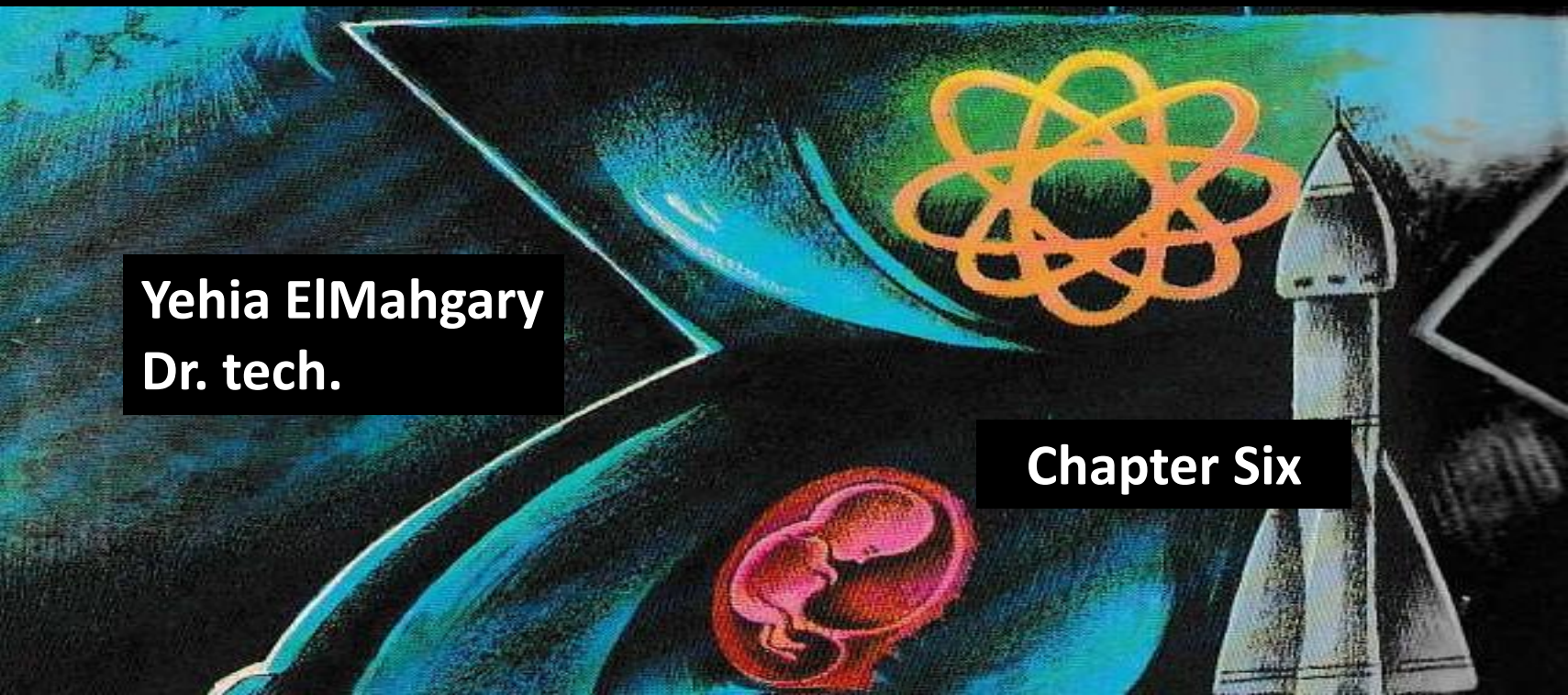


VERSES OF QUR'AN IN THE NICHE OF SCIENCE

Yehia ElMahgary
Dr. tech.

Chapter Six

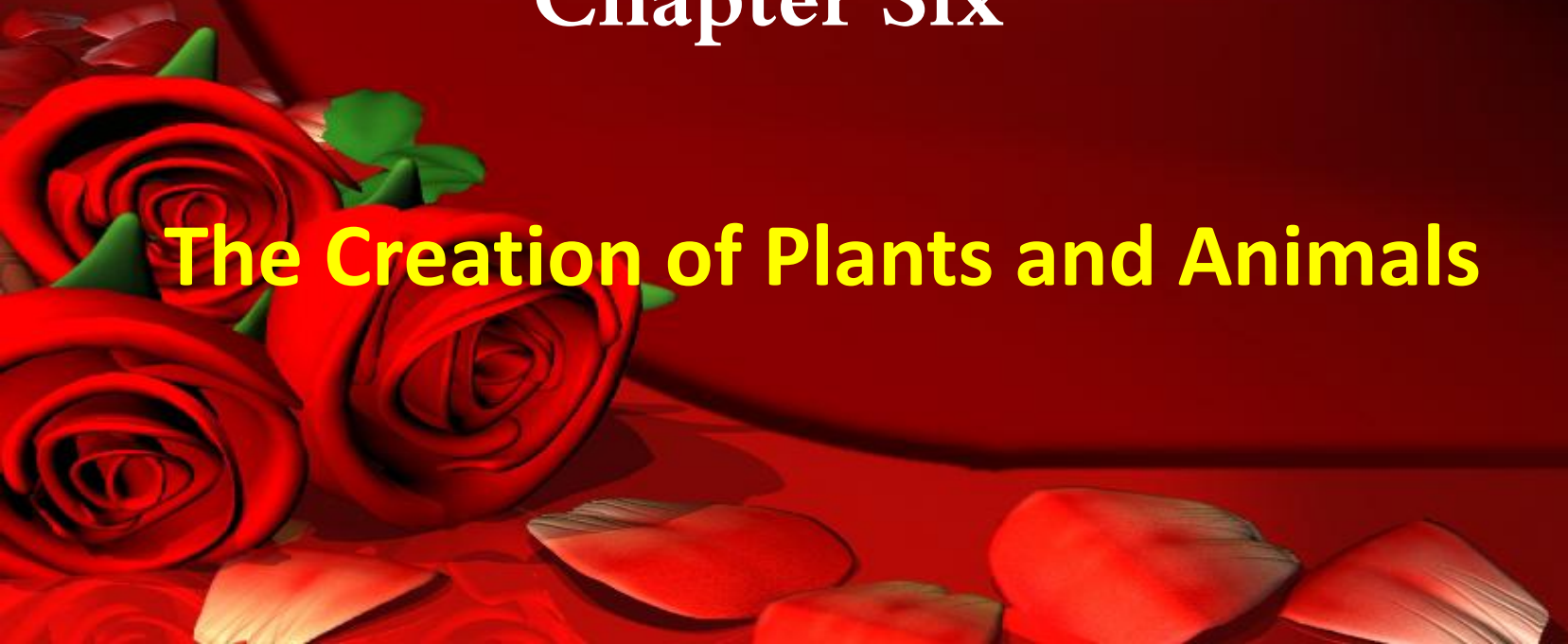


بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

IN THE NAME OF ALLAH THE MOST GRACIOUS THE MOST MERCIFUL

Chapter Six

The Creation of Plants and Animals



The Verses of Qur'an

❖ **إِنَّ اللَّهَ فَالِقُ الْحَبِّ وَالنَّوَى يُخْرِجُ الْحَىَّ مِنَ الْمَيِّتِ وَمُخْرِجُ الْمَيِّتِ مِنَ الْحَىِّ ذَلِكُمْ اللَّهُ فَأَنَّى تُؤْفَكُونَ (الأنعام 95) إِنَّمَا أَمْرُهُ إِذَا أَرَادَ شَيْئًا أَنْ يَقُولَ لَهُ كُنْ فَيَكُونُ (يس 82)**

❖ **Verily it is Allah Who causes the seed-grain and the fruit-stones to split and sprout . He brings forth the living from the dead, and it is He Who brings forth the dead from the living. Such is Allah, then how are you deluded away from the truth? (6/95). Verily, His command, when He intends a thing, is only that He says to it, “Be” and it is!**

(36/82)

❖ **وَمِنَ النَّخْلِ مِنْ طَلْعِهَا قِنْوَانٌ دَانِيَةٌ وَجَنَّاتٍ مِّنْ أَعْنَابٍ وَالزَّيْتُونَ وَالرُّمَّانَ مُشْتَبِهًا وَغَيْرَ مُتَشَابِهٍ ۗ انظُرُوا إِلَى ثَمَرِهِ إِذَا أَثْمَرَ وَيَنْعِهِ ۗ إِنَّ فِي ذَلِكُمْ لَآيَاتٍ لِّقَوْمٍ يُؤْمِنُونَ (الأنعام 99)**

❖ **And out of the date-palm come forth clusters of dates hanging low and gardens of grapes, olives and pomegranates, they may look similar yet different in taste. Look at their fruits when they begin to bear, and the ripeness their off. Verily, in these things there are signs for people who believe (6/99)**

❖ **وَاللَّهُ خَلَقَ كُلَّ دَابَّةٍ مِّنْ مَّاءٍ ۖ فَمِنْهُمْ مَّن يَمْشِي عَلَىٰ بَطْنِهِ وَمِنْهُمْ مَّن يَمْشِي عَلَىٰ رِجْلَيْنِ وَمِنْهُمْ مَّن يَمْشِي عَلَىٰ أَرْبَعٍ ۗ يَخْلُقُ اللَّهُ مَا يَشَاءُ ۗ إِنَّ اللَّهَ عَلَىٰ كُلِّ شَيْءٍ قَدِيرٌ (النور 45)**

❖ **Allah has created every moving (living) creature from water. Of them there are some who creep on their bellies, and some that walk on two legs and some that walk on four. Allah creates what He wills. Verily Allah is Able to do all things (24/45)**

The Verses of Qur'an (cont.)

❖ وَجَعَلْنَا مِنَ الْمَاءِ كُلَّ شَيْءٍ حَيٍّ أَفَلَا يُؤْمِنُونَ (الأنبياء 30)

❖ And we have made from water every living thing. Will they not then believe? (21/30)

❖ وَمَا مِنْ دَابَّةٍ فِي الْأَرْضِ وَلَا طَائِرٍ يَطِيرُ بِجَنَاحَيْهِ إِلَّا أُمَّمٌ أَمْثَالُكُمْ ۗ مَا فَرَطْنَا فِي الْكِتَابِ مِنْ شَيْءٍ ۗ ثُمَّ إِلَىٰ رَبِّهِمْ يُحْشَرُونَ

(الأنعام 38) There is not a moving creature on earth, nor a bird that flies with its two wings, but are communities like you. We have neglected nothing in the Book, then unto their Lord they shall be gathered (6/38)

❖ يَا أَيُّهَا النَّاسُ ضُرِبَ مَثَلٌ فَاسْتَمِعُوا لَهُ ۗ إِنَّ الَّذِينَ تَدْعُونَ مِنْ دُونِ اللَّهِ لَنْ يَخْلُقُوا ذُبَابًا وَلَوْ اجْتَمَعُوا لَهُ ۗ وَإِنْ يَسْلُبْهُمُ الذُّبَابُ شَيْئًا لَا يَسْتَنْقِذُوهُ مِنْهُ ضَعُفَ الطَّالِبُ وَالْمَطْلُوبُ ، مَا قَدَرُوا اللَّهَ حَقَّ قَدْرِهِ ۗ إِنَّ اللَّهَ لَقَوِيٌّ عَزِيزٌ (الحج 73 - 74)

❖ O Mankind! A similitude has been coined, so listen to it (carefully), Verily those on whom you call besides Allah, cannot create a fly, even though they combine together for the purpose. And if the fly snatches away a thing from them, they will have no power to release (get it back) it from the fly. So weak are both the seeker and the sought. They have not estimate Allah His Rightful Estimate. Verily, Allah is all strong all mighty (22/73 – 74)

❖ وَوَحَىٰ رَبُّكَ إِلَى النَّحْلِ أَنْ اتَّخِذِي مِنَ الْجِبَالِ بُيُوتًا وَمِنَ الشَّجَرِ وَمِمَّا يَعْرِشُونَ ثُمَّ كُلِي مِنْ كُلِّ الثَّمَرَاتِ فَاسْلُكِي سُبُلَ رَبِّكِ ذُلُلًا ۗ يَخْرُجُ مِنْ بَطُونِهَا شَرَابٌ مُخْتَلِفٌ أَلْوَانُهُ فِيهِ شِفَاءٌ لِلنَّاسِ (النحل 68 - 69)

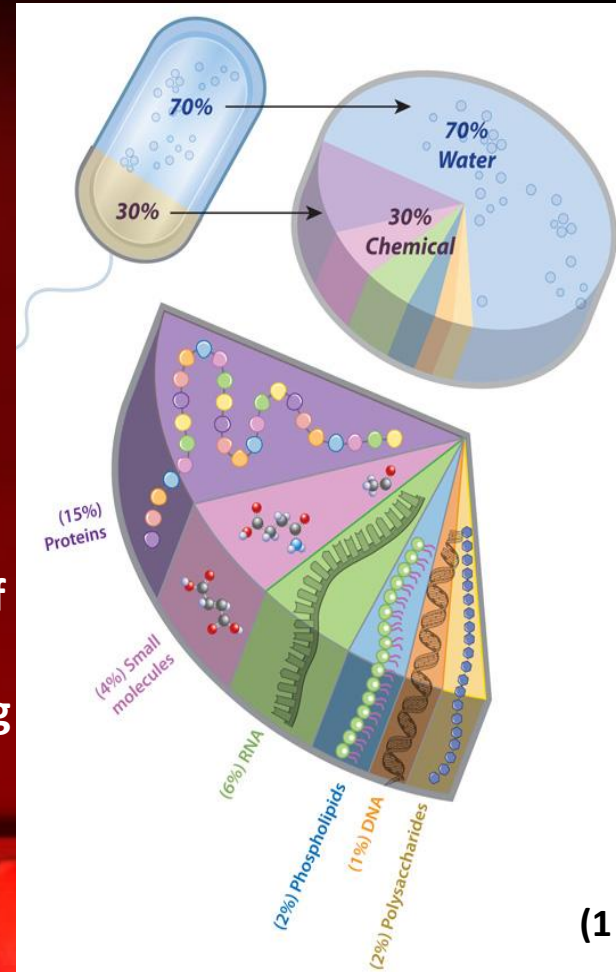
❖ And you Lord inspired the bees; “Take your habitation in the mountains and in the trees and in what they erect, then eat of all fruits and follow the way of your Lord made easy”. There comes from their bellies a drink of varying colors. Where is healing for people. Verily in this is indeed a sign for people who think (16/68 – 69)

Discussion of the Evolution

The discussion of the theory of Evolution will be in the form of questions and answers

1. Can the components of a living organism be formed by accident, or can life appear spontaneously?

Proteins are among the most complicated chemical components of the body as each performs specific tasks. We use about 200,000 types of protein in our cells. These widely different proteins are made up of the same basic ingredients known as amino acids, arranged in chains in precise sequences. The chance of forming a protein by chance was estimated to be 1 in 10^{113} . On the other hand The chances of life appearing spontaneously on Earth according to Fred Hoyle³⁾ is one in 10^{40000} . According to the theory of probability, if the probability of an event is less than 1 in 10^{50} then the event is not possible to happen.



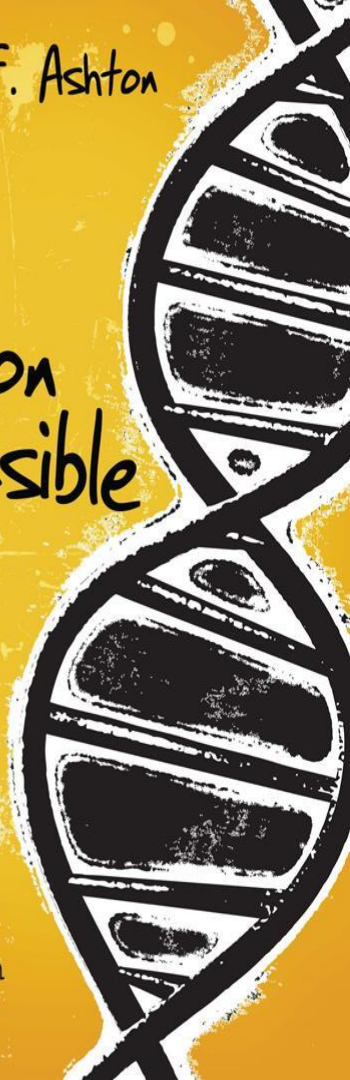
2. Is it possible to convert Chemical Compounds (primordial soup) into something alive?

- ❖ All existing theories of chemical evolution face major problems. Basic deficiencies in chemical evolution include a lack of explanation for how a primordial soup could arise on the early earth's hostile environment, or how the information required for life could be generated by blind chemical reactions.
- ❖ Greg Easterbrook commented recently: "If anything, this mystery has deepened over time". *Wired Magazine*²⁾,
- ❖ On the other hand John Ashton in his book "Evolution Impossible" has used discoveries in genetics, biochemistry, geology, radiometric dating, and other scientific disciplines to explain why the theory of evolution is a myth.
- ❖ Fred Hoyle³⁾ recognized this and asked his colleagues to put all the raw ingredients in a swimming pool, and see if they get one single molecule. No one did it, because they knew it won't work.

Dr. John F. Ashton

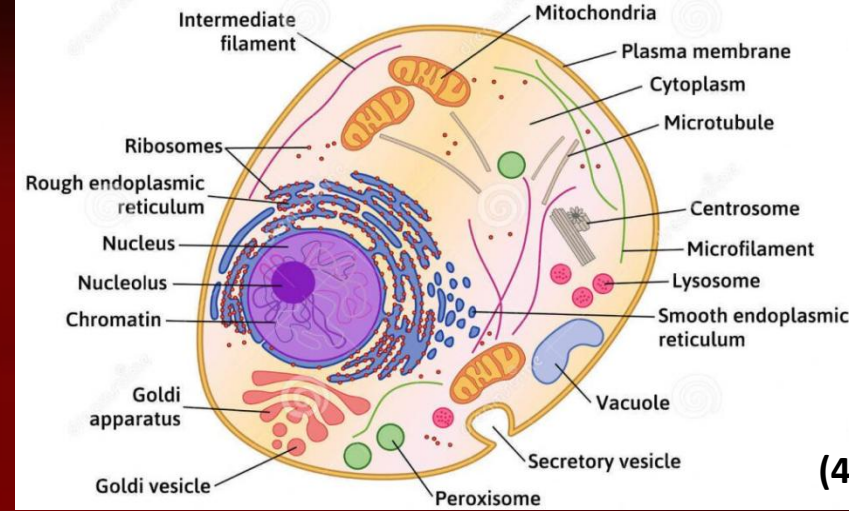
Evolution
Impossible

12
Reasons Why
Evolution Cannot
Explain the Origin
of Life on Earth



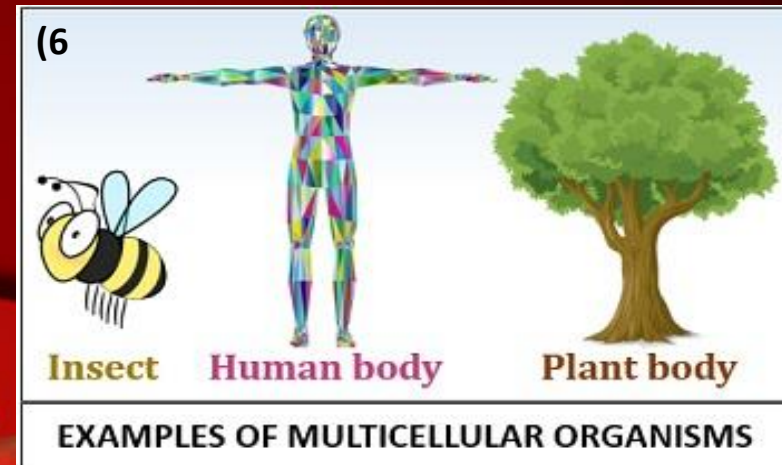
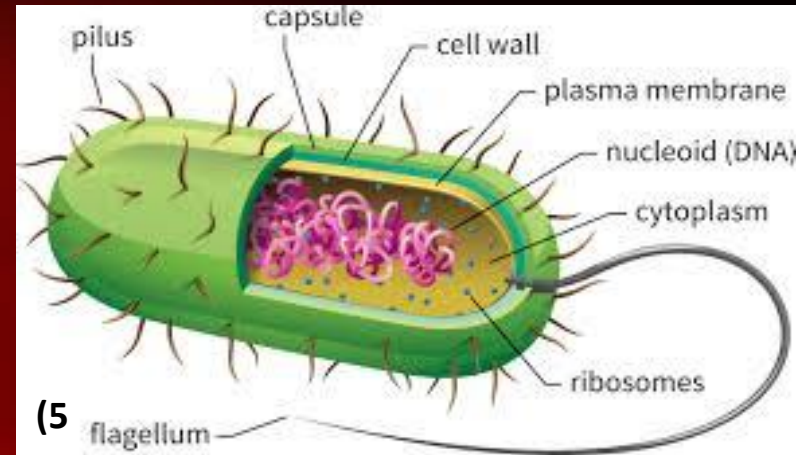
3. Can our cells be formed by chance?

- ❖ Our cells contain incredible complexity, like miniature factories using machine technology but dwarfing the complexity and efficiency of anything produced by humans. Cells use miniature circuits, motors, feedback loops, encoded language, and even error-checking machinery to decode and repair our DNA.
- ❖ At any given time, each cell is doing thousands of routine jobs, like creating and using energy, manufacturing proteins and responding to environmental cues. Different cell types also have special duties, like building skin or bone, pumping out hormones or making antibodies, etc.
- ❖ Encasing the cell is a membrane that protects the cell's internal environment. It has special gates, channels and pumps that let in or force out selected molecules. This is in addition to a pair of porous membranes that envelop the nucleus.
- ❖ The probability that human cell could be formed by chance was estimated to be less than 1 in 10^{40000} i.e., 10 in front of which is 40,000 zeros.



4. What are the main messages conveyed by the fossils?

- ❖ No evidence was found in the fossils of evolution of single cell organisms into multicellular organisms
- ❖ Many species remain virtually unchanged for millions of years, then suddenly disappear to be replaced by a quite different form.
- ❖ If evolution had taken place there should have been a great many transitional structures preserved in fossilized form recording the stages of development from one type of organism to another type. But no transitional fossils were found.
- ❖ Most major groups of animals appear abruptly in the fossil record, fully formed with no fossils that form a transition from their parent group.
- ❖ All these patterns are contrary to what would be expected from Darwinian evolution, as they give evidence for Extinction and not Evolution.



5. Could these be the missing transitional stages between the different species ?

❖ Darwin said that we should find millions of transitional fossils to support the theory of evolution, but as mentioned earlier, no one anywhere anytime came across any transitional fossil.

❖ A bunch of students from the art school gave an imaginary synopsis of how these animals lived.

❖ **Peacockodile** was a formidable predator but it didn't develop its beautiful tail. This diminished the ability to attract a mate of the opposite sex, as well as balance.

❖ **Hippohogomus** was drawn while flopping about the muddy river bank submerging its heavy head in water.

❖ Amazingly the **Birdaffe** could fly and reach the top of bushes, but many of them died as a result of walking on soft muddy terrain, as their top-heavy weight pushed their small feet into mud.

That was the sad end to all the transitional stages !!!



9. Can mutation cross the gaps between the species?

❖ De Vries⁸) found in his experimental garden on growing evening primrose (shown in the picture) that they produced many new varieties. He introduced the term mutations for these suddenly appearing variations (1903).

❖ Lynn Margulis a leading geneticist and a member of the National Academy of Sciences, said over hundred years later: 'new mutations don't create new species; they create offspring that are impaired'.

Similarly, past president of the French Academy of Sciences, Pierre-Paul Grasse, contended that 'mutations have a very limited 'constructive capacity'' because 'no matter how numerous they may be, mutations do not produce any kind of evolution.'

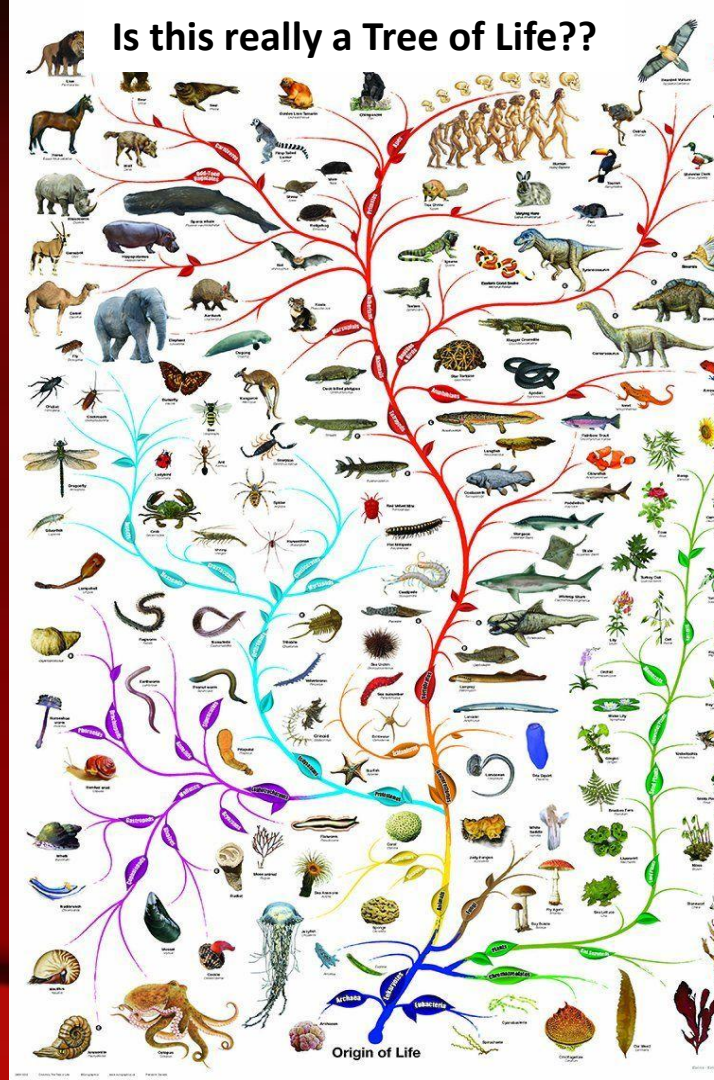
❖ Also bio-chemist Michael Behe and physicist David Snoke published research in the journal *Protein Science* showing that even simple biochemical features like protein-protein interactions cannot be built by random mutation."

Hence, what De Vries called mutation wasn't actually mutation, but rather adaptation to new environmental conditions and variation of colors, similar to the variety in human color and race.



6. The Tree of Life; is it a Reality or a Fancy?

- ❖ Biologists hoped that DNA evidence would reveal a grand tree of life where all organisms are clearly related. It hasn't.
- ❖ As the journal *New Scientist* put it, 'different genes told contradictory evolutionary stories' leaving the tree of life project 'in tatters, torn to pieces by an onslaught of negative evidence.'
- ❖ Eric Bapteste⁸⁾, an evolutionary biologist at Pierre & Marie Curie University said "We have no evidence at all that the tree of life is a reality,"
- ❖ Also Michael Rose¹⁰⁾, an evolutionary biologist at the University of California, Irvine said "The tree of life is being politely buried," and added: "What's less accepted is that our whole fundamental view of biology needs to change."
- ❖ Hence let us just burry the whole tree deep in



6. Could Reptiles ever evolve into Birds?

- ❖ Birds are endothermic (warm-blooded), reptiles are mostly ectothermic (cold-blooded);
- ❖ Birds have muscle-controlled feathers; reptiles have dry skins or scales;
- ❖ Birds have four-chambered hearts; reptiles have usually three-chambered hearts;
- ❖ Birds have major muscles anchored to their front, reptiles' main muscles anchor to their vertebral column (backbone);
- ❖ Birds have hollow bones; reptiles, except for marrow cavities, have solid bones;
- ❖ Last but not least, we shouldn't forget the bitter enmity between birds and reptiles, and that each one is feeding on the other.

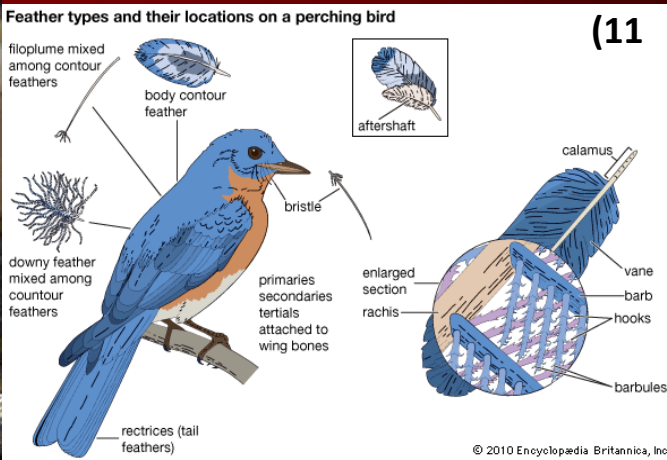
How evolutionists thought that life could continue between predecessors who were having lunch on their successors and children who had dinner on their parents?



(13)



(12)



(11)

8 . Did remarkable evolution take place on the scale of the same specie?

❖ The pictures show a 430 million years old fossils of what thought to be aquatic scorpion and that of today's scorpion. Another one of a dragonfly 140 million years old and that of today's dragonfly. The third are pictures of the Australian wolf (Thylacine) who lived 140 million and today's wolf.

❖ No signs of evolution were noticed. If there were some differences they were attributed to adaptation to new/changing environmental conditions. In addition, the supposed evolutionary process breaks the most universal and best-proved law of physics; the second law of thermodynamics. It stipulates that all systems tend to lose order. They go towards disorganization and loss of complexity.



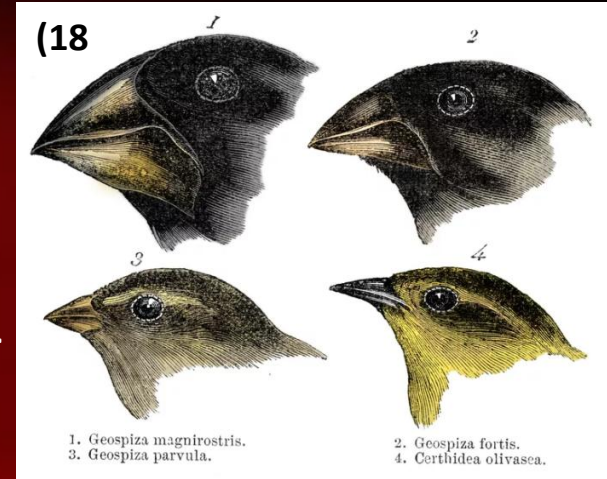
10. Did the Galápagos finches have a common ancestor?

❖ The Galápagos finches are a group of about 18 species of passerine birds. They are well known for their remarkable diversity in beak form and function. They belong to the tanager family and are not closely related to the true finches.

❖ Darwin noticed that fruit-eating finches had parrot-like beaks, and that finches that ate insects had narrow, prying beaks. He wrote: "One might really fancy that from an original paucity [scarcity] of birds ... one species had been taken and modified for different ends."

❖ He concluded that "The Galapagos finches had a common ancestor." This was his fancy and he had no proof to support it. He then concluded that 'The beaks of the finches of the Galapagos Islands changed over time; The Galapagos finches had a common ancestor.'

Soon two hundred years have passed since Darwin made these statements. No one any where was able to find a proof to his statements.



إِنَّ اللَّهَ فَالِقُ الْحَبِّ وَالنَّوَى يُخْرِجُ الْحَيَّ مِنَ الْمَيِّتِ وَمُخْرِجُ الْمَيِّتِ مِنَ الْحَيِّ ذَالِكُمْ اللَّهُ فَالِقُ تُوْفَكُوْنَ (الأنعام 95)

Verily it is Allah Who causes the

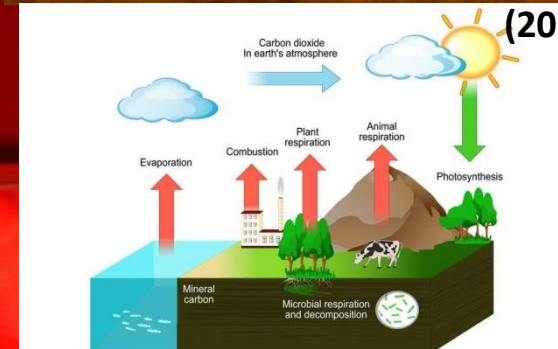
أَمَّا أَمْرُهُ إِذَا أَرَادَ شَيْئًا أَنْ يَقُولَ لَهُ كُنْ فَيَكُونُ (يس 82)

seed-grain and the fruit-stones to split and sprout . He brings forth the living from the dead, and it is He Who brings forth the dead from the living. Such is Allah, then how are you deluded away from the truth? (6/95). Verily, His command, when He intends a thing, is only that He says to it, “Be” and it is! (36/82)

❖ The seeds and the nuclei which look lifeless like an inanimate, if planted they cleave, life comes to both of them and the cells multiply incredibly fast to take the shape implied by its genetic code/DNA as pre-designed by the Almighty Creator. It is a live example of the power of the Creator to extract life from dead seeds and nuclei.

❖ Then the time comes when the leaves start to wither and the plant die and become part of the lifeless organic waste, in addition to animal and human wastes. They all then return back to the plant in the form of Carbon Dioxide (according to the carbon cycle) to help the plant to revive and grow.

It is the Order of the Creator, when He says to it, “Be” and it is.



وَهُوَ الَّذِي أَنْزَلَ مِنَ السَّمَاءِ مَاءً فَأَخْرَجْنَا بِهِ نَبَاتَ كُلِّ شَيْءٍ فَأَخْرَجْنَا مِنْهُ خَضِرًا نُخْرَجُ مِنْهُ حَبًّا مَّتْرَاكِبًا وَمِنَ النَّخْلِ مِنْ طَلْعِهَا قِنْوَانٌ دَانِيَةٌ وَجَنَّاتٍ مِّنْ أَعْنَابٍ وَالزَّيْتُونَ وَالرَّمَّانَ مُشْتَبِهًا وَغَيْرَ مُتَشَابِهٍ ۗ انظُرُوا إِلَى ثَمَرِهِ إِذَا أَثْمَرَ وَيَنْعِهِ ۗ إِنَّ فِي ذَٰلِكُمْ لَآيَاتٍ لِّقَوْمٍ يُؤْمِنُونَ (الأنعام 99)

And out of the date-palm come forth clusters of dates hanging low and gardens of grapes, olives and pomegranates, they may look similar yet different in taste. Look at their fruits when they begin to bear, and the ripeness their off. Verily, in these things there are signs for people who believe (6/99)



(25)



(24)



(23)



(22)



(21)

This verse take to the beautiful landscape and sceneries; the water, the green plantations, the gardens of fruits that make us relaxed on seeing them. The Creator asks us to look around to the hanging dates and the fruits which may have similar trees but different fruits of different tastes and different health benefits. They all look like living machines, which the Compassionate Merciful Creator dwelled them with us at the same living conditions to provide for us and for our and our animals the food and feed needed.

وَاللَّهُ خَلَقَ كُلَّ دَابَّةٍ مِّن مَّاءٍ فَمِنْهُمْ مَّن يَمْشِي عَلَى بَطْنِهِ وَمِنْهُمْ مَّن يَمْشِي عَلَى رِجْلَيْنِ وَمِنْهُمْ مَّن يَمْشِي عَلَى أَرْبَعٍ يَخْلُقُ اللَّهُ مَا يَشَاءُ ۚ إِنَّ اللَّهَ عَلَىٰ كُلِّ شَيْءٍ قَدِيرٌ (النور 45) وَمَا مِنْ دَابَّةٍ فِي الْأَرْضِ وَلَا طَائِرٍ يَطِيرُ بِجَنَاحَيْهِ إِلَّا أُمَمٌ أَمْثَالُكُمْ ۚ مَا فَرَّطْنَا فِي الْكِتَابِ مِنْ شَيْءٍ ۚ ثُمَّ إِلَىٰ رَبِّهِمْ يُحْشَرُونَ (الأنعام 38)

Allah has created every moving (living) creature from water. Of them there are some who creep on their bellies, and some that walk on two legs and some that walk on four. Allah creates what He wills. Verily Allah is Able to do all things (24/45) There is not a moving creature on earth, nor a bird that flies with its two wings, but are communities like you. We have neglected nothing in the Book, then unto their Lord they shall be gathered (6/38)



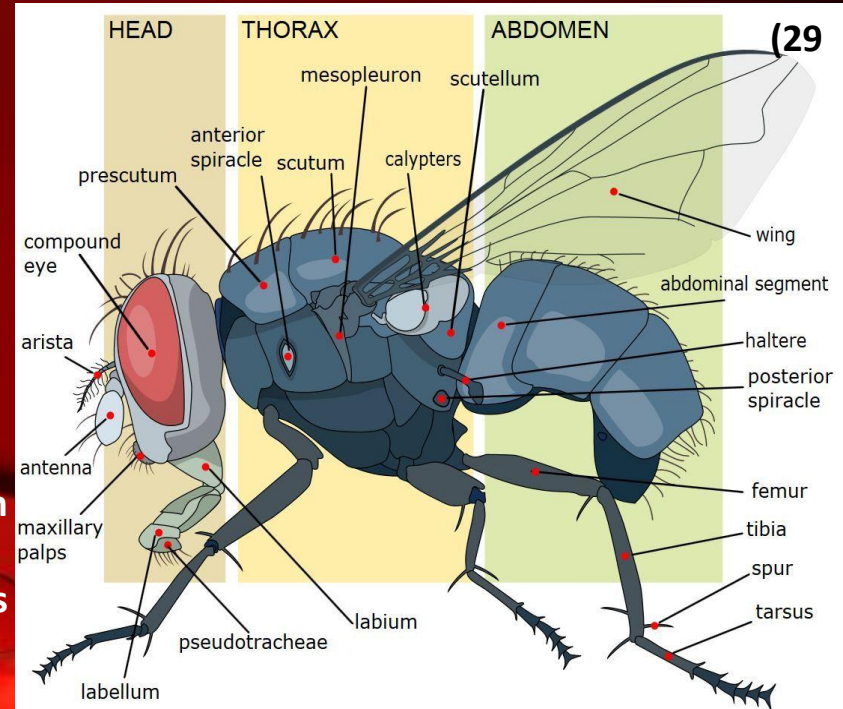
God Almighty tells us that every living being was created from water. This statement is confirmed in every day life. There isn't human, animal or plant that could survive without water. Also water is the main component of both nucleic and amino acids which are the main components of the living cell. He then selects a variety of animal; those who move on their bellies (as reptiles) , those who move on two legs (as birds) and those who move on four legs (as animals). Then comes the most important statement; "they are communities/nations like us." Thus none of them is our grand parents, and we aren't their children.

يَا أَيُّهَا النَّاسُ ضَرْبٌ مِّثْلُ مَا اسْتَمِعُوا لَهُ إِنَّ الَّذِينَ تَدْعُونَ مِنْ دُونِ اللَّهِ لَنْ يَخْلُقُوا ذُبَابًا وَلَوْ اجْتَمَعُوا لَهُ وَإِنْ يَسْلُبْهُمُ الذُّبَابُ شَيْئًا لَا يَسْتَفِيدُونَ مِنْهُ ضَعْفَ الطَّالِبِ وَالْمَطْلُوبِ (الحج 73)

O Mankind! A similitude has been coined, so listen to it (carefully), Verily those on whom you call besides Allah, cannot create a fly, even though they combine together for the purpose. And if the fly snatches away a thing from them, they will have no power to release (get it back) it from the fly. So weak are both the seeker and the sought. They have not estimate Allah His Rightful Estimate. Verily, Allah is all strong all mighty (22/73 – 74)

❖ The Creator is challenging those who worship others than Allah to create a small insect, 'a fly'! And **emphasizes** to them that they wouldn't be able even if they collect all their power and knowledge and put them together. The different parts of the head, thorax and abdomen are shown in the figure. All that in a space of about 1cm. Besides, the fly is a body and soul, from where they will get the its soul?

❖ The challenge doesn't stop here! It continues; if the fly robs them something, e.g., a piece of melon or its juice, they will never get it back, as part of it will be transferred into energy for flight, part to its body elements and part discharged as waste.

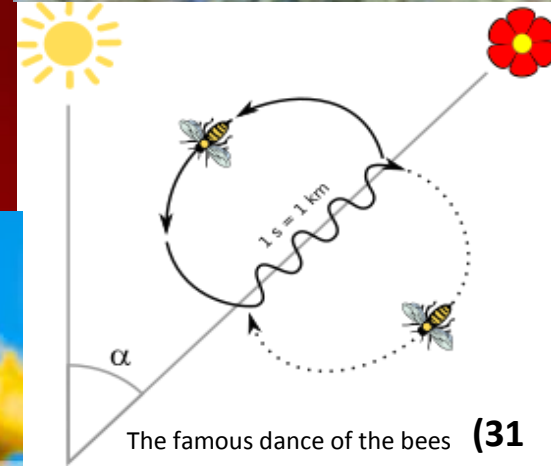


وَأَوْحَىٰ رَبُّكَ إِلَى النَّحْلِ أَنْ اتَّخِذِي مِنَ الْجِبَالِ بُيُوتًا وَمِنَ الشَّجَرِ وَمِمَّا يَعْرِشُونَ ثُمَّ كُلِي مِن كُلِّ الثَّمَرَاتِ فَاسْلُكِي سُبُلَ رَبِّكِ ذُلَالًا ۗ يَخْرُجُ مِنْ بُطُونِهَا شَرَابٌ مُّخْتَلِفٌ أَلْوَانُهُ فِيهِ شِفَاءٌ لِّلنَّاسِ (النحل - 68 - 69)

And you Lord inspired the bees; “Take your habitation in the mountains and in the trees and in what they erect, then eat of all fruits and follow the way of your Lord made easy”. There comes from their bellies a drink of varying colors. Where is healing for people. Verily in this is indeed a sign for people who think (16/68 – 69)

❖ Our Lord informs us in this verse that He has subjected to us the bees, as He has subjected to us the cattle, the wind, the rivers,..etc, and inspired them to make homes in the mountains, in the trees and eat from all kinds of fruits in order to produce colors of honey, which has healing effects for people.

❖ The health properties of honey discovered lately are numerous; such as anti-inflammatory, anti-allergenic, antioxidant and antimicrobial effects. Thus it helps with allergies and in digestion, has antibacterial effect, fights cough, controls blood sugar, boosts energy and creates healthy skin.



The famous dance of the bees (31)

Summary of Chapter Six

- ❖ We started the Chapter with discussing the Evolution theory. The probability that the components of a living organism would be formed by accident, or that life appear spontaneously is less than one in 10^{50} . Mathematically this means that the event is not possible. We also know that all the trials to transfer chemical compounds into a living being didn't succeed. In addition the collected fossils, which number has exceeded 2 millions, have no evidence of any transitional stage that took place. We also saw that the genetic code allows accommodations to physical and environmental conditions and variations in colors, etc., but does not allow any transfer from one species to another.
- ❖ We have also seen how wonderful fruits and vegetations come out from seeds and nuclei that look lifeless like an inanimate just when they get water, from which the Creator has made every living thing. Water is also the main constituent of the two acids that form the cell, viz., amino acids and nucleic acid. We then consider the challenge the Creator mentions to all mankind everywhere and at any time; to create an insect that is used to disturb us and we always try to get rid of; a fly. On knowing the anatomy of the fly, and that the fly is both a body and soul, it is clear that they will never do it even if all their scientists get together. The challenge goes further, viz., if the fly snatches something from them, say some melon juice, they will never get it back. As part of it will be used as energy in flying, part goes to the cells and part will be expelled as waste. Where is the melon juice that has gone? And who can get it back?

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References

1. ما هي الخلايا؟ تعريف الخلية الحية 28 مارس 2019 أنا أصدق العلم <https://www.ibelieveinsci.com/>
2. Greg Easterbrook, "Where did life come from?" Wired Magazine, 2/07, p108.
3. Fred Hoyle, The Intelligent Universe, A new view of Creation and Evolution, ISBN 0-03-07DDf13-3.
4. Katy McLaughlin, Ph.D , Animal Cell, Biology Dictionary, 19 October , 2020, <https://biologydictionary.net/>
5. Facts About Prokaryotic, Leaf Group Media, <https://sciencing.com/>
6. Supriya N, Difference Between Unicellular and Multicellular Organisms, Biology Reader, <https://biologyreader.com/>
7. Amazing transitional animals, geocities.com/BlindFools
8. Hugo de Vries, https://en.wikipedia.org/wiki/Hugo_de_Vries, 4 May 2021.
9. The Tree of Life!?. Amazon, <https://www.amazon.com/>
10. Evolution: Charles Darwin was wrong about the tree of life, <https://www.theguardian.com/science/2009/jan/21/charles-darwin-evolution-species-tree-life>
11. FEATHERS, Encyclopædia Britannica, Inc., <https://kids.britannica.com/>
12. Python eats Bird , Wildlife Stock footage, <https://www.youtube.com/>
13. Jim Dykestra, What animals eat snake, 6 Aug. 2019, Gronge, <https://www.grunge.com/161123>
14. A new mid-Silurian aquatic scorpion – one step closer to land? 15 January, 2015, <https://www.rom.on.ca/en/blog>
15. Sippakorn Yamkasikorn, <https://www.pexels.com/photo/person-holding-a-scorpion-3696179/>
16. Thylacine hunting behavior: Case of crying wolf? News from Brown, 3 May 2011, <https://news.brown.edu/>

References (cont.)

17. Com2030.com, الأجهزة الخارقة التصميم والأداء لدى اليعسوب, <https://www.com2030.com/>
18. Heather Scoville, Charles Darwin's Finches, 26 June 2019, ThoughtCo, <https://www.thoughtco.com/>
19. Marjorie Lundgren, Curious Kids: where did the first seed come from?, 25 Jan. 2019, <https://theconversation.com/uk>
20. Carbon Cycle, Ministry of Science, Picuki, <https://www.picuki.com/media/>
21. Olive tree pests and diseases, Agriculture and Food, Gov. of Western Australia, <https://www.agric.wa.gov.au/>
22. POMEGRANATES, The Science of Natural Health, 2 Dec. 2010, VitaMedica, <https://vitamedica.com/>
23. Thitisan, color grapes on tree with green nature blurry background, <https://www.shutterstock.com/fi>
24. Date Tree Stock Photos and Images, , alamy, <https://www.alamy.com/>
25. Palm tree, Gail, <https://www.pinterest.com/>
26. Reptiles, Yellow Stone, National Park Service, <https://www.nps.gov/>
27. Common ostrich, Wikipedia, last edited on 9 February 2021, <https://en.wikipedia.org/>
28. Natalie Angier, Our Understanding of Giraffes Doesn't Measure Up, Oct. 2014, Science, New York Times.
29. Pinterest. <https://www.pinterest.com/pin/609604499534442193/>
30. Barbara Smith & Mark Brown, Air pollution could be making honey bees sick , The Conversation.
31. Waggle dance, Wikipedia, last edited 5 December 2020, https://en.wikipedia.org/wiki/Waggle_dance
32. Honey bee at a yellow flower, Wallpapers, <https://wallpapersprinted.com/>
33. Biological and genuine honey drips inside a jar, H Quality, <https://www.hquality.com/product/>