



Sources of the following article:

<http://creationontheweb.com/content/view/387>

<http://creation.com/muddy-waters>

First published: *Creation* **23**(3):26-29, June 2001

Muddy Waters

Clarifying the confusion about natural selection

by *Carl Wieland*

'Natural selection' is often referred to as 'survival of the fittest' or, more recently, 'reproduction of the fittest'. Many people are confused about it, thinking that evidence for natural selection is automatically evidence for the idea that molecules turned into microbes, which became millipedes, magnolias and managing directors. Most presentations of evolution add to the confusion by conveniently failing to point out that even according to evolutionary theory, this cannot be true; natural selection by itself makes no new things.

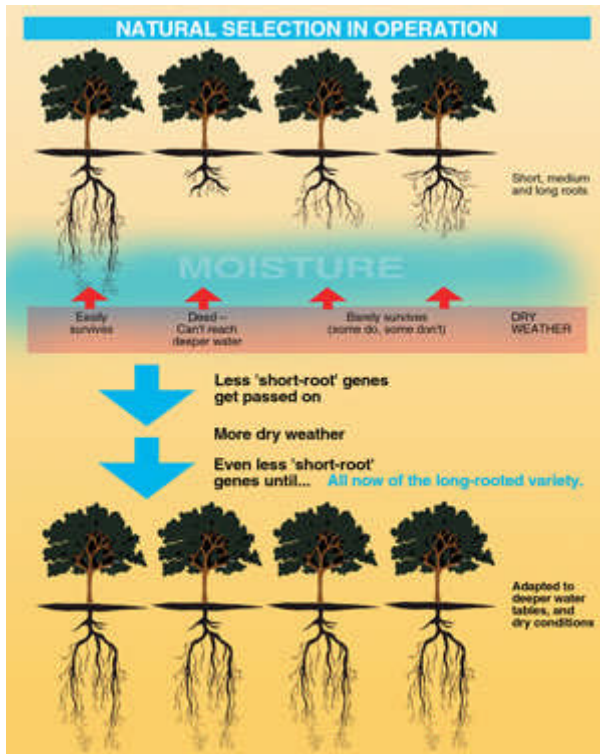
Darwin the plagiarist?

Natural selection is really a very straight-forward, commonsense insight. A creationist, the chemist/zoologist Edward Blyth (1810–1873), wrote about it in 1835–7, before Darwin, who very likely borrowed the idea from Blyth.¹ An organism may possess some inheritable trait or character which, in a given environment, gives that organism a greater chance of passing on all of its genes to the next generation (compared with those of its fellows which don't have it). Over succeeding generations that trait or character has a good chance of becoming more widespread in that population. Such an improved chance of reproductive success (i.e. having offspring) might be obtained in several ways:

- ▶ **A greater chance of survival.** I.e. the organism is 'more fit to survive'. This is what 'survival of the fittest' means, by the way; it does not necessarily refer to physical fitness as commonly understood. If you are more (or less) likely to survive, you are correspondingly more (or less) likely to have offspring, and thus to pass your genes on. For instance, genes for longer hair will improve an animal's chances of surviving in a cold climate. Genes for white colouring will improve the camouflage of a bear in a snowy wilderness (camouflage does not just help an animal avoid being caught and eaten; it can also help a predator to sneak up on prey). By thus being more likely to avoid starvation, a lighter-coloured bear is more likely to be around to pass its lighter colouring on to the next generation.
- ▶ **A greater chance of finding a mate.** If the females of a fish species habitually prefer mates with longer tails, then male fish with genes for longer tails will have more chance of reproducing, on average, so that their genes (which include those for long tails) have more chance of getting copied. The long-tail genes (and thus the long-tail variety) will therefore become more common in that population.
- ▶ **Any other way of enhancing reproductive success.** Consider a plant species, the seeds of which are dispersed by wind. If it has genes which give its seeds a shape that confers on them slightly better aerodynamic 'lift' than the seeds of its fellows, then the genes for that particular trait (and thus the trait itself) will be favoured, i.e. 'selected' in this 'natural' way, hence the term. Conversely, if that plant species happens to be on a small island, seeds which travel far are going to be more likely to be 'lost at sea'. Hence genes which give less 'lift' will be favoured. Presuming that genes for both short-distance and long-distance seed air travel were available,

this simple effect would ensure that all the members of an island population of such plants would eventually produce only 'short-flight' seeds; genes for 'long-flight' seeds would have been eliminated.

Adaptation



In such a way, creatures can become more adapted (better suited) to the environment in which they find themselves. Say a population of plants has a mix of genes for the length of its roots. Expose that population over generations to repeated spells of very dry weather, and the plants most likely to survive are the ones which have longer roots to get down to deeper water tables. Thus, the genes for shorter roots are less likely to get passed on (see [diagram](#) above). In time, none of these plants will any longer have genes for short roots, so they will be of the 'long root' type. They are now better adapted to dry conditions than their forebears were.

Darwin's belief

This adaptation, really a 'fine-tuning to the environment', was seen by Darwin to be a process which was essentially creative, and virtually without limits. If 'new' varieties could arise in a short time to suit their environment, then given enough time, any number of new characteristics, to the extent of totally new creatures, could appear. This was how, he believed, lungs originally arose in a lungless world, and feathers in a featherless one. Darwin did not know how heredity really works, but people today should know better. He did not know, for instance, that what is passed on in reproduction is essentially a whole lot of parcels of *information* (genes), or coded instructions.

*It cannot be stressed enough that what natural selection actually does is get rid of information. It is not capable of creating anything new, by definition. In the above example, the plants became better able to survive dry weather because of the *elimination* of certain genes; i.e. they lost a portion of the information which their ancestors had. The information for the longer roots was already in the parent population; natural selection caused nothing new to arise in, or be added to, the population.*

The price paid for adaptation, or specialization, is always the *permanent loss* of some of the information in that group of organisms. If the environment were changed back so that shorter roots were the only way for plants to survive, the information for these would not magically 'reappear'; the population would no longer be able to adapt in this direction. The only way for a short-rooted variety to arise as an adaptation to the environment would be if things began once more with the 'mixed' or 'mongrel' parent

population, in which both types of genes were present.

Built-in limits to variation



In such an information-losing process, there is automatically a limit to variation, as gene pools cannot keep on losing their information indefinitely.

This can be seen in breeding, which is just another version of (in this case, artificial) selection—the principle is exactly the same as natural selection. Take horses. People have been able to breed all sorts of varieties from wild horses—big working horses, miniature toy ponies, and so on. But limits are soon reached, because selection can only work on what is already there. You can breed for horse varieties with white coats, brown coats and so forth, but no amount of breeding selection will ever generate a green-haired horse variety—the information for green hair does not exist in the horse population.

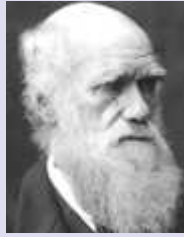
Limits to variation also come about because each of the varieties of horse carries less information than the 'wild' type from which it descended. Common sense confirms that you cannot start with little Shetland ponies and try to select for Clydesdale draft horses—the information just isn't there anymore! The greater the specialization (or 'adaptation', in this case to the demands of the human breeder, who represents the 'environment'), the more one can be sure that the gene pool has been extensively 'thinned out' or depleted, and the less future variation is possible starting from such stock.

These obvious, logical facts make it clear that natural selection is a far cry from the creative, 'uphill', limitless process imagined by Darwin (and many of today's lay-folk, beguiled by sloppy public education).

Evolutionist theoreticians know this, of course. They know that they must rely on some other process to create the required new information, because the evolution story demands it. Once upon a time, it says, there was a world of living creatures with no lungs. Then the information for lungs somehow arose, but feathers were nowhere in the world—later these arose too. But the bottom line is that natural selection, by itself, is powerless to create. It is a process of 'culling', of choosing between several things *which must first be in existence*.

Natural election

TFE GRAPHICS



In 1872, an attempt was made to elect Charles Darwin (*left*) to the prestigious Zoological Section of the French Institute, but this failed because he received only 15 out of 48 votes. A prominent member of the Academy gave the reason as follows:

'What has closed the doors of the Academy to Mr. Darwin is that the science of those of his books which have made his chief title to fame—the "Origin of Species," and still more the "Descent of Man," is not science, but a mass of assertions and absolutely gratuitous hypotheses, often evidently fallacious. This kind of publication and these theories are a bad example, which a body that respects itself cannot encourage.'¹

However, later on 5 August 1878, Darwin was elected a Corresponding Member in the Botanical Section of the same French Institute. Darwin wrote to Asa Gray as follows:

'It is rather a good joke that I should be elected in the Botanical Section, as the extent of my knowledge is little more than that a daisy is a Compositous plant and a pea is a Leguminous one.'²

References

1. From *Life and Letters of Charles Darwin*, D. Appleton and Co., London, **2**:400, footnote, 1911.
2. Ref. 1, p. 401.

How do evolutionists explain new information?

Since natural selection can only cull, today's evolutionary theorists rely on *mutations* (random copying mistakes in the reproductive process) to create the raw material on which natural selection can then operate. But that is a separate issue. It has been shown convincingly that observed mutations do *not* add information, and that mutation is seriously hampered on theoretical grounds in this area.² One of the world's leading information scientists, Dr Werner Gitt from Germany's Federal Institute of Physics and Technology in Braunschweig, says, 'There is no known natural law through which matter can give rise to information, neither is any physical process or material phenomenon known that can do this.'³ His challenge to scientifically falsify this statement has remained unanswered since first published. Even those mutations which give a survival benefit are seen to be losses of information, not creating the sorely needed new material upon which natural selection can then go to work.⁴ (See '**Blindingly obvious?**')

In summary:

1. Natural selection adds no information, in fact it reduces it.
2. Evolution requires a way to add new information.
3. Mutations (genetic copying mistakes) must be invoked to explain how new information arose in order for natural selection to 'guide' the assumed evolutionary process.
4. Mutations studied to date all appear to be losses of information—not surprising for a random process.
5. It is thus quite illegitimate to use instances in which natural selection is happening (reducing the information in populations) as examples of 'evolution happening'.
6. Natural selection, operating on the created information in the original gene pools, makes good

sense in a fallen world. It can fine-tune the way in which organisms 'fit' their environment, and help stave off extinction in a cursed, dying world. By 'splitting' a large gene pool into smaller ones, it can add to the amount of observed variety within the descendants of an original kind, just as with the many varieties of horse from one type. Even new 'species' can come about like that, but no new information. This helps to explain greater diversity today than on board the Ark.

Perhaps if evolution's 'true believers' really had convincing evidence of a creative process, they would not feel obliged to muddy the waters so often by presenting this 'downhill' process (natural selection) as if it demonstrated their belief in the ultimate 'uphill' climb—molecules-to-man evolution.

We need to tell this increasingly educated world how the facts about biological change connect to the real history of the world from the Bible, to help them understand and believe the Gospel message that is firmly based upon this real history.

Photo by David Cook



Blindingly obvious?

A CMI speaker visiting a cave in Australia was told by the guide about a blind shrimp which, in that lightless environment, had 'evolved the ability not to see'. (!)

Obviously, a mutation (genetic copying mistake) causing blindness in a shrimp living in the light would normally hinder its ability to survive. However, it would not be a handicap where there was no light, and as a side benefit, the shrimp would not be susceptible to eye infections like its still-seeing relatives.

This slight advantage is enough to ensure that, after a few dozens of generations, all the shrimps will carry the defective gene, and thus will all be blind. They have not in fact evolved any abilities, they have lost one.

A loss can be a survival advantage, but it is still a loss. The evolutionary belief demands that massive amounts of new information have arisen over time; showing how information is lost or corrupted can scarcely be said to support this belief.

Further reading

Natural Selection Q&A

References

1. Taylor, I., *In the Minds of Men*, TFE Publishing, Toronto, Canada, pp. 125–133, 1984. [Return to text.](#)

2. ***From a Frog to a Prince*** video, produced by *Keziah*. See also Spetner, L.S., ***Not by chance!***, The Judaica Press Inc., New York, 1998. **[Return to text.](#)**
3. **Gitt, W.**, ***In the beginning was information***, Christliche Literatur-Verbreitung, Germany, p. 79, 1997. **[Return to text.](#)**
4. **Wieland, C.**, ***Beetle bloopers***, *Creation* **19**(3):30, 1997. **[Return to text.](#)**

(Available in **Polish**)

© *Creation Ministries International*—formerly Answers in Genesis® in Australia/NZ/Canada/South Africa