided by the same wisdom, that in the beginning laid the foundation of the universe deep in that in-finite which no plummet of human imagination 1 GAL the foundation of the universe deep in that in-finite which no plummet of human imagination can ever sound. To such a mind it will be a new proof, that from God's own nature, there came forth laws of order, in which, through which, and by which, he has ever worked, from a beginning which when we try to think of it recedes faster than thought can follow.' [Country Gentleman.