

WELL DESIGNED!



THE SALVIA

SALVIAS are a genus of plants with almost 1000 species, including shrubs, and perennial and annual flowers. Plants need to be pollinated, and salvia flowers (right) are usually pollinated by bees, but sometimes also by humming-birds. Salvias have a unique mechanism to transfer pollen to the pollinator.



By Gideon Pisanty: Wikipedia

Without this special mechanism salvias wouldn't be pollinated. Can evolution explain it's origin by small gradual steps? Surely it all needed to be working from the beginning, so that both flowers and pollinators worked together effectively.

All that we know about mechanisms tells us that they need a *mechanic* or designer, and do not originate by chance. We believe that the salvia's lever mechanism points to intelligent design, not mindless evolution, and that God the Creator should be given credit for its unique design.

*Watch it happening at <https://tinyurl.com/ycuk3bvww>

NATURE'S HIDDEN BEAUTY ANSWERS

1. Deep-sea photo-plankton.
2. Leaf cells of moss.
3. Sand creatures,
4. Sunset moth wing scales.
5. Radolara (sea).
6. Green Algae.

When the pollinator enters the flower, a special lever mechanism causes the male stamens to bend down, dusting the bee or hummingbird with pollen. This is then taken to another flower, where it is transferred, allowing cross-pollination. A closer look at the inside of the flower reveals that each stamen has a hinge, rather like a see-saw, which activates when the pollinator enters the flower.*



A bee pollinating a salvia flower. Note the lever mechanism (arrowed)

CAN WE BELIEVE IN AN INVISIBLE GOD?

The 'invisible world' is only invisible to the unaided human eye. Powerful microscopes have revealed wonders which previous generations could never have imagined.

The more we magnify the natural world the more astounding it appears to be. In this issue we have explored some of the wonders of the cell (right), and the amazing molecular machines and software which make life possible. We have argued that such amazing complexity in miniature could never have originated by chance evolutionary processes anymore than the machines and software many of us use daily.

Most of us have never seen a cell or its inner workings, but we believe the word of those who have seen it, and marvel.

In truth, we all believe in many things we can't see, but we can often feel or see the effects of invisible things, e.g. television pictures, which come to us on invisible waves that are converted into images by our TV set. We also use electricity, although it is invisible.

Many people find it difficult to believe in God, because He is invisible. Yet millions of Christians around the world would testify that He exists because they feel His presence and power in their lives. However, God *has* made Himself visible! 2,000 years ago Jesus Christ was born, and the Bible describes Him as "the image of the invisible God." (*Colossians 1: 15*). Jesus told His followers that if they had seen Him then they had seen God (*John 14: 9*). He came to make it possible for us to know the invisible God by dying on the cross to pay for the sin which separates us from Him. If we admit our need of forgiveness and turn to Him in faith, we can really know God — the powerful Creator of all things, seen and unseen — as our Friend, and because of Jesus' resurrection, live with Him for ever.



By Rorrobdeb: Wikipedia



SMILE

- 1st Man: What's your dog's name?
 2nd Man: "Four miles."
 1st Man: "Why call him that?"
 2nd. Man: So that I can say I walk four miles every day.

Did you hear about the two silk worms who had a race? It ended in a tie!

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The REAL SCIENCE paper!



No. 87

INSIDE:

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- The amazing Cell Factory
- More complex than New York City!
- A Bible-believing Biochemist
- Nature's Hidden Beauty
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- Can we believe in an invisible God?

THE INVISIBLE WORLD points to creation!

DNA is an information-storage system so tiny that it can only be seen through a powerful electron microscope, yet it far exceeds any system designed by humans.



According to *Science Magazine*¹ the DNA system could, in principle, store all the world's data in one room, and every bit of data ever recorded by humans in a container about the size and weight of a couple of pickup trucks! If the amount of information that could be contained in a pinhead volume of DNA were written into paperback books, it would make a pile of books 500 times higher than the distance from earth to the moon! Could such a microscopic storage system originate naturally without intelligence? There is no evidence that it did or even could.

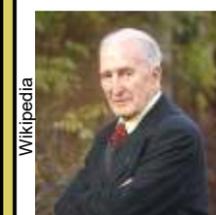
1. sciencemag.org/news/2017/03



THE 'UNBELIEVABLE COMPLEXITY' OF DNA

According to Bill Gates (right), founder of *Microsoft*, "DNA is like a software program, only much more complex than anything we've ever devised."

Bill Gates probably knows more about software than anyone else, but you don't have to be a genius to understand that software could never originate by chance, random processes. It was the "unbelievable complexity" of

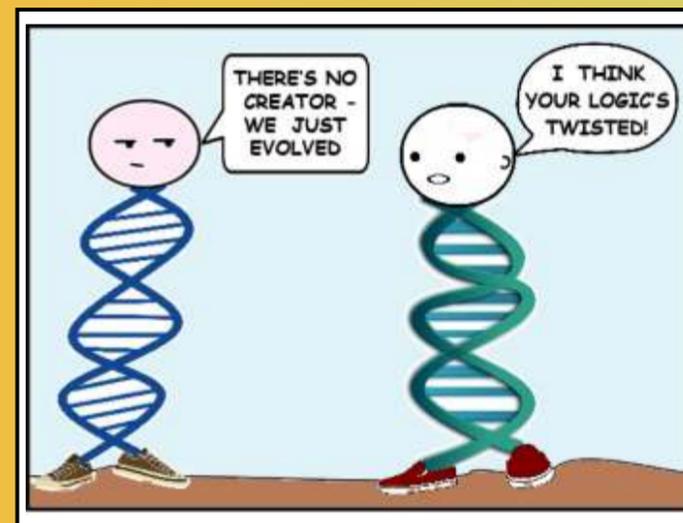


DNA that convinced the late Professor Antony Flew (left) to abandon 65 years of atheism. He wrote "intelligence must have been involved in getting these extraordinarily diverse elements to work together."¹

1. *There is a God*, Harper, 2007

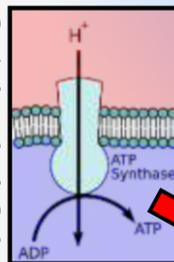


Simon Davis/DFID



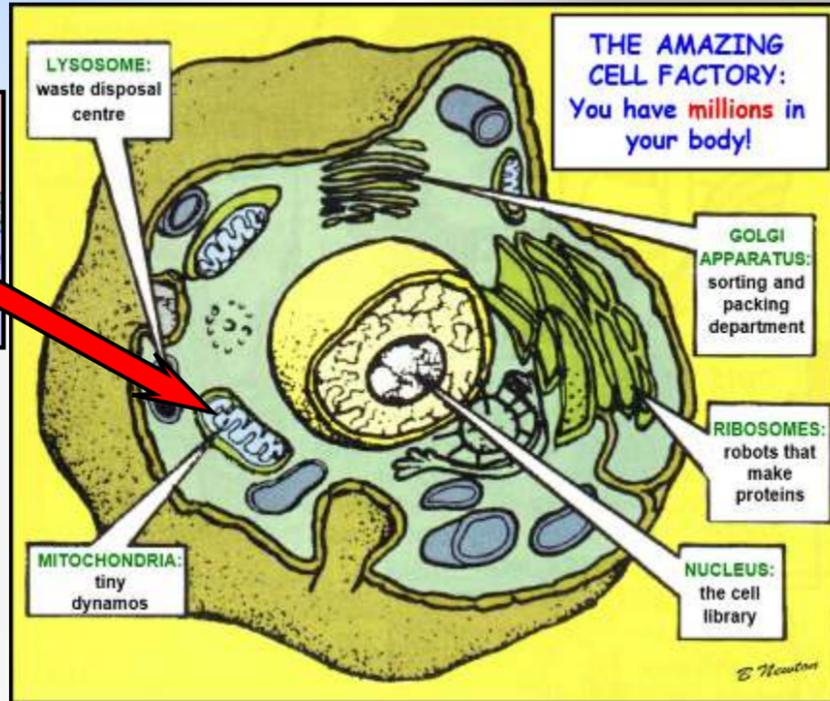
MILLIONS OF TINY MOTORS THAT KEEP YOU **ALIVE!**

Imagine an electric motor so small that 100,000 would fit into one millimetre – that's ATP Synthase, the tiniest machine ever seen. There are thousands in each of the cells in your body, spinning at up to 10,000 revolutions per minute to manufacture ATP (adenosine tri-phosphate).



All living cells depend on some version of ATP synthase. These tiny generators, embedded in the mitochondria of the cell, capture chemical energy and transfer it to reactions which require energy. Each has a central spindle, driven by a motor, to which is attached the main parts of the mechanism. Adenosine diphosphate and phosphate ions are fed into the machine and combined to produce ATP. Each of our cells performs this reaction over a million times per minute! No one has ever provided a satisfactory explanation of how this could have evolved.

See creation.com/atp-synthase



THE AMAZING CELL FACTORY:
You have millions in your body!

Charles Darwin had no idea what a living cell was really like. In the 19th century, cells were thought to be little more than blobs of jelly. Now that powerful microscopes have revealed the incredible truth, the idea that the first cells arose by chance from non-living matter seems absurd.

MORE COMPLEX THAN NEW YORK!



"Just one living cell in the human body is more complex than New York City."
—Linus Pauling, Nobel Prize winner

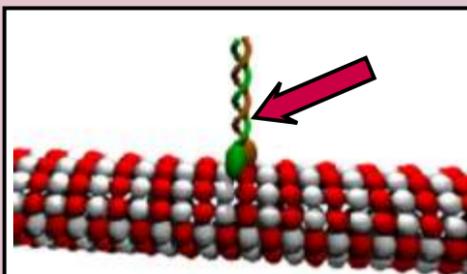
A self-replicating robot!

A cell is a machine that makes copies of itself, and the copies can also make copies of themselves! How the first self-replicating molecule arose is a real problem for scientists who don't believe in a Creator.

Could human engineers make a self-replicating robot, which could make copies of itself, that could then make copies of themselves ad infinitum? Highly unlikely — but if they could, it would only prove that intelligence was necessary!



The microscopic robots inside your cells



The kinesin robot (arrowed) "walks" along the microtubules in your cells

There are a number of microscopic "robots" at work in each of your body cells, one of which is called a "kinesin". These tiny biological machines transport material around in the cell, taking things to certain locations and removing parts that shouldn't be there. They really are organic robots! They are only 0.08 micrometres (0.00008 millimetre) long — that's about 1/1000th of the thickness of a

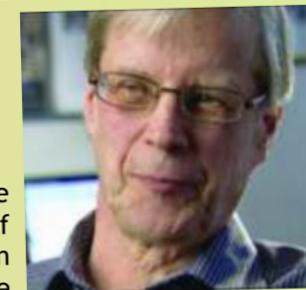
human hair! How did this transport system originate?¹

Then there are the enzymes — tiny chemical-reaction machines that convert things from one form to another (ATP synthase is an enzyme — see above). At any given moment, much of the activity happening inside a cell is being done by enzymes. Even a bacterium like *E. coli* has thousands of different types of these robots moving around inside it. In fact, a cell could be described as a little bag full of chemical reactions that are made possible by enzymes!² Robots are always the product of intelligence. How much more robots too small to be seen without a microscope! Like robots and machines made by humans, they point to creation.

1. To watch an animation of one of these robots at work, go to <https://i.stack.imgur.com/QZBMz.gif>
2. To watch an animation explaining how enzymes work, go to: <https://vimeo.com/86362472>

BIBLE-BELIEVING SCIENTISTS

Dr Matti Leisola, Biochemist



FINNISH biochemist Dr Matti Leisola (right) is an expert on enzymes. He is the former Dean of Chemistry and Material Sciences at the Helsinki University of Technology, Finland, and the author of 140 peer-reviewed science publications on enzymes and rare sugars. He has obtained six patents, and his scientific papers have been cited over 1000 times in the scientific literature. Once an ardent evolutionist, he reacted angrily when a student loaned him a book criticising evolution, and he set out to defend evolution. However, his efforts raised more questions than answers, and he soon became a full-on Darwin sceptic. His story is told in *Heretic: One Scientist's Journey from Darwin to Design* — co-authored with Dr Jonathan Witt.¹



He also contributed to the book *Evolution's Achilles' Heels*.² He claims that his own field of enzyme research strongly argues against evolution, supporting belief in a designer, and that there is no way that such information-rich functional molecules could have originated by naturalistic processes. Dr Leisola would be amused at the frequent claim, "No real scientist denies evolution." He claims that they redefine science as naturalism: "A real scientist is searching for truth about nature and not naturalistic explanations."

Dr Leisola has a ready answer for those who claim that belief in creation harms science: "Christianity is the foundation of modern science and explains why we can do science: a rational God created a rational man in his own image so that he is able to understand the creation with his mind. Indeed, the Creator Jesus Christ is called the *Logos*³ (*The Bible, John 1:1-3*), and makes sense of this orderly universe and complexity of life. Those believing in a naturalistic explanation for the origin of life are the ones with a blind faith." Dr Leisola says that Christianity "gives answers to the big questions that no other system gives: what is the origin of universe and life, what is the basis of the uniqueness of man and morals, and what gives a solid basis for equal worth of all people and the value of an individual."

Acknowledgements to *The Discovery Institute* and *Creation Ministries International*. See creation.com/matti-leisola-interview
1. Obtainable from Amazon. 2. Obtainable from CRT (address on back page). 3. Logos = Greek for 'word.'

www.crt.org.uk

Diatoms – "Jewels of the Sea."

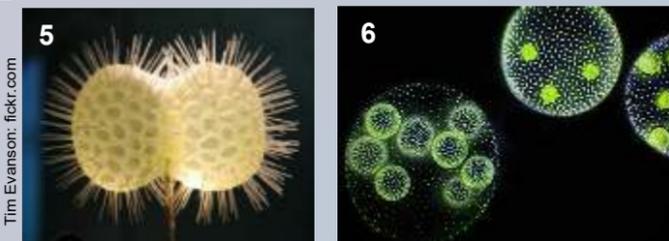
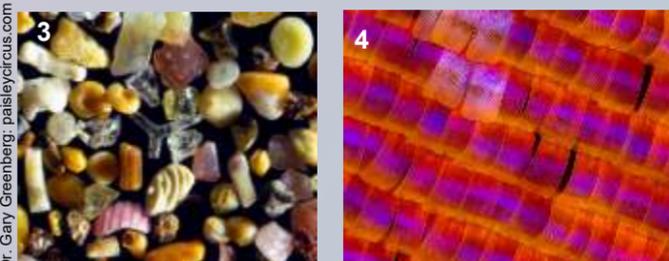
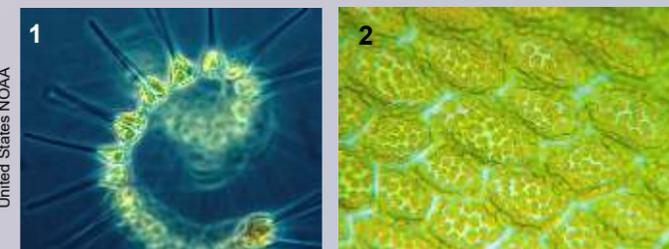


Diatoms (above and right) are microscopic, single-celled algae (plants) — sometimes known as "jewels of the sea" or "living opals" — which are found in the sea. Their cell walls are made of silica, which means that their beautiful colours are shaped and preserved even after they die. Charles Darwin wrote: "Few objects are more beautiful than the Diatomaceae; were these created that they might be examined and admired under the higher powers of the microscope?" (*Origin of Species 1859*).

The existence of such beauty in things that can only be seen through a high-powered microscope makes no sense from an evolutionary view. The beauty of diatoms doesn't give them any survival value. This suggests they really were designed so that human observers could admire their beauty, and give credit to their Designer. As John the apostle wrote 2,000 years ago: "You are worthy, our Lord and God, to receive glory and honour and power, for you created all things." (*Revelation 4: 11*)

NATURE'S 'HIDDEN' BEAUTY

Can you identify these examples? (answers on back page)



Why would chance evolution produce such hidden beauty?