

Astronomy & Space Research Abstract

Constriction of Breasts in the Sky

Allah, the Almighty, says: [And whomsoever Allah wills to guide, He opens his breast to Islam; and whomsoever He wills to send astray, He makes his breast closed and constricted, as if he is climbing up to the sky.] (Al-An`am: 125)

The Scientific Fact:

The formation of the atmosphere was unknown until Pascal proved its existence in 1648. He proved that air pressure decreases as we go higher above sea level.

Later on it was discovered that air in the lower layers of the atmosphere is denser. About 50 % of the air mass is located between the surface of the earth and 20,000 feet above sea level, and 90% is located between the surface of the earth and 50,000 feet above sea level.

Therefore, density decreases vertically until air reaches its utmost rarefaction (minimum pressure) in the higher layers of the atmosphere before it completely vanishes in outer space.

When a human being goes higher than ten thousand (10,000) feet above sea level, it does not cause him any serious problem, as the respiratory system can handle the height of 10,000 to 25,000 feet above sea level; however, if a person goes into outer space, the amount of pressure and oxygen decrease causing the closing of the chest and dyspnea (shortness of breath). Then, the breathing process becomes difficult because of the lack of oxygen (oxygen starvation) and the respiratory system completely fails, causing death.

Facets of Scientific Inimitability:

It is well-known that the different layers of the atmosphere were unknown at the time the Ever-Glorious Qur'an was revealed. Consequently, the low pressure and the decrease of oxygen, which is necessary for man's life, in the higher layers, were also unknown. People at that time did not know these facts; on the contrary they believed that whenever man goes higher, he will feel more serenity and happiness and enjoy the breeze.

This honorable verse clearly indicates two facts that have been only discovered lately by modern science: the first one is that dyspnea occurs when a person goes higher in the layers of the atmosphere because of the lack of oxygen and the decrease in air pressure. The second is the state that precedes choking leading to death that occurs when a person goes more than 30,000 feet above sea level. This is caused by the drastic decrease in air pressure and an extreme lack of oxygen.

It is important to note the miraculous nature of the word (climb) that indicates the difficulty of this state and describes the pain and suffering attached to it.

This is a sure indication that these words are truly from the All-Knowing and the All-Aware.

The Sky with its Returning System

Allah, the Almighty, says: [By Heaven with its returning system.] (At-Tariq:11)

The Scientific Fact:

- 1- The atmosphere returns vaporized water in the form of rain.
- 2- The atmosphere receives many meteors and returns them to outer space.
- 3- The atmosphere returns the harmful rays that kill living creatures and pushes them away from the earth.
- 4- The atmosphere returns short and medium radio waves back to the earth. Therefore, the atmosphere is like a reflecting mirror that reflects rays and electromagnetic waves. Also, it returns television and wireless waves after being reflected through the Ionosphere. This is how television and radio broadcasting works around the earth.
- 5- The atmosphere is like a reflecting mirror that reflects heat; it works like an armor against the sun's heat during the day and prevents the heat of the earth from scattering at night. If this system became unbalanced, life on earth would be impossible because of either extreme heat or cold.

Facets of Scientific Inimitability:

This honorable verse indicates that the most prominent characteristic of the sky is that it is a returning system. Previously, people thought that this verse meant the return of water in the form of rain, but modern science added many additional meanings to the word "returning" that were previously unknown. The sky here means the atmosphere and this verse shows that the sky has a surrounding cover that returns every useful thing to the earth and hinders every harmful thing from reaching it.

Therefore, the word "returning" has many indications; more than just the return of rain. Without the benefits of the returning system, life on earth would be impossible.

Thus, the Ever-Glorious Qur'an revealed many modern discoveries in one word, many centuries ago.

Stars that Hide and Move Swiftly

Allah, the Almighty, says: [So verily, I swear by the stars that recede (i.e. disappear during the day and appear during the night). And by the (cleaning) stars that move swiftly and hide themselves.] (At-Takwir: 15-16)

The Scientific Fact:

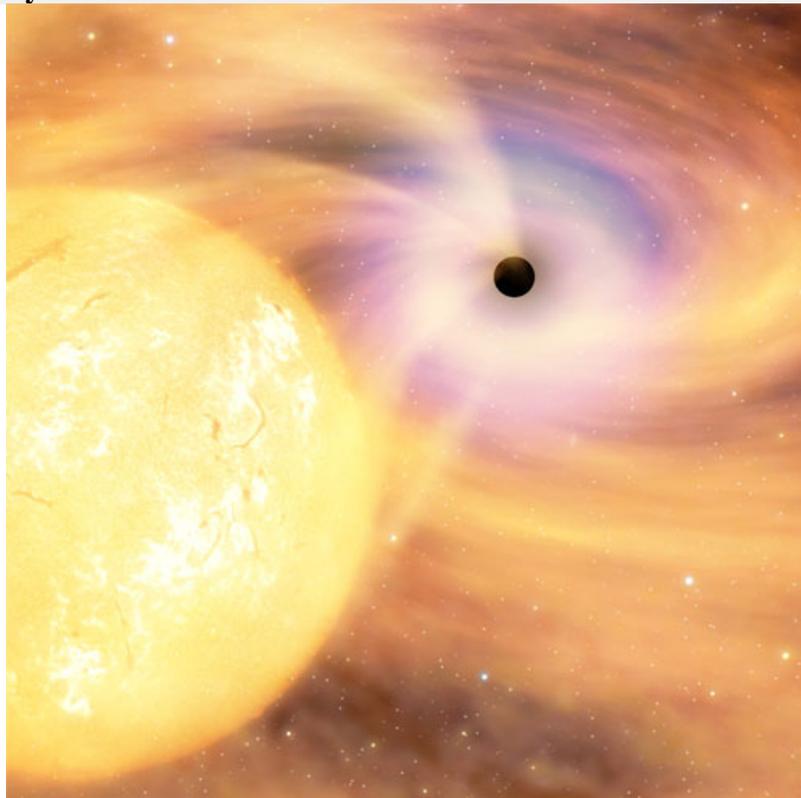
Black holes are the late stages of the life of gigantic stars which are five times larger

than the sun. These stars are of great density and gravity that they almost gravitate everything even light whose speed is 300,000 km/. Therefore, they are given this name (i.e. black holes) because anything that approaches them disappears, and they are seen as black holes in space. These giant hidden stars sweep away anything in their way including other stars and that is why they are called gigantic vacuum-cleaners. These facts are proven by the calculations made by Karl Schwars Child in 1916 and Robert Oppenheimer in 1934. Since 1971, the existence of such black holes in space has become more and more probable. For instance, scientists believe that our galaxy (the Milky Way) is considered one of these black holes.

Facets of Scientific Inimitability:

Allah, the Almighty, swore by these things to confirm the fact that the Ever-Glorious Qur'an is a Divine revelation. He (Exalted and Glorified be He) says: *[So verily, I swear by the stars that recede (i.e. disappear during the day and appear during the night). And by the (cleaning) stars that move swiftly and hide themselves. And by the night as it departs; And by the dawn as it brightens; Verily, this is the Word (this Qur'an brought by) a most honorable messenger [Jibril (Gabriel), from Allah to the Prophet Muhammad (Peace be upon him)].]* (At-Takwir: 15-19)

The importance of this kind of confirmation lies in the object used for swearing here, which is described in a way tantamount to black holes. The black holes are running stars that move in their poles, and hide themselves after having been obvious, as they are at the end of their lives. They produce no light due to their gravity which enables them to gravitate everything in their way and clear their way by swallowing up everything around. The Ever-Glorious Qur'an describes them as being 'cleaners' in conformity with the scientific description. The Qur'anic description which confirms the scientific one stands as decisive evidence that the Ever-Glorious Qur'an is the true word of Allah - Glory be to Him.



The Sun is a Great Lamp, and the Moon Gives Light

Allah, the Almighty, says: **[Blessed be He Who has placed in the heaven**

big stars, and has placed therein a great lamp (sun), and a moon giving light.] (Al-Furqan: 61)

**And, [And We have made (therein) a shining lamp (sun).]
(An-Naba': 13)**

The Scientific Facts:

The energy of the sun (universal atomic pile): The energy of the sun is generated by the burning of hydrogen, which is the main constituent of the sun that transforms it into helium deep within, where there is very high density, pressure, and temperatures reaching 15,000,000°. This leads to a nuclear reaction and fusion of four hydrogen atoms to make one helium atom. The leftover energy from this reaction is released in the form of electromagnetic energy divided into short wave rays, infrared rays, and ultraviolet rays.

This means that the sun obtains its energy from within through natural nuclear reaction under very high pressure, heat, and density as if it is a mega atomic pile made to provide earth with light, warmth, and energy.

The sun is considered a star and is a luminous celestial body, whereas the moon is a planet; a dark celestial body that reflects the light it receives from stars and the sun as do all the other natural satellites of the planets (the moons).

Facets of Scientific Inimitability:

More than fourteen centuries ago, the Ever-Glorious Qur'an indicated the difference between stars and planets exemplified in the difference between the sun and the moon.

Modern astronomers only discovered this fact recently after the telescope was invented and after applying photometric and spectrogram researches on stars and planets.

Stars are luminous celestial bodies whereas planets are dark celestial bodies that reflect the light received from stars and the sun as do all other natural satellites of the planets and (moons).

The sun is a mega atomic pile swimming very fast in space and has many various forms of light, heat, and energy. It is not just a bright disk; rather it is like a shining lamp, whereas the moon is a planet that reflects the light of the sun to lighten the night on earth.

This fact was described in these two honorable verses fourteen centuries ago, then we must ask ourselves, who told Prophet Muhammad r about it but Allah, the Most High!

Medicine Research Abstract

Anatomy Shows the Body Joints

`A'ishah (may Allah be pleased with her) narrated that the Prophet (peace be upon him) said: "Everyone has been created with three hundred and sixty joints. Whoever mentions Allah's greatness (says Allahu Akbar), praises Allah, extols Allah, and seeks forgiveness from Allah and removes stones from the path of the people, enjoins what is good and forbids evil to the amount of those three hundred and sixty joints, he walks on that Day (of Judgment) having distanced himself from the Fire."**[1]**

Abu Buraydah (may Allah be pleased with him) narrated that the Prophet (peace be upon him) said: "Man has three hundred and sixty joints. He has to give charity; one for each joint." The people said: "O Allah's Prophet!

Who can afford this?" He (peace be upon him) said: "To bury the phlegm you find in the mosque or to remove things (stones) from the path of the people. If you can not afford so, it is sufficient to pray two rak'ahs [2]of Duha[3]." [4]

The Scientific Fact:

The joint is a point of articulation of two bones, a bone and gristle, or two gristles in any part of the human body.

The total number of joints, according to scientists, is:

- 1- Skull joints: 86
 - 2- Throat joints: 6
 - 3- Thorax joints: 66
 - 4- Spine and Pelvis joints: 76
 - 5- Upper limbs: $32 \times 2 = 64$
 - 6- Lower limbs: $31 \times 2 = 62$
- Total number of joints: 360

Facets of Scientific Inimitability:

The Prophet (peace be upon him) said that the number of joints in the human body is 360, although at that time it was impossible to know such information, for most of the joints are very small and hard to see with the naked eye. The exact number of joints was not discovered until development in the fields of anatomy and histology.

Thus, the Prophet (peace be upon him) accurately pinpointed the number of joints fourteen centuries ago while modern anatomy came to assert this scientific fact only recently.

[1] Reported by Muslim, hadith no. 1007.

[2] Prayer is made up of several *rak'ahs*, each *rak'ah* consists of one standing (while reciting the Qur'an), one bowing and two acts of prostration.

[3] The mid-morning voluntary prayer. Its time starts after the sun is well up in the sky until just before noon.

[4] Reported by Ahmad.

Sexually Transmitted Diseases Are a Byproduct of Lewdness

The Prophet (peace be upon him) said: "Never does sexual perversion become widespread and publicly known in certain people without them being overtaken by plague and disease that never happened to their ancestors who came before them." (Reported by Ibn Majah.) He (peace be upon him) also said: "Whenever adultery becomes a widespread phenomena among certain people, death will spread among them." (Reported by Malik.)

The Scientific Fact:

Modern science has shown us through the works of microbiologists during the last two centuries that there are certain bacteria, microbes, and viruses that are only transmitted through having sex in a perverted way like multiple relationships between

men and women, sex between men and men (sodomy), and between women and women (lesbianism). The more such forms of perversion become rampant, the more plagues and diseases hit the society since these microbes become resistant to treatment. Moreover, the human body will fail to combat them due to its weak immunity and the change of the properties of such organisms.

Facets of Scientific Inimitability:

The *hadith* of the Prophet (peace) tells us about a social law that will inevitably happen when certain things occur. The beginning is the spread of prohibited sexual relations including adultery and homosexuality in the society. When such relations become normal and accepted, this will lead to a state of almost common consent concerning them. This is what is referred to in the words: *Never does sexual perversion become widespread and publicly known in certain people...*

This law has taken effect in many Western societies where people have accepted adultery and homosexuality and even propagated them. In his book *Sexually Transmitted Diseases*, Dr. Schofield wrote that permissiveness has become the reaction of society in the face of all sexual practices. People are no longer ashamed of adultery, homosexuality, or any other sexual perversion. What adds insult to injury is that the mass media has inculcated in the minds of people that young men and women should not remain chaste. Chastity has become a shame in Western societies. Sexual permissiveness is propagated and supported everywhere in the media.

According to the Encyclopedia Britannica, gays are now acting publicly and have their own clubs, bars, parks, beaches, swimming pools, and even restrooms.

Hundreds of articles, books, plays, novels, and movies praising prostitution and homosexuality can be found everywhere. Some Western churches have even accepted homosexuality and adultery and priests are now conducting gay marriages in some churches. Many societies have been established to cherish and defend gay rights. This is the beginning, what about the outcome?

Many sexual plagues have appeared and many diseases have overwhelmed societies around the world. Since its appearance in 1494, the plague of syphilis has taken the lives of millions of people and destroyed the future of many others. The virus causing this disease is still changing itself and attacking people from time to time. Gonorrhea is on top of the list of infectious sexual diseases. Being the most widespread sexual disease, it terrifies millions of people and leaves them infertile. These diseases strike those who divert from the teachings of Allah and go their own perverted way. Recently, people started to hear about AIDS which destroys the immunity system and thus bodily organs fall, one after another, after causing horrible pain to the person. This is exactly what the Prophet (peace be upon him) told us a long time ago. Is this not additional evidence that Muhammad (peace be upon him) is the true Messenger of Allah?

Estimated number of persons living with HIV / AIDS by region, end 1996



Quarantine: A Prophetic Discovery

The Prophet (peace be upon him) said: "If you hear of an outbreak of plague in a land, do not enter it; but if the plague breaks out in a place while you are in it, do not leave that place." (Reported by al-Bukhari and Muslim.)

Also, he (peace be upon him) said: "He who runs away from the place of plague is like the one running away from fighting in the cause of Allah; and he who is patient and stays where he is, he will be rewarded with the reward of a martyr." (Reported by Ahmad.)

The Scientific Fact:

Modern science now understands the ways in which microorganisms multiply and the diseases they cause. Scientists affirm that healthy people who have no symptoms in the place of plague are already carrying the microbe and so they represent a real threat because they may transfer the plague to another place if they move to it.

Thus, this system of quarantine, in which all the people of the city that suffers from plague are prevented from leaving, and visitors are also prevented from entering, has now been established worldwide. In the 15th century, plague hit Europe causing the death of a quarter of its citizens. At that time, plagues and contagious diseases were much less in the Muslim world.

Facets of Scientific Inimitability:

At the time of the Prophet (peace be upon him) as well as before and after his time until Pasteur managed to discover the existence of microbes, people used to think that diseases were caused by devils, demons, and stars. That is they were not related to cleanliness or certain behaviors; thus, they resorted to sorcery and magic as a remedy.

In such an environment, the Prophet (peace be upon him) established the system of quarantine which is considered the basis of modern preventative medicine after the discovery of the microbes that cause diseases and plagues. The Prophet (peace be upon

him) ordered his Companions: *"If you hear of an outbreak of plague in a land, do not enter it; but if the plague breaks out in a place while you are in it, do not leave that place."* In order to make sure that his order would be carried out properly, he (peace be upon him) established a wall around the area of the plague and promised those who are patient and stay in the area of the plague with the reward of the martyrs, and those who run away from it were promised doom and perdition. Thus, he (peace be upon him) said: *"He who runs away from the place of the plague is like the one running away from fighting in the cause of Allah and he who forbears it and stays where he is, he will be rewarded with the reward of a martyr."*

If a healthy person was asked two hundred years ago to stay with the sick people in a plague area, he would have considered this some kind of nonsense and in response to his desire to live he would have run away to another place. Only Muslims did not run away and leave at the time of plague in compliance with the order of the Prophet (peace be upon him). Non-Muslims mocked them for this act until it was later discovered that those who appear to be healthy with no symptoms, are the germ carriers who might transfer the plague to another place if they moved to it. They would move freely and mingle with healthy people, so they might cause them to catch the disease.

Who told the Prophet (peace be upon him) this fact? Could a human being know something like this fourteen centuries ago, or is it revelation from the All-Knowing, the Almighty Allah. Allah, the Almighty, says:

[And say, O Muhammad, to these polytheists and pagans, 'All the praises and thanks be to Allah. He will show you His signs and you shall recognize them. And your Lord is not unaware of what you do.'] (An-Naml: 93)

Coccyx or Primitive Streak

In his Sahih, Imam Muslim reported on the authority of Abu Hurayrah that the Prophet (peace be upon him) said: **“The whole body of the son of Adam will be eaten by dust except `ajb adh-dhanab (coccyx) for he was created from it and his body will be reconstructed starting with it.”**

The Scientific Facts:

According to embryology, the coccyx (tailbone) is a small bone associated with the last bone of the spine and usually consists of four fused vertebrae and is considered to be the base of the primitive streak that precedes the formation of the whole fetus, especially the nervous system. After primitive streak disappears, only a small bone known as the coccyx remains.

The formation of the primitive streak: On the fourteenth day, the endoderm (innermost layers of the embryo) and the ectoderm (outermost layers of the embryo) grow

until they become pear shaped. The front part will be wider than the back. At the back part, the ectoderm will actively formulate the primitive streak which appears for the first time on the fifteenth day after conception.

Rapid growth and cell division in the primitive streak begins and cells start to move rightwards and leftwards between the endoderm and the ectoderm forming a third layer called the mesoderm.

After the appearance of the primitive streak, the formation of the nervous system and the notochord begins and the bodily organs of the fetus start to take shape. If the primitive streak does not take place, bodily organs will not start their formation.

Due to its importance, Warnock British Commission (a commission specialized in human conception and embryos) has pointed out that the existence of the primitive streak is the point at which doctors and researchers have stopped conducting experiments on early fetuses produced by in vitro fertilization.

At its first appearance and due to its extensive activity, the primitive streak is followed by the following:

1- At the point when the neural tube closes, the otic placode and the lens placode starts to appear. The human brain starts to take shape at the upper two thirds of the neural tube while the spinal cord is created at the lower third which is below the fourth-fifth somite, as the first four somites are part of the base of the skull.

2- The mesoderm - which starts to take shape - grows extensively around the fetus cord creating somites which later turn into muscles and the backbone. Later, the early ends of the upper and lower limbs - which formulate the skeleton and the muscles, as well as the urinary and procreative system - will stem from these somites. In this mesoderm, the peritoneum, pleura, and tumor membranes in addition to blood vessels, the heart, and the digestive system muscles, take form.

In this way, the formation of the primitive streak is an important indicator that the bodily organs and tissue of the fetus are being created. In fact, the stage known as organogenesis does not start except after the formation of the thickening of cell layers, the neural groove, and the somites. It extends from the beginning of the fourth week to the end of the eighth week. At the end of this period, the fetus is equipped with all basic systems and only tiny details and growth will follow.

What happens to the primitive streak? Having fulfilled the purpose of its existence at the fourth week, the primitive streak starts to shrink and its remains stay in the sacrococcygeal region. These very tiny remains of the primitive streak stay there forever.

Facets of Scientific Inimitability:

The *hadiths* dealing with the issue of the coccyx or the primitive streak are among the miracles of the Prophet (peace be upon him). Modern embryology has proven that man is created from this primitive streak which helps cells to grow and become full organs. It has its own effect on the formation of the nervous system (the neural groove, the neural tube, and then the whole nervous system) as well as all other organs. After fulfilling its task, the primitive streak vanishes and only a small part of it remains in the sacrococcygeal region. This remaining part (the coccyx) will be used when man's body is reconstructed and recreated on the Day of Judgment as told by the truthful Prophet (peace be upon him).

Black Seed: A Cure for Every Disease

Both Sahih's have reported the hadith narrated by Abu Salamah on the authority of Abu Hurayrah (May Allah be pleased with him) that the Prophet (peace be upon him) said: **Use this black seed regularly, because**

it has a 'shifaa' (cure) for every disease, except death.

The Scientific Fact:

For more than two thousand years, black cumin seed has been known and used as a natural treatment in many Middle and Far Eastern countries. In 1959, ad-Dakhakhni and his colleagues managed to extract Nigellone from black seed. Black seeds contain 40% fixed oils and 1.4% volatile oils. They also contain around fifteen amino acids, proteins, calcium, iron, sodium, and potassium. Among its most effective compositions are thymoquinone, dithymoquinone, thymohydroquinone, and thymol. The role of black seed in increasing human immunity was not clear before 1986, when Dr. Qadi and his colleagues started a series of researches in the United States. Afterwards, many researches were launched in various countries. Dr. Qadi proved that the use of black seed strengthens immunity since the ratio of the T assistant lymph cells increased by an average of 72% compared to the restraining cells. Also, there was a considerable development in the activity of natural killer cells with an average of 74%.

The results of many modern researches supported the findings of Qadi. Amongst them are the results published by the International Immunity magazine in August 1995 about the effect of black seed on the outer lymph cells and the activity of white blood multi-nucleus cells. In September 2000, the International Immunity magazine also published a research on the effect of black seed oil in preventing cytomegalovirus on laboratory rats. Black seed oil has been tested as an anti-virus substance and the immunity acquired during the early stages of the disease was measured through determining the natural killer cells and other things.

In October 1999, the European magazine of Cancer published an article on the effect of thymoquinone on abdomen cancer in rats. Likewise, in May 1998, a magazine specialized in anti-cancer researches published an article on the extracts of black seed as a treatment for cancer tumors. On April 2000, the Ethanol Medical magazine wrote about the toxicity and immunity effects of ethanol extracted from black seeds. Also, in February 1995, Medical Plants magazine published an article on the effects of black seed stable oil and thymoquinone on white blood cells. Many other researches came out supporting these facts.

Facets of Scientific Inimitability:

The Prophet (peace be upon him) told us that black seed is a cure for every disease. The Arabic word '*shifaa*' (cure) came without the definite article which means that it is an indefinite word that covers most cures. This means that black seed contributes to the cure of every disease. It has been scientifically proved that the immunity system is the only system that has the ability to combat diseases and produce cells that kill viruses.

Through research and laboratory work that has been done on the effect of black

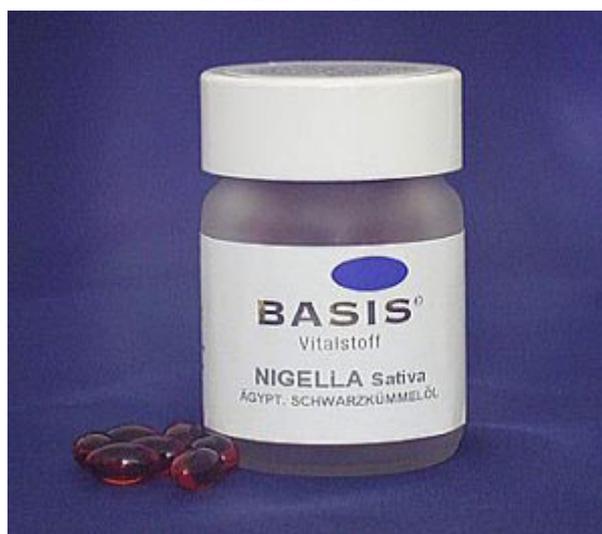
seed, it has been found that it activates human immunity and increases the production of natural killer cells, constraining cells, and assistant cells. These are all very complicated and important lymph cells. According to Qadi, the production of such cells increased by 75%. Such findings were supported by the researches published in other periodicals and magazines. Black seed led to the development of assistant lymph cells, an increase in interferon and interleukin 1 and 2, and the immunity of the cell became stronger. All this led to an increase in the immunity system's ability to combat and destroy cancer cells and viruses. It has also healed the tracks of schistosomiasis. Based on these facts, we can conclude that black seed is a cure for every disease because it strengthens the immunity system which is responsible for curing diseases and combating viruses.

These scientific facts that are mentioned in the *hadith* of the Prophet (peace be upon him) are obvious. No one can claim the credit of knowing these facts fourteen centuries ago, except a prophet. Almighty Allah says: [*Nor does he speak of (his own) desire. It is only an Inspiration that is inspired.*] (An-Najm: 3-4)



Nigella sativa L.

Image processed by Thomas Schoepke
www.plant-pictures.de



The Forehead

Allah, the Almighty, says: [Nay! If he (Abu Jahl) ceases not, We will catch him by the forehead. A lying, sinful forehead!] (Al-`Alaq: 16)

The Scientific Fact:

The human brain consists of three main lobes; the frontal lobe, the occipital lobe, the temporal lobe, and the parietal lobe. Each lobe has its own special function. Yet, they all work together and complement each other. The frontal lobe in the human brain is distinctive from that of animals since it includes centers that are responsible for speaking and behavior. It also includes certain neural centers with distinctive functions and places including the pre-frontal cortex which lies exactly behind the forehead and forms the major part of the frontal lobe. This pre-frontal cortex is the main unit for building the character of the person. It plays a role in initiative and judgment. It also contains the motor speech area of Broca which coordinates the process of producing voices between the organs of speech including the larynx, the tongue, and the face. Also, it contains the movement zones which include the frontal eye field. The frontal eye field sustains the organized movement of the eye to the opposite direction. The primary and secondary motor areas that control the willed movements of the muscles. All this show that the frontal area of the frontal lobe, which lies in the forehead, is for directing behavior and shaping up human personality. Any damage to this area would lead to the deterioration in moral criteria and the efficiency of memory and the ability to work out logical problems.

Facets of Scientific Inimitability:

The mystery of this verse mentioned above was only solved recently. No wonder, the Ever-Glorious Qur'an mentioned the area of the forehead as being the lying and the sinful one. Furthermore, the Ever-Glorious Qur'an said that this body part will be hit and held; it is an allusion to the area which monitors the human behavior. So it is the body part to be held accountable for man's deeds. It is a Divine wisdom that Allah commanded this part to be placed on the ground in prostration so that it will learn how to be honest and upright. Almighty Allah says: *“Verily, prayer prevents from al-Fahsha' (i.e. great sins of every kind, unlawful sexual intercourse, etc.) and al-Munkar (i.e. disbelief, polytheism, and every kind of evil wicked deed, etc.) and the remembering (praising, etc.) of (you by) Allah is greater indeed. And Allah knows what you do.”* (Al-`Ankabut: 45)

Creating the Embryo in Different Stages

Allah, the Almighty, says: [What is the matter with you, [that you fear not Allah (His punishment), and] you hope not for reward (from Allah or you believe not in His Oneness). While He has created you in (different) stages.] (Nuh: 13-14)

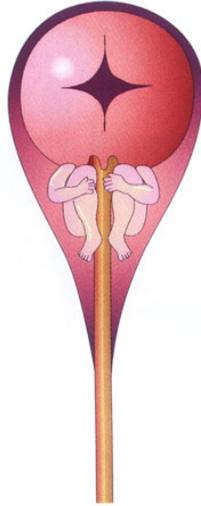
The Scientific Fact:

In 1651, Harvey was the first person to study the embryo of a hen using a simple lens. In addition, he studied deer embryos. Due to the difficulty of following up the early stages of pregnancy, he concluded that an embryo is no more than some secretions of the womb. In 1672, Graaf discovered what was later known as Graafian follicles. He also observed the wombs of some pregnant rabbits and came to the conclusion that an embryo is not formed by secretions from the womb; rather, from the ovary. The very tiny tissues observed earlier by Graaf were no more than cavities in the blastocysts. In 1675, Malpighi found embryos in the eggs of some hens. At first he thought that the eggs were in no need of being fertilized and that they contained a little organism that grows without going through stages. Using a more advanced microscope, Hamm and Leeuwenhoek discovered human sperm, for the first time in history in 1677. Yet, they failed to perceive its significant role in conception. They even thought that a sperm contains a tiny human being that grows in the womb without going through any stages of development. In 1759, Wolff suggested that an embryo develops from primitive formations that do not have the form of a complete human being. In 1775, all such arguments and disputations came to an end, i.e. an embryo grows up through stages. The experiments performed by Spallanzani on dogs confirmed the importance of sperm in the process of impregnation. Before that, there was only one idea that sperms are strange beings. It is because of such a belief that sperms were given the name of semen animals. One hundred and fifty years after the discovery of sperms and exactly in 1827, von Baer observed the ovum in the ovary of a dog. In 1839, Schlieden and Schwann became sure that a human being is formed from basic living units that were given the name 'cells'. Later on, the idea of the creation of a human being from a cell that comes into being as a result of the union of a sperm and an ovum became easily understood.

Facets of Scientific Inimitability:

This Qur'anic text shows that a human embryo does not come all of a sudden without due development, as was commonly believed since Aristotle until the 19th century. The text also stresses the fact that a human embryo goes through various stages of development, something that applies to all people of all races and generations.

The history of embryology shows that embryologists, in the past, were unable to discern the creation of embryos. The Ever-Glorious Qur'an declared this fact as early as the seventh century. It tells us that a human being goes through various stages of development and that stands as a living evidence of the wisdom of Allah and His Power. These stages apply to all people of all races and generation and this proves His Oneness.



■ **Figure 1-7.** Copy of a 17th-century drawing of a sperm by Hartsoeker. The miniature human being within it was thought to enlarge after the sperm entered an ovum. Other embryologists at that time thought that the oocyte contained a miniature human being that enlarged when stimulated by a sperm.

The Pain Feelings

Allah, the Almighty, says: [Surely! Those who disbelieved in Our Ayat (proofs, evidences, verses, lessons, signs, revelations, etc.) We shall burn them in Fire. As often as their skins are roasted through, We shall change them for other skins that they may taste the punishment. Truly, Allah is Ever Most Powerful, All Wise.] (An-Nisa': 56)

**Referring to the dwellers of the Fire, Almighty Allah also says: [... and be given, to drink, boiling water, so that it cuts up their intestines?]
(Muhammad: 15)**

The Scientific Fact:

Before the age of scientific discovery, it was commonly believed that the whole human body could feel pain. It was not until the role of nerve endings in the skin were discovered, that people learned about the existence of certain nerve endings which transmit feelings of pain to the brain. The skin is associated with sensitivity because it contains the majority of nerve endings.

According to Dr. Head's classification of the skin's sensitivity, there are two groups of feelings: 1) Epicritic which senses light things, like a light touch or a slight change in temperature; and 2) Protopathic which feels pain and considerable change in temperature. Each of these categories uses certain nerve cells in addition to other receptors for sensing any environmental change. These receptors can be categorized into four kinds: 1) Exteroceptors which are concerned with the faculty of sense and touch and which contain meissners and merkels corpuscles, 2) Krause End Bulbes which are concerned with coldness, 3) Ruffini Cylinders which are concerned with heat and 4) Nerve Endings that can transmit any feeling of physical pain. The skin is considered the part of the body that is rich with such nerve endings that transmit heat and pain.

Anatomists have proved that people whose skin has been completely burnt cannot feel

pain because their nerve endings are damaged. This is different from a person who has a second-degree burn, for he will experience severe pain as his nerve endings are not damaged, but are rather, uncovered.

Anatomists have also proved that the small intestines do not have any receptors. However, receptors can be found between the peritoneum and the outer layer of the intestines. This area contains a lot of small bodies known as pacini. The size of the peritoneum is 20,400 cubic centimeters, which makes it equal to the size of the outer layer of the skin. Also, the receptors of the intestines are similar to those in the skin.

Facets of Scientific Inimitability:

A) Almighty Allah explains to us in the first verse that the skin is the part of the body that will receive the punishment, i.e. there is a connection between the skin and the sensation of pain. The verse also tells us that when the skin is burnt (i.e. in the Fire), man can no longer feel the pain of the punishment and so his burnt skin is replaced with new fresh skin where the nerve endings are functioning properly and can transmit the feeling of pain. In this way, a disbeliever will suffer due to his denial of Allah's signs. Modern science has shown us that the majority of nerve endings are found in the skin. Prior to the invention of microscopes and the progress made in the field of anatomy, no human being could have any knowledge about this scientific fact related by the Ever-Glorious Qur'an fourteen centuries ago. This is a miracle and a great sign of Allah.

B) The Qur'an threatens the disbelievers in the second verse that their intestines will be severed. The secret behind this threat has been solved only recently when scientists discovered that the intestines are not affected by heat. However, if they are severed, the boiling water will flow out to the place between the peritoneum and the outer layer of the intestines. This place contains a lot of nerve endings that transmit the feeling of pain to the brain and thus man will experience severe pain.

These facts show the miraculous scientific nature of the Ever-Glorious Qur'an which related these facts to mankind a long time before modern science was able to give any information about them.

The Distress Call Within the Body

Allah's Prophet (peace be upon him) said: *“You see the believers as regards their being merciful among themselves and showing love among themselves and being kind to each other, resembling one body, so that, if any part of the body complains, the whole body shares (Tada`a[1]) the sleeplessness (insomnia) and fever along with it.”[2]*

The Scientific Fact:

Intensive and successive modern researches revealed marvelous facts about the interaction between the organs of the human body when threatened with danger such as injury or illness. The researches also discovered strategies and functional responses taken by the organs of the entire body whenever one organ suffers from an injury or an illness, and these responses differ according to the nature of the injury.

Soon after the infection or injury takes place, sensory centers start calling the control and alert centers in the hypothalamus. This in turn calls upon the pituitary gland to secrete hormones that call on the rest of the endocrine glands to secrete their hormones, which urge all the body organs to save the endangered (complaining) organ. Therefore, it is a real complaint, and a true call rather than a metaphorical one. The call, in this case, means that every part of the body utilizes its utmost energy to save that endangered part. The heart,

for example, starts beating faster to help the blood circulate and reach the injured organ. At the same time, the blood vessels in that injured organ contract, while other vessels in the rest of the body expand in order to send the required amounts of energy, oxygen, antibodies, hormones, and amino acids to the injured part to help it resist the infection or injury and to heal quickly.

The body starts to collapse, i.e. by breaking up part of the stored fats and proteins, in order to provide aid for the injured organ. This constant flow of sacrifice continues until the rescue process subsides, when the injury or disease is under control, and the infected tissues and cells are cured.

The call from the injured or infected part resembles a real call for help; the infected place releases neuro pulses to the sensory and alert centers of the brain; moreover, some chemical substances are released with the first drop of blood that is shed or when a tissue is torn. Then, all body organs respond in order to provide help for the infected organ according to the nature of its injury or disease.

Facets of Scientific Inimitability:

What is mentioned in the honorable *hadith* actually happens, as all organs of the body call each other to save the infected organ and the Muslim *Ummah* should be like that: When an area suffers any aggression, the whole *Ummah* should call each other to come to its aid.

You do not find a more accurate word than the word (*Tada`a*) to describe the aching of one organ, so there is linguistic, rhetorical, and scientific inimitability present at the same time. The Prophet (peace be upon him) told us what really happens inside the human body without equipment or tools and using eloquent words and rhetorical sentences.

What is even more amazing is the fact that the name that physicians call on the nervous system that interacts when the body is infected or injured is: the lover, kind, and merciful, which is the same wording of the Prophet (peace be upon him) in the *hadith*.

Glory be to Allah Who sent His Messenger with guidance and the religion of truth to make it superior, and Who supported him with miracles and eloquence.

[1] It is an eloquent Arabic word that also means a mutual call or summoning (between the organs) and the collapse of something.

[2] Reported by Imam al-Bukhari, "Book of *al-Adab* (good manners)."

Geology & Seas Research Abstract

River Mouths

Allah, the Almighty, says: “And it is He Who has let free the two seas (kinds of water), one palatable and sweet, and the other salty and bitter, and He has set a barrier and a complete partition between them.” (Al-Furqan: 53)

The Scientific Fact:

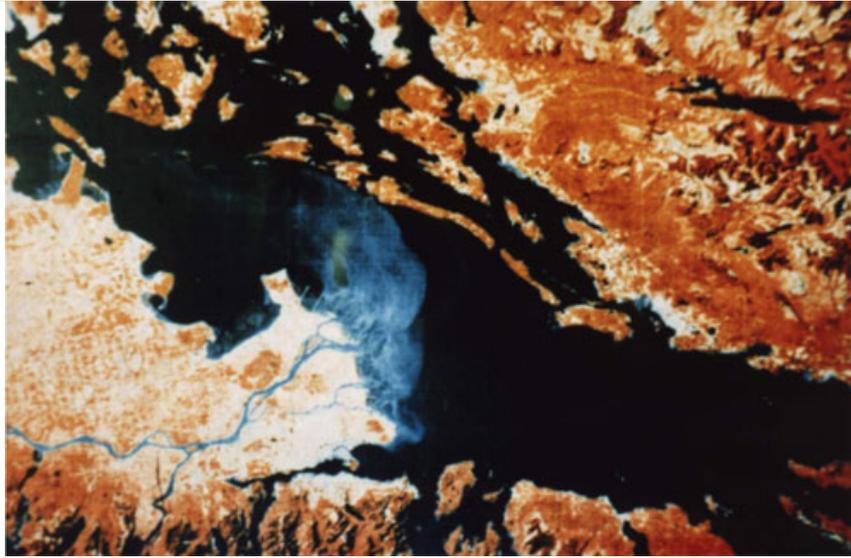
The first book on oceanography during the 18th century contained very simple information. When the British ship Challenger took its voyage all over the world between 1872 and 1876, oceanography started to take its position amongst other modern sciences. This was followed by many scientific voyages that were launched to explore oceans and seas. At the end of the 20th century, man sought more understanding of oceanography through the use of satellites and aerial photography. After closely surveying many points where rivers join seas, researchers discovered that the river mouth is always a very distinguished area having its own characteristics that are different from those of the sea and those of the river itself. This fact highlights the point that the sweet water of the river does not mix with the salty water of the sea. There appears to be some kind of barrier that separates both waters and enables each to maintain its own qualities. Categorizing the three areas (i.e. river, sea, and river mouth) based on the living organisms in each, researchers discovered that certain creatures only live in the river mouth and cannot live outside it. By the same token, creatures of other areas cannot live in this area of the river mouth due to its own special characteristics.

Facets of Scientific Inimitability:

Any gathering of water can be called a ‘sea’ and if the water is sweet, it is given the name ‘river’; and if salty, it is ‘sea’ or ‘ocean’. The water found in the river mouth areas is not included here since it is a mixture of sweet and salty water. Therefore, we can distinguish three kinds of waters; sweet water in rivers, salty water in seas, and a mixture in river mouth areas. Such areas are described as having barriers and complete partitions that halt any flow of water between the water of the river and that of the sea. It is also known as being the culture of certain marine creatures that cannot live outside such areas.

The history of oceanography testifies to the fact that no accurate information about oceans and seas existed fourteen centuries ago. Yet, the Ever-Glorious Qur'an gave a full accurate account of the river mouth areas and showed the characteristics of these distinguished areas. The Ever-Glorious Qur'an explained that, with the non-stop movement of the water in such areas, they formulate a barrier between the sweet water

of the river and the salty water of the sea. This Qur'anic description was given a long time ago before the invention of the modern technology.



Water Masses Mixed But Distinguishable

Allah, the Almighty, says: [He has let loose the two seas meeting together. Between them is a barrier which none of them can transgress. Then which of the Blessings of your Lord will you both (jinn and men) deny? Out of them both come out pearl and coral.] (Ar-Rahman: 19-22)

The Scientific Fact:

It was not until 1873 that seas were known to have waters of different natures and that they did not belong to just one huge sea. This was discovered after Challenger's voyage which lasted for three years. Only in 1942, the results of long researches appeared for the first time supporting this fact. Hundreds of marine research stations discovered that the Atlantic Ocean, for instance, contains waters of different characteristics including differences in temperature, density, saltness, marine life, and ability to absorb oxygen. Such differences could be found in one place. What if we make a comparison between two different seas like the Red Sea and the Mediterranean, the Atlantic Ocean and the Mediterranean, and the Red sea and the Gulf of Aden? In 1942, it was discovered that in certain seas, waters pile up yet each retains its different composition and characteristics. Sea water moves swiftly and violently in a way that makes water masses mix and intermingle. However, each mass maintains its own characteristics and qualities. Ebb and flow, water currents, waves and hurricanes all contribute to the stirring of sea water. Yet, each mass never loses its own qualities even after having mixed with other masses as if there is a barrier between them.

Facets of Scientific Inimitability:

The above verses tell us about two neighboring seas where the water of each is salty, and mixes with the water of the other sea, yet, it maintains its own qualities. The Ever-Glorious Qur'an tells us that pearl and coral can be found in both seas; meaning that water is salty in both, since coral and pearl are found in salty water only. This indicates that the verse is talking about oceans and seas that appear as if they are the same water

mass; yet, they contain water masses of different qualities.

Oceans and huge salty seas appear to us as having the same qualities and as being one mass. However, the fact is that such seas and oceans have different masses of water that are totally different from each other. Only modern technology could tell us the extent of their differences. The Ever-Glorious Qur'an, without exception, told us this fact a long time ago stressing that though next to each other, the waters of two seas will never transgress against the other (i.e. would not mix and dissolve in each other); rather, they will always maintain their qualities as if there is a barrier between them. Is this not sufficient evidence that the Ever-Glorious Qur'an is the word of Allah?

Properties of Deep Seas

Allah, the Almighty, said: [Or (the unbelievers' state) is like the darkness of a fathomless sea which is covered by waves above which are waves above which are clouds, layers of darkness, one upon the other. If he puts out his hand, he can scarcely see it. Those God gives no light to, they have no light.] (An-Nur:40)

The Scientific Fact:

The Encyclopedia Britannica states that oceans and deep seas are mostly covered by thick cumulus clouds, which hinder a large amount of sun light, as shown in satellite pictures. These clouds reflect most sunrays and prevent some of its light; water reflects some of the light that comes to earth and absorbs the rest that gradually decreases with depth. Thus, levels of darkness in the water in a depth of 200 meters are created and darkness reaches its peak below a depth of 1000 meters; no light can be seen at all. The Secchi disk was the first piece of equipment for measuring light in deep oceans.

Scientists discovered kinds of fish in (600-2700 meters) deep water that use luminous organs to enable them to see in the dark so as to catch their prey.

Modern marine sciences, at the end of the 19th century, discovered, after using developed pictorial equipment, internal rough waves in deep seas. These waves are located in the surface separating every two layers of water and are different in density, pressure, heat, and ebb and flow.

Scientists have recently discovered that there are internal waves that occur on density interfaces between layers of different densities. These internal waves cover the deep waters of seas and oceans because deep water has a higher density than the water above it. Internal waves act like surface waves. They can break, just like surface waves. Internal waves cannot be seen with the naked eye.

The exhausted energy used in the process of generating these waves equals the energy of sailing a ship; therefore, many ships in this area suddenly lose control because of stagnant water that was first discovered by the Swedish professor V. W. Ekman in the beginning of the 20th century.

Facets of Scientific Inimitability:

Previously, mankind believed in superstition concerning deep seas and oceans and there was not enough scientific information about the reality of the depth of water and water currents. Although they knew that wind currents affect surface waves, they had no

knowledge about internal waves.

This honorable verse referred to the darkness inside deep seas by using the expression (fathomless sea) and mentioned that the darkness in these seas consists of layers. The interpreter of the Ever-Glorious Qur'an stated that the layers of darkness mentioned in this verse are the darkness of clouds, the waves, and the sea; one can see nothing in these layers.

Dense clouds that cover the seas reflect some of the sun's light and the surface of the sea reflects some others and then the water absorbs almost all the seven colors of the light spectrum, one after another. Afterwards, internal waves turn the bottom into complete darkness, where there is no light at all; to the extent that one cannot see one's own hand.

In addition, the statement in the verse "*...like the darkness of a fathomless sea which is covered by waves above which are waves above which are clouds...*" draws our attention to another miracle of how the Ever-Glorious Qur'an accurately describes the sea.

Fish in these depths have no eyes; they have luminous organs in their bodies to enable them to see in the darkness, as He (Exalted and Glorified be He) says, "*Those God gives no light to, they have no light.*"

The honorable verse also indicates the internal waves in the area between two layers of water of different density. This scientific fact that was declared in the verse fourteen centuries ago has recently been discovered by scientists.

Then who told Prophet Muhammad (peace be upon him) this but the All-Aware, the Most High?

Mountains Are Pegs in Form and Function

Allah, the Almighty, says: **[And mountains are as pegs.]** (An-Naba': 7)

The Scientific Fact:

In former times, mountains were known as simply rocky blocks protruding from the earth. This definition was considered valid until 1835, when Pierre Bouguer pointed out that the gravitational forces registered in the Andes Mountains are considerably less than what would be expected for such a massive rocky block. Supposedly, for him, a massive block of the same kind must be immersed deep in the earth. It was on this basis that the abnormality of gravity was to be interpreted.

In the middle of the 19th century, George Everest paid great attention to the abnormality of the results of measuring the gravity of the Himalaya Mountains in two different places. Everest, nevertheless, failed to interpret this phenomenon and so he called it *The Mystery of India*. However, George Airy stated in 1865 that all mountain chains on earth are floating blocks on a sea of magma (i.e. molten rock material beneath the earth's crust) and that all such molten material is denser than the mountains themselves. As a result, the mountains must dive into this high density material to maintain their uprightness.

Geologists discovered the fact that the earth's crust is made of adjacent patches called

continental plates and that mighty mountains float on a sea of molten material and higher-density rocks below the surface. They also discovered that mountains have roots that help them float and keep fastened to the plates of the earth so it will not shake. In 1948, the Geologist Van Anglin stated in his book *Geomorphology* (on page no. 27) that it is quite well understood currently that there is a root for each mountain below the crust of the earth.

The function of mountains on the earth is to fasten the crust of the earth. This fact was proven by the principle of hydrostatic balance of the earth as illustrated by the US Geologist Dutton, in 1889. He stated that the protrusions of the earth are immersed into the earth in a way that conforms to their height. Moreover, after the existence of the plates of the earth was proven in 1969, it became clear that the mountains are responsible for maintaining the equilibrium of all the plates.

Facets of Scientific Inimitability:

Man did not know such facts about mountains which have only recently become available in the middle of the 19th century. Meanwhile, the Noble Qur'an in this verse asserts authoritatively that mountains are like pegs in terms of their figure and function. Recently, the accurate simile of this verse proved to be true. The peg has two parts: one on the surface and the other underground and its function is to fasten what is tied thereto. Similarly, a mountain has two parts: one protrudes on the crust of the earth and the other is immersed beneath the ground, in a way that is in conformity with its height. Its function is to fasten the plates of the earth's crust and prevent them from shaking because of the molten layer beneath. Thus, it becomes evident that the Qur'an is the Word of Allah Who is the Creator of the mountains and all the universe.

Allah, the Almighty, says, {*Should not He Who has created know? And He is the Most Kind and Courteous (to His slaves), All-Aware (of everything).*} (Al-Mulk: 14)

The Lowest Area on Earth

Allah, the Almighty, says: [AlifLamMim. The Romans have been defeated in the lowest land, and they, after their defeat, will be victorious within three to nine years. The decision of the matter, before and after (these events) is only with Allah, (before the defeat of the Romans by the Persians, and after, i.e. the defeat of the Persians by the Romans). And on that Day, the believers (i.e. Muslims) will rejoice (at the victory given by Allah to the Romans against the Persians). With the help of Allah, He helps whom He wills, and He is the Almighty, the Most Merciful.(It is) a Promise of Allah (i.e. Allah will give victory to the Romans against the Persians), and Allah fails not in His Promise, but most of men know not.] (Ar-Rum: 1-6)

The Scientific Fact:

History books tell us about a battle between the Persian and the Byzantine empires – the latter signifies the eastern part of the Roman Empire - which was located in the area

between Adhra`at and Basra, near the Dead Sea. The battle, which occurred in 619 A.C., ended with the victory of the Persians.

The Romans received a severe blow in that battle and everyone at that time expected their kingdom to fall. Surprisingly, they were engaged in another battle in 627 A.C. in the area of Nineveh where they defeated the Persians and occupied many areas. Some months later, the Byzantines signed an agreement with the Persians according to which they returned all previously occupied areas.

Geographical atlases show that the lowest spot on the surface of the earth is the area near the Dead Sea where the surface of the earth is as low as 395 meters below sea level. Photos taken by satellites support this fact.

Facets of Scientific Inimitability:

There are two miracles in these verses; 1) the Ever-Glorious Qur'an gave glad tidings of victory to the Romans in a course of three to nine years. After seven years, the prophecy of the Ever-Glorious Qur'an came true. This Roman victory coincided with the victory of the Muslims in the Battle of Badr. To the Arab disbelievers, the victory of the Romans seemed impossible and they started mocking the Muslims and ridiculing them about these Qura'nic words. When the prophecy came true, they were disappointed and humbled.

2) They told us about a geographical fact that was not known to anyone at that time. The verses said that the Romans would lose the battle in the lowest area of land which means that it is the nearest place to the Arabian Peninsula and is the lowest spot on earth; it is 1,312 feet (around 400 meters) below sea level. According to the Encyclopedia Britannica, satellites have recorded that it is indeed the lowest spot on earth. Historical facts testify that the battle took place at the lowest spot on earth; near to the Dead Sea. At that time, it was impossible for anyone to know this was the lowest area on earth. Does this not provide even more evidence that the Ever-Glorious Qur'an is the word of Allah? Almighty Allah says: *[And say [(O Muhammad) to these polytheists and pagans etc.]: All the praises and thanks be to Allah. He will show you His Ayat (signs, in yourselves, and in the universe or punishments, etc.), and you shall recognize them. And your Lord is not unaware of what you do.]* (An-Naml: 93)

Islamic Sahria Research Abstract

The Prohibition of Pork: A Scientific Proof

[Say (O Muhammad), "I find not in that which has been inspired to me anything forbidden to be eaten by one who wishes to eat it, unless it be Maytah (a dead animal) or blood poured forth (by slaughtering or the like), or the flesh of swine (pork, etc.) for that surely is filth, or impious (unlawful) meat (of an animal) which is slaughtered as a sacrifice for others than Allah (or has been slaughtered for idols, etc., or on which Allah's Name has not been mentioned while slaughtering). But whosoever is forced by necessity without willful disobedience, nor transgressing due limits, (for him) certainly, your Lord is OftForgiving, Most Merciful.] (Al-An`am: 145)

The Scientific Fact:

It was through modern science that people came to know the wisdom behind Islam prohibiting certain stuffs. This prohibition was made before the discovery of the microscope. The prohibited stuffs are; dead animals where bacteria find an environment to grow, blood that contains even more bacteria, and finally swine whose bodies are magnets of some morbid strains that cannot be removed by any means of purification. The body of the swine is a place where many parasites, bacteria, and viruses grow and can be transfused to human beings and animals. Some of these parasites are limited to pigs such as dysentery balantidium, spirals trichinella, solium taenia, and cysticercosis. Some of these maladies are common for men and animals like influenza, buski fasciolopsis, and ascaris. Balantidiasis is known to be widespread among the swine herders and those people who mix with them. This malady may become epidemic under certain circumstances. This happened in one of the islands of the Pacific after a hurricane which spread the dung of swine all over the island. Wherever swine exists, such plagues and maladies erupt even in highly advanced countries. This is counter to their claims of the possibility of purging it through modern techniques which make the prohibition of pork invalid. In certain countries, the consumption of pork has become widespread and normalized as in Germany, France, Venezuela, and the Philippines. The consumption of the infected muscles of the swine causes trichinellosis as the female of this worm lays its eggs in the walls of the swine's bowels. The eggs that may reach 10 thousands would be carried through the blood to the muscles where they stay and grow up. As for dysentery balantidium it infects man when he eats the infected muscles of the pig. This worm can grow up to be seven meters long inside the bowels of the person. With its head, it can cause damage in the bowels of man and cause severe shortage of blood plasma. It grows and multiplies rapidly. When man eats any food that contains the eggs of cysticercosis, he gets infected because the eggs flow with the blood and stay in any organ. The taenia saginata that grows in cows would never cause as much damage as this one.

Facets of Scientific Inimitability:

It is known that a swine is a filthy animal both in its behavior and in how it chooses its food. Bearing this in mind, idolaters considered it to be the killer of the symbols of goodness. Myths from ancient Egypt tell us that it was a swine that killed Horus. The Cananites even tell us that it was a swine that killed their god, Adone. The Greeks believe that a swine killed their god Adonis and Atis. In ancient Egypt, herding swine was viewed as being one of the most degrading jobs. People who had such a job were not allowed into the temple and were not allowed to marry any woman except one from their own class. Anyone who touched a pig was required to have a bath. It is prohibited for the People of the Book to eat it, yet, they violate this prohibition. Speaking about its prohibition, the Qur'an declares that it is filth. The word 'filth' covers all types of filth and also explains that consuming it is harmful too.

This prohibition is mentioned in three places in the Qur'an; Almighty Allah says: *[He has forbidden you only the Maytah (dead animals), and blood, and the flesh of swine, and*

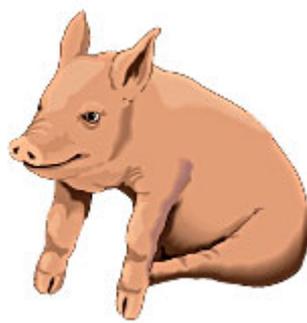
that which is slaughtered as a sacrifice for others than Allah (or has been slaughtered for idols, etc., on which Allah's Name has not been mentioned while slaughtering). But if one is forced by necessity without willful disobedience nor transgressing due limits, then there is no sin on him. Truly, Allah is Oft-Forgiving, Most Merciful.](Al-Baqarah: 173) And, [He has forbidden you only Al-Maytatah (meat of a dead animal), blood, the flesh of swine, and any animal which is slaughtered as a sacrifice for others than Allah (or has been slaughtered for idols etc. or on which Allah's Name has not been mentioned while slaughtering). But if one is forced by necessity, without willful disobedience, and not transgressing, then, Allah is Oft-Forgiving, Most Merciful.] (An-Nahl: 115) And, [Forbidden to you (for food) are: Al-Maytatah (the dead animals - cattle-beast not slaughtered), blood, the flesh of swine, and the meat of that which has been slaughtered as a sacrifice for others than Allah, or has been slaughtered for idols, etc., or on which Allah's Name has not been mentioned while slaughtering, and that which has been killed by strangling, or by a violent blow, or by a headlong fall, or by the goring of horns - and that which has been (partly) eaten by a wild animal - unless you are able to slaughter it (before its death) and that which is sacrificed (slaughtered) on AnNusub (stone altars). (Forbidden) also is to use arrows seeking luck or decision, (all) that is Fisqun (disobedience of Allah and sin).] (Al-Ma'idah: 3)

The prohibition covers all its edible parts, including its fat. The prohibition of fat for Jews only shows that it is counted as meat, since Almighty Allah says: *[And unto those who are Jews, We forbade every (animal) with undivided hoof, and We forbade them the fat of the ox and the sheep except what adheres to their backs or their entrails, or is mixed up with a bone. Thus, We recompensed them for their rebellion [committing crimes like murdering the Prophets, eating of Riba (usury), etc.]. And verily, We are Truthful.] (Al-An'am: 146)*

Prohibiting the meat also makes the fat prohibited even if used as fodder for an animal that will be later consumed by a person. At the time of the revelation of the Qur'an, no one ever imagined that such harm existed.

Who could tell such a thing except Allah; the All-Knowing the All-Wise. Almighty Allah says: *[But your people (O Muhammad) have denied it (the Qur'an) though it is the truth. Say: "I am not responsible for your affairs. For every news there is a fact, i.e. for everything there is an appointed term (and it is also said that for every deed there is a recompense) and you will come to know.] (Al-An'am: 66-67)*





Research Abstract in Other fields

Leave Corn in Its Ears

Allah, the Almighty, says: (He said): O Yusuf (Joseph), the man of truth! Explain to us (the dream) of seven fat cows whom seven lean ones were devouring, and of seven green ears of corn, and (seven) others dry, that I may return to the people, and that they may know. Yusuf said: For seven consecutive years, you shall sow as usual and that (the harvest) which you reap you shall leave in ears, (all) - except a little of it which you may eat. Then will come after that, seven hard (years), which will devour what you have laid by in advance for them, (all) except a little of that which you have guarded (stored). Then thereafter will come a year in which people will have abundant rain and in which they will press (wine and oil).” (Yusuf: 45-49)

The Scientific Fact:

Storing corn in its ears is considered one of the basic methods of preserving such seeds during hard environmental conditions. This combination of growing crops and preserving and storing them is called preserving products.

Dr. `Abd al-Majid Bil`abid and his colleagues from Rabat University in Morocco conducted research on some wheat seeds that were left in their ears for two years and some other seeds that were left outside their ears. Primary results showed that the ears experienced no change and stayed 100% viable despite the fact that the storehouse was normal and no special conditions were provided. Scientists also found that seeds left in their ears lost a considerable amount of water and became drier than those left outside their ears. This means that 20.3 % of the weight of the seeds left outside their ears is water which will affect the seeds ability to grow once cultivated, simply because water makes it more vulnerable to decay.

Thereafter, researches compared the rates of growth between seeds left in their ears and others left outside their ears for 2 years. They found that seeds left in their sheaths have a better growth rate - of 20 % root length and 32 % trunk length. Afterwards, researchers tried to estimate the proteins and sugar that remained unchanged. They found that such

substances had fallen by 32 % after 2 years of storage in the seeds left outside their ears while after one year of storage such seeds lost 20 % of these substances. The seeds stored in their ears lost nothing.

Facets of Scientific Inimitability:



Almighty Allah says: “...*which you reap you shall leave in ears*” which means that storing seeds in their ears is the best way to preserve them.

There are two other scientific observations in this verse:

1- Defining the period over which seeds are expected to be viable: 15 years.

People were commanded to grow wheat for 7 years and then 7 hard years would follow and then one year (totaling 15 in all) will come when people will be able to produce wine and oil. Scientific researches have proven that wheat seeds can keep their ability to grow for a maximum of 15 years.

2- The method of storage by leaving seeds in their ears has also been tested in the research. This shows that the best way to store seeds is the way practiced by Prophet Yusuf who was taught by Allah. It is historically proven that this way was unknown before, especially to ancient Egyptians who used to store wheat seeds outside their ears. Obviously, this is a scientific miracle that shows the greatness and accuracy of the Ever-Glorious Qur'an and that it is a revelation from Allah (Exalted and Glorified be He).

**Lâ ilâha illallâh
wa anna Muhammad-ur-Rasûl Allâh
none has the right to be worshipped but Allâh
and that Muhammad (peace be upon him) is the
Messenger of Allâh**

www.nooran.org

Amat.Allah.Nelly@gmail.com