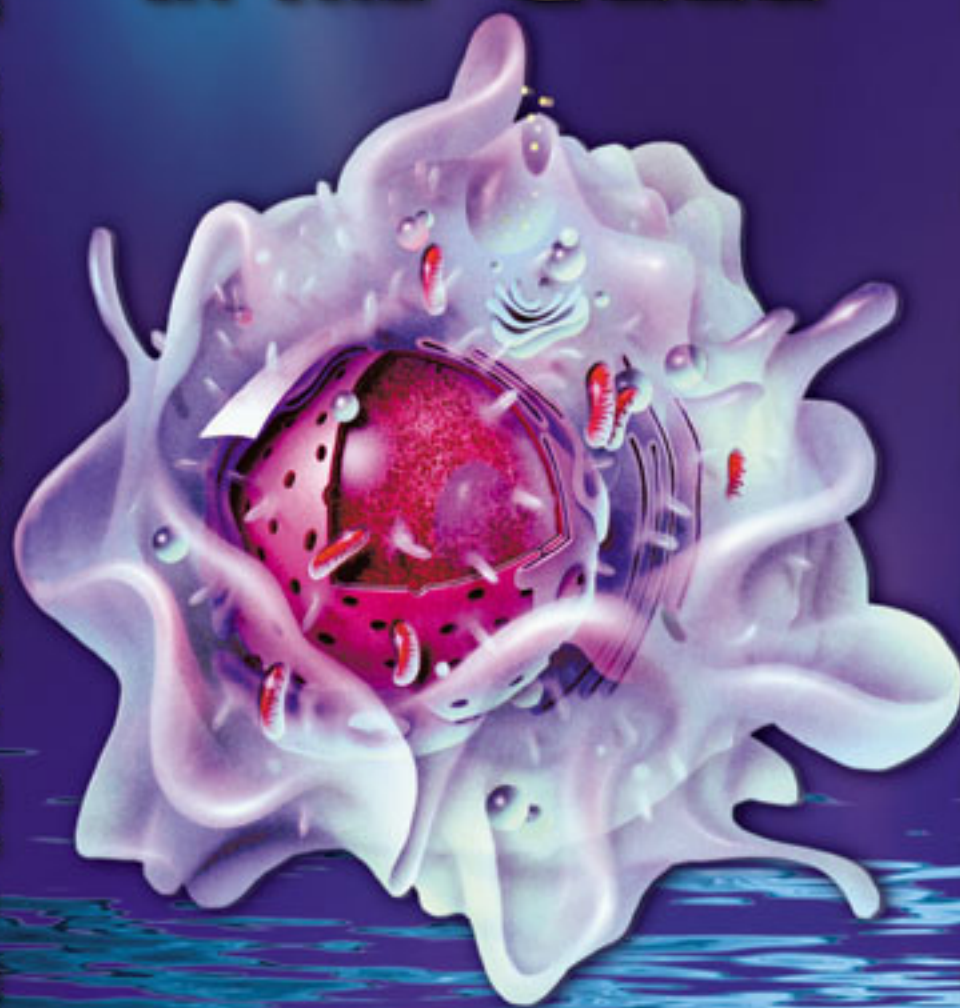


HARUN YAHYA



CONSCIOUSNESS IN THE CELL



In the 19th century, when the theory of evolution was put forward, the level of science and technology was rather primitive. This led the theory's supporters to maintain that living organisms had a fundamentally simple structure. For example, Ernst Haeckel, Darwin's greatest supporter, believed that a cell was a "simple little lump of albuminous combination of carbon," not much different from a piece of microscopic jello. Authors of the theory believed that because life was made up of very simple structures, it could come about by itself, randomly. But they were wrong, of course...

During the past 150 years, both science and technology have made enormous strides. Scientists have discovered the real structure of what Haeckel described as being a "simple little lump." They have been amazed to see that the cell is not remotely as simple as was once believed, but contains a number of unimaginably complex systems that could never have been conceived of, much less understood, in Darwin's day.

This book introduces the miracles of creation in the living cell—a miniature masterpiece. You will see how the organelles inside the cell, together with the enzymes, proteins and other substances that it produces, perform purposeful functions that could never be expected of them. You will read examples of the literally trillions of cells to be found in the human body, each of which displays superhuman intelligence and wisdom. Once again, you will witness how all of this cannot be an unconscious coincidence, but is a product of God's superior power, wisdom and artistry.

ABOUT THE AUTHOR



The author, who writes under the pen-name Harun Yahya, was born in Ankara in 1956. He studied arts at Istanbul's Mimar Sinan University, and philosophy at Istanbul University. Since the 1980s, the author has published many books on political, faith-related and scientific issues. His main focus has been the refutation of Darwinism and materialism, two modern myths presented under a scientific guise. Harun Yahya's books appeal to all kinds of readers, Muslims and non-Muslims alike, regardless of their age, race, or nationality, for they focus on one objective: to broaden the readers' perspective by encouraging them to think about a number of critical issues, such as the existence of God and His unity, and to display the decrepit foundations and perverted works of godless systems.

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

اللَّهُ
رَسُولُ
مُحَمَّدٍ

TO THE READER

- A special chapter is assigned to the collapse of the theory of evolution because this theory constitutes the basis of all anti-spiritual philosophies. Since Darwinism rejects the fact of creation – and therefore, God's existence – over the last 140 years it has caused many people to abandon their faith or fall into doubt. It is therefore an imperative service, a very important duty to show everyone that this theory is a deception. Since some readers may find the chance to read only one of our books, we think it appropriate to devote a chapter to summarize this subject.

- All the author's books explain faith-related issues in light of Qur'anic verses, and invite readers to learn God's words and to live by them. All the subjects concerning God's verses are explained so as to leave no doubt or room for questions in the reader's mind. The books' sincere, plain, and fluent style ensures that everyone of every age and from every social group can easily understand them. Thanks to their effective, lucid narrative, they can be read at one sitting. Even those who rigorously reject spirituality are influenced by the facts these books document and cannot refute the truthfulness of their contents.

- This and all the other books by the author can be read individually, or discussed in a group. Readers eager to profit from the books will find discussion very useful, letting them relate their reflections and experiences to one another.

- In addition, it will be a great service to Islam to contribute to the publication and reading of these books, written solely for the pleasure of God. The author's books are all extremely convincing. For this reason, to communicate true religion to others, one of the most effective methods is encouraging them to read these books.

- We hope the reader will look through the reviews of his other books at the back of this book. His rich source material on faith-related issues is very useful, and a pleasure to read.

- In these books, unlike some other books, you will not find the author's personal views, explanations based on dubious sources, styles that are unobservant of the respect and reverence due to sacred subjects, nor hopeless, pessimistic arguments that create doubts in the mind and deviations in the heart.

The entire page is enclosed in a highly decorative, ornate gold frame with intricate scrollwork and floral patterns. The frame is set against a dark green background.

CONSCIOUSNESS IN THE CELL

HARUN YAHYA

February, 2006

ABOUT THE AUTHOR

Now writing under the pen-name of HARUN YAHYA, he was born in Ankara in 1956. Having completed his primary and secondary education in Ankara, he studied arts at Istanbul's Mimar Sinan University and philosophy at Istanbul University. Since the 1980s, he has published many books on political, scientific, and faith-related issues. Harun Yahya is well-known as the author of important works disclosing the imposture of evolutionists, their invalid claims, and the dark liaisons between Darwinism and such bloody ideologies as fascism and communism.

Harun Yahya's works, translated into 41 different languages, constitute a collection for a total of more than 45,000 pages with 30,000 illustrations.

His pen-name is a composite of the names Harun (Aaron) and Yahya (John), in memory of the two esteemed prophets who fought against their people's lack of faith. The Prophet's seal on his books' covers is symbolic and is linked to their contents. It represents the Qur'an (the Final Scripture) and Prophet Muhammad (may God bless him and grant him peace), last of the prophets. Under the guidance of the Qur'an and the Sunnah (teachings of the Prophet), the author makes it his purpose to disprove each fundamental tenet of godless ideologies and to have the "last word," so as to completely silence the objections raised against religion. He uses the seal of the final Prophet (may God bless him and grant him peace), who attained ultimate wisdom and moral perfection, as a sign of his intention to offer the last word.

All of Harun Yahya's works share one single goal: to convey the Qur'an's message, encourage readers to consider basic faith-related issues such as God's existence and unity and the Hereafter; and to expose godless systems' feeble foundations and perverted ideologies.

Harun Yahya enjoys a wide readership in many countries, from India to America, England to Indonesia, Poland to Bosnia, Spain to Brazil, Malaysia to Italy, France to Bulgaria and Russia. Some of his



books are available in English, French, German, Spanish, Italian, Portuguese, Urdu, Arabic, Albanian, Chinese, Swahili, Hausa, Dhivehi (spoken in Mauritius), Russian, Serbo-Croat (Bosnian), Polish, Malay, Uygur Turkish, Indonesian, Bengali, Danish and Swedish.

Greatly appreciated all around the world, these works have been instrumental in many people recovering faith in God and gaining deeper insights into their faith. His books' wisdom and sincerity, together with a distinct style that's easy to understand, directly affect anyone who reads them. Those who seriously consider these books, can no longer advocate atheism or any other perverted ideology or materialistic philosophy, since these books are characterized by rapid effectiveness, definite results, and irrefutability. Even if they continue to do so, it will be only a sentimental insistence, since these books refute such ideologies from their very foundations. All contemporary movements of denial are now ideologically defeated, thanks to the books written by Harun Yahya.

This is no doubt a result of the Qur'an's wisdom and lucidity. The author modestly intends to serve as a means in humanity's search for God's right path. No material gain is sought in the publication of these works.

Those who encourage others to read these books, to open their minds and hearts and guide them to become more devoted servants of God, render an invaluable service.

Meanwhile, it would only be a waste of time and energy to propagate other books that create confusion in people's minds, lead them into ideological chaos, and that clearly have no strong and precise effects in removing the doubts in people's hearts, as also verified from previous experience. It is impossible for books devised to emphasize the author's literary power rather than the noble goal of saving people from loss of faith, to have such a great effect. Those who doubt this can readily see that the sole aim of Harun Yahya's books is to overcome disbelief and to disseminate the Qur'an's moral values. The success and impact of this service are manifested in the readers' conviction.

One point should be kept in mind: The main reason for the continuing cruelty, conflict, and other ordeals endured by the vast majority of people is the ideological prevalence of disbelief. This can be ended only with the ideological defeat of disbelief and by conveying the wonders of creation and Qur'anic morality so that people can live by it. Considering the state of the world today, leading into a downward spiral of violence, corruption and conflict, clearly this service must be provided speedily and effectively, or it may be too late.

In this effort, the books of Harun Yahya assume a leading role. By the will of God, these books will be a means through which people in the twenty-first century will attain the peace, justice, and happiness promised in the Qur'an.

Translated by Özlem Kaba
Edited by Tam Mossman

English Edition published in February, 2006

Published by
GLOBAL PUBLISHING
Talatpaşa Mah. Emirgazi Caddesi
Ibrahim Elmas Is Merkezi
A Blok Kat 4 Okmeydani - Istanbul
Tel: (+90 212) 222 00 88

Printed and bound by Entegre Matbaacilik in Istanbul
Sanayi Cad. No: 17 Yenibosna-Istanbul
Phone: (+90 212) 451 70 70

All translations from the Qur'an are from *The Noble Qur'an:
a New Rendering of its Meaning in English* by Hajj Abdalhaqq and Aisha
Bewley, published by Bookwork, Norwich, UK. 1420 CE/1999 AH.

Abbreviation used:
(*pbuh*): Peace be upon him (following a reference to
the prophets)

www.harunyahya.com



CONSCIOUSNESS IN THE CELL

HARUN YAHYA

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INTRODUCTION

The theory of evolution was put forward by the naturalist Charles Darwin in the middle of the 19th century, when the level of science and technology was rather primitive, compared with today's. Nineteenth-century scientists worked in relatively simple laboratories. With the very unsophisticated equipment available to them, scientists couldn't even see bacteria. Moreover, they were still under the influence of many false beliefs left over from the Middle Ages.

One of these misconceptions was that living organisms had a fundamentally simple structure—a belief that can be traced back to the ancient Greek philosopher Aristotle, who wrote that life could come about spontaneously and coincidentally, as a result of inorganic matter assembling itself in a moist environment.

In developing his theory, Darwin drew on the assumption that living things had only a simple structure. Other biologists who later adopted and defended Darwin's theory shared this same belief. For example, from the view of cells that 19th century microscopes provided, Ernst Haeckel, Darwin's greatest supporter in Germany, believed that a cell was a "simple little lump of albuminous combination of carbon," not much different from a piece of microscopic jello. (John Farley, *The Spontaneous Generation Controversy from Descartes to Oparin*, 2nd ed., Baltimore: The Johns Hopkins University Press, 1979, p. 73)

The theory of evolution was based upon this and other similar presumptions. Authors of the theory like Haeckel, Darwin, and Huxley believed that because life was made up of very simple structures, it could come about by itself, randomly. But they were wrong, of course.

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During the past 150 years, from Victorian times until now, both science and technology have made enormous strides. Scientists have discovered the real structure of what Haeckel described as being a "simple little lump." They have been amazed to see that the cell is not remotely as simple as was once believed, but contains a number of unimaginably complex systems that could never have been conceived of, much less understood, in Darwin's day.

In explaining the structure of the cell, Professor Michael Denton, the famous molecular biologist, makes this analogy:

To grasp the reality of life as it has been revealed by molecular biology, we must magnify a cell a thousand million times until it is twenty kilometers in diameter and resembles a giant airship large enough to cover a great city like London or New York. What we would then see would be an object of unparalleled complexity and adaptive design. On the surface of the cell we would see millions of openings, like the port holes of a vast space ship, opening and closing to allow a continual stream of materials to flow in and out. If we were to enter one of these openings we would find ourselves in a world of supreme technology and bewildering complexity.. (Michael Denton, *Evolution: A Theory in Crisis*, London: Burnett Books, 1985, p. 328)

This book will introduce the miracles of creation in the living cell, a miniature masterpiece that possesses a much more complicated and wondrous system than a giant spaceship's. We will show how the organelles inside the cell, together with the enzymes, proteins and other substances that it produces, perform purposeful functions that could never be expected of them. We'll give examples of the literally trillions of cells to be found in the human body, each of which displays superhuman intelligence and wisdom. Once again, we remind ourselves how all of this cannot be merely an unconscious coincidence, but is a product of God.

Proofs of God's creation, and manifestations of His superior

power, wisdom and artistry are everywhere. Wherever we turn, we come face to face with God's creations that move us to exalt Him with glorification.

One reason why this book concentrates on the cell in particular is once again to present the truth to those who deny God by claiming that life is only a result of coincidence. Living things are too complex, too infinitely detailed to have come about as the result of happenstance. It's clear that they were created by a superior Mind and Power. Also, this book aims to explain the superiority manifest in God's creation and to glorify Him thereby.

INTELLIGENT DESIGN, IN OTHER WORDS CREATION

In order to create, God has no need to design

It's important that the word "design" be properly understood. That God has created a flawless design does not mean that He first made a plan and then followed it. God, the Lord of the Earth and the heavens, needs no "designs" in order to create. God is exalted above all such deficiencies. His planning and creation take place at the same instant.

Whenever God wills a thing to come about, it is enough for Him just to say, "Be!"

As verses of the Qur'an tell us:

His command when He desires a thing is just to say to it, "Be!" and it is. (Qur'an, 36: 82)

[God is] the Originator of the heavens and Earth. When He decides on something, He just says to it, "Be!" and it is. (Qur'an, 2: 117)

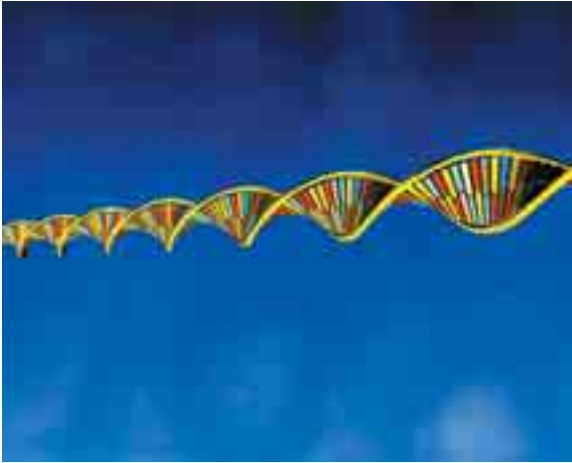
BELIEF IN DARWINISM REQUIRES ABANDONING LOGIC AND WISDOM

All of the cells in your body multiply by division. During this process, the DNA in the cell's nucleus needs to be copied too. The process of DNA replication takes place without fault, in a regular, most organized and disciplined way that strikes awe in attentive observers.

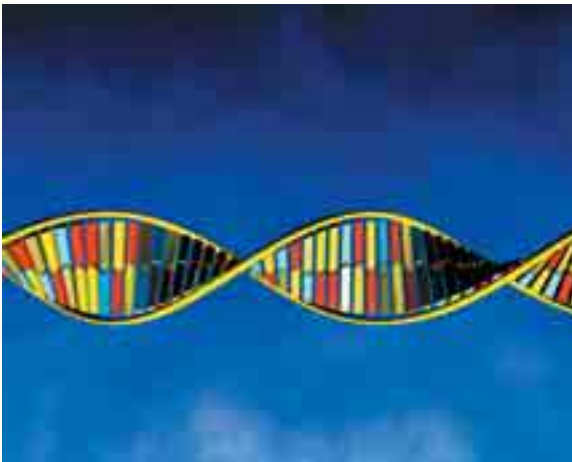
The DNA molecule, containing a miniaturized data bank of three billion letters, is like a ladder that has twisted around itself to form a helix. At the beginning of replication, the enzyme DNA helicase first approaches the DNA molecule and starts to unwind the helix, just as in the opening of a zipper. The twin strands of DNA in the helix, formerly wound around each other, separate as a result. DNA helicase is always ready to perform its duty on time, without any fault, without becoming confused or making the slightest mistake, and without damaging the DNA in any way.

Then it's the turn of another enzyme, DNA polymerase. Its duty is to complete each unwound strand of the DNA with a second one. In order to do so, it must locate and bring the organizing information appropriate for each strand. But wait! An enzyme, made up only of atoms and molecules, cannot be expected to have any knowledge, consciousness, or mind of its own. Yet it can identify the type of information needed to complete the half-strand of DNA and then, locate the necessary components, wherever they may be in the cell, and bring them to where they're needed. During this entire process, it doesn't make the slightest mistake. It identifies, one by one, the three billion letters in order to complete the strand of DNA correctly. At the same time, another polymerase enzyme works on the DNA's other strand and completes it in the same way. And while all this is taking place, "helix stabilizing"

CONSCIOUSNESS IN THE CELL



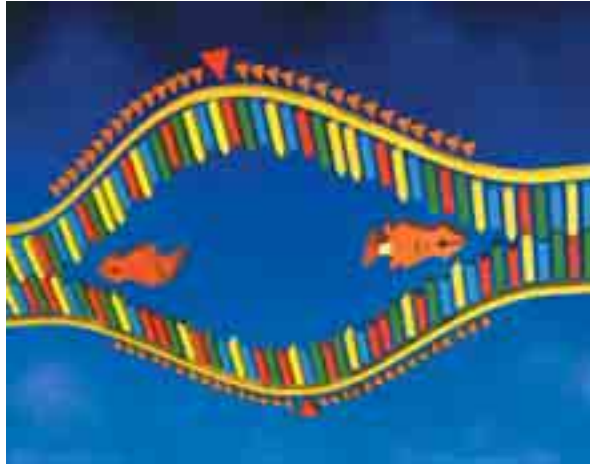
DNA, the molecule found in the cell's nucleus, is the body's information bank. Therefore, before any one cell divides in order to become two, it must first make a duplicate copy of its DNA.



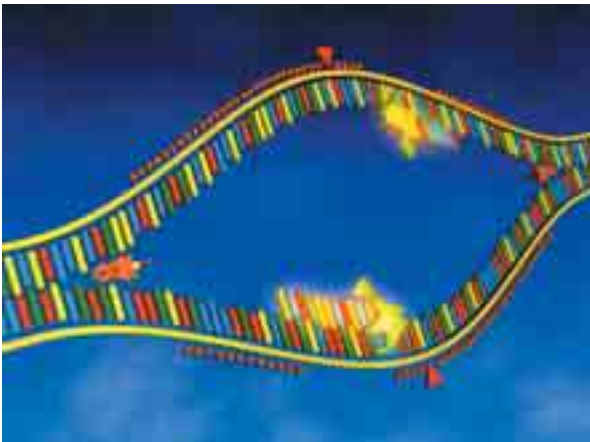
DNA is in the shape of a helix. In order for it to be copied, many enzymes—again produced according to the information in the DNA—carry out processes displaying the utmost intelligence and organization.



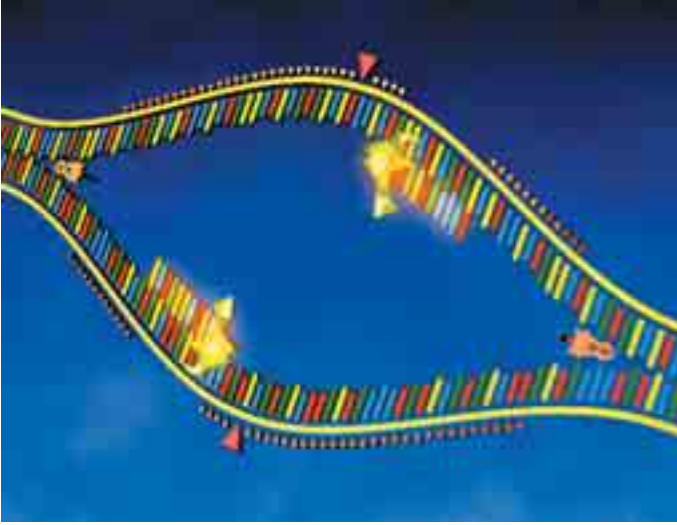
Before DNA is replicated, enzymes called helicase arrive to unwind the DNA helix, much as one would open a zipper. The orange shapes show this enzyme's actions.



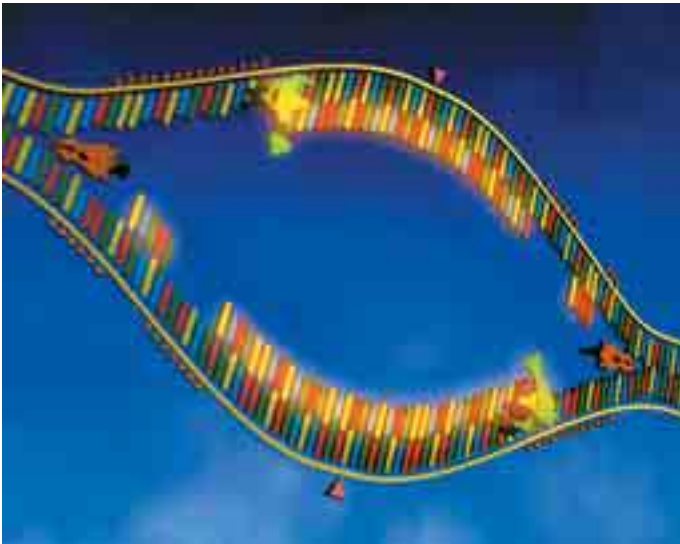
In order to prevent the two unwound DNA strands from winding back around each other, helix stabilizing enzymes (shown in green in the diagram) anchor the two strands in place.



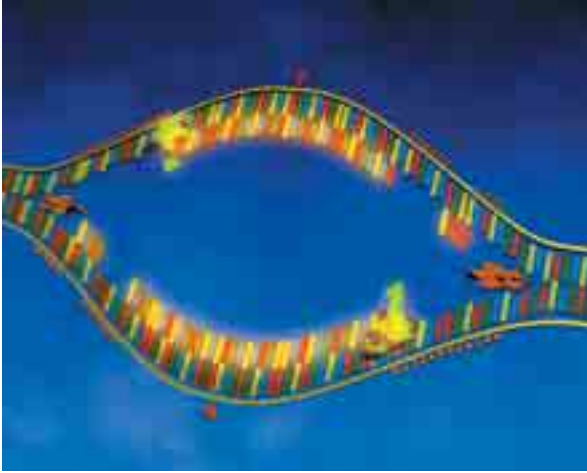
CONSCIOUSNESS IN THE CELL



At this point, enzymes called DNA polymerase start attaching appropriate pieces of information onto each strand, to form two DNA helixes.



In these diagrams, the yellow shapes represent the DNA polymerase enzyme, which carries out the replication process.



As a result of the faultless cooperation and disciplined, intelligent processes of these unconscious molecules, DNA is copied perfectly, with no errors.

enzymes hold apart the two strands of DNA to prevent them from winding back around each other.

During this process of DNA replication, many enzymes work with military discipline to carry out processes that require knowledge and cognition. If you were given a script containing three billion letters and were asked to type it over, you couldn't possibly copy it without making mistakes. You would certainly make at least one mistake somewhere, by skipping a line or at least, a letter or two. Yet these enzymes complete a comparable process repeatedly, without making any such errors.

Darwinists claim that all of these enzymes, the information contained in the DNA's billions of letters, the process of DNA replication, and this entire faultless organization came about as the result of a string of coincidences. Evolutionists' belief in this unbelievable—in fact, impossible—assumption is a significant mistake that needs serious consideration. The sole reason for evolutionists' blind faith in this highly illogical theory is their commitment to materialism, together with their resolve to deny the existence of God.

THE DEVICE IN YOUR BODY THAT CAN COPY A MILLION PAGES OF INFORMATION IN TWENTY MINUTES

It's long been known that cells multiply by division. During this process, the DNA found in the nucleus of each cell needs to be copied for each new "daughter" cell. During this process of replication, an amazing event takes place that requires consideration.

DNA's data bank, made up of three billion letters, is able to store massive amounts of information concerning the living organism. To write down all the information contained in DNA would require an encyclopaedia of approximately 1,000 volumes, with a total of a million pages. Therefore, the replication of DNA and the copying of a million-page encyclopaedia are comparable. But do you know how long this process of DNA replication takes?

Between 20 and 80 minutes!

Now, that means that the equivalent of one million pages of writing can be copied, with no mistakes or deficiencies, in a period of less than two hours—and sometimes, under a half hour. No photocopier or any other technological device available today can complete this copying process faultlessly, in such a short period of time. And consider that no technological machines are carrying out this process, but cells that we cannot even see with the naked eye. Now ask yourself:

Who possesses the power and mind, will and knowledge to bring about this amazing organization? What realizes that the DNA must be copied when a cell divides? What brings about this replication in the fastest, most perfect way, and which allows for any mistakes to be fixed immediately?

Clearly, it's illogical and senseless to claim that this whole complex, faultless and perfect system came about as a result of coinci-

**20 - 80
MINUTES**



**INFORMATION EQUAL TO
3 BILLION LETTERS**



1 MILLION PAGES



**AND A
1,000-VOLUME ENCYCLOPAEDIA
IS COPIED WITHOUT FAULT.**



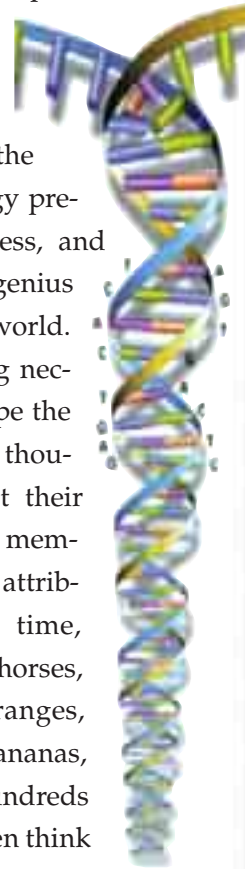
dence. Bring together all of the atoms in the universe, under the proper conditions, and still you won't be able to create the system that carries out the replication of DNA in every living organism.

It is quite obvious that the One Who created this perfect system, Who has continued to create it for millions of years is God, the Possessor of infinite knowledge, consciousness, and power.

THE PERFECTION OF DNA CONTRADICTS THE THEORY OF EVOLUTION

In one molecule of human DNA, there exists enough information to fill a million-page encyclopaedia. But the order in this information is also vitally important. Ask yourself whether hundreds of letters tossed about at random could possibly come together to form a coherent news article. Could millions of these same letters arrange themselves together perfectly and appropriately as to form an entire newspaper? Can anyone claim this is all a product of blind coincidence? According to Darwinist understanding, it's possible for all these amazing events to come about coincidentally.

Darwinism thinks that it has deceived all the world's populace like little children. This ideology presents coincidence as having divine consciousness, and asserts that it somehow possesses an amazing genius and greater knowledge than all the people in the world. According to evolutionists, time is the only thing necessary for this "genius" called coincidence to shape the brains of all those humans who have lived over thousands of years. And not their brains only, but their minds, their capacity for thought, their reasoning, memory, and hundreds of other physical and spiritual attributes. If provided with matter and enough time, coincidence has the power to create people, ants, horses, giraffes, peacocks, butterflies, figs, olives, oranges, peaches, pomegranates, watermelons, tomatoes, bananas, tulips, violets, strawberries, orchids, roses and hundreds of thousands of other living things you cannot even think of. Obviously this entire claim is nothing but nonsense. The Creator of all things is God.



*They do not measure God with
His true measure. God is
All-Strong, Almighty.
(Qur'an, 22: 74)*



THE SHAPE OF CELLS REFUTES THE THEORY OF EVOLUTION

There are approximately 200 different types of cells in your body, yet they differ from one another in only the slightest of ways. One of the most important differences is shape. Although nerve cells, muscle cells, and blood cells all have the same basic DNA, it is thanks to their perfect individual shapes that they function with the utmost efficiency in the region of the body where they carry out their duties.

Two examples of cells with different shapes are nerve cells and blood cells. Nerve cells have long extensions, called axons, from the spinal cord to the feet that can reach up to one meter in length in humans. This way, when stimuli pass from one cell to another, there is no time lost. The impulses pass directly to where they are going.

Red blood cells, called erythrocytes, however, contrary to nerve cells, are only about 7-8 micrometers in diameter. The very fact of their being so tiny means that they penetrate the smallest of capillaries with ease, and without getting deformed. In addition, their biconcave shape maximizes the surface area across which oxygen is exchanged for carbon dioxide. If you consider that there are millions of these cells in one cubic millimeter of blood, it won't be hard for you to estimate the massive surface area on which this exchange of gases is carried out.

Cells in the eye and ear are also specialized in regards to shape. The cochlea, inside the inner ear, contains sensory cells which have hairlike projections that produce nerve impulses in response to sound vibrations in the middle ear. Somewhat similarly, light-sensitive cells of the retina in the eye have also been designed to

perform their function in the best way possible. The cone cells in the retina contain many light-sensitive pigments, as well as a layer containing nerve connections. This organization gives the cone cells a very high sensitivity to light.

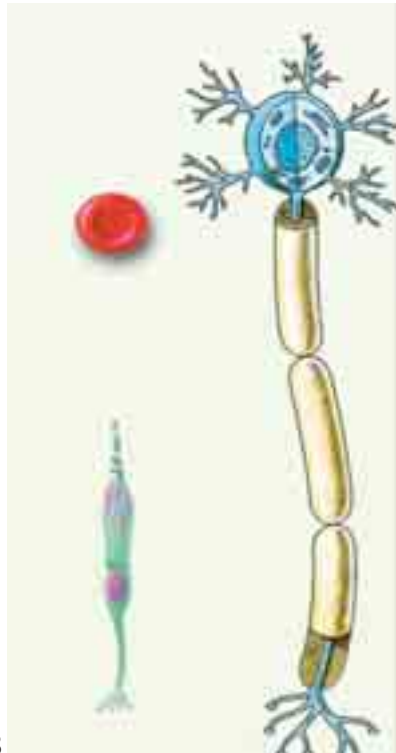
In the small intestine, too, there are nutrient-absorbing cells with the appropriate shape to perform their special functions. The lining of the small intestine is covered by millions of fingerlike projections called villi. On each villus are microvilli which are even tinier. The combination of these projections increases the surface area for digestion and absorption of nutrients.

Never forget that all of the billions of cells in the human body came about from the division of just one original cell, which originated from the union of sperm and egg. To think that each of these cells chose their individual shapes and then somehow assumed the shape of a body is totally illogical. This all shows clearly that cells are created in the most efficient ways to carry out their functions. That is, they are created by God, the Possessor of infinite wisdom and intelligence.

Red blood cell

Nerve cell

Retinal cone cell



HOW CAN CELLS RECOGNIZE ONE ANOTHER?

In high school or at college, we've studied how human beings are formed. In its first stages, the embryo is a formless piece of tissue. But as it continues to develop, some cells form the arms, some the inner organs, and a few are set aside for the eyes. Every cell "knows" where it must go, which organ it will form, to what degree it should multiply, and when to stop dividing. But the following extract provides another amazing fact about the embryo's development:

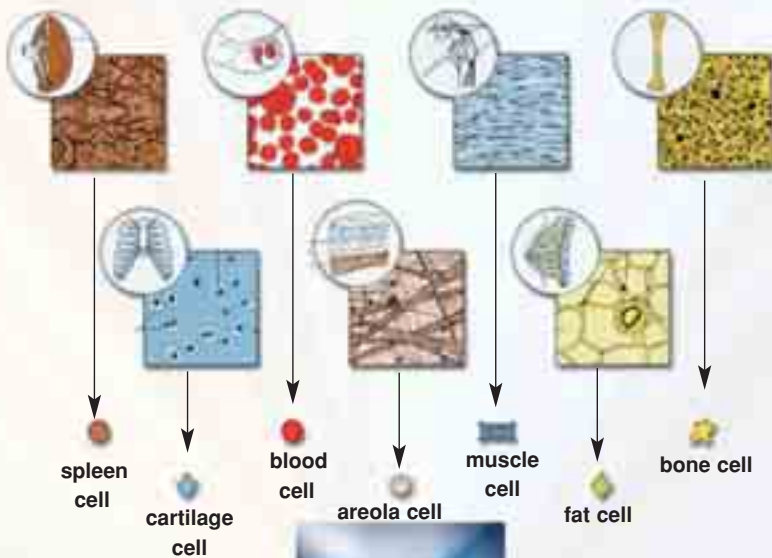
If we separate the cells of the embryo that belong to different organs—by decreasing the amount of calcium in the environment—and then later on, mix these cells together in a suitable environment, we find that on coming into contact once again, the cells that belong to the same organs *recognize* each other and form distinct groups of cells that belong to the same organs. (Ahmet Noyan, *Yasamda ve Hekimlikte Fizyoloji* (Physiology in Life and Medicine), 10th ed., Ankara: Meteksan Publications, 1998, p. 40)

That is, if cells are first separated from each other, then brought together again, the cells that make up the same organs recognize each other and reassemble themselves again.

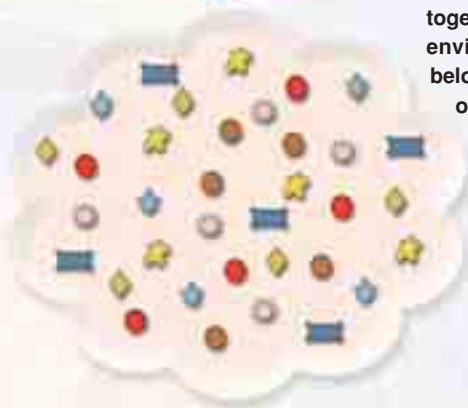
But how can these cells, which have no brain or nervous system, no eyes or no ears, recognize each other? How do these substances, formed from some molecules with no brain or consciousness, recognize their own type of cell out of a group? How can they know that they will later unite to form an organ? What is the source of the obvious consciousness displayed by these unconscious molecules?

The source of their consciousness is God, the Lord of the worlds, Who created the whole universe out of nothing.

We will show them Our signs on the horizon and within themselves until it is clear to them that it is the truth. Is it not enough for your Lord that He is a witness of everything? (Qur'an, 41: 53)



When the cells of different organs of an embryo are mixed up together in a suitable environment, cells belonging to the same organs organize themselves into distinct groups.



EXPOUNDING EVIDENCE OF GOD'S EXISTENCE CAN FREE PEOPLE FROM IRRELIGIOUS BELIEFS

According to the Darwinist claims, all living things result from spontaneous coincidences. But the thousands of complex systems in our bodies deny this nonsense of "coincidence." One example is the hairlike structures whose sole duty is to allow the cell to move and which, in turn, consist of thousands of minute details.

Some cells move by the use of short, microscopic structures, called cilia, that resemble eyelashes. For example, each of the stationary cells in the respiratory tract possesses hundreds of cilia. By moving together all at the same time, just like the oars on a racing scull, these structures enable the cell to move forward.

→ When a cross section of a cilium is cut, it can be seen to be very organized and made up of a ring of nine doublet microtubules around the periphery and two singlet microtubules in the middle.

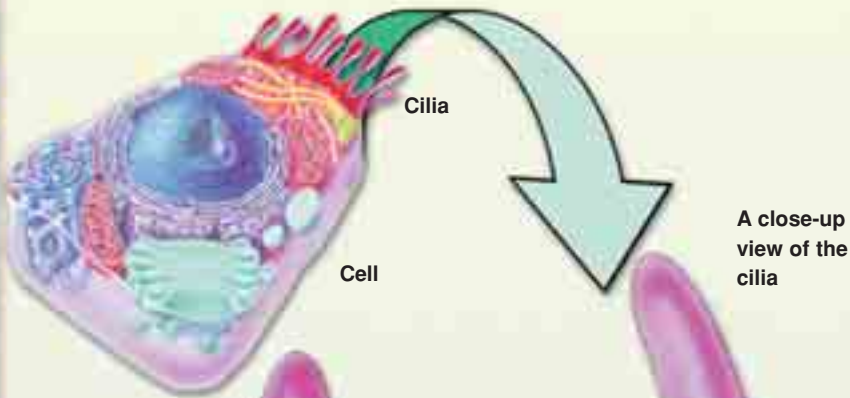
→ Each of the doublet microtubules has a ring with 13 microfilaments and another one with 11 microfilaments.

→ The microtubules are made of a protein called "tubulin."

→ The microtubules also have two extensions, an outer arm and an inner arm, both made of a protein called "dynein." This protein's function is to act as a motor for the cilia and provide mechanical strength.

→ Molecules making up the tubulin protein virtually line up together like bricks to form cylindrical structures. However, the organization of the tubulin molecules is much more complex than the laying of bricks.

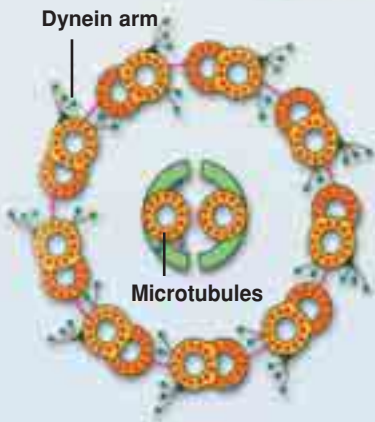
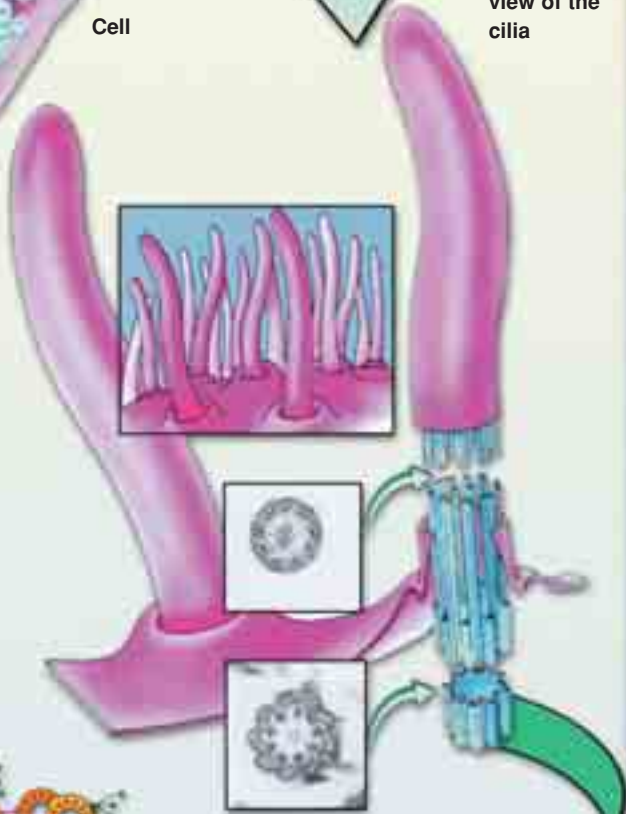
→ There are ten short extensions on the top and ten cavities on the bottom of each tubulin. These cavities and extensions have



On some cells are found cilia that resemble eyelashes and facilitate movement. They are composed of highly complex structures.

Right: The microtubules making up each cilium.

Below: This cross section of a cilium shows the intertwined double ring structure.



Cross section of one cilium

CONSCIOUSNESS IN THE CELL

been created to fit snugly inside each other, thus creating a very sound structure. Even the slightest defect in the very special design of these cavities or extensions will result in damage to the cell.

All these components that we've summarized briefly and simply compose just one single cilium; and its sole aim is to move just that one cell, out of the trillions of cells in your body. Such an extensive system exists in every cell of the respiratory system of everyone who has ever lived and of every person alive today. Moreover, this complex system made up of many different parts is the substructure of a cilium on a cell we can't even see with our eyes. You can grasp how small this area is by the following comparison: Fitting all of the details explained above into one of the hairs on your head would be so complex that our brains couldn't comprehend it. But the cilia of the cell we're talking about have just such an incomparably small substructure.

In short, God has placed a most systematic and complex mechanism in a place too small for our eyes to see. It's totally impossible for "coincidence" to think about moving a cell and fitting such a system in so small an area. This is possible only with the superior and infinite mind, knowledge and power of God.



THE OIL REFINERY IN OUR BODIES

The energy you require to arise from where you are and start walking, to breathe, to open and close your eyes—in short, the energy you need to be alive is made in powerhouses inside your cells, called mitochondria. When we examine the processes carried out in the mitochondria, it becomes clear why comparing them to a powerhouse is no exaggeration.

In the production of energy in the cell, oxygen plays the main role. Oxygen has plenty of helpers. At practically all stages of the production of energy, different enzymes play their part. At any particular step of this process, enzymes that have completed their duty "change shifts" with other enzymes coming into action for the next step. This is done in a most conscious manner, and in this way, the energy stored in foods is converted into a form useful to the cell, as the result of endless chemical reactions, many minor processes, and hundreds of different enzymes going into action. In all of this changing of enzymes, there is not the slightest confusion, nor any mixing up of the order. All the "workers" carry out their duty as if they were part of a well-disciplined team.

And so, it can be said that the energy powerhouse located in a



The mitochondrion, made up of proteins found in the cell, works just like an electrical power station to generate the energy the cell needs.

CONSCIOUSNESS IN THE CELL

cell, only one hundredth of a millimeter in size, is much more complex than any oil refinery or hydroelectric plant.

An oil refinery is built and run by engineers aware of what petroleum is, who have analyzed crude oil in the laboratory, and who act in the light of this technical information. It would be impossible for anyone ignorant of what petroleum is to build a refinery.

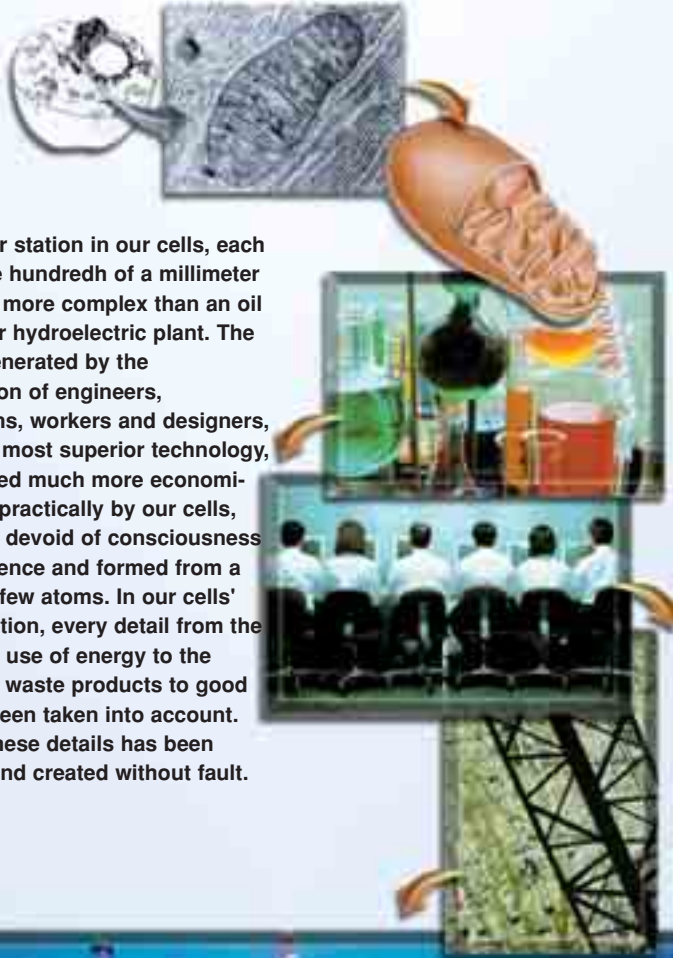
In the same way, knowledge is required to produce energy in a cell which is much more complex than an oil refinery. It's obviously ridiculous to suggest that a cell has the ability to learn. But then how do cells bring about this production?

The truth is, no cell has the opportunity to "learn" any biological process, in its literal sense. If the cell couldn't carry out this process when it first appeared, then it would have no chance of acquiring the necessary skills later on—simply because oxygen, which plays such a central role in energy production, has a destructive effect on the cell. The cell had to have appeared together with this defensive property. This is only one of many proofs that cells didn't appear as the result of any coincidence, but were created by God in one instant.



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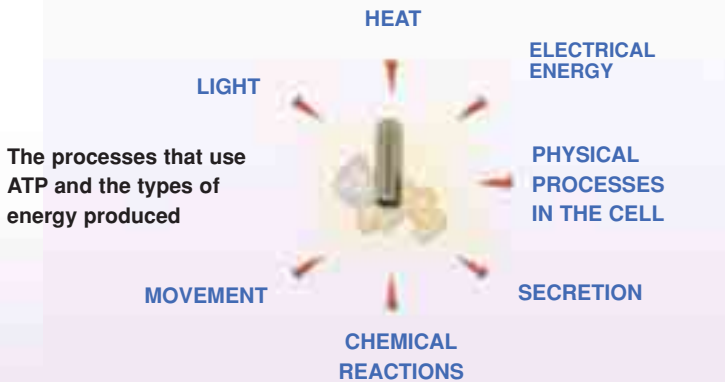
With this artistry, displayed in an area one-hundredth the size of a millimeter, God shows us the limitlessness to His power.



The power station in our cells, each about one hundredth of a millimeter in size, is more complex than an oil refinery or hydroelectric plant. The energy generated by the cooperation of engineers, technicians, workers and designers, using the most superior technology, is produced much more economically and practically by our cells, which are devoid of consciousness or intelligence and formed from a relatively few atoms. In our cells' power station, every detail from the economic use of energy to the putting of waste products to good use has been taken into account. Each of these details has been planned and created without fault.



THE ENERGY OF LIFE IN YOUR CELLS: THE ATP MOLECULE



Energy we obtain from food cannot be used directly by our cells in carrying out the processes required for their continued existence. First the energy is packaged into a special molecule called adenosine triphosphate, or ATP. Later on, it's used to carry out all the manufacture and transfers taking place in the cell.

The body uses 48 kilograms of ATP a day. But amazingly enough, at any one point during the day, the amount of ATP in the body never exceeds one gram. The reason for this is that ATP is not stored, but rather is prepared in special packets for immediate use. Never forget that the cell's life depends upon this energy. For this reason, the production of ATP must occur very quickly. And so, at every second, each of your approximately 100 trillion cells consumes and regenerates ten million molecules of ATP.

How is this speed maintained?

Whenever a cell needs energy, the end phosphate linkage of the ATP molecule's three phosphate groups is broken; that is, the packet of energy is opened. With the breakage of one phosphate linkage, the subsequent release of energy lets the cell carry out its functions with ease. And this amazing process continues with

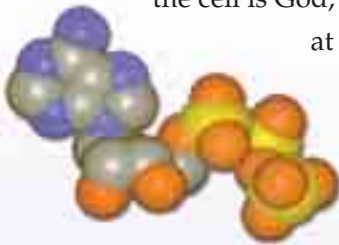
amazing speed and without fail.

Without doubt, it's impossible for a molecule made up of atoms to determine a cell's energy requirements and then produce the appropriate energy. That this production is carried out in a most efficient way and with the most appropriate packaging system cannot be the product of coincidence. The Creator of the cell and

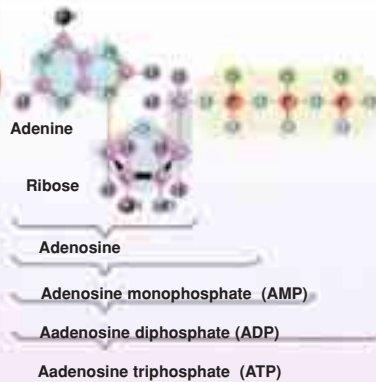
of every action and process of the molecules within

the cell is God; it is He Who put the ATP molecule

at the service of living things in such a perfect manner.



ATP is a packet of energy produced in the cell. The three-dimensional image of the ATP molecule, above, is shown in more detail on the right. It contains three phosphate groups, with high-energy phosphate bonds between the atoms.



THE BREAKDOWN OF THE ATP MOLECULE RELEASES ENERGY:

1. ATP has three phosphate groups. Whenever one linkage is broken off, energy is released.
2. If only one phosphate linkage is broken off, ADP forms. If two phosphate groups are broken off, AMP is formed.
3. With the release of AMP's last phosphate group, all of the ATP molecule's energy is transferred to the relevant molecules.



WHO MANAGES HEAVY TRAFFIC IN THE CELL?

The Golgi body, found in all cells, plays an important role in packaging newly synthesized proteins and differentiating and selecting between different types of protein.

The various proteins found in various sections of the cell are synthesized in another part of the cell called the endoplasmic reticulum, or ER. Minutes after the proteins are synthesized, they move quickly out of the ER and towards the Golgi body. There are many important reasons why they undergo various changes in the Golgi body after being made. For example, to some of them are attached carbohydrate groups, to others sulphate or phosphate groups, and to still others, fatty acids. These modifications vary

The cell's organization is much more complex and successful than any human fabrication. In a protein produced in the cell, steps take place that are involved in the manufacture of products in a factory and their subsequent delivery to where they're needed.



according to a protein's type and where it is to wind up. The Golgi body purifies these proteins and separates and packages them, according to their type and destination. It also produces the packages according to the type of cell where the proteins are destined to go. In order for the biochemical activity of the thousands of proteins synthesized in the ER not to become mixed up, however, these processes must be carried out with great sensitivity, and each protein must be directed towards its destination.

The tiny organelle known as the Golgi body organizes this traffic. It displays great awareness in every process it carries out. It recognizes the proteins that come to it, separates them, determines their needs, carries out its production according to their needs, identifies their function, packages them, and organizes this traffic flow without any confusion. The One Who inspired the cell and the organelles within it, with the ability to decide and apply the knowledge is the Lord of the worlds—that is, God.

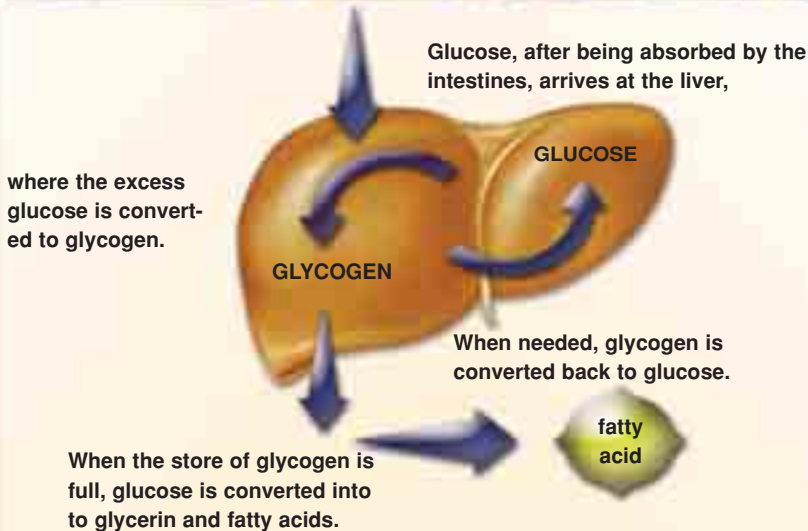
Those who find themselves awestruck in the face of these cellular miracles and who witness God's superior knowledge can only be shocked at the evolutionists' claims that all this came to be as a result of coincidence.

***He created the heavens and the Earth with truth
and formed you, giving you the best of forms.
And He is your final destination.
(Qur'an, 64: 3)***

THE LIVER AS A GIANT LABORATORY

No one could claim that a fully equipped laboratory, fitted out with the latest technology could come about by itself, by chance. But evolutionists claim that the liver's unparalleled laboratory complex arose by itself, advocating this claim with no proof at all. This is because Darwinism is a superstitious belief system, a spell that blinds one's mind.

Five hundred separate processes take place in just one cell of the liver. Most of these (which take place faultlessly in milliseconds, that is, thousandths of a second) still have not been repro-



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duced under laboratory conditions. Liver cells convert the food we eat into stored energy, that is glycogen, which the liver stores and converts to glucose as needed by the body to satisfy its energy needs.

In short, even while we eat all manner of food we like, the liver uses, converts or stores this food's energy according to our body's needs. And from the first human until today, trillions of liver cells have acted with exactly the same consciousness and knowledge, with no confusion.



CELLS THAT COMMIT SUICIDE TO KEEP THE BODY FROM HARM

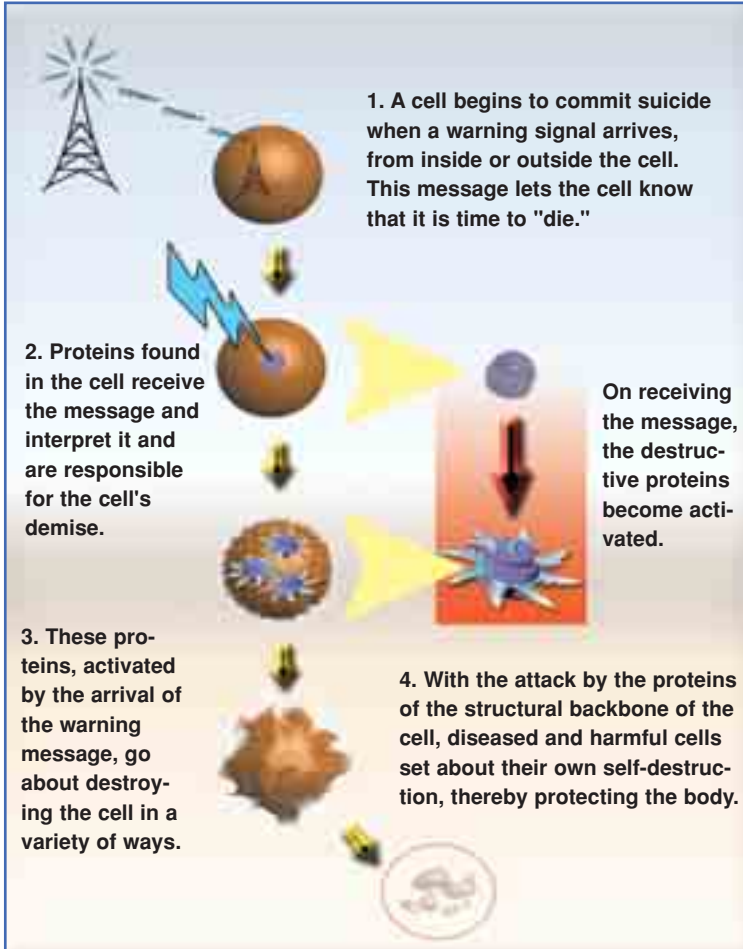
Many cells produce a series of proteins in order to destroy themselves when they become superfluous, defective or diseased. However, so long as a cell is beneficial to the body, these proteins are obstructed from doing their deadly duty. If the cell becomes diseased, turns renegade or cancerous, or begins to threaten the health of the organism, the fatal proteins are released and activated to kill off the offending cell.

The cell's ability to make the right decision at the right time and place is very important. In the event that it can't, that is, when the killer proteins are activated in a healthy cell, then healthy tissue will die, and the result will be death of the whole organism. But if the harmful or diseased cells are allowed to survive, then the organism may die too.

A cell that has "decided" to commit suicide and activated its killer protein, first shrinks and pulls away from its neighbors. Soon blebs appear on its surface, and it appears to boil. Then its nucleus and finally, the cell itself break apart. Other surrounding cells immediately ingest its remaining fragments.

A more interesting event is that the other living cells do not clean up all the dead ones. Some are deliberately left alone, because they have not yet completed their duties. For example, tissues such as the lens of the eye, the surface of the skin, and the nails are all composed of dead cells. But because the body has need of them, they are not destroyed. The important fact that trillions of cells in the body all make decisions about which dead cells to destroy and which to leave alone is a point worth reflecting on.

What gives the cell consciousness to make and apply such vital decisions? Who taught the cell to recognize conditions that bring



harm to the larger organism it finds itself in? And Who inspires this microscopic life form to ward off harm?

As has been explained here, all cells have been programmed in the best fashion to let organisms continue their existence. But in that case, Who is the Master of that program?

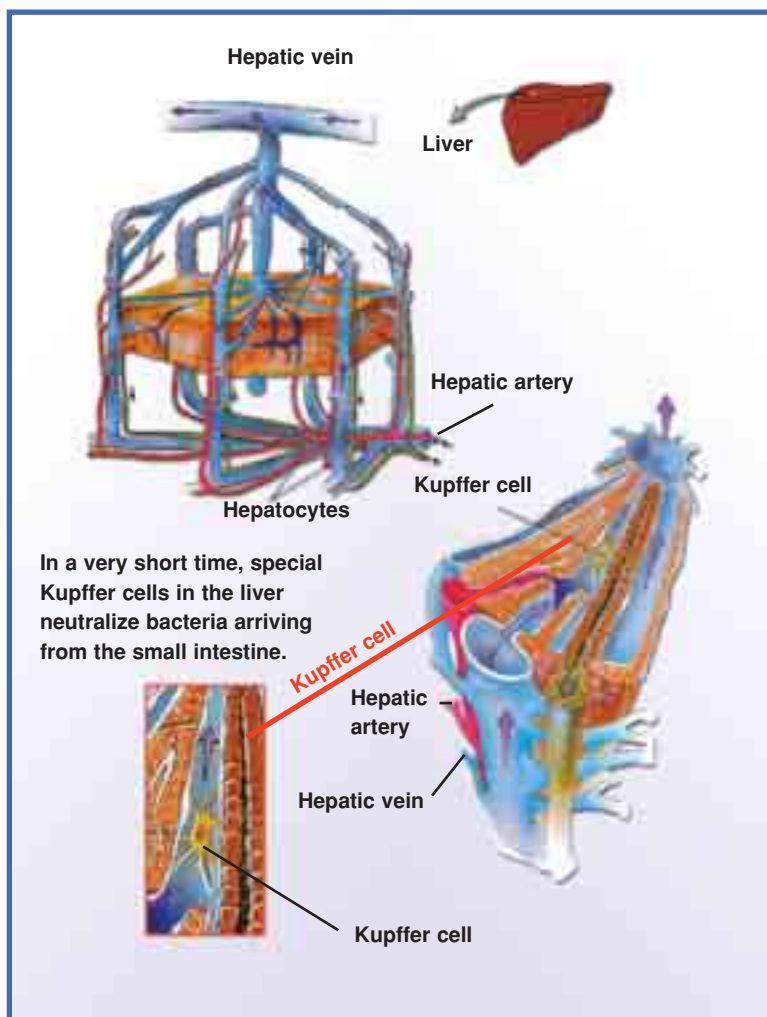
Evolutionists have become blind enough to believe that the master of this extraordinary program is unconscious coincidence. But God's unique creation and infinite knowledge are clearly manifested in every detail of a living organism.

BACTERIA-DESTROYING MACHINES IN THE LIVER

Bacteria that we cannot see enter our bodies through the food we eat, via the air we breathe, or by any number of other ways. Harmful bacteria must be neutralized before they upset the workings of the body. For this reason, certain cells in the body, whose sole duty is defense, have been endowed with perfect memory. However, as an example of the body's faultless design, many additional defense measures have been set up. One line of defense is provided by certain cells found in the liver—a strategic point in the circulatory system.

In less than 0.01 of a second, the so-called Kupffer cells digest and neutralize any harmful bacteria that pass through the bloodstream from the small intestine to the liver. Out of all of the countless bacteria that enter the body, how can these unthinking cells distinguish those that can cause harm from those that are beneficial? How can these cells destroy some bacteria, but leave others untouched—without knowing the bacteria's characteristics or what they will do, once inside the body?

At this point, another important fact requires consideration: that Kupffer cells are found in the liver. But why the liver, and not any other organ? Here is still another proof of our bodies' perfect creation. Had these cells been placed in any other organ in the body except the liver, the cleansing of the blood from bacteria wouldn't have been as effective. Because after being cleansed in the liver, the blood then enters the general circulatory system, to circulate throughout the entire body. And so, fewer than one in a hundred bacteria ever succeed in reaching the general circulation. What sort of blind coincidence could have ensured the placement of Kupffer cells in the liver, out of all the organs in the body? The



In a very short time, special Kupffer cells in the liver neutralize bacteria arriving from the small intestine.

cells themselves can't determine the most appropriate place for them to go, much less set about going there. The body is composed of approximately 100 trillion cells, and it's not possible for any one of them to possess consciousness enough to determine a spot for itself and travel to settle there. Such a faultless plan requires the existence of a superior mind, one that belongs to the One Who knows every inch of our body and Who created us from nothing in the most appropriate of designs—that is, God.

YOU ARE NEVER IN CONTROL OF YOUR BREATH, BECAUSE SOME OF YOUR CELLS CONTROL IT FOR YOU

If regulation of our breathing were left up to us we would probably die of asphyxiation from forgetting to breathe, falling asleep or being preoccupied with other activities.

For every human being, this crucial process is regulated by the respiratory center, which is the size of a lentil bean and is located in the brain stem (an extension of the brain). It is made up of three different groups of neurons.

The first group determines the basic rhythm of breathing and gives the lungs and the chest the signal to inhale air. In this way, we breathe in the air we need.

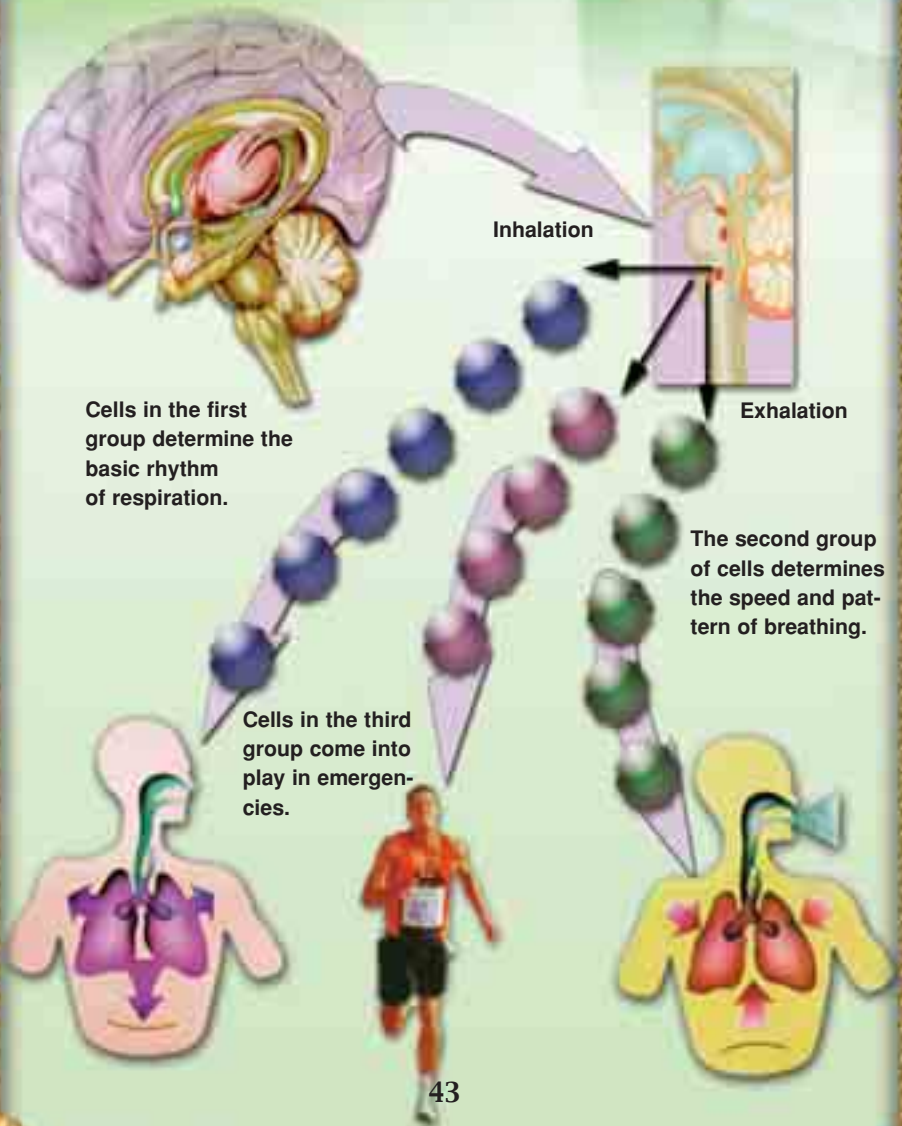
The second group of cells determines the speed and pattern of our breathing. When this second group comes into play, however, the cells signal to the first group to halt their activity. This controls the air capacity of our lungs, and our breathing speeds up.

The third group, on the other hand, is not normally active. They come into play when a high rate of breathing is needed and they ensure that the abdominal muscles participate by sending them signals.

Is all of this enough to keep us alive? No.

Respiration is also controlled chemically. Breathing's aim is to maintain the correct balance of oxygen and carbon dioxide in our blood. Any change in this balance activates a group of cells in the respiratory center, bringing the levels back to normal with very sensitive adjustments.

But the amount of oxygen in the blood has no direct effect on the respiratory center. In that case, how does the respiratory center become aware of the change in oxygen level in the blood?



CONSCIOUSNESS IN THE CELL

At this point, another group of cells comes into action, displaying a miraculous consciousness. In large veins outside of the brain, such as the jugular, highly sensitive receptors send signals to the respiratory center when the blood oxygen level falls below a certain level. In this way, respiration is regulated with very finely tuned adjustments.

How can a group of cells know how much oxygen is needed for the body to stay alive?

How can these cells have used such a mechanism, which has been in place from the first human until now, when only in the last 20 years has science discovered this mechanism?

Moreover, this mechanism is so sensitive that for the entire duration of our lives, no mistake is ever made when sitting, running or sleeping. It ensures that at every second, vital oxygen is carried to the 100 trillion other cells in our body, and that harmful waste products like carbon dioxide and hydrogen ions are speedily removed.

Even though they know the truth, some scientists, fanatically committed to the theory of evolution because of their obsession with materialism, claim that this perfection came about as a result of blind coincidence. Whereas the Creator of this perfect order is clearly the Possessor of infinite intelligence—that is, God.



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YOUR CELLS CAN DO WHAT YOU CANNOT

Pretend that various samples of powdered metal are placed before you, and you are asked to determine what each metal is. Would your analysis be correct?

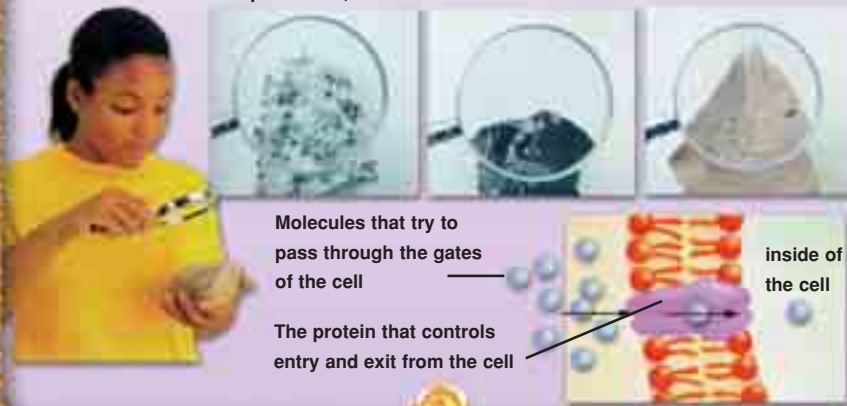
If you haven't been educated in the field of metallurgy, this would be impossible for you. But this analysis, which a conscious being like you cannot perform, is done quite easily by the approximately 100 trillion cells in your body—and without any thinking, or calculations, or difficulty. Moreover, not only the cells in your body have this ability, but so do the untold trillions of cells in the bodies of the billions who have ever lived on Earth.

Your cells can easily recognize iron, which your body needs, and can absorb it for use. With the same ease, cells can recognize phosphorus, nitrogen, oxygen, sodium, potassium and other substances and can gather them together to use, or else store the excess. They can even send out any extra material that isn't needed.

Consider that the cell is a structure made up of proteins, molecules, and atoms and is about a thousandth of a millimeter in size. It has no hands or arms, no eyes, ears or brain. Unlike you, it has no consciousness. If so, how can it recognize these substances?

This ability is brought about by God's inspiration to each cell. It is the Possessor of knowledge and power Who confers this ability requiring clear insight and consciousness, upon blind and unconscious atoms.

Most people cannot identify minerals placed in front of them. However, cells in our body can distinguish between minerals, oxygen, sodium and potassium, and isolate the elements it wants and take them in.



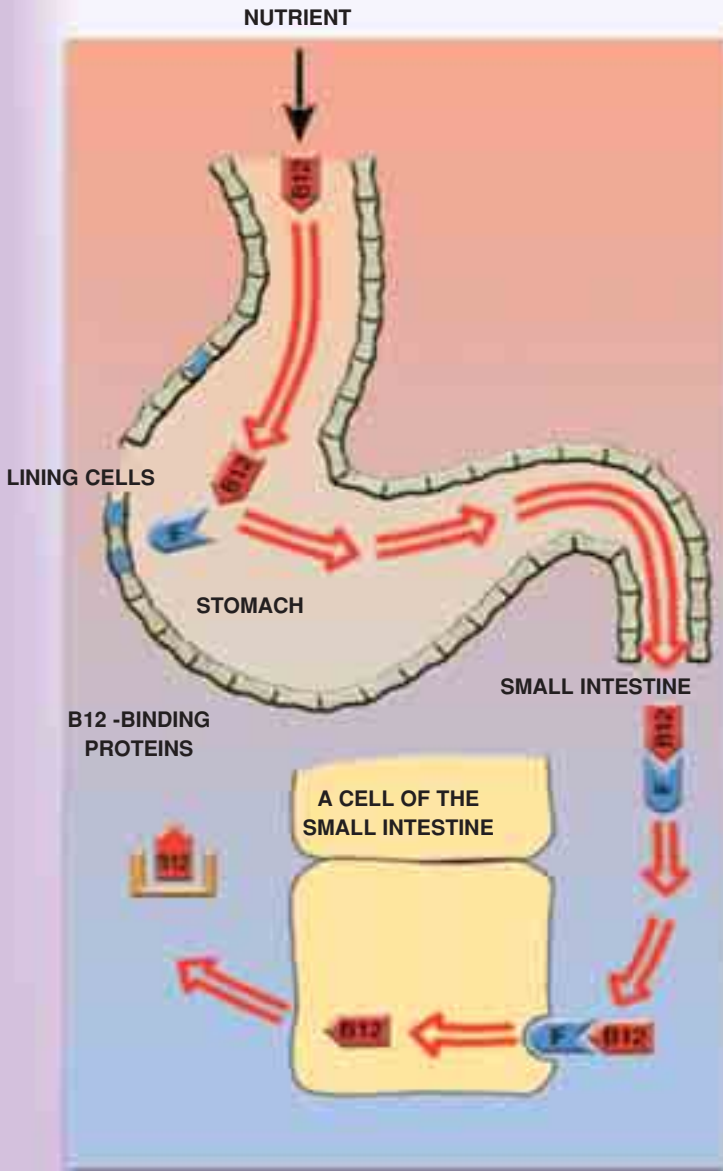
YOUR LIFE CONTINUES BECAUSE OF THE CONSCIOUS DIVISION OF LABOR OF YOUR CELLS

Vitamin B₁₂ is very important for the continuation of life because it is used in the production of blood. Vitamin B₁₂ deficiency leads to anemia, which can lead to death. However, the body cannot use this vitamin on its own. This is why stomach mucous secretes a substance that allows vitamin B₁₂ to be absorbed and play its vital role in blood production. In a special place in the small intestine, there are cells whose sole duty is to absorb vitamin B₁₂.

Now, blood production, after a series of complicated processes, takes place mainly in the bone marrow. But most bone marrow is located far away from the stomach. How can the use of a vitamin needed by the bone marrow depend on a substance made by stomach cells? And how is it that a few cells, at a specific site in the small intestine, take upon themselves the duty of absorbing this vitamin?

For all of this to occur, cells in both the stomach and the small intestine must possess knowledge, being aware and in control of the details of blood production—a process that takes place a very far distance away. In addition, they must realize how important this production is for the body. In short, in the deepest and darkest of places in your body, systems and amazingly conscious processes take place between cells, leaving scientists dumbfounded upon learning about them.

Without a doubt, these cells cannot will such clear consciousness and faultless processes to take place. It is God, the Lord of the heavens and the Earth, Who created the vitamin B₁₂ and programmed cells with the knowledge to be able to use it.



Vitamin B₁₂ is used in bone marrow. It is absorbed by the stomach and small intestine, then sent to the bone marrow.

FOR EVENTS TO TAKE PLACE IN YOUR CELLS, KNOWLEDGE IS REQUIRED

Digested food that has come from the stomach to the small intestine contains very strong acids—posing a serious danger to the duodenum, because unlike the stomach, the duodenum has no special lining to protect it from acid.

So how is it that the duodenum escapes damage from the acids in digested food? Determining the answer requires us to examine the events that take place during digestion, and an awareness of the amazing processes that occur in our bodies.

When the level of acid reaching the duodenum from the stomach becomes dangerously high, the walls of the duodenum release a hormone called secretin, which protects the duodenum and is found in the walls of the small intestine in an inactive form, called prosecretin. On contact with acid, prosecretin is converted into secretin.

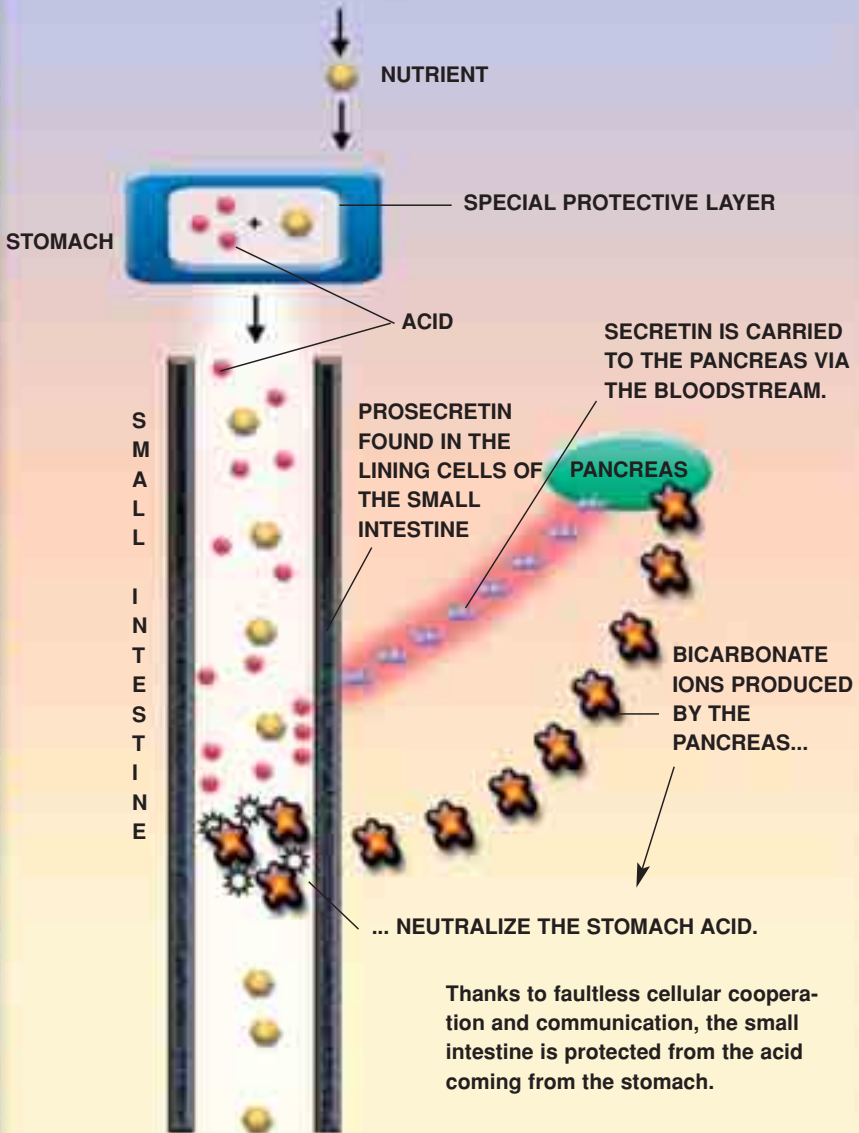
Released into the bloodstream, secretin travels to the pancreas where it stimulates the release of enzymes. The pancreas, on learning by the presence of secretin that it is in trouble, sends to the duodenum bicarbonate ions that neutralize the acid and thereby protect the duodenum.

How did these processes, so vital to human life, come about? Located in the pancreas is "knowledge" of the substance needed by the duodenum cells, and the formula to activate them. The way the pancreas "understands" the message sent by the duodenum, and its subsequent release of bicarbonate ions are all miraculous.

Here, in talking about the intestinal cells, we use terms like "knowledge" and "understanding" to emphasize the events that take place in the human body. However, as every conscious person can appreciate, it is impossible for a cell to think, to possess

the will to make decisions, or to be aware of what's transpiring with other organs and produce enzymes and hormones in response.

The unique Possessor of knowledge, Who created these cells together with these capabilities, is God. With these features that He has created in our own bodies, He demonstrates to us His infinite power.



Thanks to faultless cellular cooperation and communication, the small intestine is protected from the acid coming from the stomach.

WHEN YOU EAT SUGAR, A GIANT FACTORY GOES TO WORK IN YOUR BODY

If you happen to eat food that contains more sugar than you need, what prevents a rise of sugar in your blood?

1. First of all, cells in your pancreas locate and isolate the sugar molecules, out of hundreds of other molecules in the blood. In addition, it decides whether the number of these molecules is too great or too small—that is, they are effectively counted. Tiny cells that you can't even see with your naked eye, that have no eyes, brains or hands, can calculate the number of sugar molecules in the blood plasma—this is certainly something worth thinking about!

2. If these pancreas cells determine that the blood contains too many sugar molecules, they decide to store this extra sugar. They cannot carry out this storage process themselves, however, stimulate other cells located very far away to do this for them.

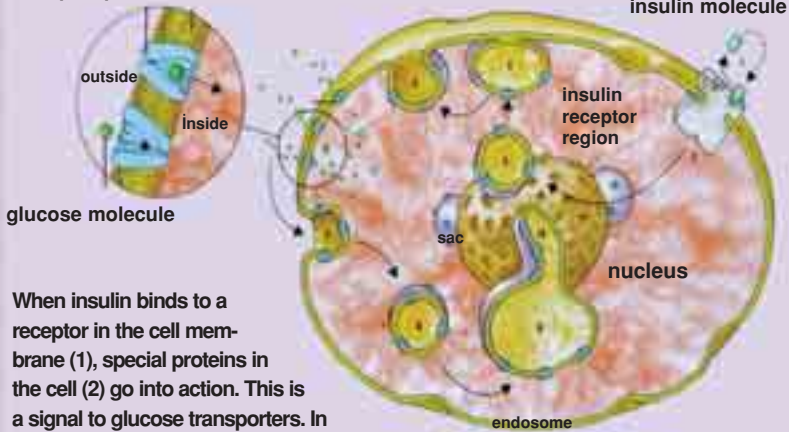
3. But these distant cells will not store sugar unless they receive an order to do so. So the pancreatic cells release a hormone that tells these distant cells to start storing sugar. The formula for this hormone, which we call insulin, is encoded in the DNA of the pancreas cells since they were first formed.

4. Next, special enzymes, or worker proteins found in the pancreatic cells read this formula, then begin producing insulin according to its directions. To effect this synthesis, hundreds of different enzymes go at work on different tasks.

5. The synthesized insulin is then dispatched to the target cells, through the blood—which is the most reliable and speedy manner.

6. Other cells that read the insulin's order to store sugar obey this command without fail. Gateways open up, allowing the sugar molecules to pass through into the cells.

transport protein cell membrane



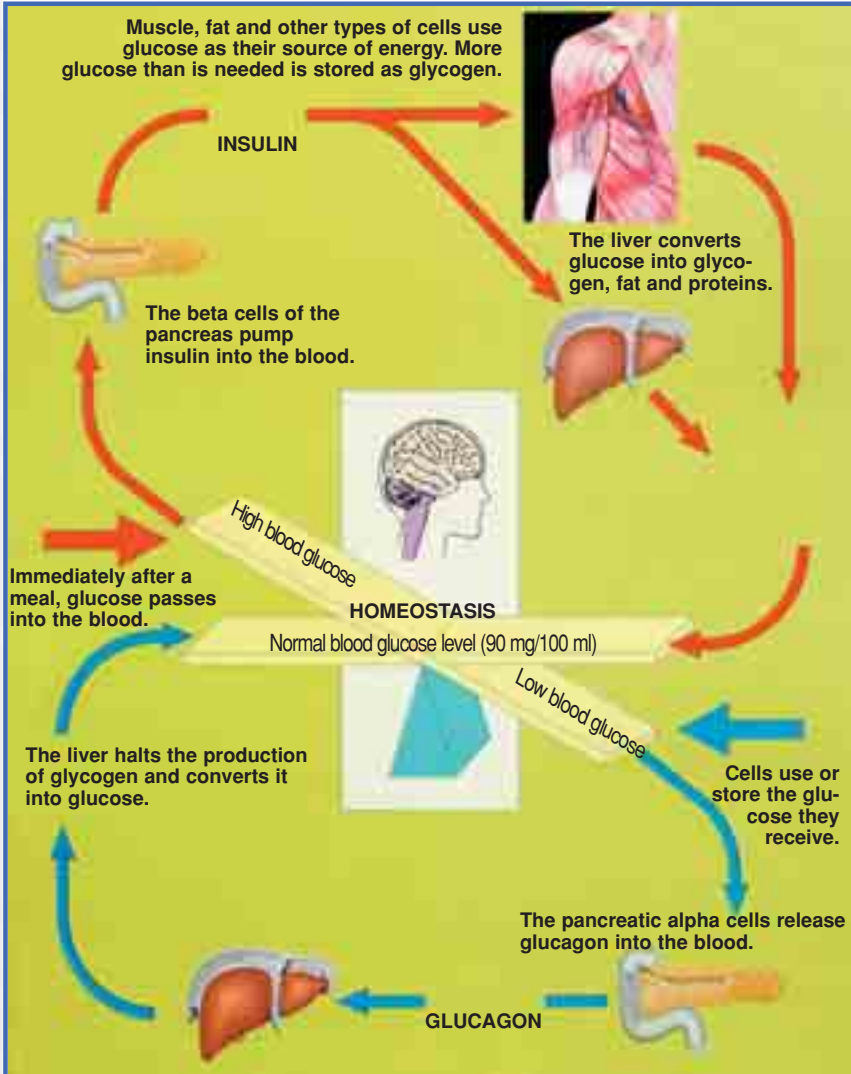
When insulin binds to a receptor in the cell membrane (1), special proteins in the cell (2) go into action. This is a signal to glucose transporters. In addition, there are glucose sacs in the inner part of the cell (3). Some are close to the cell membrane (4). On receiving the signal, these sacs move towards the cell membrane and fuse with it (5), exposing the glucose transporters (6). With the increase in the number of transport proteins that take glucose into the cell, the glucose level in the blood drops and less insulin is produced. A short while later, a portion of the cell membrane, together with the transport proteins, curls around towards the inside of the cell (7), forming a vesicle (8). Moving toward the middle of the cell, it combines with the endosome (9). Here, once new sacs are formed, it awaits a new signal (10), and the process continues.

7. These gateways don't open up indiscriminately, however. Out of the hundreds of different molecules in the blood, storage cells isolate, capture, and take in only sugar molecules.

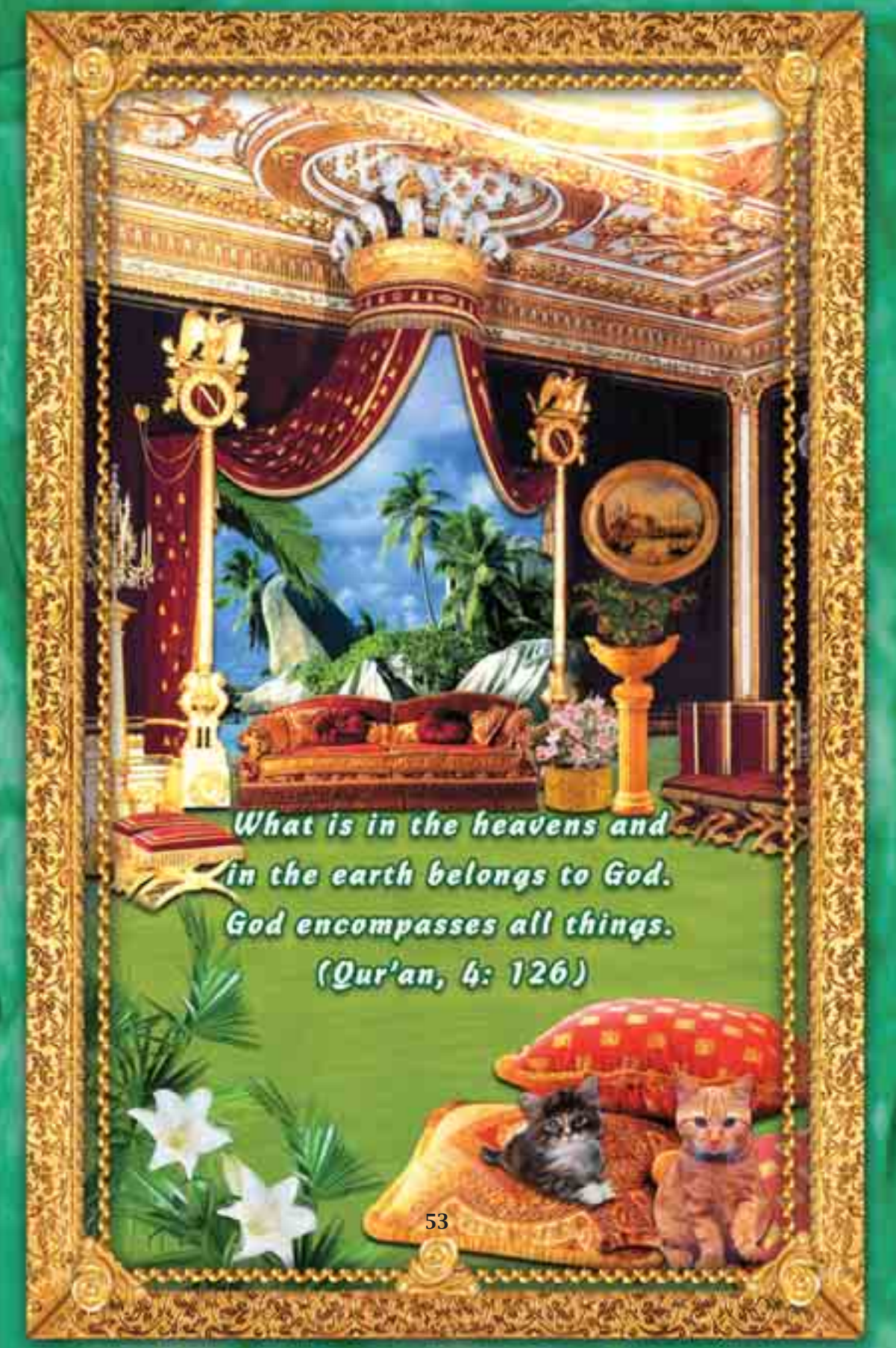
8. Under no circumstances do the cells disobey the orders that reach them. They don't misread the order, or try to capture other molecules, or try to store more sugar than they need to. They work with great discipline.

When you drink tea that has too much sugar in it, this extraordinary system goes into action and stores the excess. If this system were not working, your blood sugar level would rise to the point that you would slip into a coma and die. This is such a perfect system that if need arises, it works in exactly the opposite direction. If your blood sugar level falls below normal, the pancreas produces a completely different hormone called glucagon, which sends a "Release sugar into the blood" command to those same cells that had stored it previously, and these cells obey.

CONSCIOUSNESS IN THE CELL



How is it that these cells, possessing no brain, nervous system, eyes, or ears, can carry out such fine calculations and perform them so perfectly? How can this unconscious tissue, the products of protein and fat, carry out amazing functions that even people cannot? What is the source of the obviously great consciousness displayed by these unconscious molecules? All these events are evident signs of the existence and power of God, Who is Ruler over the whole universe and all creatures.



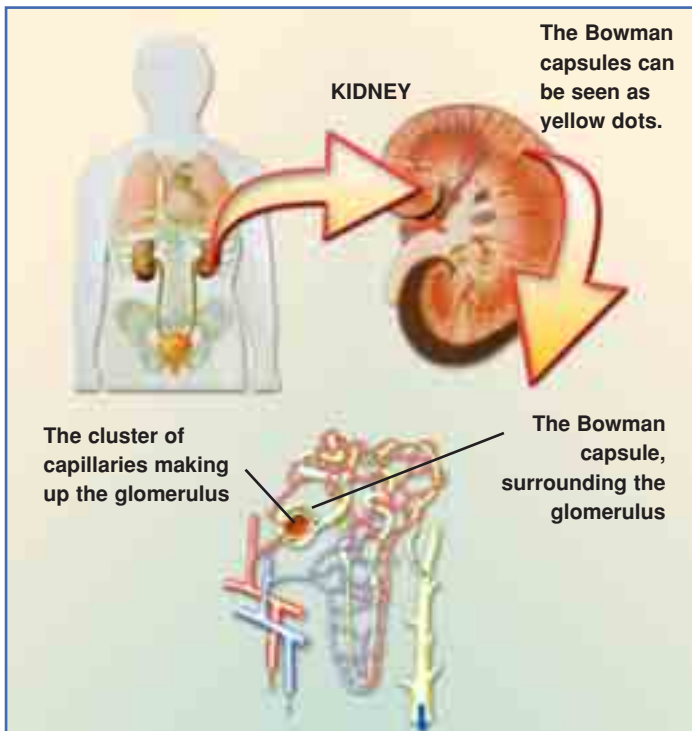
*What is in the heavens and
in the earth belongs to God.
God encompasses all things.
(Qur'an, 4: 126)*

CLEAR PROOF OF CREATION: KIDNEYS THAT DISTINGUISH BETWEEN GLUCOSE, PROTEIN AND SODIUM

Throughout your life, your two kidneys cleanse the blood flowing throughout your body.

Some of the material that they filter out is sent back to the body, while the rest, of no further use, is discarded into the bladder. But how do the kidneys distinguish between protein, urea, sodium, glucose and many other substances?

The structure that filters waste products from the blood is a cluster of capillaries, called the glomerulus. Unlike capillaries in



other parts of the body, these are surrounded by a membrane composed of three layers. And with great meticulousness, these three layers decide which substances will be filtered and excreted, and which will be retained and sent back to the body. Now, on what basis—and with which mechanism—does a cell membrane analyze, one by one, substances coming through the bloodstream and decide where they need to go?

In any liter of blood, there are dozens of dissolved compounds that reach the kidneys, including glucose, bicarbonate, sodium, chlorine, urea, and creatine. The kidneys excrete from the body some of these substances entirely, remove only parts of some others, and still others they return to the bloodstream in their entirety. But how does a piece of tissue decide which substances to discard, and how much? The answer lies in the fact that kidney tissue has been created with a perfect plan.

The glomeruli's selectivity is determined by the electric charge and size of the molecules it detects in the blood. This means that the glomeruli have the ability to determine the molecular weight of the sodium and glucose and the negative charge of the proteins all mixed up in the blood. In this way, proteins vital to the body are not discarded, but retained for further use.

But the glomerulus is made up of capillaries only. How do you suppose that a structure can possess such superior discrimination, even though it's never been educated in chemistry, physics or biology? The glomeruli can carry out such functions faultlessly because they act through the inspiration given to them by the One Who created them—that is, God.

Under no circumstances is their selection of substances left to chance. If it were, by the time these unconscious organs located the correct molecules, our bodies could no longer function. All of this is just one proof of the perfect creation of God.

WHAT GOES ON IN YOUR BODY WHEN YOUR BLOOD PRESSURE DROPS?

In our daily lives, frequently we hear people complain, "My blood pressure's too low" or, "I've got high blood pressure." Very few of them are even aware that regulating their blood pressure is the duty of the kidneys.

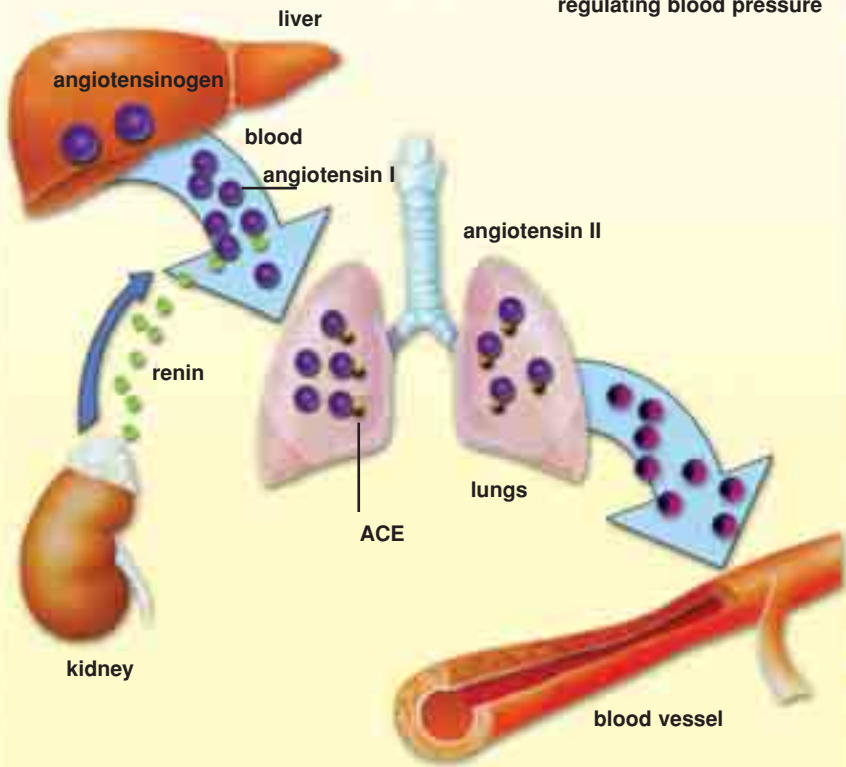
Aside from many other bodily functions, the kidneys have also taken up the task of adjusting blood pressure or tension. In determining blood pressure, the most important factor is the amount of fluid in the blood vessels. Along with any increase of fluid in the veins and arteries, blood pressure increases—thereby causing long-term harm to all organs in the body. Hypertension—that is, an increase in the amount of fluid in the blood vessels poses a dangerous situation for human beings. If measures are not taken, death will result.

The body's able to sense an increase in fluid in the blood vessels, thanks to receptors located in the front chambers of the heart. The heart stretches when a large amount of fluid enters it and, in response to this, receptors send a signal to the brain, which responds by causing the renal arteries to increase their filtering action. An increase in blood pressure causes the heart to stretch even more. With this stretching, the muscle fibers are extended, releasing messenger molecules trapped within them, which then enter the bloodstream.

This "message" thus reaches the kidneys through the circulation. In response, the amount of fluid excreted from the body increases. In this way, blood pressure returns to normal, and the heart can resume its normal beating.

The kidneys' duty in regulating blood pressure doesn't end there. In circumstances where the blood pressure is too low, an

The system that's vital for regulating blood pressure



CONSCIOUSNESS IN THE CELL

enzyme called renin is secreted by specialized cells of juxtaglomerular apparatus, or JGA located in the kidneys. Renin has no direct effect in raising blood pressure, however. It combines with angiotensinogen, another substance secreted far away in the liver, to form angiotensin I in the blood.

Once again, angiotensin I has no major effect on blood pressure. This hormone is in turn converted to angiotensin II, by the action of another substance present in the lungs called angiotensin-converting enzyme, or ACE. This enzyme's sole duty is to degrade angiotensin I.

And so, the end product of all of these steps is the only molecule that directly affects blood vessels and actually brings blood pressure back to normal. If this "ultimate" molecule is not synthesized, none of its precursors can have any effect on blood pressure. Again, only when the angiotensin II molecule binds to specific receptors on the cell surface, do the vessels constrict and blood pressure increases.

Here, the most important point to consider is that each of these substances' effects are interdependent. Since the absence of one molecule means the absence of all, how could even one of these steps have evolved through chance? For if even one step cannot come about by chance, then it's impossible for all the others to arise at the same time, in one single body.

No one could argue that coincidence can confer upon the kidneys the ability of understanding, or to take precautions or make decisions. That all these details exist at the same time is a clear indication that they were created by God.

He is God—the Creator, the Maker, the Giver of Form. To Him belong the Most Beautiful Names. Everything in the heavens and Earth glorifies Him. He is the Almighty, the All-Wise. (Qur'an, 59: 24)

HARUN YAHYA



THE CONSCIOUSNESS OF THE CIRCULATORY SYSTEM

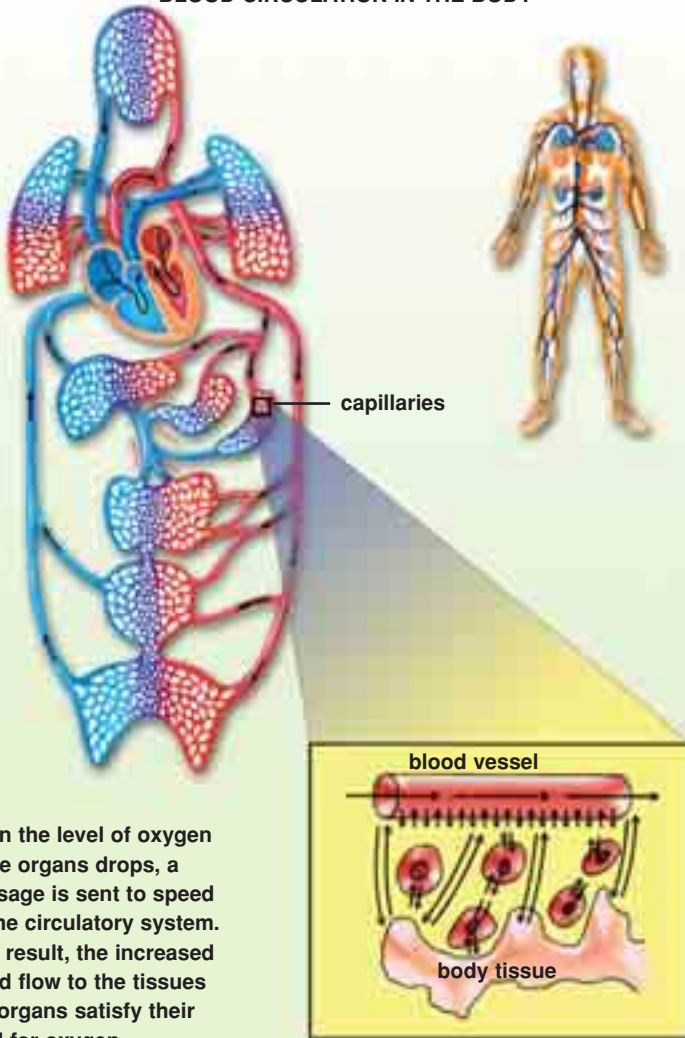
Oxygen is one of the most important substances needed for the life of body tissues. For this reason, oxygen must be delivered to the tissues constantly, and in sufficient quantities. One of the body's most important components is the perfect circulatory system, which faultlessly performs this oxygen-carrying duty. When the oxygen levels in the tissues fall, an immediate, automatic and substantial increase in blood flow ensues. It's a known fact that if the need arises, the blood flow can increase by a factor of seven.

The working components of this system include tissues, cells, blood vessels, and proteins—none of which has any consciousness, knowledge, or decision-making mechanism. Most people live out their lives ignorant that such a mechanism even exists! So Who is the possessor of the knowledge, mind, and decision-making ability to perceive the drop in oxygen level in the tissues, inform the circulatory system, order it to increase blood flow, and finally bring the flow back to normal after the danger has passed? Who determines what type of information should be sent to which cell? And how can the cells that receive the message read, understand and apply it? No cell can possibly have the ability to read or understand. Much more can be researched about this topic, but the conclusion will always be the same: No cell has the consciousness able to conduct these processes to maintain the balance in the level of oxygen.

As with all other creations in the universe, animate and inanimate, the structures and systems in our body all act according to God's commands. The consciousness in every atom, molecule, and protein in the cells, organs, and bodies of all creatures is a product of God's creativity.

HARUN YAHYA

BLOOD CIRCULATION IN THE BODY



When the level of oxygen in the organs drops, a message is sent to speed up the circulatory system. As a result, the increased blood flow to the tissues lets organs satisfy their need for oxygen.

Oxygen-carrying red blood cells

That is God, your Lord. There is no deity but Him, the Creator of everything. So worship Him. He is responsible for everything. (Qur'an, 6: 102)

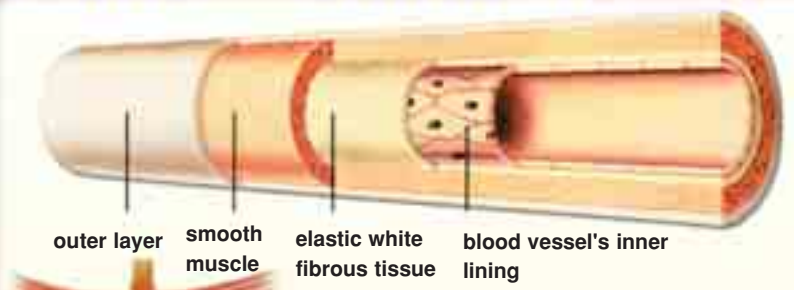
NITRIC OXIDE: THE MIRACLE MOLECULE THAT DILATES BLOOD VESSELS

Three scientists who won the 1998 Nobel Prize in Physiology or Medicine discovered that molecules of nitric oxide (NO), released by blood vessels, had the ability to relax them. The NO molecule regulates tension in the walls of blood vessels, but doesn't carry out this act by itself. Rather, it functions as a mediator in relaxing the blood vessel.

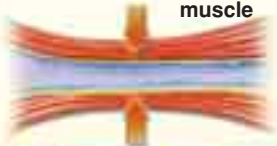
To understand how this cascade process works, examine the diagram on the next page. For the vessels to relax, first of all some hormones in the blood start the process by sending an alert, binding to receptors found in the blood vessel lining. We can compare this to a domino effect, when a single domino falls and brings down a whole row of others. Immediately after the hormone sets off an alert signal by binding to the receptor, the vessel lining "realizes" what it must do and begins producing nitric oxide. Some of the NO molecules, "knowing" what they have to do as soon as they are released, head quickly for the vascular smooth muscle cells. Entering the cells, they bind to an enzyme.

This is the second step. But in order for the vessel to relax, yet a third step must be reached. Once NO has combined with the enzyme in the smooth muscle cell, GTP (guanosine triphosphate) is converted to cyclic guanosine monophosphate, or cGMP. Obviously, this newly synthesized molecule has a role to play in this cascade and, to bring this about, it makes its way to myosin. Myosin is a necessary protein needed in the contraction and relaxation of muscle cells. Here, the final step has been reached. With the action of myosin the last domino falls, and the muscle cells relax.

Reviewing these steps again, we see that the hormones and



outer layer smooth muscle elastic white fibrous tissue blood vessel's inner lining



Hormones make their way through a blood vessel,



and bind onto receptors on the blood vessel lining.



A chain reaction is initiated.



The vessel lining begins production of nitric oxide.



Nitric oxide molecules reach the vascular smooth muscle cells.



Nitric oxide binds onto an enzyme in the cell.



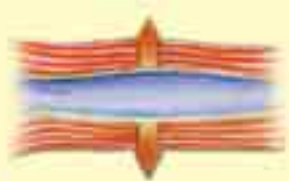
In this way, the activated enzyme begins to synthesize cGMP from GTP.



cGMP then travels to the myosin and activates it.



As a result, the muscle cells relax and dilate.



CONSCIOUSNESS IN THE CELL

cells taking part in this process act in a thoroughly knowledgeable manner. The alerting hormones found in the blood go to the appropriate place, influencing the vessel lining and initiating the process. Similar insight is displayed throughout the rest of the whole process. Every signal makes its way to the correct place in the body, never getting lost in that very dark place, and always meeting with success.

But how can these cells, hormones and molecules effect such conscious actions? Could this consciousness be one of their innate properties? Certainly not! But knowledge and consciousness is certainly necessary to direct all these processes, to let cells know when and what to produce and to inform hormones and other molecules of the correct "address" and show them the way. The inspiration of this infinite knowledge, informing the cells, hormones and other molecules of their necessary actions, emanates from God.



*It is He Who is God in heaven
and God on earth. He is the
All-Wise, the All-Knowing.
(Qur'an, 43: 84)*



TO PROVE DARWINISM'S ABSURDITY, ONLY ONE EXAMPLE IS SUFFICIENT

It's highly illogical to claim that millions of events, all occurring by coincidence, gave life to inanimate matter and formed perfectly working processes and structures of faultless design. To realize this, you need only to consider the following example:

One of the transport proteins in the blood, called albumin, binds to lipids such as cholesterol and to hormones, toxic bile and medicines such as penicillin. Then it circulates through the bloodstream traveling throughout the body after which it arrives at the liver and deposits the toxins it has gathered there to be neutralized, and then continues on carrying the nutrients and hormones to wherever they need to go.

Now ask yourself these questions:

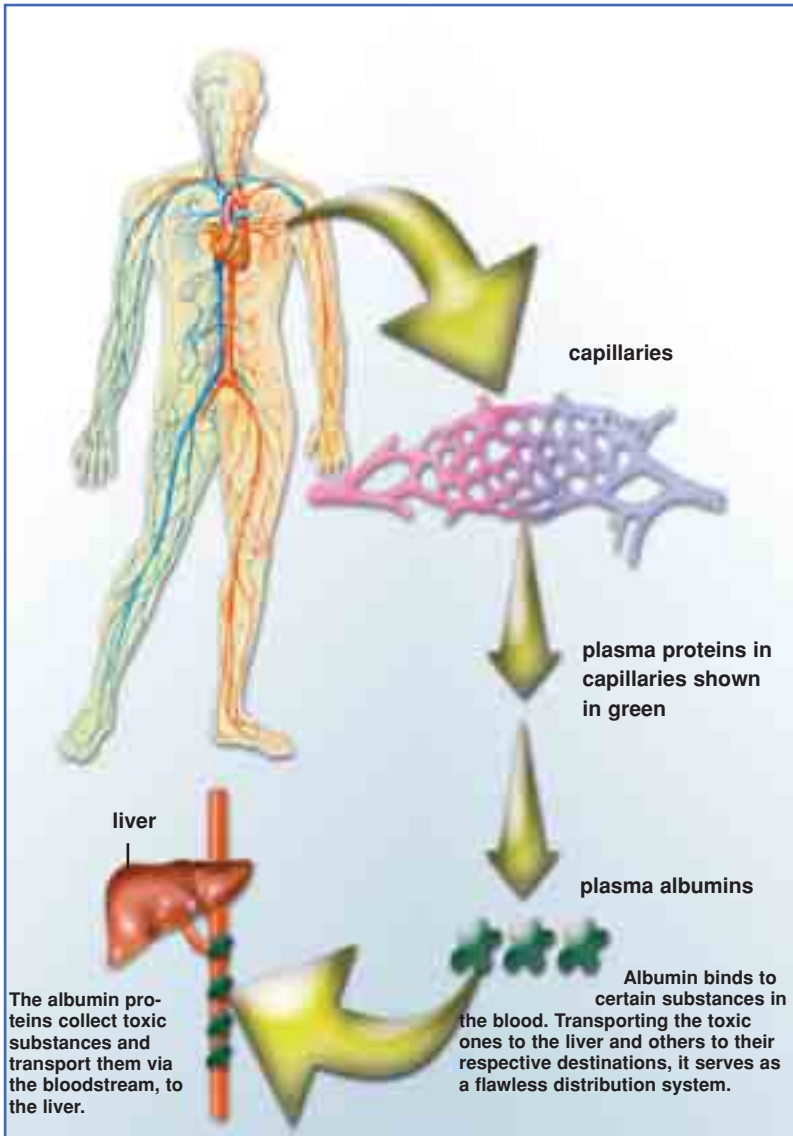
1. How can a molecule like albumin, made up of atoms and having no consciousness or knowledge, distinguish between lipids and toxins, medicines and nutrients?

2. Moreover, how can it recognize the liver, bile, and stomach and then deliver the correct substances to the correct places every time, never getting confused or losing its way?

If you examined the toxins, medicines and nutrients carried in the blood under a microscope you wouldn't be able to distinguish between them unless you had medical training. Certainly you couldn't determine how much and of which type of substance needed to go to which organ.

A few unconscious atoms, combined into the albumin protein, have been faultlessly carrying out this duty in the bodies of all human beings for millions of years—a process that the majority of human beings couldn't manage if they hadn't any training. Undoubtedly this display of purpose and intent by a group of atoms is possible only by the infinite power and knowledge of God.

***Your deity is God alone, there is no deity but Him.
He encompasses all things in His knowledge.
(Qur'an, 20: 98)***



EVERY SINGLE PROTEIN IN YOUR BODY POSSESSES FAULTLESS DESIGN AND VITAL DUTIES

The most effective way to show that coincidences have no powers to create is to expound on the proofs of God's existence. Take an example from your own body.

Whether standing up or raising your arms, all your movements are carried out as a result of the action of your muscles. For us to perform these actions, our muscle cells require a continuous supply of oxygen. The duty of transporting oxygen to the muscle cells has been taken up by one of our body's proteins called myoglobin. It very much resembles hemoglobin, another protein whose duty is to transport oxygen in the blood. But the difference between the two is that myoglobin has the capacity to carry only one single oxygen molecule. Due to this feature of myoglobin, flow of oxygen to muscle cells is carried out in a slow, regulated manner.

Consider that hemoglobin, the protein that transports oxygen in the blood, swaps places with the myoglobin that transports oxygen from the lungs to the muscle cells. In such a situation, myoglobin won't be able to carry sufficient oxygen to the body. On the other hand, hemoglobin will carry too much oxygen to muscle tissue and will deposit it suddenly, upsetting the balance of the entire body. But no such thing ever happens; and both proteins are always found in the right place at the right time. As a result, we breathe comfortably and we can move as freely as we please.

Of course, hemoglobin and myoglobin are only two of the proteins found in the human body. Similarly, other proteins in the body have characteristics that fulfill the body's needs and are produced where they are needed. As these examples show, it's not possible for the human body's perfect design to have come about by chance. The Possessor of this perfect design is God, the Lord of the worlds.

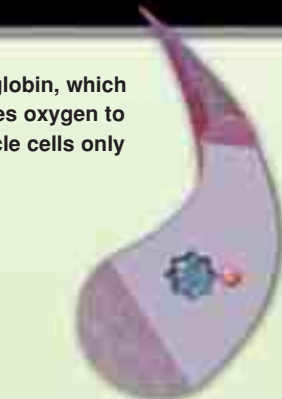
***Is He Who creates like him who does not create?
So will you not pay heed? (Qur'an, 16: 17)***

Myoglobin, assigned the duty of transporting oxygen to the muscles, has the capacity to carry one oxygen molecule. But hemoglobin, which transports oxygen to other tissues, has a higher oxygen-carrying capacity. In this way, each kind of tissue receives just the needed amount of oxygen.

MYOGLOBIN



Myoglobin, which carries oxygen to muscle cells only



HEMOGLOBIN



Hemoglobin in blood vessels that transports oxygen to cells



ENZYMES THAT IDENTIFY MISTAKES

Due to external factors, mistakes occasionally arise in the DNA, the body's information bank. But these mistakes are fixed immediately by a control mechanism or repair process, effected by enzymes that are synthesized according to information found in the DNA itself.

The repair process is made up of a number of steps:

1. An enzyme called DNA nuclease identifies the damaged portion of the DNA strand.

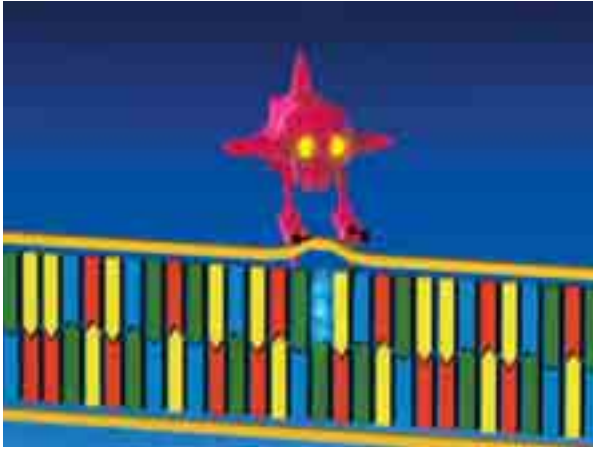
2. DNA nuclease removes the identified faulty portion, creating a gap in the strand.

3. Another enzyme called DNA polymerase identifies the correct information from the undamaged strand of DNA, then repairs the damaged strand according to this undamaged model.

4. The repair process does not end here, however. A gap has been left in the sugar phosphate "backbone" in the area where the repair has taken place, but an enzyme called DNA ligase fills in this gap.

As you can understand from the functions they carry out, the enzymes that repair the DNA possess many multiple functions. In order to repair DNA, they must be very familiar with it. Moreover they must know where to get the correct information, and how to fill the gap that results.

The most amazing part is that the synthesis of DNA and the enzymes controlling its synthesis are all produced according to information stored within that same DNA, and are under the control of proteins made by that DNA. It is impossible for this magnificent system, with processes occurring within processes, to have come about in stages, by coincidence. In order for the enzymes to exist, DNA must exist to begin with; and in order for DNA to exist, the enzymes need to exist! But in order for them both to exist, the



1. During DNA synthesis, the DNA nuclease enzyme individually checks each paired strand for mistakes.



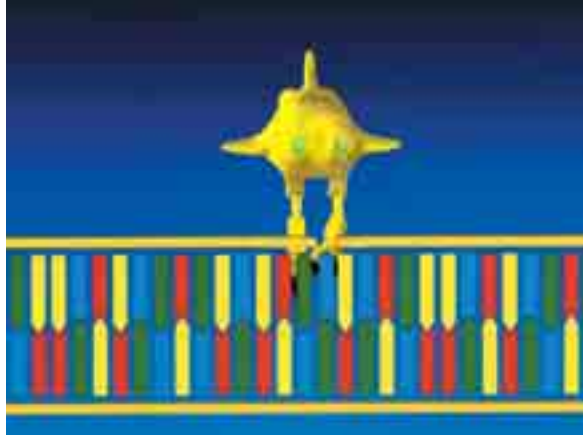
2. Upon detecting a mistake, it immediately removes the incorrect chemical.



3. At this point, the DNA polymerase enzyme takes action to bring the correct chemical.

CONSCIOUSNESS IN THE CELL

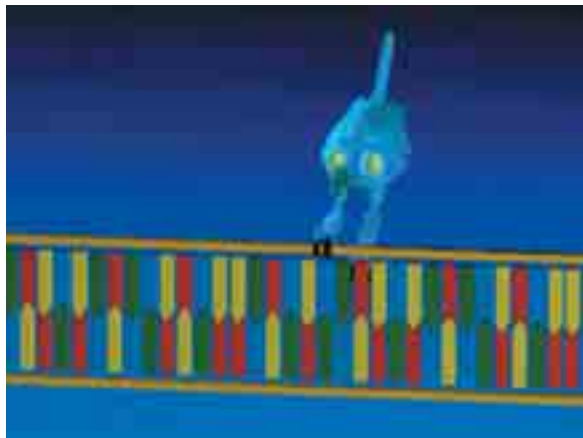
4. Using this proper component, DNA polymerase then fills in the gap.



5. A third enzyme called DNA ligase detects the broken strand and arrives at the site.




6. And using the right materials, it fills in the gap.



HARUN YAHYA

cell and the membrane and all of the other complex organelles must be in existence as well.

The theory of evolution that claims that living things came about gradually, as a result of "beneficial coincidences," is denied conclusively by the DNA-enzyme paradox, because DNA and its enzymes need to be in existence at the same time. This shows the evidence of a conscious creation.



*Everyone in the heavens and
Earth belongs to Him. All are
submissive to Him.*

(Qur'an, 30: 26)

BELIEF IN DARWINISM IS AS LOGICAL AS BELIEF IN A FAIRY TALE

The letters you see in the table on the opposite page are not in random order. Actually, they are part of the description containing information about hemoglobin, the protein that transports oxygen in the blood. This description is recorded in DNA, which contains all of the information relevant to the entire body. When hemoglobin needs to be synthesized, these letters are selected out of the three billion letters found in the DNA. This selection process is carried out by RNA polymerase, an enzyme so meticulous and careful that it never makes a mistake in reading or selecting the correct letters out of billions. It identifies the correct ones every time.

After selecting the correct letters and obtaining the description of the protein, it goes to the ribosomes, the cell's production center for protein synthesis.

The ribosomes read this description with the same meticulousness and care and, understanding the message, they then begin to synthesize the protein flawlessly.

This event is very organized and planned, just as architects and engineers design a skyscraper with the latest technology, the plans for which they then place in the hands of specialist builders and technicians.

Darwinists, on the other hand, claim that this superior degree of organization in a tiny area that can't even be seen with the naked eye, came about by coincidence. They claim that molecules formed from blind, unconscious, lifeless atoms display continual insight and somehow direct and engineer such faultless plans and organization.

To believe in such a claim as this is as illogical as believing that fairy tales are real. But Darwinism has hypnotized many people and blocked their powers of understanding.

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The letters below are instructions for the production of hemoglobin.

When the body needs hemoglobin, an enzyme called RNA polymerase identifies these letters one by one, out of three billion letters of the DNA, makes a copy of them, and orders them in the correct sequence. Later, it ferries the copied instructions to the site in the cell where production will take place.

CCCTGTGGAGCCACACCCTAGGGTTGGCCAATCTACTCCCAGGAGCAGGGAGGGCAGGAG
CCAGGGCTGGGCATAAAAGTCAGGGCAGAGCCATCTATTGCTTACATTTGCTTCTGACAC
AACTGTGTTCACTAGCAACTCAAACAGACACCATGGTGACCTGACTCCTGAGGAGAAGT
CTGCCGTTACTGCCCTGTGGGGCAAGGTGAACGTGGATGAAGTTGGTGGTGAGGCCCTGG
GCAGGTTGGTATCAAGGTTACAAGACAGGTTTAAGGAGACCAATAGAAACTGGGCATGTG
GAGACAGAGAAGACTCTTGGGTTTCTGATAGGCACTGACTCTCTGCTATTGGTCTAT
TTTCCCACCCTTAGGCTGCTGGTGGTCTACCCTTGGACCCAGAGGTTCTTTGAGTCCTT
GGGGATCTGTCCACTCCTGATGCTGTTATGGGCAACCCTAAGTGGAAGGCTCATGGCAAG
AAAGTGCTCGGTGCCTTTAGTGATGGCCTGGCTCACCTGGACAACCTCAAGGGCACCTT
GCCACACTGAGTGAGCTGCACTGTGACAAGCTGCACGTGGATCCTGAGAACTTCAGGGTG
AGTCTATGGGACCCTTGATGTTTTCTTCCCTTCTTTCTATGGTTAAGTTCATGTGAT
AGGAAGGGGAGAAGTAACAGGGTACAGTTTAGAATGGGAAACAGACGAATGATTGCATCA
GTGTGGAAGTCTCAGGATCGTTTTAGTTTTCTTTATTTGCTGTTCCATAACAATTGTTTT
TTTTGTTAATTCTTGCTTTCTTTTTTTTTCTTCTCCGCAATTTTACTATTATACTTAA
TGCTTAACATTGTGTATAACAAAAGGAAATATCTCTGAGATACATTAAGTAACTTAAAA
AAAACCTTACACAGTCTGCCTAGTACACTATTGGGAATATATGTGTGCTTATTTGC
ATATTCATAATCTCCCTACTTTATTTCTTTTATTTTAAATTGATACATAATCATTATAC
ATATTTATGGGTTAAAGTGTAATGTTTTAATATGTGTACACATATTGACCAAATCAGGGT
AATTTGCAATTTGTAATTTAAAAAATGCTTTCTTCTTTAATACTTTTTTGTTTATC
TTATTTCTAATACTTTCCCTAATCTTTCTTTTCCAGGGCAATAATGATACATGTATCAT
GCCTCTTTGCACCATTCTAAAGAATAACAGTGATAATTTCTGGGTTAAGGCAATAGCAAT
ATTTCTGCATATAAATATTTCTGCATATAAATTGAACTGATGTAAGAGGTTTCATATTG
CTAATAGCAGCTACAATCCAGCTACCATTCTGCTTTATTTTATGGTTGGGATAAGGCTG
GATTATTCTGAGTCCAAGCTAGGCCCTTTTGCTAATCATGTTCCATACCTCTTATCTTCT
CCCACAGCTCCTGGGCAACG.CCCCTTTAAAGGGCCCAAATGAATTGCCCGTCA-
CATTGTCATCCTTTAAAAGTATTCGTAAGGGGGGTTTTTTAAAGGGGGTTAGCACC-
CCCCCCCCCCCCCCCCCTTTTTTTTTTCCCCCCCCCCCCCAGCCCTTTTTTTTT
AAGAGATAATCGATGACTGCATCGTACTGACTGCATGCATCGATCGATCGTACTGACT-
GCATGCATGCATCGATCGATGCACGACTGACTGACTACTGACTGCATGCATGCATG-
CATGACTGAGCTGACTGCATCGTACTGACTGTTTGATTATATACTGTACTGCATGCAT
CGTACTGTGCATGACTGTAGTGATGACTGCATGCATGTGTTGTGTTGTGGTTGTGT

ENZYMES POSSESSING CONSCIOUSNESS, KNOWLEDGE AND SKILL

When a protein needs to be synthesized in the cell, an enzyme called RNA polymerase goes to the cell's information bank, locates the information in the DNA relevant to the protein, then makes a copy of it for itself. But information about the protein is sometimes found dispersed throughout different regions of the DNA. Because RNA polymerase makes a copy of the entire DNA—from where the information begins to where it ends—it inevitably ends up copying regions that are of no use. The presence of irrelevant information would then result in a useless protein being synthesized. At this stage, enzymes called spliceosomes come to the rescue and, with great precision locate and remove the irrelevant information out of hundreds of thousands of bits of data, and finally join the leftover chains together.

Molecules, made up of only a few atoms, display great consciousness in this process of RNA splicing. They virtually work like editors, determining and fixing faults and mistakes in the chain. These atoms "know" the protein that RNA polymerase is trying to make, can distinguish between vital and useless information needed to make it, and can bring about the production of the particular protein at hand out of hundreds of thousands of other bits of information—all without any mistakes. Moreover, they know immediately when they are needed and immediately travel to the relevant area to begin duty.

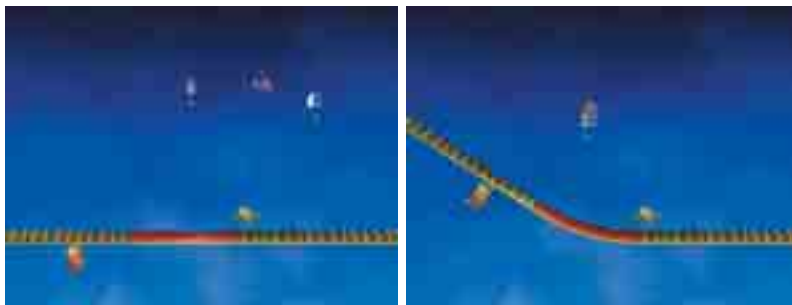
All that's been explained here is only one small process out of millions that take place within a cell. It is definitely impossible for atoms to possess the consciousness, knowledge, insights, skill and cooperation that such processes require.

But evolutionists' claims—that nature's most perfect systems came about as a result of coincidence—defy all rational logic and scientific understanding. Evolutionists, believing in the unbelievable,

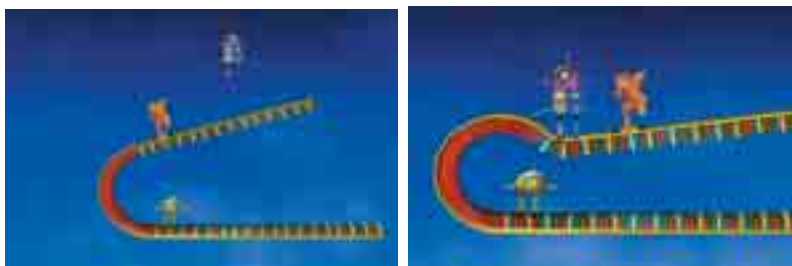
HARUN YAHYA

claim that nature brings about miracles, that assemblages of protons, neutrons, and electrons can act with consciousness and knowledge.

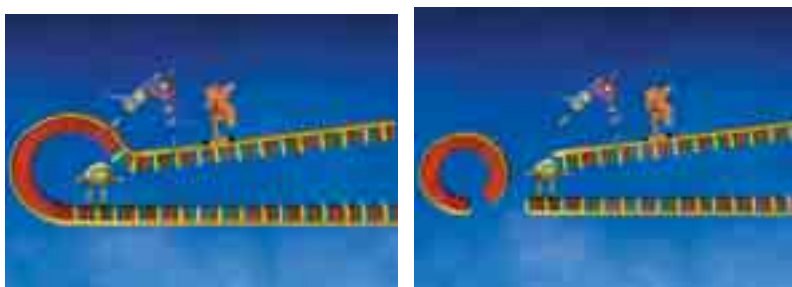
But the evolutionists are mistaken. The organizer and director of this entire conscious and planned process is God.



When a protein is going to be synthesized, instructions in the DNA are copied. Sometimes, however, the instructions can be found scattered throughout the DNA, so that the other, irrelevant bits of DNA are copied as well. In the above diagram, the irrelevant part of the DNA is marked in red. This must be deleted if the protein is to be synthesized correctly.



At this point, enzymes called spliceosomes come to the rescue and start to bend the copied strand around, so that the unwanted bit forms a loop.



At the end of this process, the unwanted portion of DNA is broken off. The relevant parts are then joined together, and the instructions for making the protein sent to the production factory in the cell.

SKILLFUL PLANNING AND PRODUCTION CARRIED OUT BY BONE CELLS

When bones first start to develop, they start out as cartilage tissue. With time, the inner part of this cartilage begins to calcify and later, becomes enveloped in blood vessels by special bone cells called osteoblasts and osteoclasts. The osteoclast cells' function is to break down and resorb bone. This they do by secreting special enzymes. Not remaining idle while the osteoclasts are doing their job, the osteoblast cells form the bone.

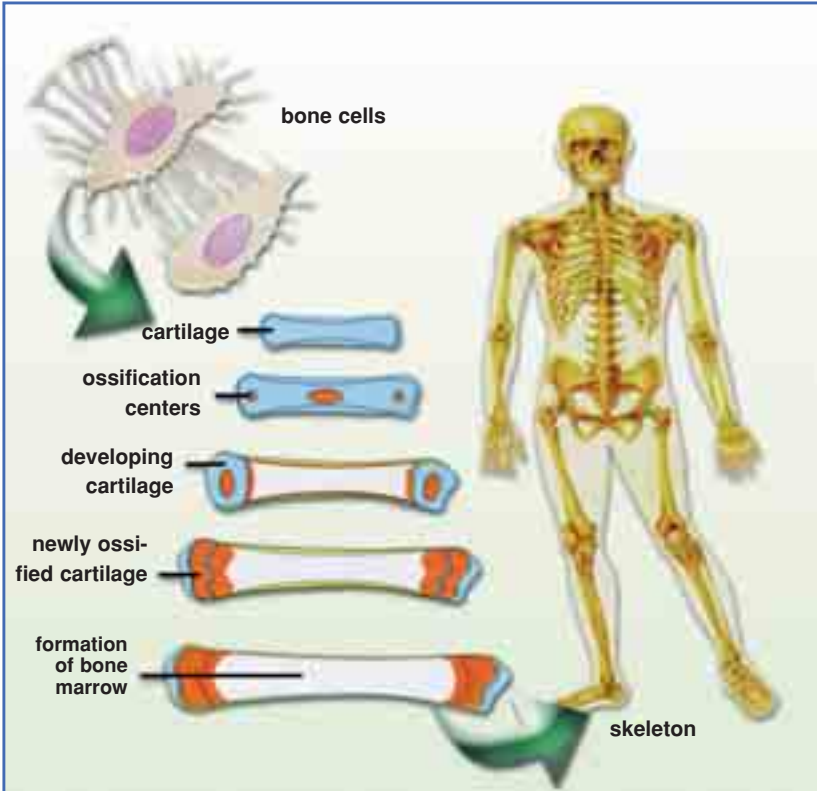
As a result of cooperation between these two groups of cells, the bones develop and eventually form the entire skeleton.

During childhood, when growth is very rapid, the duty of the osteoblasts is much more intense. Bone formation needs to be greater than bone resorption by osteoclasts. Once the skeleton has reached a certain degree of maturity, however, the formation and resorption processes begin to balance out.

Cells to be found in the bones of every human being carry out the same duty. They all know how to build the bone. Aware of the differences, they know how to shape the bones of the skull and of the thigh, the degree of thickness each bone should have, and when to stop growing. Also, they act in awareness that they have more work to do during childhood.

In the order of any of these processes, there is no confusion. Each group of cells goes into action at exactly the required time. As a result of this planned formation, every bone attains the structure and shape it needs to perform its functions most efficiently.

How did bone cells gain this ability of planning and production? A cell formed from unconscious atoms cannot look ahead or make decisions. It can't be aware of the stress or balance in the body, sense its needs and take measures accordingly. But all of the



The human skeleton shown above was built, step by step, by tiny cells. Just like tiny sculptors, bone cells carve out the body's skeleton with great care. Who has inspired them with the knowledge of every step and how to adjust the hardness, length, shape, cavities and lumps, and points of connection? The One Who designed and built all of this so perfectly is Almighty God.

trillions of cells in the human body act with the apparent awareness of a human being, and even display a superior intelligence. This is evidence that they are being directed and managed by a superior power. The Great Possessor of power that inspires them is God.

That is God, your Lord. There is no god but Him, the Creator of everything. So worship Him. He is Responsible for everything. (Surat al-An'am:102)

THE WONDERFUL HARMONY IN CREATION REFUTES DARWINISM



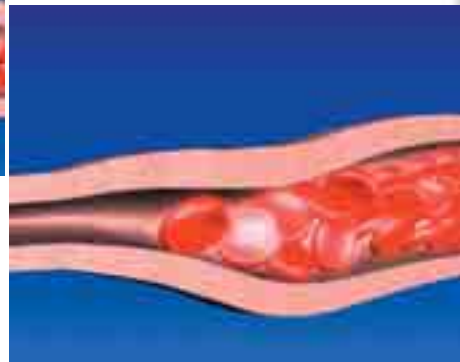
According to Darwinism, every living thing is a product of coincidence and chaos. But the perfect order, wonderful harmony, and sensitive balance existing throughout the universe crush Darwinist claims of coincidence. One detail in your body, which you can't see with your own eyes, will demonstrate: What gives blood its red color are the erythrocytes, or red blood cells. Erythrocytes are

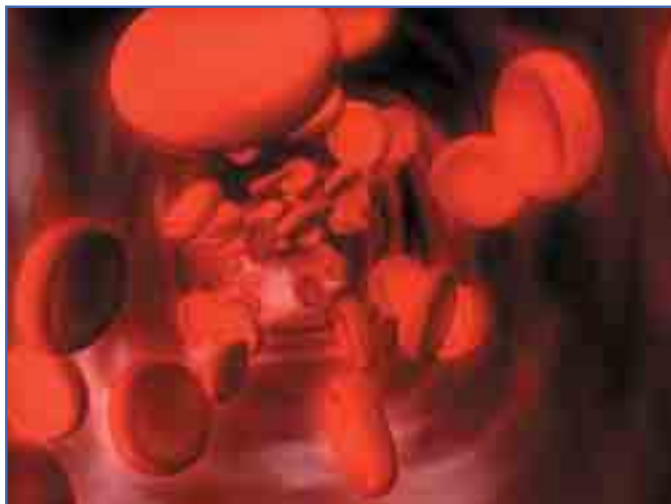
shaped like biconcave discs and are highly elastic—features that have the utmost importance for human life.

If red blood cells did not have such a degree of elasticity, they would become stuck at many small capillaries throughout the body, because the cells' diameter is almost twice that of the



The shape and elasticity of red blood cells let them pass through the finest capillaries with ease.





smallest blood vessels through which they flow. But because of their elasticity, this is not a problem and they can move through freely.

What would happen if erythrocytes did not have this degree of elasticity?

The answer is dramatized in people with diabetes. Their blood cells lose their elasticity and as a result, block the smaller vessels in the eyes. A result of this blockage is blindness.

Every structure and system in living things is too sensitive, too finely attuned with each other, and too balanced to leave room for the possibility of coincidence. That is because each one has evidently been created by a Possessor of superior power and knowledge—that is, by God.

He Who created the seven heavens in layers. You will not find any flaw in the creation of the All-Merciful. Look again—do you see any gaps? Then look again and again. Your sight will return to you dazzled and exhausted! (Qur'an, 67: 3-4)

HEMOGLOBIN—THE BLOOD'S OXYGEN HUNTER

Red blood cells carry oxygen to every cell in our body. While the oxygen molecules are flowing freely in blood, the red blood cells need to capture them, with the use of a protein called hemoglobin.

A red blood cell is designed especially for carrying hemoglobin, which takes up 90% of the cell. Organelles like the nucleus and mitochondria, found in other cells, are lacking in red blood cells, leaving room so that their hemoglobin can capture enough oxygen.

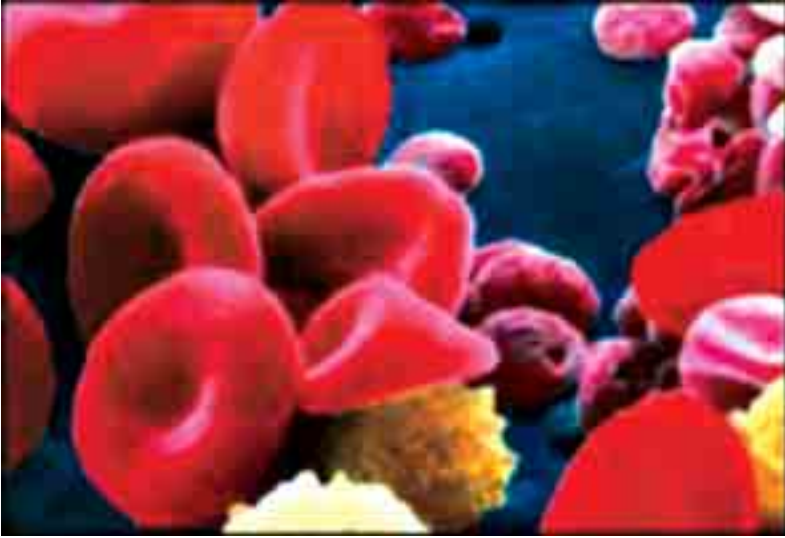
Under no circumstances does hemoglobin make contact with oxygen molecule; because if it did, it would oxidize and thus, not

allow any oxygen to reach other cells. But under normal circumstances it does not have to come into contact with oxygen as it has been created in a very special manner so as not to face this danger. Instead, it holds the oxygen molecule as if with a pair of tongs.

How does hemoglobin capture oxygen? Hemoglobin protein is composed of four subunits, each containing



HEME GROUPS



an iron atom bound to a heme group. These heme groups are the special "tongs" that give hemoglobin the ability to capture oxygen without contact and carry it to the cells that need it. The molecule's torsional angles change in a specific manner during oxygen binding.

Even here, within the tiniest parts of the body invisible to the naked eye, there is a most perfect and faultless harmony. It is impossible for such harmony to have come about as a result of coincidence. The emptying of the red blood cell to make room for hemoglobin, having protein "tongs" to capture oxygen without suffering a chemical reaction, the programming of the hemoglobin molecule to hunt oxygen in the first place, to recognize oxygen molecules and distinguish them from other molecules, the transport of the captured oxygen to where it's needed—none of these is a coincidence. To claim that it is is to cross over the limits of logic and reason. All of these are indications of the infinite knowledge and wisdom of God.

TINY HAIRS OF THE RESPIRATORY SYSTEM FAULTLESSLY DETERMINE DIRECTION

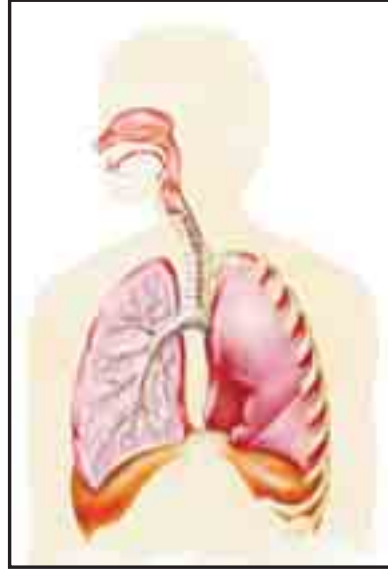
Along with air, we actually breathe in a lot of dust. But this and many other substances harmful to the body are held at certain "security zones" where they are neutralized before they ever get a chance to reach the lungs.

From the nose to the bronchioles, the entire surface of the respiratory pathway is coated with a layer of mucus. This substance, which also acts as a moisturizer for the respiratory surface, also traps small breathed-in particles like dust, preventing them from reaching the lungs. After these foreign particles have been caught by the mucus, however, they must be ejected out of the body, lest they build up in the respiratory passages. To effect this, another security mechanism comes into play.

Lining the respiratory surfaces are sharp-pointed flagella known as cilia, approximately 200 present on each cell. By whipping back and forth in waves, from ten to twenty times a second, these cilia facilitate regular movement—always up towards the pharynx. This way, any mucus that has trapped foreign particles is directed towards the pharynx at a rate of one centimeter per minute.

In the nose, however, mucus needs to be directed downwards, and so the cilia move in the opposite direction. This way, any foreign matter in the nasal mucus is also moved towards the pharynx. Later on, any foreign matter is either swallowed along with the mucus and taken to the digestive system, or expelled from the body through coughing.

As these examples show, these tiny hairlike structures can determine the location of the pharynx which is, relatively speaking, quite a distance away, even though they have no eyes to see



Cilia in the windpipe, photographed by an electron microscope

with, and no brain to think. In addition, they know that if this foreign matter travels down to the lungs, it may well harm the body. To prevent this from happening, they act in a most harmonious way, beating always in the same direction.

In various experiments and using many different methods, scientists have studied this mechanism for many years. However, they still don't completely understand this mechanism, which tiny hairs only two millionth of a meter in size have been carrying on faultlessly since the first human was alive. Acting with the inspiration given to them by God Who created them, cilia perform in an ingenious way that cannot have been "rehearsed" in a series of coincidences.

And He has made everything in the heavens and everything on the Earth subservient to you. It is all from Him. There are certainly signs in that for people who reflect. (Qur'an, 45: 13)

WHAT YOU ARE ABOUT TO READ IS GOING ON IN YOUR BODY, THIS VERY MOMENT

Hemoglobin is the special molecule that is responsible for carrying oxygen to other cells. Hemoglobin takes up oxygen in the lungs, leaves off carbon dioxide there, then moves onto the muscles. Meanwhile, the muscle cells have burned nutrients and produced carbon dioxide. When hemoglobin reaches the muscles, it does the opposite of what it first did in the lungs, depositing oxygen and picking up carbon dioxide.

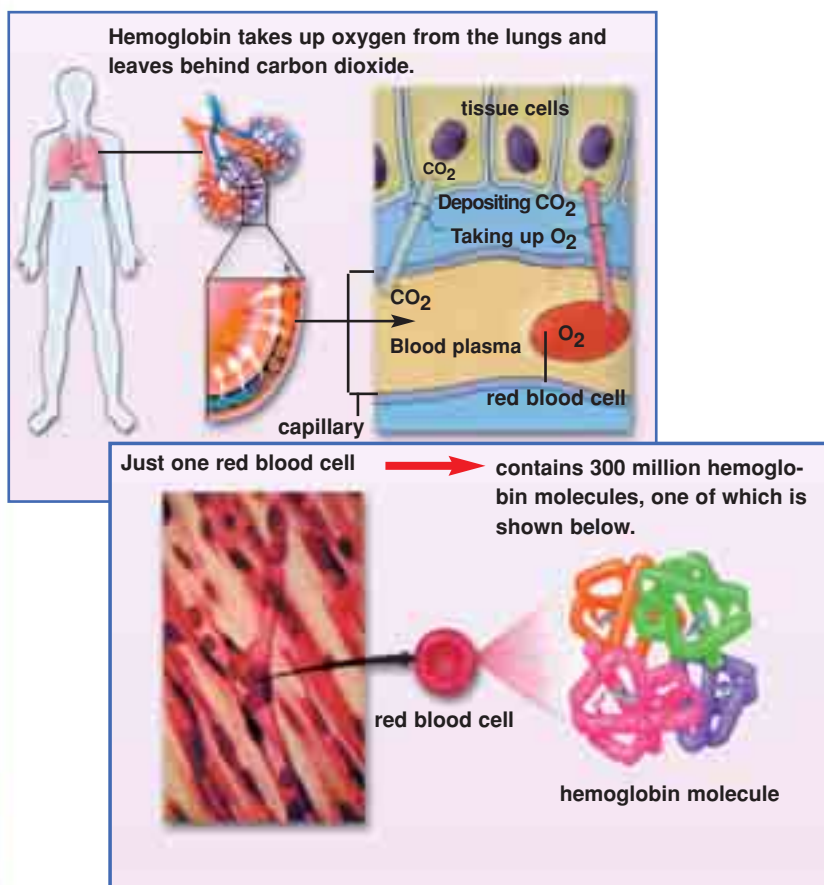
Scientists think of hemoglobin as an extraordinary molecule because of these two different processes it carries out. In *The Great Evolution Mystery*, Gordon Rattray Taylor, an evolutionist himself, has written the following about hemoglobin:

... It is a remarkable molecule indeed which at one moment has an affinity for oxygen and a few seconds later loses that affinity; that it simultaneously changes its preferences with respect to carbon dioxide makes it even more remarkable. (Gordon R. Taylor, *The Great Evolution Mystery*, Harper and Row Publishers, New York, p. 108)

As this shows, the hemoglobin molecule is seemingly conscious, making the necessary move at exactly the required time and place, never confusing oxygen with carbon dioxide.

This is obviously thought-provoking. How can a tiny molecule, which can't even be seen under a microscope, make decisions and have preferences?

As a result of the extraordinary consciousness displayed by this molecule, all air-breathing creatures on Earth can continue their existence with ease. About 900 million red blood cells are produced in the human body every hour. And there are about 300 million molecules of hemoglobin in one red blood cell alone.



When you think about the total number of hemoglobin molecules in the body and the abilities that every single one of them possesses, you begin to comprehend more clearly the significance of all of this.

Every person of intellect must admit that such selectivity could never have arisen as a result of coincidence, and that coincidence could not have bestowed these characteristics upon billions of hemoglobin molecules. The Creator of hemoglobin with all its features, and the molecule's placement into the bodies of living things, is God.

LYSOSOME ENZYMES AT THE SERVICE OF THE BODY

Many processes we are unaware of take place within our bodies. These processes are carried out by some 100 trillion cells, all performing their duties without fault, and without fail.

The many structures inside these cells know their duties very well. Some of them produce energy, others produce protein, some act as transporters, and others are used as storage depots.

One of the apparently conscious structures found in cells is the lysosome, which may be considered as the cell's digester. Many degradative processes can be carried out as a result of the enzymes these organelles contain. Aside from breaking down and destroying cells that are dead, diseased, or no longer useful, and puncturing and digesting the membrane that surrounds a structure, lysosome enzymes also destroy certain cells that are continuing to grow in the body. These breakdown processes carried out by the lysosome enzymes are of the utmost importance for health and ultimately, for survival.

For example, the womb of a pregnant woman develops at a much greater rate than normal to accommodate the development of her fetus—a necessary step for the birth of a healthy baby. Once the baby is born, however, no longer is there any need for such a spacious womb. Now this organ, which has increased so much, must return to its original size. The lysosome enzymes carry out this process. When labor is over, certain cells send this news to the lysosomes, which already know very well what they have to do and begin secreting the necessary enzymes. In ten days and at a very fast rate, these enzymes decrease the size of the womb by a factor of forty, returning it to its original size, for the health of the body.

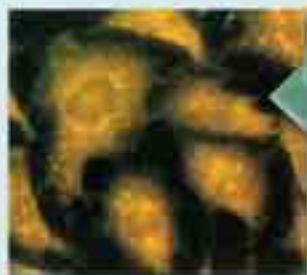
Lysosomes are also found in the heads of sperm. A spermatozoal

The sperm enters the egg by breaking through its outer membrane.



Upon reaching the egg, the sperm uses lysosome enzymes to break through the egg's membrane.

The lysosome enzyme, which plays a role in destroying cells



Lysosome enzymes, as seen under an electron microscope

cell uses the lysosomes it carries to break through the membrane surrounding the egg it seeks to penetrate. Thus these enzymes' degradative properties facilitate the fertilization of the egg cell by breaking through its protective layer.

As these examples show, every mechanism in our bodies works in ways that complement every other. Just as one system allows the womb to grow during pregnancy, there is also a system to return it back to normal. In the same way, specially placed in the sperm is an enzyme with the ability to break through the egg's protective layer.

Darwinists have strayed so far from logic and reason as to claim that this perfect integrated system, which continues to proceed in a flawless fashion, is only the result of certain coincidences. The most perfect workings within these mechanisms, and their harmonious and systematic workings with the whole body, display the perfection of God's creation for everyone to see.

HOW GREAT A MIRACLE IT IS TO BREATHE!

From the moment you were born, you've been breathing with ease and, as a result, have been able to continue your existence. If you stop breathing for only a few minutes, this will lead to the cessation of all of your bodily functions and most possibly, to your death. Your very life depends upon a substance known as a surfactant, found in your lungs.

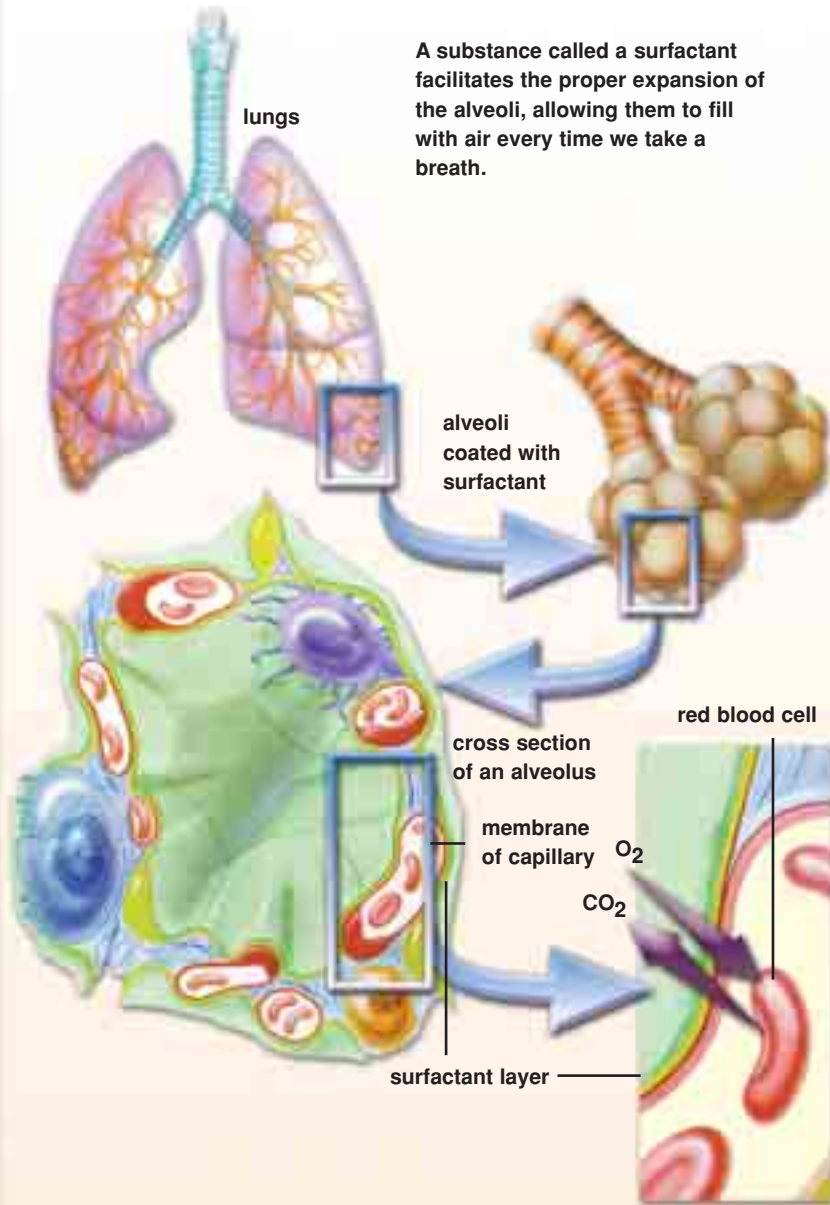
This substance envelops the roughly 300 million tiny air sacs, or alveoli, that let the lungs take in oxygen. Surfactant helps in the opening and closing of these sacs every time you breathe—no easy task.

One very important feature of this substance is that it starts being produced only one month before a person is born. And here begins the miraculous nature of this event.

How is it that a baby, who hasn't used its lungs while in its mother's womb, can foresee the difficulty of breathing when it comes out into the world—and then feel the need to start producing this substance? How does it know that the surfactant is able to help its alveoli? What type of chemical knowledge can it use to estimate its help in the movement of these sacs?

The absence of this substance—as in babies born prematurely—can lead to an infant's death in a very short time. But this seldom happens. For millions of years, every full-term newborn has emerged from the womb with lungs coated in this substance, enabling it to breathe with ease.

Undoubtedly this miraculous event is not realized through the will of the baby, nor through the intent of the mother. The One Who created this perfect system and Who allows it to be initiated at just the right time is God.



A substance called a surfactant facilitates the proper expansion of the alveoli, allowing them to fill with air every time we take a breath.

THE COMMUNICATION NETWORK BETWEEN CELLS

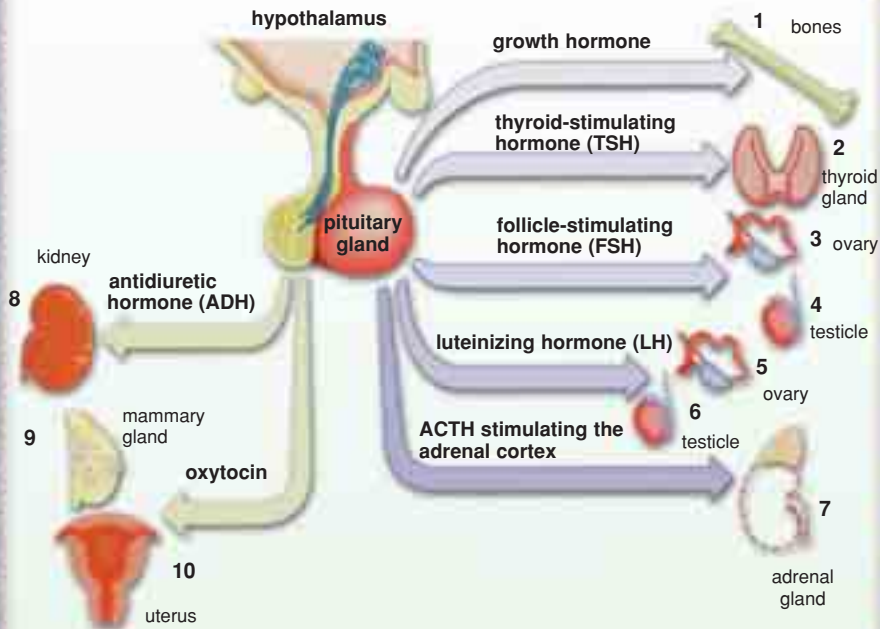
The 100 trillion cells in our body work together in perfect harmony. To bring this about, the cells need to closely keep aware of one another's functions. For this purpose, they produce messenger molecules known as hormones. Thyroid hormone, for instance, controls the rate of metabolism in all cells. The insulin hormone regulates the amount of glucose in the blood and facilitates its entry into every cell in the body. Aldosterone stimulates the kidneys and so keeps the level of water and salt in the blood in balance. For the production of red blood cells, the message sent by the erythropoietin hormone is necessary.

Many hundreds of other hormones allow for the continuous communication among cells. Moreover, this takes place with the same perfection in every one of the billions of humans and animals on Earth. Without hormones, there would be no order in the body, only chaos and neglect.

But how can one cell know what another cell should be doing at a distance of centimeters away? How does it know what hormone will bring about the desired effect? And in addition, how does it know the structure of this hormone, or obtain the materials needed to make it in the first place?

The only logical answer is that everything in the body has been created with a certain plan of great knowledge and consciousness. The order found among the 100 trillion cells in every single person out of the billions on the face of the Earth is proof and wisdom of God's creation and His uniqueness.

Hormones are molecules responsible for sending messages back and forth between cells. Thanks to these molecules, all of the body's processes can run flawlessly. Hormones control events we are not even aware of, from our blood pressure to our growth.



1. Growth
2. Thyroid stimulation
3. Ovary and estrogen production
4. Sperm production
5. Release of ovum, and secretion of estrogen and progesterone
6. Production of testosterone
7. Control of adrenal cortex
8. Water retained by the kidneys
9. Milk secreted from mammary glands
10. Contraction of the womb

God bears witness that there is no deity but Him, as do the angels and the people of knowledge, upholding justice. There is no deity but Him, the Almighty, the All-Wise. (Qur'an, 3: 18)

THE SOURCE OF LABOR PAINS AND BREAST MILK: A HORMONE PRODUCED IN THE BRAIN

When the period of pregnancy is complete, the abrupt beginning of labor pains herald the start of a new life. A hormone called oxytocin initiates labor and sends the first indication of this impending event.

This hormone, released by the pituitary gland, has its effect in two main sites: on the muscles of the mother's uterus, and on the muscle cells that eject milk into the ducts of the breasts.

The increased contraction of the uterus is of utmost importance in ensuring that birth will take place safely for both mother and infant. This hormone facilitates the strong contractions of the muscles of the uterus—but does so only after nine months and ten days have passed since conception. Either earlier or later could put the baby's life in danger. When the right time comes, receptors in the uterus send signals to the brain. On receiving this signal the brain produces oxytocin, just the right molecule, and sends it to the target area—those receptors far away.

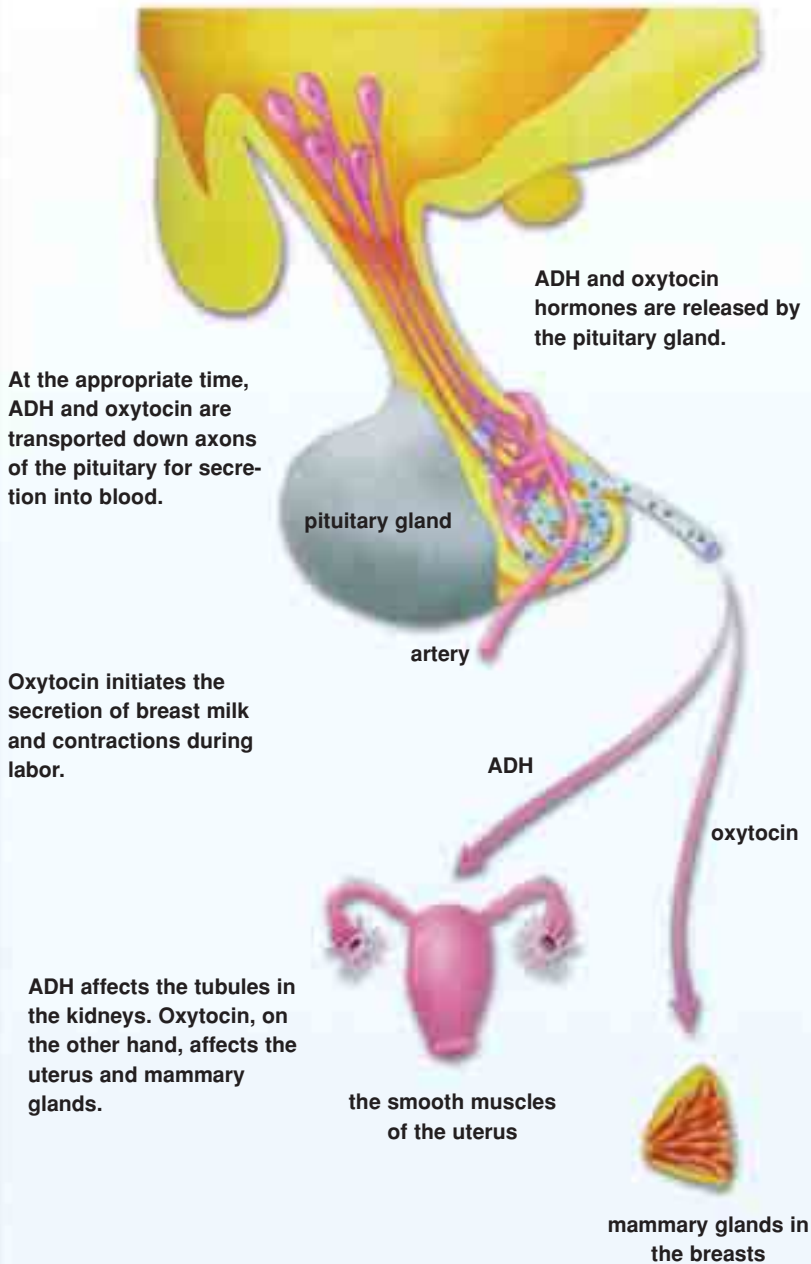
In addition to all this, oxytocin has another separate function, facilitating the nourishment of the baby just arrived to the world by secreting a supply of milk.

Consider:

How do cells in a tiny part of the mother's brain decide to produce a hormone that makes childbirth easy for the womb to perform?

How can this hormone find its way through the whole circulatory system, to the exact cells where it is needed?

Who possesses the knowledge that the baby needs to develop and mature for nine months and ten days in the mother's womb, and begins the mechanism of labor at just the right point?

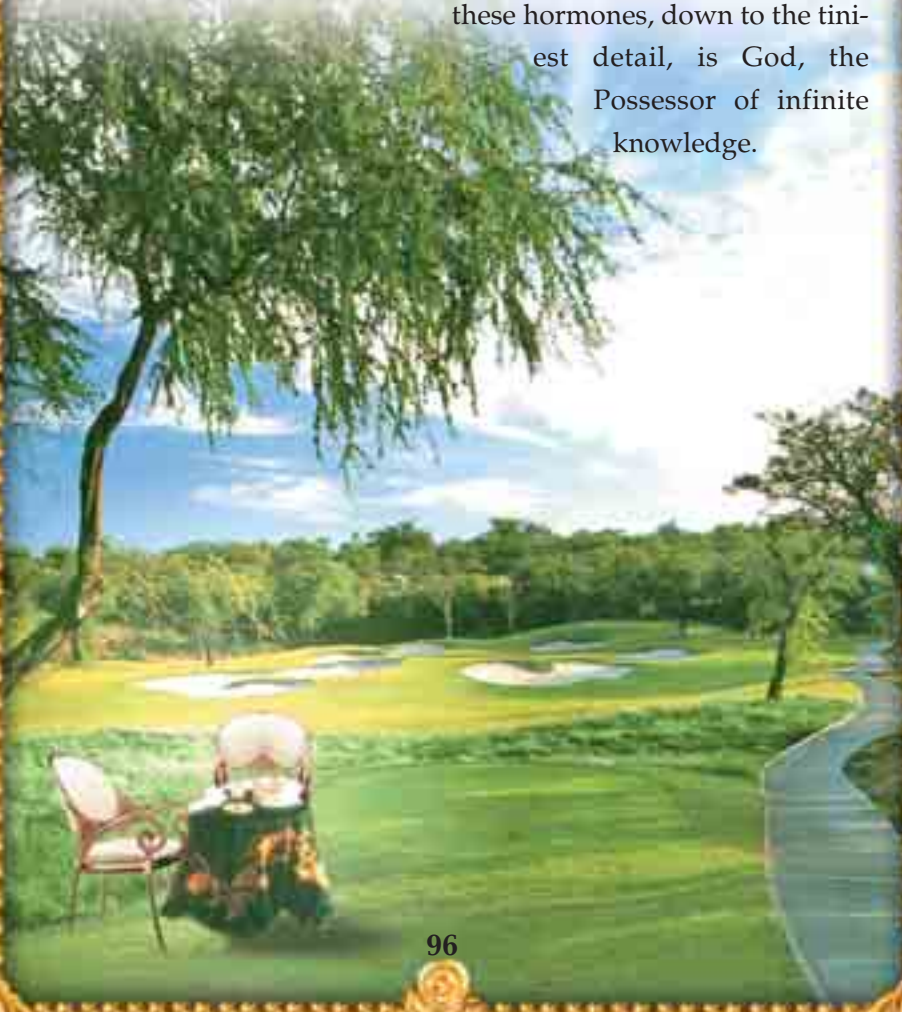


CONSCIOUSNESS IN THE CELL

Does the oxytocin hormone itself consider the baby's need to be fed and set up a system that ensures the secretion of milk from the mother?

Oxytocin is just one hormone out of thousands in our body. Just like it, every other hormone helps organize bodily functions; makes critical decisions; sets about implementing them; communicates with other cells; stimulates the needed secretions; determines the necessary amounts, the timing and duration—carrying out this and many other complex processes without fault.

Very obviously, such a wondrously perfect planning does not come about by itself, or as a result of coincidence. The Planner, Creator and Controller of the entire conscious organization of these hormones, down to the tiniest detail, is God, the Possessor of infinite knowledge.

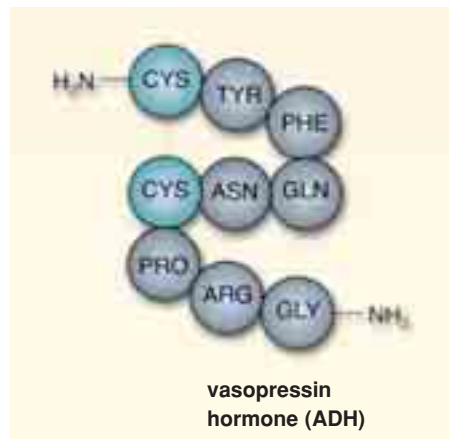


WHAT IF YOU NEVER FELT THIRST?

Throughout the day, there are systems that detect the slightest changes to the amount of water in your body. The main one is an area, about the size of an almond, in the brain called the hypothalamus. Among other things, the hypothalamus is sensitive to the water content of the blood. When the water level drops, there is a noticeable, albeit small, decrease in blood pressure. At this point, baroreceptors come into play. Located at the aorta, where blood first exits the heart, they are involved with detecting changes in blood pressure. On being activated, these sensitive receptors immediately send a message to the hypothalamus, which in turn responds by ordering the pituitary, the pea-sized gland right beneath it, to begin producing and secreting a hormone called vasopressin, or ADH.

Via the bloodstream, this hormone embarks on a long journey and eventually arrives at the kidneys. Just as a key fits into its intended lock, the kidney has special receptors that are just right for this hormone. When it reaches the receptors, they communicate the message that the kidneys need to go into water-saving mode, and the kidney cells immediately begin retaining water, to bring the amount of water lost to a minimum.

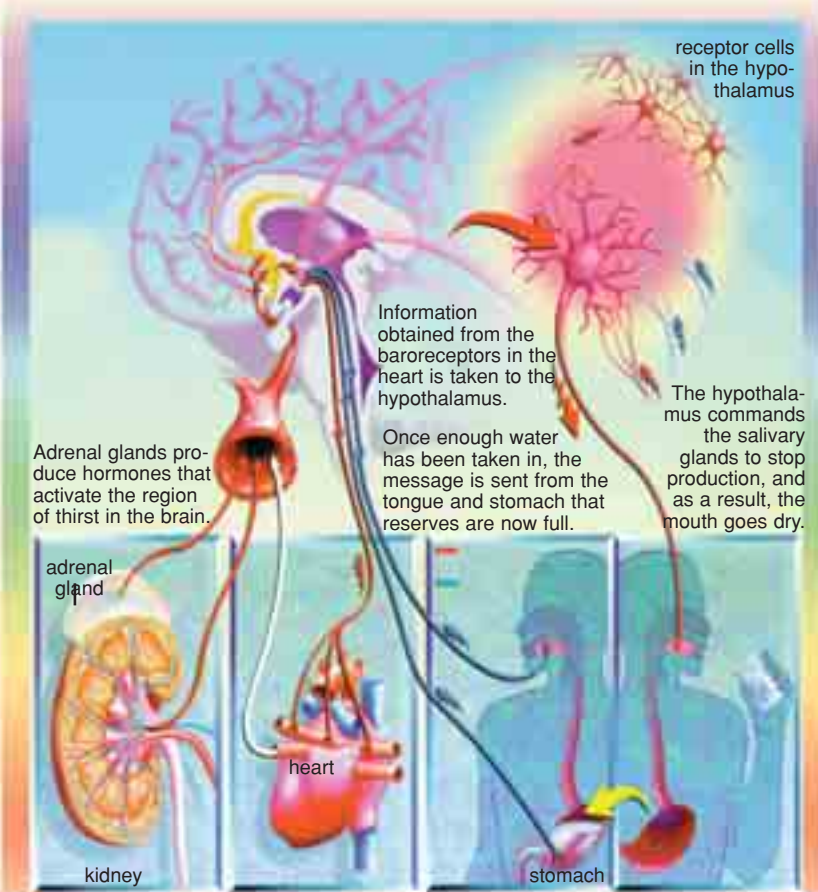
This same hormone also causes the sensation of thirst in the brain. And as a result of this perfect built-in system, of which we are totally unaware, we can balance our body's water level with a glass from the faucet.



CONSCIOUSNESS IN THE CELL

If there were no pituitary hormone, or if kidney cells weren't able to understand and obey its command to retain water, we would need to drink between 15 and 20 liters of water a day in order not to die of thirst. And because we'd need to void this water continually, we wouldn't be able to sleep or stay in one spot for any length of time.

As we've seen, all parts of the system that balances our body's water level cooperate with the brain. Cells in the aorta notify the brain of the lack of water. Immediately realizing the consequences of this message, the brain then releases a signal that goes to the kidneys, the relevant organs out of all the others in the body, and tells them what to do.



These processes take place in our bodies countless times during the day, without our even being aware of them. Moreover, they take place in the bodies of all the people around us, and in all the people who have ever lived and will live in future. They all possess the same sensitive receptors. All their cells know how to respond to changes in blood pressure. The cells of every human being have been given this ability to measure changes in blood pressure.

How did such a complex and faultless system come about, appearing with the identical qualities in every single person?

That such a mechanism couldn't arise as a result of blind coincidence is clear to every person of intelligence. Also, it's not possible for this system's parts to have acquired these features on their own. Cells themselves cannot discover processes that even a human requires careful attention to read and understand. Moreover, vasopressin is only one of the hundreds of hormones found in the body. Each of the others has a similar relationship to its appropriate organ. And no hormone ever takes its message to the wrong place; every organ understands correctly and fully the message that the hormone carries. It's patently obvious that such a system was brought into existence by a superior Intelligence. The possessor of this intelligence is God, the Creator of everything.

Every human is responsible for reflecting upon these miracles of creation in their own bodies and for expressing gratitude to God, Who created them in such perfection.

O man! What has deluded you in respect of your Noble Lord? He Who created you and formed you and proportioned you and assembled you in whatever way He willed. (Qur'an, 82: 6-8)

HORMONES—MOLECULES THAT CAN DISTINGUISH BETWEEN THE SEXES

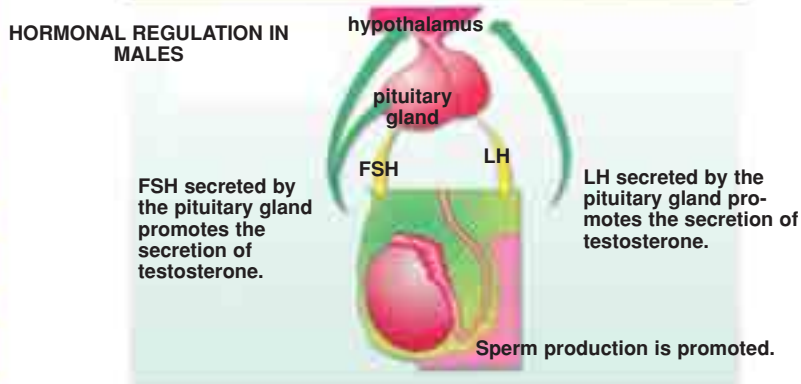
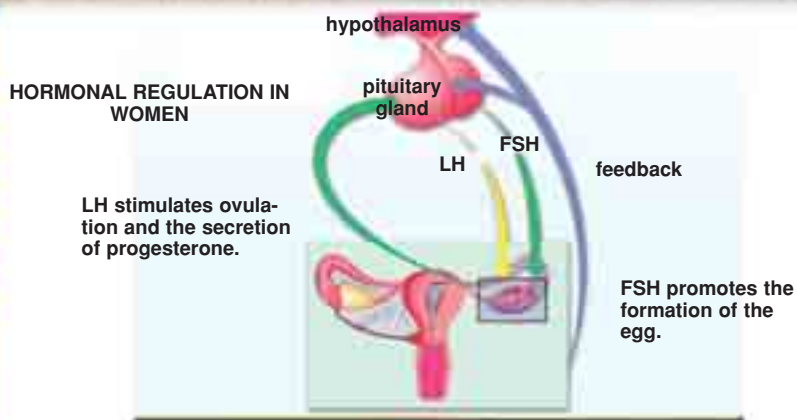
A great deal of harmonious cooperation exists between cells and hormones in the human body. The body recognizes hormones and immediately understands the message they carry. And the hormones know very well where they need to go and when, and the sort of effect they'll have. Even though the same hormones are present in both males and females, these hormones' effect on the two sexes is completely different. For example, the follicle-stimulating hormone known as FSH promotes the formation of the egg in the woman. Yet in males, the same hormone ensures the formation of the sperm.

On the other hand, luteinizing hormone (LH) stimulates ovulation and also causes the secretion of another hormone called progesterone, which prepares the uterus for pregnancy. The same hormone takes on a completely different role in males, stimulating cells to secrete testosterone, which facilitates the development of male secondary sexual characteristics and the formation of sperm.

How can two similar hormones with the same makeup lead to completely different effects in different genders? This question is definitely thought-provoking!

When the hormone is secreted in a male's body, it recognizes that the body cells here belong to a male and make changes accordingly. In a male body, for example, this hormone leads to greater muscular formation, to the deepening of the voice, and the formation of a beard.

In a woman, the exact same hormone is secreted, but its effect on her is practically the opposite. If the same hormone can give a feminine voice to a woman and a deeper one to a man, and can lead to the development of different bodily characteristics, then



this hormone must be somehow "aware" of the differences in chemistry and anatomy between the man and woman. In turn, this means that the hormone must possess a mind and have received training in these subjects.

How can these hormones have acquired chemical knowledge? Or how is it that the cells producing these hormones understand not only the chemistry of the human body but also, like practicing chemists, can secrete from themselves substances in accord with this knowledge and direct other cells into production as well? How did tiny cells acquire the knowledge to do all this?

Clearly, this knowledge is not a property of the cells or the atoms that compose them. These regulations, made peculiar to men and women, are a sign of an existing conscious plan and design. What lies behind this conception is a Possessor of superior intelligence—that is, God.

CAN THE POWER BEHIND A CELL'S CONSCIOUS ACTIONS BELONG TO A HORMONE UNAWARE OF ITS OWN EXISTENCE?

The human body's 100 trillion cells carry out their duties faultlessly thanks to the thyroid hormones.

The more thyroid hormone in the blood, the faster the cells will work. If the body does not secrete enough thyroid, metabolism slows down considerably and virtually comes to a stop. For this reason, there must be a certain level of thyroid hormone in the blood at all times.

It's impossible for the thyroid gland to take up the duty of affecting other cells and to make such decisions on its own. It is unaware of other cells' existence. It only obeys to the letter the commands present in the DNA of its own cells.

The power that gives these written commands to the thyroid gland and brings them about is God, the One Who created every tiny detail. The plan, design and consciousness at work here does not belong to an unconscious piece of flesh, a gland unaware of its own existence that goes by the name of "thyroid." It belongs to God.

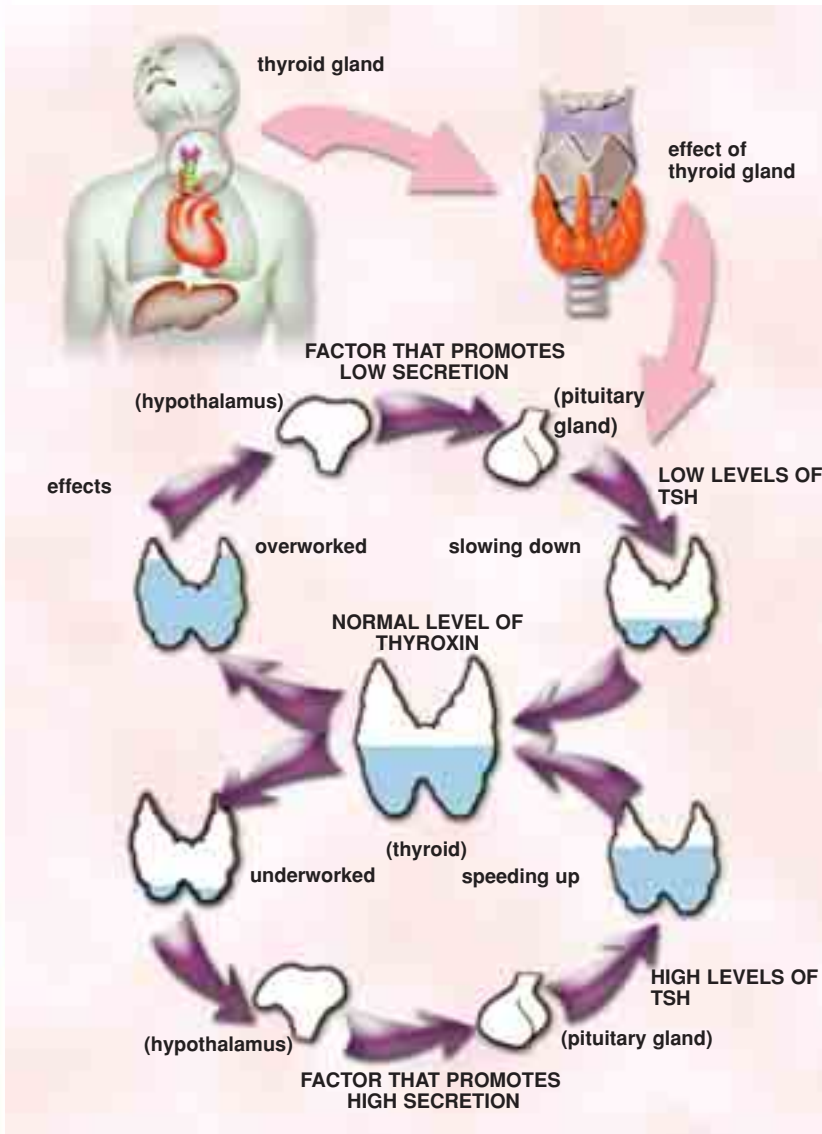
Evolutionists, however, in denial of this, claim that:

- the thyroid gland "feels the need" to stimulate all of the body's cells, and therefore has designed hormones that would affect all cells;

- it has perfectly produced these hormones all by itself, and

- decides by itself the level of hormone that needs to be in the blood at all times.

This is nothing but conjecture, of course. It's in no way possible for an endocrine gland to have the knowledge to think of any of



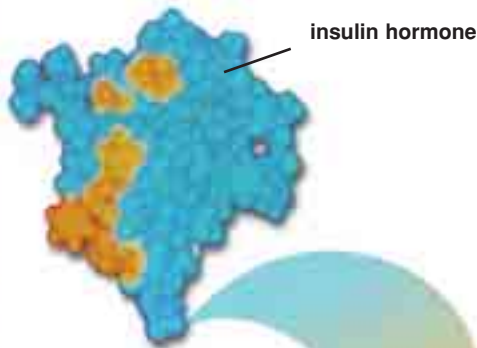
The diagram above summarizes the effect of thyroid hormone level on the body's metabolism.

this, or to bring it all about. The Creator of everything in harmony with everything, and the One Who made things to be interdependent, is the One with knowledge of all things—that is, God.

NO FORMULA CAN COME ABOUT BY ITSELF, BY COINCIDENCE

Insulin is yet another hormone that humans cannot live without. In cases where not enough of this hormone is secreted, blood sugar levels rise and cannot be balanced. This can lead to a person falling into a glucose (or diabetic) coma. Insulin, so crucial to the human body, is a protein made up of 51 amino acids. The diagram below shows the order of amino acids (shown in the circles) found in insulin. Should there be the slightest mistake in this order of amino acids, the insulin will not be able to perform its duty.

If a person reads a formula written on paper, he or she would know that it could not have appeared by itself, that someone must



Below: The formula for the hormone insulin. If even one amino acid is lacking in this formula or if their order is mixed up, insulin will not be able to carry out its function.



HARUN YAHYA

have written it down. The insulin hormone does have a certain formula. Moreover, in every human who ever lived, insulin has been produced according to this formula. This is enough to prove that insulin could not have come about over time, through coincidence. No unconscious coincidence could have resulted in the same formula being produced in billions of people, not to mention animals. Such a claim goes against all reason, all intelligence, all science.

The Creator of insulin, the Determiner of the features it would possess, is the One Who created insulin when mankind first came into being—that is, God.



CAN YOUR KIDNEYS POSSESS MEDICAL KNOWLEDGE?

By themselves, the kidneys measure the number of red blood cells being pumped to them. Information determined by sensitive receptors is immediately evaluated, and measures taken accordingly.

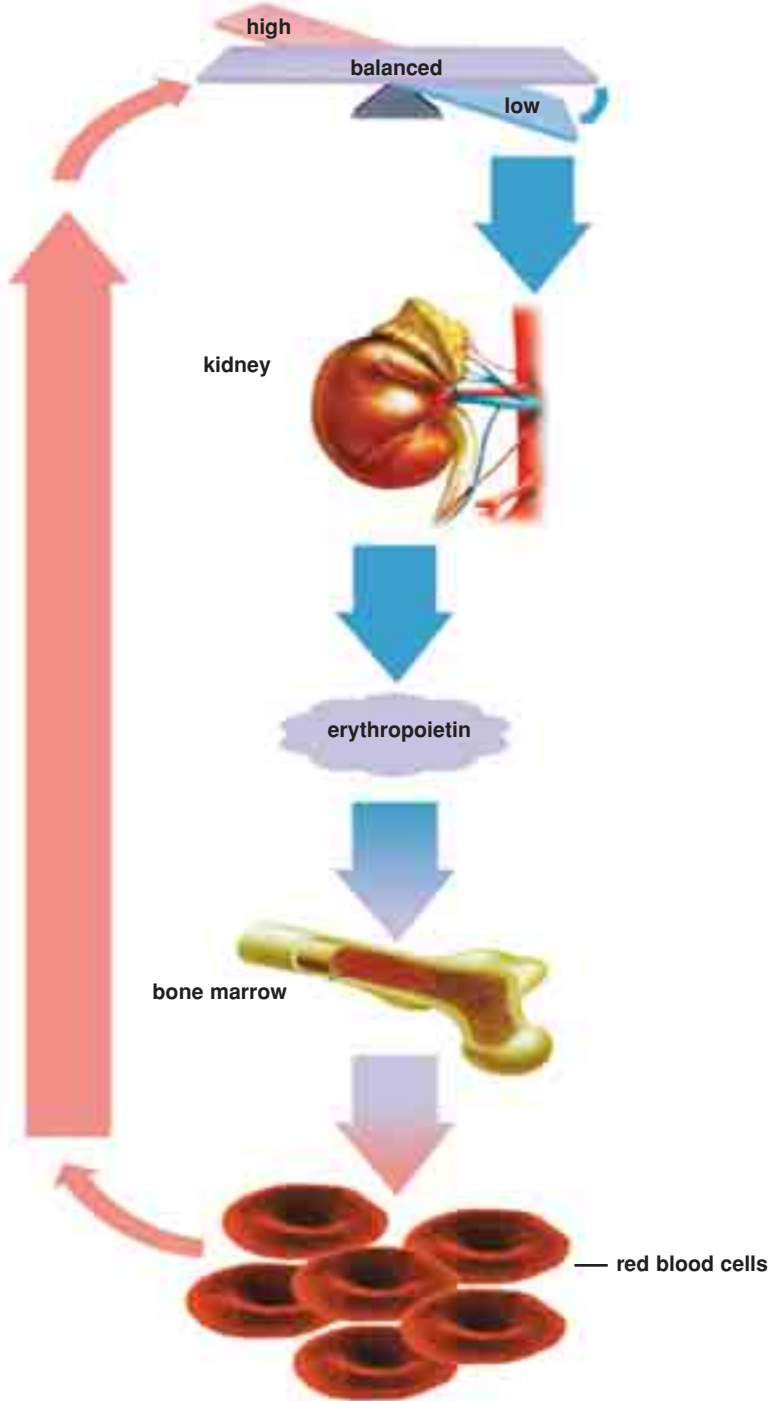
When the kidneys determine a decrease in the red blood cell count, special kidney cells secrete a hormone called erythropoietin, which helps increase blood production. The hormone has its effect outside the kidneys, in the main blood production cells in the bone marrow. When this hormone communicates that the level of erythrocytes is low, the bone marrow facilitates the rate of production and release of erythrocytes into the bloodstream. This way, the quantity of red blood cells is kept in proper balance.

In short, the kidneys can make a number of measurements, evaluate information, and take initiative to apply the necessary precautions. And the hormone that has the duty of transmitting the message can travel through the body without getting lost, reaching the bone marrow without any problem or delay. Bone marrow cells also know how to decode the message the hormone sends them from the kidneys, and act according to this message.

Moreover, all these processes take place in every one of billions of people. In all of them, this cooperation proceeds in exactly the same way.

Throughout all of these processes, the cells display an evident intelligence and act as the disciplined and obedient components of a faultless organization. This situation begs the question of what the source of this intelligence and cooperation can be. No one can claim that cells possess this intelligence of themselves, or by happenstance. The One Who has inspired these cells with this intelligence and knowledge about how to act is God, Who maintains control over all things.

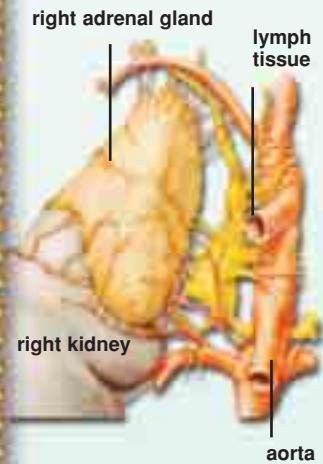
There is no power or might except God.



THE HORMONES THAT REFUTE DARWINISM

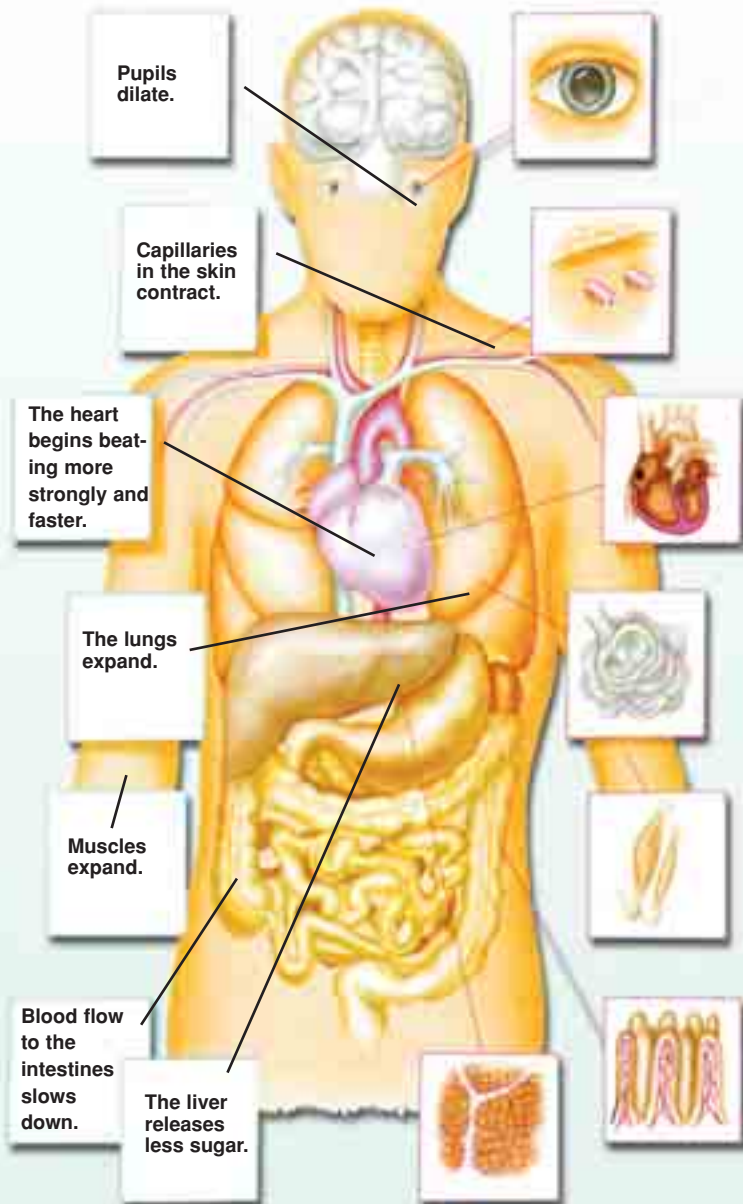
Without your even realizing it, thousands of commands are being passed through your body every second, to make your life as easy and as practical as possible.

When you get excited or frightened, for instance, your stimulated nervous system, with great speed and without getting lost, activates the glands above your kidneys. On receiving the message, these adrenal glands secrete a hormone called adrenalin which, entering the bloodstream, calls your whole body to attention. It inhibits the activity of the stomach and intestines and halts the process of digestion. In this way, a significant portion of blood, no longer involved in digestion is now freed to supply the muscles. At the same time, your heartbeat and blood pressure increase. The bronchioles in the lungs expand, speeding up the absorption of oxygen and the supply of oxygen to the blood. The blood level of glucose increases too, leading to an increase in energy to the muscles. Finally, the pupils dilate and your eyes' sensitivity to light increases.



The result of all of these factors coming together is that you are equipped to perform in any situation, whether to run away, to defend yourself, or to attack.

Nerve cells are formed from lifeless, unconscious atoms. But these structures comprehend situations where the body is in need and immediately send messages to relevant regions of the body. The parts that



When you get excited or frightened, the adrenaline hormone, secreted by the adrenal glands above the kidneys, sends the body into immediate high alert. The diagram summarizes this hormone's effects on the body.

CONSCIOUSNESS IN THE CELL

receive the message are also made up of lifeless atoms, but despite this, they immediately "get the message" and act to produce the necessary hormone. Then this hormone, knowing full well the purpose for which it was made, travels throughout the body to activate the relevant organs.

To think that such a consciously planned, organized and purposeful system could have come about through coincidence is to turn a blind eye to all logic and common sense. Darwinists, by claiming that this whole system came about as a result of coincidence, have placed themselves in a very comical position where even children would mock at their assertions.

In fact, world-renowned British writer and philosopher Malcolm Muggeridge also stated this:

I myself am convinced that the theory of evolution, especially the extent to which it's been applied, will be one of the great jokes in the history books in the future. Posterity will marvel that so very flimsy and dubious an hypothesis could be accepted with the incredible credulity that it has. (Malcolm Muggeridge, *The End of Christendom*, Grand Rapids: Eerdmans, 1980, p. 43)

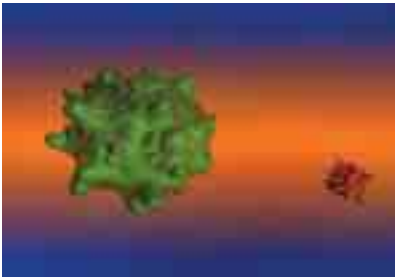
The clear and evident truth is that God, the Superior Creator, has created this flawless system.

HARUN YAHYA

THE LUNGS HAVE THEIR OWN EMERGENCY DEFENSE UNIT

Some cells in the lungs actually spray a natural biocide over bacteria and other microbes. This way, microbes and bacteria that enter through the respiratory tract and manage to reach the lungs alive are killed there.

Obviously, it's not possible for lung cells to recognize harmful substances, much less know to produce whatever's needed to neutralize them. Cells are devoid of abilities such as thinking, cognition, decision-making, or planning. These are all products of God, the One Who created it all in harmony and balance, and regulation with the heavens and the Earth. By making just one cell perform acts with such consciousness that dumbfounds human beings, God displays signs of His infinite knowledge and wisdom.



Cells in the lungs have their own defense system. Immediately identifying microbes that enter the body through the respiratory tract, they secrete a substance that neutralizes these microbes. That a tiny cell invisible to the naked eye can distinguish between microbes and other substances is a great miracle, because if it makes the wrong decision, it could neutralize a substance the body actually needs.



WERE IT NOT FOR ENZYMES, IT WOULD TAKE YOU 40,000 YEARS TO READ THIS!

Enzymes are protein molecules that make life possible, promoting the necessary chemical reactions for life by boosting them up to just the right speed.

One enzyme can speed up a reaction by a factor of 10^{10} —that is, ten billion times faster. If this speeding-up didn't occur, then the five-seconds it takes to read this sentence might take 1,500 years! During this time, so many other unwanted chemical reactions could also take place that life wouldn't just be slowed down; it would become impossible.

Another important feature of enzymes is their selectivity. While they speed up the desired reactions, they don't speed any undesired ones. But how do these enzymes know which reactions

need to be hastened and which do not? To do this, they must be aware of all of the reactions and functions taking place in the body, and what is needed when.

Moreover, each enzyme can speed only chemical reactions in which certain molecules take place. An enzyme can bind only onto the specific site on a particular molecule. For this rea-



The diagram at left shows an enzyme about to bind to a molecule

HARUN YAHYA

son, the enzyme must fit into the special site on the molecule as a key fits a lock. Each enzyme has to recognize its particular molecule, and the specific site where it must attach itself.

Why have these enzymes, made from unconscious atoms of carbon, hydrogen and oxygen and which have no brain, eyes, mind or consciousness, taken up the responsibility of speeding reactions in the body? And how can they determine the right molecule to bind to and the particular sites on which to bind?

How have coincidences and unconscious atoms decided that enzymes were needed for life to continue?

Evolution theory, which accepts coincidence and unthinking atoms as deities, has no answer to these questions. The truth is that these enzymes have been designed and created for life by a superior Power and Creator—that is by God.

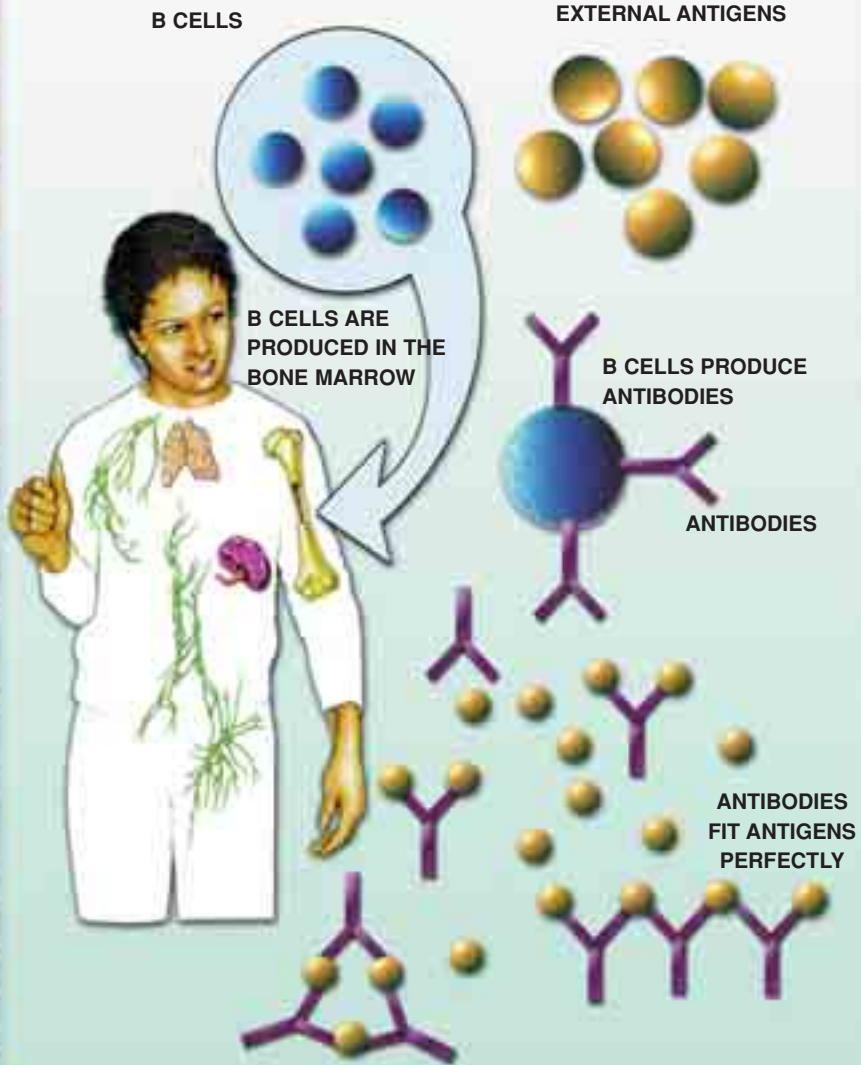
ANTIBODIES CAN FIGHT MICROBES THEY HAVE NEVER ENCOUNTERED BEFORE

Every day, thousands of microbes infiltrate the body, and the human immune system immediately tries to neutralize them. However, some microbes and foreign agents that can't be avoided enter the bloodstream and pose a serious danger. These foreign agents are called antigens. But the immune system produces substances called antibodies, that act against these antigens, and try to destroy them and prevent them from multiplying.

Antibodies' most important feature is their ability to recognize—and then prepare themselves to destroy—the hundreds of thousands of different microbes found in nature. Most interestingly, some antibodies can even recognize synthetic antigens, prepared in the laboratory and then injected into a test subject.

How can one cell recognize hundreds of thousands of different foreign ones? Moreover, how does it attain the ability to recognize a substance that has been synthesized artificially? Even if we accept that antibodies can somehow recognize antigens in the body, it is still astounding that they can also recognize an antigen they have never come across before. In addition, since the antibodies can identify the foreign agent that has entered the body, they then produce the most effective weapons to use against it. Coincidence cannot explain how a mechanism inside the body can possess such astonishing information about the outside world. This fact leaves the evolutionists in a bind. Having failed to explain with their theories antibodies' ability to identify all types of foreign agents entering the body, evolutionists try to gloss over the topic with illogical, scientifically unacceptable explanations.

One example of the explanations of how an antibody can recognize synthetic antigens can be seen in the words of Turkish evo-




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lutionist Professor Ali Demirsoy:

... A cell that has developed the ability to synthesize an antibody against a chemical agent which was made synthetically in the 20th century must be a clairvoyant. (Professor Ali Demirsoy, *Kalitim ve Evrim* (Inheritance and Evolution), Meteksan Publications, Ankara 1995, p. 420)

As Professor Demirsoy suggests, evolutionists admit the perfection in living things, but try to explain it away with quite imaginative methods. They try to hypnotize people with magical statements like, "This is a miracle of evolution," or "This cell must be clairvoyant." However there is an extraordinary situation here. The word clairvoyant is used for people who claim to have pre-cognitive abilities. The fact that a cell has knowledge about things that exist far distant from it is quite extraordinary. A cell composed of lifeless atoms cannot be expected to possess strong intuitive powers or knowledge about the future by coincidence, of its own accord. To make such a claim is to exceed the limits of reason and logic. This much is apparent: These antibodies were given their talents by God, the One Who has knowledge of everything down to its smallest detail.





*God makes the signs clear to you
and God is All-Knowing, All-Wise.
(Qur'an, 24: 18)*

CELLS OF THE IMMUNE SYSTEM HAVE BEEN CREATED WITH LARGE MEMORIES

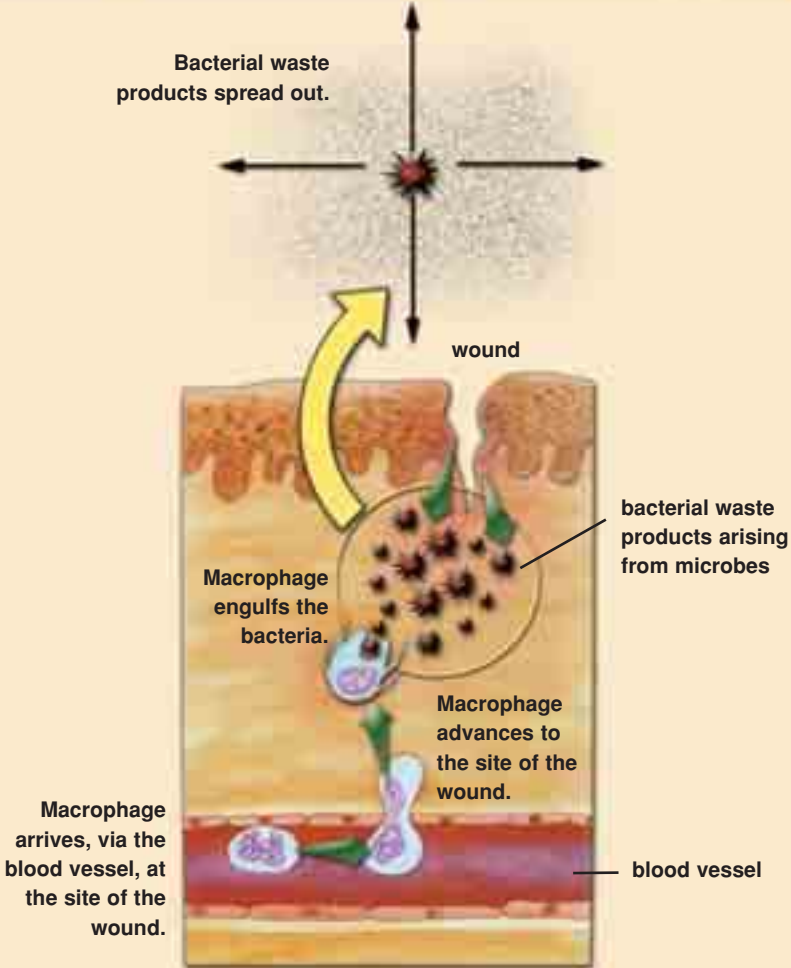
When cells receive news of microbial attack, they immediately warn the immune system.

Whenever you get an infection—for example, when microbes invade an open wound—cells of the immune system are immediately activated. These defensive cells, known as macrophages, identify the area of infection in the least amount of time and initiate a response against microbe attack and then hasten to this area. Macrophages are sensitive to a number of changes. For example, they identify bacterial waste in a given area, along with the presence of destructive substances produced by infected tissue, as well as factors involved in blood clotting. If macrophages couldn't identify any changes in infected tissue, they wouldn't be able to respond to the innumerable number of dangers the body faces every day.

But here is something interesting: Most macrophages are coming face-to-face with such an attack for the first time. If so, how

When we hurt ourselves, we are certain that the wound will soon heal. But how few of us even think of who heals that wound?





did these microscopic living cells learn what constitutes danger? Have they had training in this matter?

Obviously, it's impossible for these microscopic macrophages to have been educated in any way. All this information has been in their memory since the macrophages first came into being. A power has given them this memory and inspired them with the knowledge of how to protect the body from outside enemies. The One Who has acquainted them with the impact of attacks from outside is the Lord of the worlds, Who created them together with this knowledge—that is, God.

IN WHAT YOU SEE—BUT DON'T THINK ABOUT—LIE HIDDEN INFINITE KNOWLEDGE AND MIRACLES

If you cut your finger, in a short time the blood will clot and stop the bleeding. But how does this clotting take place in such a short time? And what takes place in your body?

The event of blood clotting is similar to what occurs when an ambulance and police cars come hurrying to the site of a highway accident.

Whenever bleeding begins in any part of the body, first aid arrives from blood platelets called thrombocytes, which are dispersed throughout the bloodstream. No matter where bleeding takes place, there are sure to be thrombocytes in the body patrolling nearby.

A protein called von Willebrand factor works like a traffic policeman calling for help, indicating the location of the accident and cutting in front of the thrombocytes so that they remain in the area.

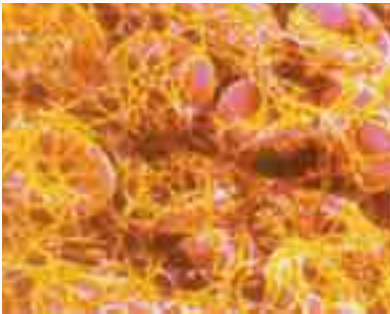
As if communicating by wireless, the first thrombocyte that arrives on the scene calls for help by secreting a special substance that calls other thrombocytes to the site.

Meanwhile, twenty enzymes found in the body come together to form a protein called thrombin over the open wound. Thrombin is produced only at the site of the wound, like a first aid team manufacturing the medicine needed by the patient on the spot. Moreover, this needs to be produced in just the right amounts; and the thrombin production must start at just the right time and stop at the right time. The orders for starting and ending production are encoded among the enzymes that make up this protein.

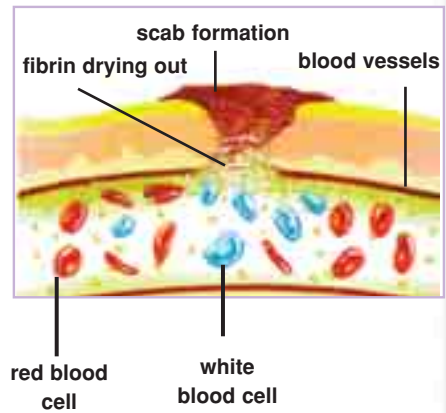
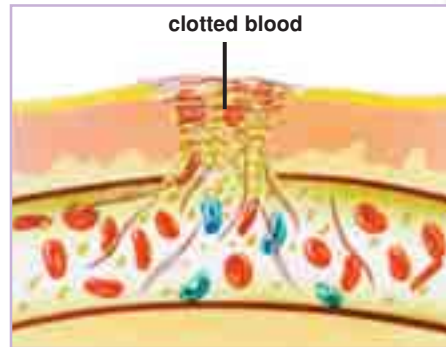
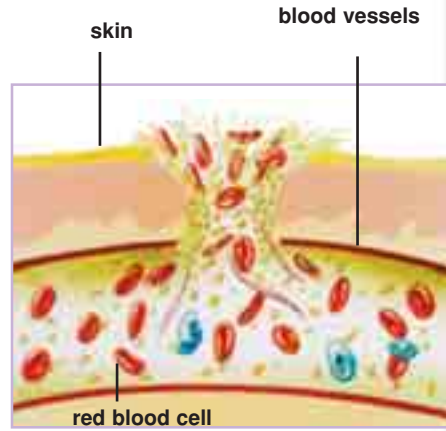
clotting cells



blood clotting



When bleeding occurs anywhere in the body, proteins entrusted with stopping the bleeding immediately arrive at the site.



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Once enough thrombin has been produced, tiny fibers of fibrinogen are formed. They have the very important role of forming a net over the blood, thereby trapping and accumulating the thrombocytes that begin to arrive. Once enough fibers have accumulated, blood stops oozing out from the wound. Once the wound has healed completely, the blood clot is then broken down by similar methods.

These enzymes and proteins are structures that come together by the different ordering of lifeless, unconscious, blind atoms. Each of these is in an organized state from the time the wound occurs, and takes up a particular duty to stop the bleeding as soon as possible. Together, they synthesize the necessary proteins and then "send for help." As if understanding the reality of the situation, the other proteins immediately arrive at the wound, each one performing its duty without fail.

Let it not be forgotten that the enzymes that carry out the "organization," "synthesis," "calling for help," and "understanding" have come about as a result of atoms coming together. This display of apparent consciousness by a molecule of unconscious atoms is certainly a great miracle.

It is certainly impossible for such a system to have arisen in living things as a result of coincidence. Each detail of this system is a product of planning and calculation, evidence of God's infinite knowledge, power, and wisdom. The claim that this system came about as a result of coincidence is an example of the faulty logic that Darwinists display.

THE DETAILS OF EVEN THE TINIEST MOLECULE ARE ENOUGH TO DESTROY THE THEORY OF EVOLUTION

The protein thrombin allows the blood to clot by converting fibrinogen to fibrin. Even though this protein is always circulating through the blood, however, it doesn't always lead to the clotting of blood, thereby preventing blood flow. If there is bleeding in one blood vessel only, it "understands" that clotting is needed there and sets about clotting the blood. If thrombin always led to clotting, all of the blood in the vessels would clot as a result of the thrombin present, and the body could not survive with its circulation totally blocked. So how does thrombin attain the ability to cause clotting only in the place where it's needed?

Thrombin is usually present in blood plasma in an inactive form called prothrombin. Being inactive, it cannot perform the duty of clotting and in this way we are protected from the fatal consequences of uncontrolled clotting.

But what activates prothrombin and converts it to the clotting factor thrombin when bleeding occurs?

A protein in the blood called Stuart factor has the effect of converting prothrombin to thrombin. However Stuart factor is itself also present in an inactive form, and needs to be activated.

At this point we are faced with a chicken-and-egg scenario. Still another protein called accelerin is needed before Stuart factor can become active and turn prothrombin into thrombin—thereby stopping any bleeding in the organism. But what's truly remarkable is that accelerin, too, is present in an inactive form of its own, called proaccelerin. And what activates proaccelerin?

Thrombin!

But if you recall, thrombin comes after proaccelerin in this chain reaction. This sequence of events, in which thrombin plays a role in the production of accelerin, is like a grandchild being born before its own grandmother. But because the effect of Stuart factor on prothrombin is very slow, small amount of thrombin is always present in the blood. As a result, this small amount of thrombin first activates accelerin and then, each of the proteins needed for clotting go into action, like cascading dominoes.

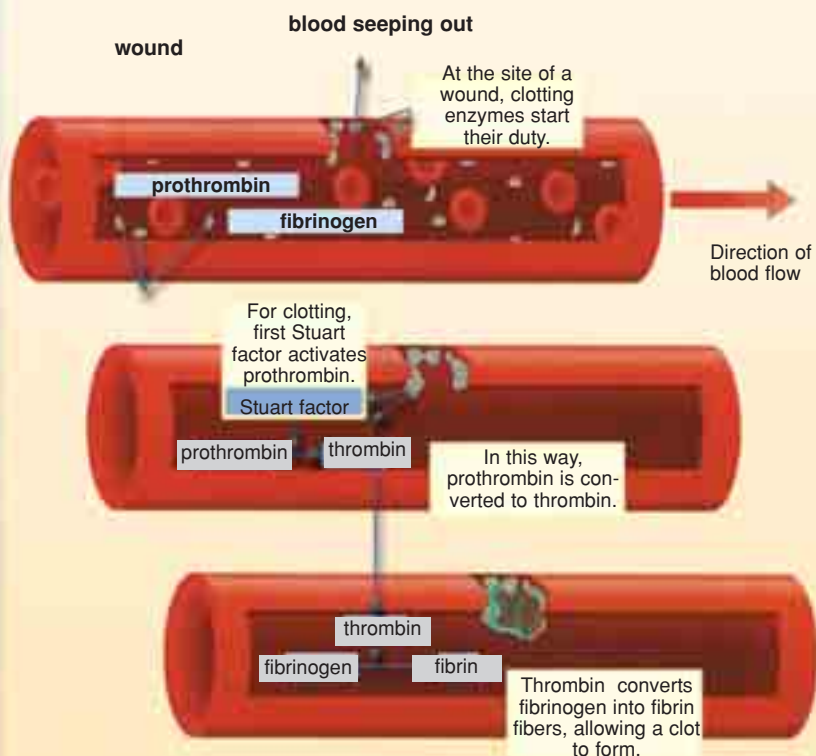
We've explained here only the very superficial facts about the clotting process. To claim that this whole system—consisting of so many parts working together interdependently, with each part performing its duty without neglect—is all the result of coincidences is illogical and irrational.

Evolutionists do claim that living things, together with all their systems including blood clotting, evolved step by step. But in order for clotting to take place, all the proteins and enzymes involved depend on one another. Remove one component, and all the rest are rendered useless—and would actually lead to the death of the organism. As a result, any organism with an incom-



plete clotting system wouldn't have time for the other parts of the system to be completed and would die long before it could reproduce. Consequently, this one example invalidates the claim that organisms evolved from intermediary species. But we could multiply these examples exhaustively, because living bodies continue their existence on behalf of hundreds of such interdependent systems.

The Creator of all of these systems is God.



At the site of a wound, many interdependent proteins go into action to allow blood clotting. These proteins, activated when the body receives a wound, in turn activate each of the other proteins required for clotting.

YOUR LIFE DEPENDS ON SOMETHING AS FLIMSY AS A COTTON THREAD

With the absence of just one enzyme, the human species could go extinct. Only one example should suffice to dramatize this.

Nerve cells, called neurons, envelop our bodies, forming an interconnected web. A constant flow of information takes place along this web of neurons. Electric signals traveling along the length of each neuron transfer innumerable commands and warnings between the brain and other organs.

But neurons do not form one long cable extending from one part of the body to another. They are placed end to end, but do not even contact each other directly. There are gaps between them.

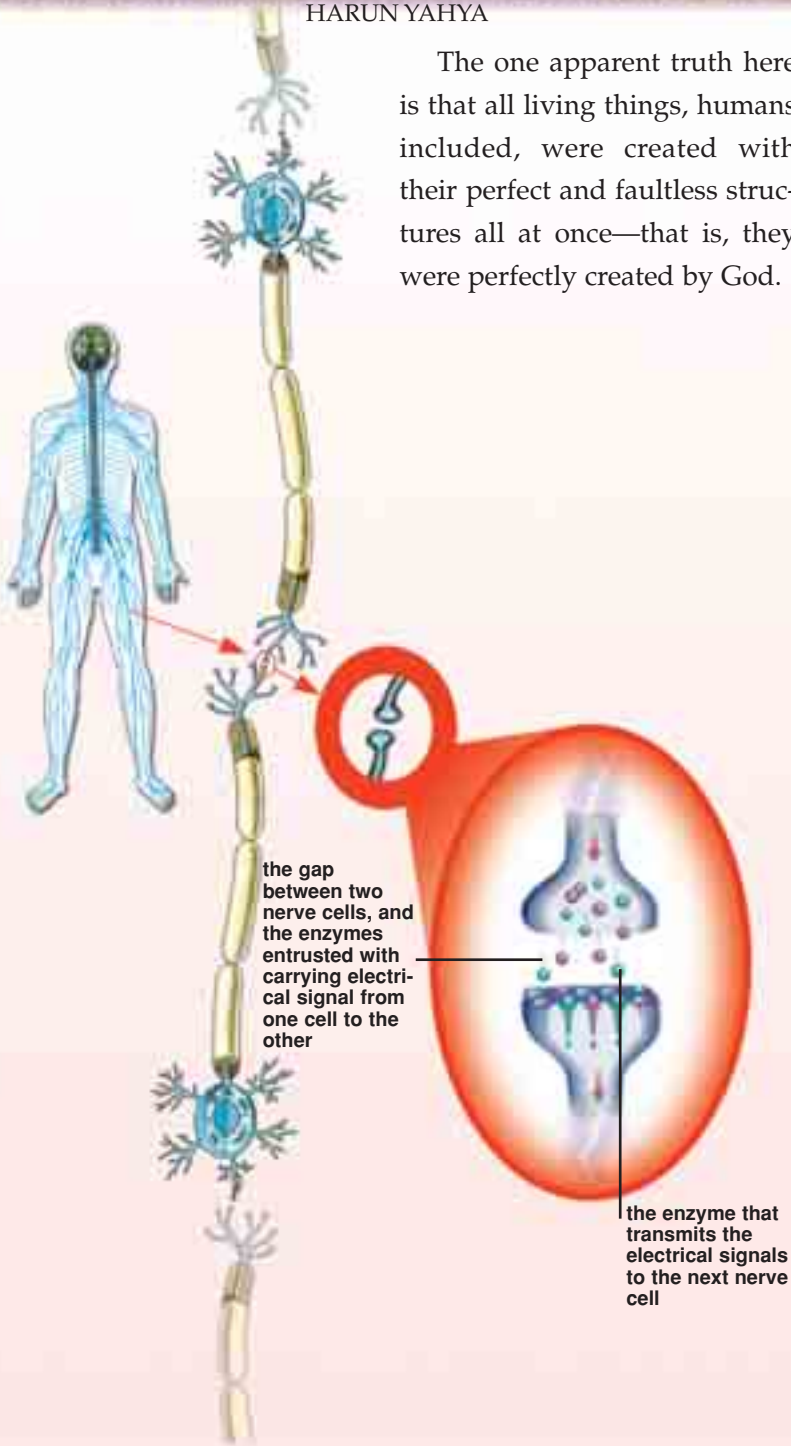
So how does the electricity flow from one nerve cell to the next?

It does so thanks to a very complicated chemical system that comes into play. Between nerve cells is a special fluid containing very specialized chemical enzymes, with the extraordinary ability to transport electrons. When an electric signal reaches the end of the nerve, its electrons are deposited onto these enzymes. The enzymes, carrying their electrons, then move through the fluid and transfer the electrons to the next nerve, thus passing along the electric signal. This process takes place within the smallest fraction of a second, and under no circumstances is the flow of electricity ever cut.

Again, even if all of the parts of the human body were complete, the lack of this one enzyme would be enough to prevent the organism from carrying out any functions at all. The same would arise if any single one of the other thousands of enzymes were lacking. No organism has the luxury of waiting millions of years for blind coincidence to complete its ability to survive, as is claimed by the theory of evolution.

HARUN YAHYA

The one apparent truth here is that all living things, humans included, were created with their perfect and faultless structures all at once—that is, they were perfectly created by God.



THE WORLD'S MOST COMPLEX NETWORK LIES IN OUR BRAIN

With the aid of the perfect structures in the human brain, we have the ability to perform a number of tasks at the same time. For example, you can drive a car while at the same time working with the dials on the cassette player and being in control of the steering wheel. Even though you are doing a number of things at once, you do not crash into the car on the road in front. While controlling the accelerator with your feet, still you can understand exactly what is being reported on the news broadcast on the radio. You can continue a conversation with a passenger where you left off. In short, you can perform a good number of different things simultaneously thanks to your brain's extraordinary capacity.

Facilitating this cooperation is the interdependence of the brain's nerve cells, which number about 10 billion. Some 100 trillion connections facilitate communication among these cells. In *Evolution: A Theory in Crisis*, Michael Denton explains just how huge a number 100 trillion really is:

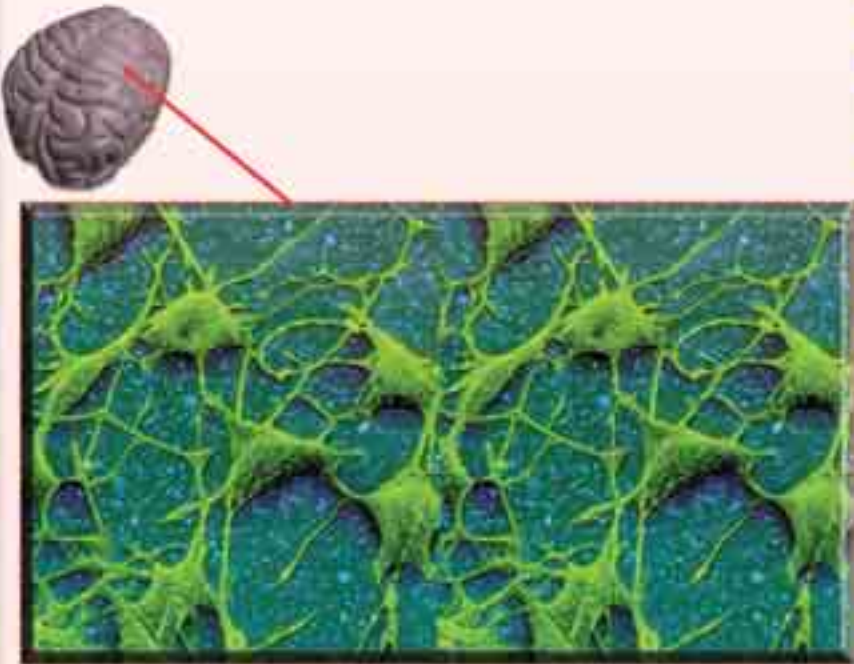
Numbers in the order of 10^{15} are of course completely beyond comprehension. Imagine an area about half the size of the USA (one million square miles) covered in a forest of trees containing ten thousand trees per square mile. If each tree contained one hundred thousand leaves the total number of leaves in the forest would be 10^{15} , equivalent to the number of connections in the human brain.

The extraordinary character of our brain does not end with the sheer number of its neural connections, because every one of the 100 trillion is in the exact place where it's needed. If even one of these connections were in the wrong spot, there would be a fault in this network, with very grave consequences. But this does not

happen. Apart from a few exceptional diseases, people continue their existence as a result of trillions of miraculous processes that come naturally to them.

Darwinists claim that these 100 trillion connections arose as a result of coincidences. According to them, some 10 billion of the 100 trillion cells in the human body somehow decided, on their own, to become nerve cells and consequently adopted the required shape and changed their features—all at once! Not content with this miraculous display, they connected to each other perfectly, using 100 trillion connections, without even one of them being incorrect. This Darwinist claim is akin to saying that New York City's electricity network came about coincidentally after a storm one night and allowed current to reach every single house, bar none.

It's clear and evident that a superior power formed and controls this perfect system. This Power is the Creator of us all—God.



EVERYTHING YOU LEARN IS AN EXAMPLE OF THE SPLENDOR OF GOD'S CREATION

The nerve cells in your body are like a net, over which innumerable commands and warnings between the brain and the organs are communicated. This net is not continuous, however. As we just mentioned, there are gaps between these neurons, and when a message reaches these gaps, electron-carrying enzymes, or neurotransmitters, transfer the message to the next neuron.

Once these neurotransmitters have deposited their charge onto the end of the next nerve fiber, they are free. But if they were to accumulate there, they would block the path of the next lot of transmitters coming from behind. In such a situation, the electrical signal will not be passed onto the next neuron, and the flow will be interrupted. But such a problem never occurs, because a special enzyme called acetylcholinesterase destroys chemicals that build up at the end of the nerve fiber. In other words, it sweeps the area clean. In this way, the path is constantly made clear for the transmitters arriving from behind, eliminating the slightest glitch or interruption in the transmission of impulses.

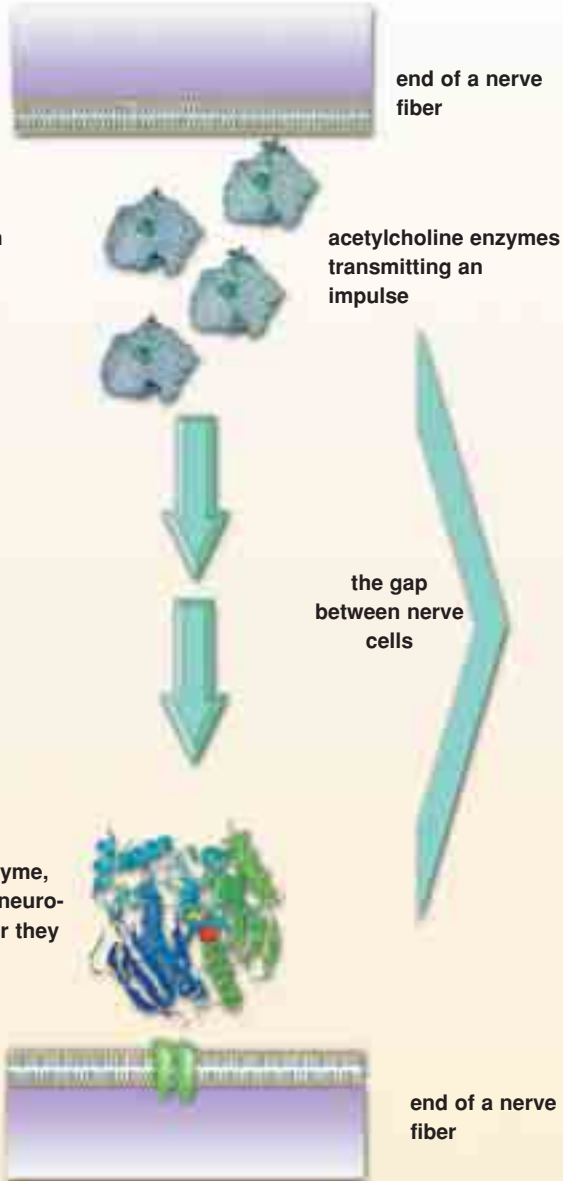
And so, out of the thousands of enzymes in our bodies, if even this one, acetylcholinesterase, were lacking, it would mean the breakdown of the electric signaling throughout the body; we would not be able to survive.

At this point, each of us should ask ourselves: Who has formed these faultless systems in the bodies of all living things, in which the smallest detail has not been overlooked? Who has programmed molecules that do not possess consciousness, knowledge or will, to display the most intelligent, appropriate behaviors?

None of this intelligence, knowledge and perfect artwork can be coincidental! Evolutionists are necessarily quiet on their

answer to these questions. Because the One Who created each enzyme—and Who inspired each with its duty, and Who created this life perfectly from non-existence—is God.

The enzyme called acetylcholinesterase is found at the sites in the body where it is most needed. It sweeps away acetylcholine enzymes that accumulate between two nerve cells after they've transmitted an impulse between them. This way, it makes room for new transmitter enzymes.



acetylcholinesterase enzyme, waiting to sweep up the neurotransmitter enzymes after they finish their duty

APPENDIX

THE DECEPTION OF EVOLUTION

Darwinism, in other words the theory of evolution, was put forward with the aim of denying the fact of creation, but is in truth nothing but failed, unscientific nonsense. This theory, which claims that life emerged by chance from inanimate matter, was invalidated by the scientific evidence of clear "design" in the universe and in living things. In this way, science confirmed the fact that God created the universe and the living things in it. The propaganda carried out today in order to keep the theory of evolution alive is based solely on the distortion of the scientific facts, biased interpretation, and lies and falsehoods disguised as science.

Yet this propaganda cannot conceal the truth. The fact that the theory of evolution is the greatest deception in the history of science has been expressed more and more in the scientific world over the last 20-30 years. Research carried out after the 1980s in particular has revealed that the claims of Darwinism are totally unfounded, something that has been stated by a large number of scientists. In the United States in particular, many scientists from such diffe-

rent fields as biology, biochemistry and paleontology recognize the invalidity of Darwinism and employ the fact of creation to account for the origin of life.

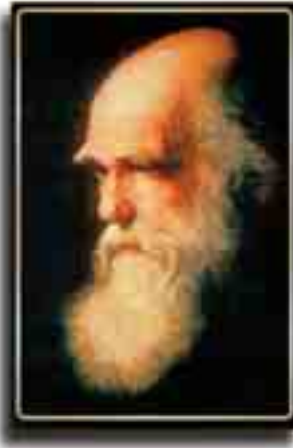
We have examined the collapse of the theory of evolution and the proofs of creation in great scientific detail in many of our works, and are still continuing to do so. Given the enormous importance of this subject, it will be of great benefit to summarize it here.

The Scientific Collapse of Darwinism

Although this doctrine goes back as far as ancient Greece, the theory of evolution was advanced extensively in the nineteenth century. The most important development that made it the top topic of the world of science was Charles Darwin's *The Origin of Species*, published in 1859. In this book, he denied that God created different living species on Earth separately, for he claimed that all living beings had a common ancestor and had diversified over time through small changes. Darwin's theory was not based on any concrete scientific finding; as he also accepted, it was just an "assumption." Moreover, as Darwin confessed in the long chapter of his book titled "Difficulties on Theory," the theory failed in the face of many critical questions.

Darwin invested all of his hopes in new scientific discoveries, which he expected to solve these difficulties. However, contrary to his expectations, scientific findings expanded the dimensions of these difficulties. The defeat of Darwinism in the face of science can be reviewed under three basic topics:

1) The theory cannot explain how life originated on Earth.



Charles Darwin

2) No scientific finding shows that the "evolutionary mechanisms" proposed by the theory have any evolutionary power at all.

3) The fossil record proves the exact opposite of what the theory suggests.

In this section, we will examine these three basic points in general outlines:

The First Insurmountable Step: The Origin of Life

The theory of evolution posits that all living species evolved from a single living cell that emerged on the primitive Earth 3.8 billion years ago. How a single cell could generate millions of complex living species and, if such an evolution really occurred, why traces of it cannot be observed in the fossil record are some of the questions that the theory cannot answer. However, first and foremost, we need to ask: How did this "first cell" originate?

Since the theory of evolution denies creation and any kind of supernatural intervention, it maintains that the "first cell" originated coincidentally within the laws of nature, without any design, plan or arrangement. According to the theory, inanimate matter must have produced a living cell as a result of coincidences. Such a claim, however, is inconsistent with the most unassailable rules of biology.

"Life Comes From Life"

In his book, Darwin never referred to the origin of life. The primitive understanding of science in his time rested on the assumption that living beings had a very simple structure. Since medieval times, spontaneous generation, which asserts that non-living materials came together to form living organisms, had been widely accepted. It was commonly believed that insects came into being from food leftovers, and mice from wheat. Interesting experiments were conducted to prove this theory. Some wheat was placed on a

dirty piece of cloth, and it was believed that mice would originate from it after a while.

Similarly, maggots developing in rotting meat was assumed to be evidence of spontaneous generation. However, it was later understood that worms did not appear on meat spontaneously, but were carried there by flies in the form of larvae, invisible to the naked eye.

Even when Darwin wrote *The Origin of Species*, the belief that bacteria could come into existence from non-living matter was widely accepted in the world of science.

However, five years after the publication of Darwin's book, Louis Pasteur announced his results after long studies and experiments, that disproved spontaneous generation, a cornerstone of Darwin's theory. In his triumphal lecture at the Sorbonne in 1864, Pasteur said: "Never will the doctrine of spontaneous generation recover from the mortal blow struck by this simple experiment."¹

For a long time, advocates of the theory of evolution resisted these findings. However, as the development of science unraveled the complex structure of the cell of a living being, the idea that life could come into being coincidentally faced an even greater impasse.

Inconclusive Efforts of the Twentieth Century

The first evolutionist who took up the subject of the origin of life in the twentieth century was the renowned Russian biologist



Louis Pasteur

CONSCIOUSNESS IN THE CELL

Alexander Oparin. With various theses he advanced in the 1930s, he tried to prove that a living cell could originate by coincidence. These studies, however, were doomed to failure, and Oparin had to make the following confession:

Unfortunately, however, the problem of the origin of the cell is perhaps the most obscure point in the whole study of the evolution of organisms.²



Alexander Oparin

Evolutionist followers of Oparin tried to carry out experiments to solve this problem. The best known experiment was carried out by the American chemist Stanley Miller in 1953. Combining the gases he alleged to have existed in the primordial Earth's atmosphere in an experiment set-up, and adding energy to the mixture, Miller synthesized several organic molecules (amino acids) present in the structure of proteins.

Barely a few years had passed before it was revealed that this experiment, which was then presented as an important step in the name of evolution, was invalid, for the atmosphere used in the experiment was very different from the real Earth conditions.³

After a long silence, Miller confessed that the atmosphere medium he used was unrealistic.⁴

All the evolutionists' efforts throughout the twentieth century to explain the origin of life ended in failure. The geochemist Jeffrey Bada, from the San Diego Scripps Institute accepts this fact in an article published in *Earth* magazine in 1998:

Today as we leave the twentieth century, we still face the biggest unsolved problem that we had when we entered the twentieth century: How did life originate on Earth?⁵

The Complex Structure of Life

The primary reason why the theory of evolution ended up in such a great impasse regarding the origin of life is that even those living organisms deemed to be the simplest have incredibly complex structures. The cell of a living thing is more complex than all of our man-made technological products. Today, even in the most developed laboratories of the world, a living cell cannot be produced by bringing organic chemicals together.

The conditions required for the formation of a cell are too great in quantity to be explained away by coincidences. The probability of proteins, the building blocks of a cell, being synthesized coincidentally, is 1 in 10^{950} for an average protein made up of 500 amino acids. In mathematics, a probability smaller than 1 over 10^{50} is considered to be impossible in practical terms.

The DNA molecule, which is located in the nucleus of a cell and which stores genetic information, is an incredible databank. If the information coded in DNA were written down, it would make a giant library consisting of an estimated 900 volumes of encyclopedias consisting of 500 pages each.

A very interesting dilemma emerges at this point: DNA can replicate itself only with the help of some specialized proteins (enzymes). However, the synthesis of these enzymes can be realized only by the information coded in DNA. As they both depend on each other, they have to exist at the same time for replication. This brings the scenario that life originated by itself to a deadlock. Prof. Leslie Orgel, an evolutionist of repute from the University of San Diego, California, confesses this fact in the September 1994 issue of the *Scientific American* magazine:

It is extremely improbable that proteins and nucleic acids, both of which are structurally complex, arose spontaneously in the same place at the same time. Yet it also seems impossible to have one without the other. And so, at first glance, one might have to conclude that life could never, in fact, have originated by chemi-

CONSCIOUSNESS IN THE CELL



One of the facts nullifying the theory of evolution is the incredibly complex structure of life. The DNA molecule located in the nucleus of cells of living beings is an example of this. The DNA is a sort of databank formed of the arrangement of four different molecules in different sequences. This databank contains the codes of all the physical traits of that living being. When the human DNA is put into writing, it is calculated that this would result in an encyclopedia made up of 900 volumes. Unquestionably, such extraordinary information definitively refutes the concept of coincidence.

cal means.⁶

No doubt, if it is impossible for life to have originated from natural causes, then it has to be accepted that life was "created" in a supernatural way. This fact explicitly invalidates the theory of evolution, whose main purpose is to deny creation.

Imaginary Mechanism of Evolution

The second important point that negates Darwin's theory is that both concepts put forward by the theory as "evolutionary mechanisms" were understood to have, in reality, no evolutionary power.

Darwin based his evolution allegation entirely on the mechanism of "natural selection." The importance he placed on this mechanism was evident in the name of his book: *The Origin of Species, By Means of Natural Selection...*

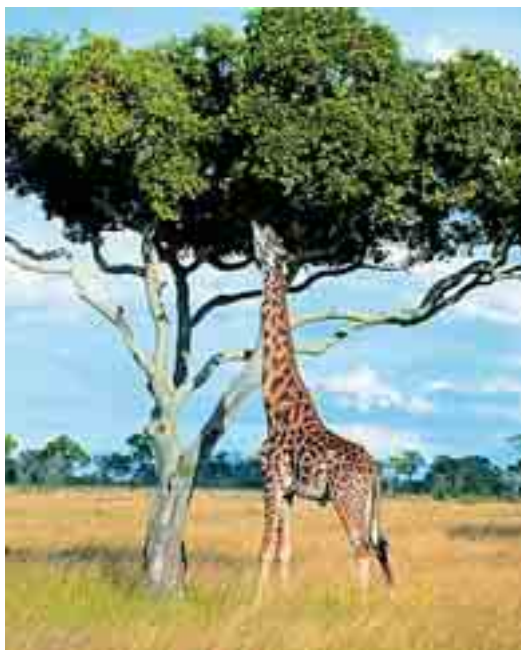
Natural selection holds that those living things that are stronger and more suited to the natural conditions of their habitats will survive in the struggle for life. For example, in a deer herd under the threat of attack by wild animals, those that can run faster will survive. Therefore, the deer herd will be comprised of faster and stronger individuals. However, unquestionably, this mechanism will not cause deer to evolve and transform themselves into another living species, for instance, horses.

Therefore, the mechanism of natural selection has no evolutionary power. Darwin was also aware of this fact and had to state this in his book *The Origin of Species*:

Natural selection can do nothing until favourable individual differences or variations occur.⁷

Lamarck's Impact

So, how could these "favorable variations" occur? Darwin tried to answer this question from the standpoint of the primitive understanding of science at that time. According to the French biologist Chevalier de Lamarck (1744-1829), who lived before Darwin, living creatures passed on the traits they acquired during their lifetime to the next generation. He asserted that these traits, which accumulated from one generation to another, caused new species to be formed. For instance, he claimed that giraffes evolved



Lamarck believed that giraffes evolved from such animals as antelopes. In his view, the necks of these grass-eating animals gradually grew longer, and they eventually turned into giraffes. The laws of inheritance discovered by Mendel in 1865 proved that it was impossible for properties acquired during life to be handed on to subsequent generations. Lamarck's giraffe fairy tale was thus consigned to the wastebin of history.

from antelopes; as they struggled to eat the leaves of high trees, their necks were extended from generation to generation.

Darwin also gave similar examples. In his book *The Origin of Species*, for instance, he said that some bears going into water to find food transformed themselves into whales over time.⁸

However, the laws of inheritance discovered by Gregor Mendel (1822-84) and verified by the science of genetics, which flourished in the twentieth century, utterly demolished the legend that acquired traits were passed on to subsequent generations. Thus, natural selection fell out of favor as an evolutionary mechanism.

Neo-Darwinism and Mutations

In order to find a solution, Darwinists advanced the "Modern Synthetic Theory," or as it is more commonly known, Neo-Darwinism, at the end of the 1930s. Neo-Darwinism added mutations, which are distortions formed in the genes of living beings due to

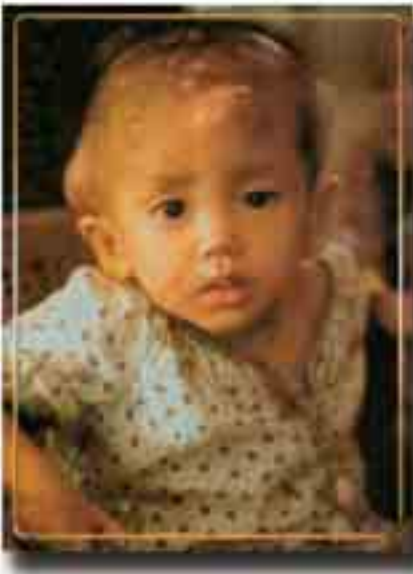
such external factors as radiation or replication errors, as the "cause of favorable variations" in addition to natural mutation.

Today, the model that stands for evolution in the world is Neo-Darwinism. The theory maintains that millions of living beings formed as a result of a process whereby numerous complex organs of these organisms (e.g., ears, eyes, lungs, and wings) underwent "mutations," that is, genetic disorders. Yet, there is an outright scientific fact that totally undermines this theory: Mutations do not cause living beings to develop; on the contrary, they are always harmful.

The reason for this is very simple: DNA has a very complex structure, and random effects can only harm it. The American geneticist B. G. Ranganathan explains this as follows:

First, genuine mutations are very rare in nature. Secondly, most mutations are harmful since they are random, rather than orderly changes in the structure of genes; any random change in a highly ordered system will be for the worse, not for the better. For example, if an earthquake were to shake a highly ordered structure such as a building, there would be a random change in

the framework of the building which, in all probability, would not be an improvement.⁹



Mutations are result of external effects such as radiation or chemical action. This mutated Vietnamese boy is a nuclear weapon victim.

Not surprisingly, no mutation example, which is useful, that is, which is observed to develop the genetic code, has been observed so far. All mutations have proved to be harmful. It was understood that mutation, which is presented as an "evolutionary mechanism," is actually a genetic occurrence that harms living things, and leaves them disabled. (The most common effect of mutation on human beings is cancer.) Of course, a destructive mechanism cannot be an "evolutionary mechanism." Natural selection, on the other hand, "can do nothing by itself," as Darwin also accepted. This fact shows us that there is no "evolutionary mechanism" in nature. Since no evolutionary mechanism exists, no such any imaginary process called "evolution" could have taken place.

The Fossil Record: No Sign of Intermediate Forms

The clearest evidence that the scenario suggested by the theory of evolution did not take place is the fossil record.

According to this theory, every living species has sprung from a predecessor. A previously existing species turned into something else over time and all species have come into being in this way. In other words, this transformation proceeds gradually over millions of years.

Had this been the case, numerous intermediary species should have existed and lived within this long transformation period.

For instance, some half-fish/half-reptiles should have lived in the past which had acquired some reptilian traits in addition to the fish traits they already had. Or there should have existed some reptile-birds, which acquired some bird traits in addition to the reptilian traits they already had. Since these would be in a transitional phase, they should be disabled, defective, crippled living beings. Evolutionists refer to these imaginary creatures, which they believe to have lived in the past, as "transitional forms."

If such animals ever really existed, there should be millions and even billions of them in number and variety. More impor-

HARUN YAHYA

LIVING FOSSILS REFUTE THE THEORY OF EVOLUTION



100-150 million-
year-old starfish
fossil
(L. Cretaceous
Age)



450-million-
year-old
horseshoe crab
fossil from the
Ordovician Age.



150-200 million-
year-old dragon
fly fossil
(Jurassic-Re-
cent)



100-150 million-
year-old shrimp
fossil
(L. Cretaceous
Age)

Different groups of living things suddenly emerged with no similar ancestors behind them, and remained static for millions of years, undergoing no changes at all.

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The 150-200 million-year old fossil dragonfly (Jurassic–Recent age) is no different from specimens living today.

tantly, the remains of these strange creatures should be present in the fossil record. In *The Origin of Species*, Darwin explained:

If my theory be true, numberless intermediate varieties, linking most closely all of the species of the same group together must assuredly have existed... Consequently, evidence of their former existence could be found only amongst fossil remains.¹⁰

Darwin's Hopes Shattered

However, although evolutionists have been making strenuous efforts to find fossils since the middle of the nineteenth century all over the world, no transitional forms have yet been uncovered. All of the fossils, contrary to the evolutionists' expectations, show that life appeared on Earth all of a sudden and fully-formed.

One famous British paleontologist, Derek V. Ager, admits this fact, even though he is an evolutionist:

The point emerges that if we examine the fossil record in detail, whether at the level of orders or of species, we find – over and over again – not gradual evolution, but the sudden explosion of one group at the expense of another.¹¹

This means that in the fossil record, all living species suddenly emerge as fully formed, without any intermediate forms in between. This is just the opposite of Darwin's assumptions. Also, this is very strong evidence that all living things are created. The only explanation of a living species emerging suddenly and complete in every detail without any evolutionary ancestor is that it was created. This fact is admitted also by the widely known evolutionist biologist Douglas Futuyma:

Creation and evolution, between them, exhaust the possible explanations for the origin of living things. Organisms either appeared on the earth fully developed or they did not. If they did not, they must have developed from pre-existing species by some process of modification. If they did appear in a fully developed state, they must indeed have been created by some omnipotent intelligence.¹²

Fossils show that living beings emerged fully developed and in a perfect state on the Earth. That means that "the origin of species," contrary to Darwin's supposition, is not evolution, but creation.

The Tale of Human Evolution

The subject most often brought up by advocates of the theory of evolution is the subject of the origin of man. The Darwinist claim holds that modern man evolved from ape-like creatures. During this alleged evolutionary process, which is supposed to have started 4-5 million years ago, some "transitional forms" between modern man and his ancestors are supposed to have existed. According to this completely imaginary scenario, four basic "categories" are listed:

1. *Australopithecus*
2. *Homo habilis*
3. *Homo erectus*
4. *Homo sapiens*



There are no fossil remains that support the tale of human evolution. On the contrary, the fossil record shows that there is an insurmountable barrier between apes and men. In the face of this truth, evolutionists fixed their hopes on certain drawings and models. They randomly place masks on the fossil remains and fabricate imaginary half-ape, half-human faces.

Evolutionists call man's so-called first ape-like ancestors *Australopithecus*, which means "South African ape." These living beings are actually nothing but an old ape species that has become extinct. Extensive research done on various *Australopithecus* specimens by two world famous anatomists from England and the USA, namely, Lord Solly Zuckerman and Prof. Charles Oxnard, shows that these apes belonged to an ordinary ape species that became extinct and bore no resemblance to humans.¹³

Evolutionists classify the next stage of human evolution as "homo," that is "man." According to their claim, the living beings in the Homo series are more developed than *Australopithecus*. Evolutionists devise a fanciful evolution scheme by arranging different fossils of these creatures in a particular order. This scheme is imagi-

nary because it has never been proved that there is an evolutionary relation between these different classes. Ernst Mayr, one of the twentieth century's most important evolutionists, contends in his book *One Long Argument* that "particularly historical [puzzles] such as the origin of life or of *Homo sapiens*, are extremely difficult and may even resist a final, satisfying explanation."¹⁴

By outlining the link chain as *Australopithecus* > *Homo habilis* > *Homo erectus* > *Homo sapiens*, evolutionists imply that each of these species is one another's ancestor. However, recent findings of paleoanthropologists have revealed that *Australopithecus*, *Homo habilis*, and *Homo erectus* lived at different parts of the world at the same time.¹⁵

Moreover, a certain segment of humans classified as *Homo erectus* have lived up until very modern times. *Homo sapiens neanderthalensis* and *Homo sapiens sapiens* (modern man) co-existed in the same region.¹⁶

This situation apparently indicates the invalidity of the claim that they are ancestors of one another. Stephen Jay Gould explained this deadlock of the theory of evolution, although he was himself one of the leading advocates of evolution in the twentieth century:

What has become of our ladder if there are three coexisting lineages of hominids (*A. africanus*, the robust australopithecines, and *H. habilis*), none clearly derived from another? Moreover, none of the three display any evolutionary trends during their tenure on earth.¹⁷

Put briefly, the scenario of human evolution, which is "upheld" with the help of various drawings of some "half ape, half human" creatures appearing in the media and course books, that is, frankly, by means of propaganda, is nothing but a tale with no scientific foundation.

Lord Solly Zuckerman, one of the most famous and respected scientists in the U.K., who carried out research on this subject for

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years and studied *Australopithecus* fossils for 15 years, finally concluded, despite being an evolutionist himself, that there is, in fact, no such family tree branching out from ape-like creatures to man.

Zuckerman also made an interesting "spectrum of science" ranging from those he considered scientific to those he considered unscientific. According to Zuckerman's spectrum, the most "scientific" – that is, depending on concrete data – fields of science are chemistry and physics. After them come the biological sciences and then the social sciences. At the far end of the spectrum, which is the part considered to be most "unscientific," are "extra-sensory perception" – concepts such as telepathy and sixth sense – and finally "human evolution." Zuckerman explains his reasoning:

We then move right off the register of objective truth into those fields of presumed biological science, like extrasensory perception or the interpretation of man's fossil history, where to the faithful [evolutionist] anything is possible – and where the ardent believer [in evolution] is sometimes able to believe several contradictory things at the same time.¹⁸

The tale of human evolution boils down to nothing but the prejudiced interpretations of some fossils unearthed by certain people, who blindly adhere to their theory.

Darwinian Formula!

Besides all the technical evidence we have dealt with so far, let us now for once, examine what kind of a superstition the evolutionists have with an example so simple as to be understood even by children:

The theory of evolution asserts that life is formed by chance. According to this claim, lifeless and unconscious atoms came together to form the cell and then they somehow formed other living things, including man. Let us think about that. When we bring together the elements that are the building-blocks of life such as carbon, phosphorus, nitrogen and potassium, only a heap is formed.

No matter what treatments it undergoes, this atomic heap cannot form even a single living being. If you like, let us formulate an "experiment" on this subject and let us examine on the behalf of evolutionists what they really claim without pronouncing loudly under the name "Darwinian formula":

Let evolutionists put plenty of materials present in the composition of living things such as phosphorus, nitrogen, carbon, oxygen, iron, and magnesium into big barrels. Moreover, let them add in these barrels any material that does not exist under normal conditions, but they think as necessary. Let them add in this mixture as many amino acids and as many proteins – a single one of which has a formation probability of 10^{-950} – as they like. Let them expose these mixtures to as much heat and moisture as they like. Let them stir these with whatever technologically developed device they like. Let them put the foremost scientists beside these barrels. Let these experts wait in turn beside these barrels for billions, and even trillions of years. Let them be free to use all kinds of conditions they believe to be necessary for a human's formation. No matter what they do, they cannot produce from these barrels a human, say a professor that examines his cell structure under the electron microscope. They cannot produce giraffes, lions, bees, canaries, horses, dolphins, roses, orchids, lilies, carnations, bananas, oranges, apples, dates, tomatoes, melons, watermelons, figs, olives, grapes, peaches, peafowls, pheasants, multicoloured butterflies, or millions of other living beings such as these. Indeed, they could not obtain even a single cell of any one of them.

Briefly, unconscious atoms cannot form the cell by coming together. They cannot take a new decision and divide this cell into two, then take other decisions and create the professors who first invent the electron microscope and then examine their own cell structure under that microscope. Matter is an unconscious, lifeless heap, and it comes to life with God's superior creation.

The theory of evolution, which claims the opposite, is a total

fallacy completely contrary to reason. Thinking even a little bit on the claims of evolutionists discloses this reality, just as in the above example.

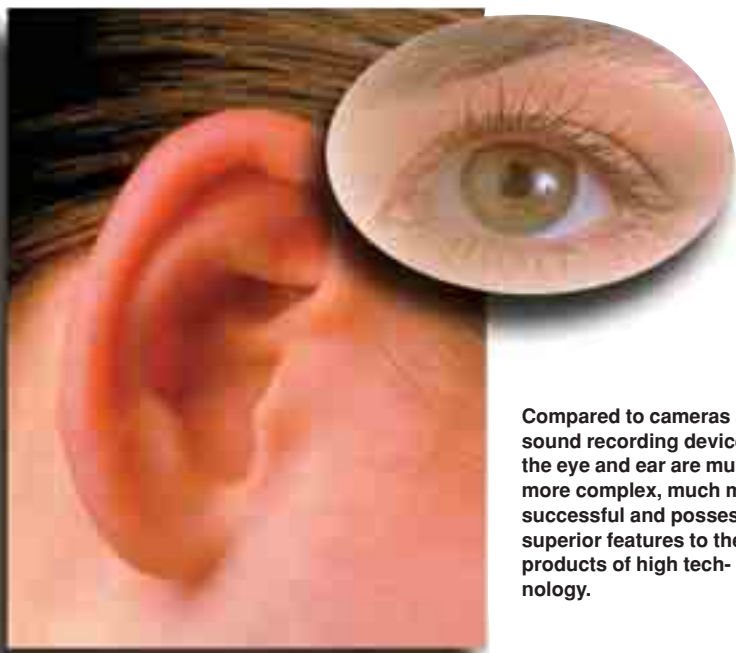
Technology in the Eye and the Ear

Another subject that remains unanswered by evolutionary theory is the excellent quality of perception in the eye and the ear.

Before passing on to the subject of the eye, let us briefly answer the question of how we see. Light rays coming from an object fall oppositely on the eye's retina. Here, these light rays are transmitted into electric signals by cells and reach a tiny spot at the back of the brain, the "center of vision." These electric signals are perceived in this center as an image after a series of processes. With this technical background, let us do some thinking.

The brain is insulated from light. That means that its inside is completely dark, and that no light reaches the place where it is located. Thus, the "center of vision" is never touched by light and may even be the darkest place you have ever known. However, you observe a luminous, bright world in this pitch darkness.

The image formed in the eye is so sharp and distinct that even the technology of the twentieth century has not been able to attain it. For instance, look at the book you are reading, your hands with which you are holding it, and then lift your head and look around you. Have you ever seen such a sharp and distinct image as this one at any other place? Even the most developed television screen produced by the greatest television producer in the world cannot provide such a sharp image for you. This is a three-dimensional, colored, and extremely sharp image. For more than 100 years, thousands of engineers have been trying to achieve this sharpness. Factories, huge premises were established, much research has been done, plans and designs have been made for this purpose. Again, look at a TV screen and the book you hold in your hands. You will see that there is a big difference in sharpness and distinction. More-



Compared to cameras and sound recording devices, the eye and ear are much more complex, much more successful and possess far superior features to these products of high technology.

over, the TV screen shows you a two-dimensional image, whereas with your eyes, you watch a three-dimensional perspective with depth.

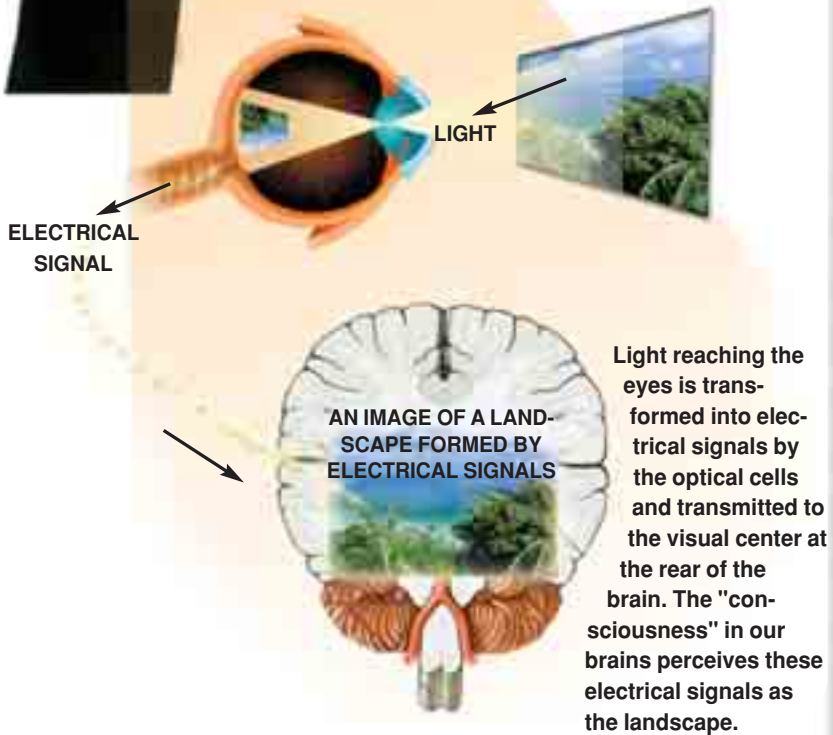
For many years, tens of thousands of engineers have tried to make a three-dimensional TV and achieve the vision quality of the eye. Yes, they have made a three-dimensional television system, but it is not possible to watch it without putting on special 3-D glasses; moreover, it is only an artificial three-dimension. The background is more blurred, the foreground appears like a paper setting. Never has it been possible to produce a sharp and distinct vision like that of the eye. In both the camera and the television, there is a loss of image quality.

Evolutionists claim that the mechanism producing this sharp and distinct image has been formed by chance. Now, if somebody told you that the television in your room was formed as a result of

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Someone looking through a window is actually seeing images of the landscape that form in his brain, rather than the outside world itself.



chance, that all of its atoms just happened to come together and make up this device that produces an image, what would you think? How can atoms do what thousands of people cannot?

If a device producing a more primitive image than the eye could not have been formed by chance, then it is very evident that the eye and the image seen by the eye could not have been formed by chance. The same situation applies to the ear. The outer ear picks up the available sounds by the auricle and directs them to the middle ear, the middle ear transmits the sound vibrations by intensifying them, and the inner ear sends these vibrations to the brain by translating them into electric signals. Just as with the eye, the act of hearing finalizes in the center of hearing in the brain.

The situation in the eye is also true for the ear. That is, the brain is insulated from sound just as it is from light. It does not let any sound in. Therefore, no matter how noisy is the outside, the inside of the brain is completely silent. Nevertheless, the sharpest sounds are perceived in the brain. In your completely silent brain, you listen to symphonies, and hear all of the noises in a crowded place. However, were the sound level in your brain measured by a precise device at that moment, complete silence would be found to be prevailing there.

As is the case with imagery, decades of effort have been spent in trying to generate and reproduce sound that is faithful to the original. The results of these efforts are sound recorders, high-fidelity systems, and systems for sensing sound. Despite all of this technology and the thousands of engineers and experts who have been working on this endeavor, no sound has yet been obtained that has the same sharpness and clarity as the sound perceived by the ear. Think of the highest-quality hi-fi systems produced by the largest company in the music industry. Even in these devices, when sound is recorded some of it is lost; or when you turn on a hi-fi you always hear a hissing sound before the music starts. However, the sounds that are the products of the human body's technology are extre-

mely sharp and clear. A human ear never perceives a sound accompanied by a hissing sound or with atmospheric sounds as does a hi-fi; rather, it perceives sound exactly as it is, sharp and clear. This is the way it has been since the creation of man.

So far, no man-made visual or recording apparatus has been as sensitive and successful in perceiving sensory data as are the eye and the ear. However, as far as seeing and hearing are concerned, a far greater truth lies beyond all this.

To Whom Does the Consciousness that Sees and Hears within the Brain Belong?

Who watches an alluring world in the brain, listens to symphonies and the twittering of birds, and smells the rose?

The stimulations coming from a person's eyes, ears, and nose travel to the brain as electro-chemical nerve impulses. In biology, physiology, and biochemistry books, you can find many details about how this image forms in the brain. However, you will never come across the most important fact: Who perceives these electro-chemical nerve impulses as images, sounds, odors, and sensory events in the brain? There is a consciousness in the brain that perceives all this without feeling any need for an eye, an ear, and a nose. To whom does this consciousness belong? Of course it does not belong to the nerves, the fat layer, and neurons comprising the brain. This is why Darwinist-materialists, who believe that everything is comprised of matter, cannot answer these questions.

For this consciousness is the spirit created by God, which needs neither the eye to watch the images nor the ear to hear the sounds. Furthermore, it does not need the brain to think.

Everyone who reads this explicit and scientific fact should ponder on Almighty God, and fear and seek refuge in Him, for He squeezes the entire universe in a pitch-dark place of a few cubic centimeters in a three-dimensional, colored, shadowy, and luminous form.

A Materialist Faith

The information we have presented so far shows us that the theory of evolution is incompatible with scientific findings. The theory's claim regarding the origin of life is inconsistent with science, the evolutionary mechanisms it proposes have no evolutionary power, and fossils demonstrate that the required intermediate forms have never existed. So, it certainly follows that the theory of evolution should be pushed aside as an unscientific idea. This is how many ideas, such as the Earth-centered universe model, have been taken out of the agenda of science throughout history.

However, the theory of evolution is kept on the agenda of science. Some people even try to represent criticisms directed against it as an "attack on science." Why?

The reason is that this theory is an indispensable dogmatic belief for some circles. These circles are blindly devoted to materialist philosophy and adopt Darwinism because it is the only materialist explanation that can be put forward to explain the workings of nature.

Interestingly enough, they also confess this fact from time to time. A well-known geneticist and an outspoken evolutionist, Richard C. Lewontin from Harvard University, confesses that he is "first and foremost a materialist and then a scientist":

It is not that the methods and institutions of science somehow compel us accept a material explanation of the phenomenal world, but, on the contrary, that we are forced by our a priori adherence to material causes to create an apparatus of investigation and a set of concepts that produce material explanations, no matter how counter-intuitive, no matter how mystifying to the uninitiated. Moreover, that materialism is absolute, so we cannot allow a Divine Foot in the door.¹⁹

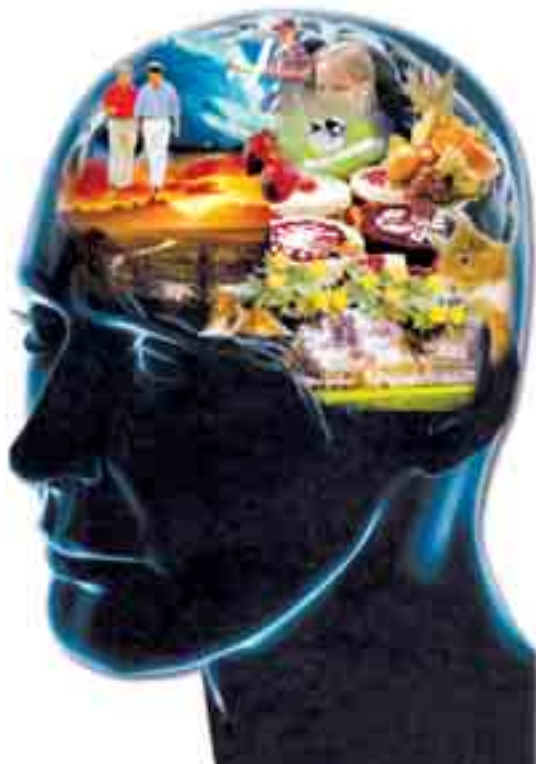
These are explicit statements that Darwinism is a dogma kept alive just for the sake of adherence to materialism. This dogma maintains that there is no being save matter. Therefore, it argues that

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inanimate, unconscious matter created life. It insists that millions of different living species (e.g., birds, fish, giraffes, tigers, insects, trees, flowers, whales, and human beings) originated as a result of the interactions between matter such as pouring rain, lightning flashes, and so on, out of inanimate matter. This is a precept contrary both to reason and science. Yet Darwinists continue to defend it just so as "not to allow a Divine Foot in the door."

Anyone who does not look at the origin of living beings with a materialist prejudice will see this evident truth: All living beings are works of a Creator, Who is All-Powerful, All-Wise, and All-Knowing. This Creator is God, Who created the whole universe from non-existence, designed it in the most perfect form, and fashioned all living beings.

We live our whole life in our brains. People we see, flowers we smell, music we hear, fruit we taste, the moisture we feel with our hands – all these are impressions that become "reality" in the brain. But no colors, voices or pictures exist there. We live in an environment of electrical impulses. This is no theory, but the scientific explanation of how we perceive the outside world.



The Theory of Evolution: The Most Potent Spell in the World

Anyone free of prejudice and the influence of any particular ideology, who uses only his or her reason and logic, will clearly understand that belief in the theory of evolution, which brings to mind the superstitions of societies with no knowledge of science or civilization, is quite impossible.

As explained above, those who believe in the theory of evolution think that a few atoms and molecules thrown into a huge vat could produce thinking, reasoning professors and university students; such scientists as Einstein and Galileo; such artists as Humphrey Bogart, Frank Sinatra and Luciano Pavarotti; as well as antelopes, lemon trees, and carnations. Moreover, as the scientists and professors who believe in this nonsense are educated people, it is quite justifiable to speak of this theory as "the most potent spell in history." Never before has any other belief or idea so taken away peoples' powers of reason, refused to allow them to think intelligently and logically, and hidden the truth from them as if they had been blindfolded. This is an even worse and unbelievable blindness than the Egyptians worshipping the Sun God Ra, totem worship in some parts of Africa, the people of Saba worshipping the Sun, the tribe of Abraham (pbuh) worshipping idols they had made with their own hands, or the people of Moses (pbuh) worshipping the Golden Calf.

In fact, God has pointed to this lack of reason in the Qur'an. In many verses, He reveals that some peoples' minds will be closed and that they will be powerless to see the truth. Some of these verses are as follows:

As for those who do not believe, it makes no difference to them whether you warn them or do not warn them, they will not believe. God has sealed up their hearts and hearing and over their eyes is a blindfold. They will have a terrible punishment. (Qur'an, 2: 6-7)

... They have hearts with which they do not understand. They have eyes with which they do not see. They have ears with which they do not hear. Such people are like cattle. No, they are even further astray! They are the unaware. (Qur'an, 7: 179)

Even if We opened up to them a door into heaven, and they spent the day ascending through it, they would only say: "Our eyesight is befuddled! Or rather we have been put under a spell!" (Qur'an, 15: 14-15)

Words cannot express just how astonishing it is that this spell should hold such a wide community in thrall, keep people from the truth, and not be broken for 150 years. It is understandable that one or a few people might believe in impossible scenarios and claims full of stupidity and illogicality. However, "magic" is the only possible explanation for people from all over the world believing that unconscious and lifeless atoms suddenly decided to come together and form a universe that functions with a flawless system of organization, discipline, reason, and consciousness; a planet named Earth with all of its features so perfectly suited to life; and living things full of countless complex systems.

In fact, the Qur'an relates the incident of Moses (pbuh) and Pharaoh to show that some people who support atheistic philosophies actually influence others by magic. When Pharaoh was told about the true religion, he told Prophet Moses (pbuh) to meet with his own magicians. When Moses (pbuh) did so, he told them to demonstrate their abilities first. The verses continue:

He said: "You throw." And when they threw, they cast a spell on the people's eyes and caused them to feel great fear of them. They produced an extremely powerful magic. (Qur'an, 7: 116)

As we have seen, Pharaoh's magicians were able to deceive everyone, apart from Moses (pbuh) and those who believed in him. However, his evidence broke the spell, or "swallowed up

what they had forged," as the verse puts it:

We revealed to Moses: "Throw down your staff." And it immediately swallowed up what they had forged. So the Truth took place and what they did was shown to be false. (Qur'an, 7: 117-118)

As we can see, when people realized that a spell had been cast upon them and that what they saw was just an illusion, Pharaoh's magicians lost all credibility. In the present day too, unless those who, under the influence of a similar spell, believe in these ridiculous claims under their scientific disguise and spend their lives defending them, abandon their superstitious beliefs, they also will be humiliated when the full truth emerges and the spell is broken. In fact, world-renowned British writer and philosopher Malcolm Muggeridge, who was an atheist defending evolution for some 60 years, but who subsequently realized the truth, reveals the position in which the theory of evolution would find itself in the near future in these terms:

I myself am convinced that the theory of evolution, especially the extent to which it's been applied, will be one of the great jokes in the history books in the future. Posterity will marvel that so very flimsy and dubious an hypothesis could be accepted with the incredible credulity that it has.²⁰

That future is not far off: On the contrary, people will soon see that "chance" is not a deity, and will look back on the theory of evolution as the worst deceit and the most terrible spell in the world. That spell is already rapidly beginning to be lifted from the shoulders of people all over the world. Many people who see its true face are wondering with amazement how they could ever have been taken in by it.

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They said 'Glory be to You! We have no knowledge except what You have thought us. You are the All-Knowing, the All-Wise.'
(Qur'an, 2: 32)