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The Qur'an & Modern Science

The French author Maurice Bucaille has written a book entitled `La Bible, le Coran et la Science', which has been translated into English. In this book the author writes:

"The relationship between the Qur'an and science is a priori a surprise, especially when it turns out to be one of harmony and not of discord.....The totally erroneous statements made about Islam in the West are sometimes the result of ignorance and some times of systematic denigration."

The author then proceeds to take various scientific subjects and give Qur'anic references which fully accord with the modern scientific conclusions. While it is not proposed to deal with the subject in any detail in this course, it might be interesting to give here a few of the scientific subjects dealt with by Bucaille and the corresponding Qur'anic verses cited by him.

The Sky

أَفَلَمْ يَنْظُرُوا إِلَى السَّمَاءِ فَوْقَهُمْ كَيْفَ بَنَيْنَاهَا وَزَيَّنَّاهَا وَمَا لَهَا مِنْ فُرُوجٍ

Do they not then look up to heaven above them how we have made it and adorned it and it has no gaps? (***50:6***)

اللَّهُ الَّذِي رَفَعَ السَّمَاوَاتِ بِغَيْرِ عَمَدٍ تَرَوْنَهَا ۖ ثُمَّ اسْتَوَىٰ عَلَى الْعَرْشِ ۖ وَسَخَّرَ الشَّمْسَ وَالْقَمَرَ ۖ كُلٌّ يَجْرِي لِأَجَلٍ مُسَمًّى ۖ يُدَبِّرُ الْأَمْرَ يُفَصِّلُ الْآيَاتِ لَعَلَّكُمْ بِلِقَاءِ رَبِّكُمْ تُوقِنُونَ

Allah is He Who raised the heavens without any pillars that you see and He is firm in power and He made the sun and the moon subservient (***to you***)***; each one pursues its course to an appointed time; He regulates the affair, making clear the signs that you may be certain of meeting your Lord.*** (***13:2***)

وَسَخَّرَ لَكُمْ مَا فِي السَّمَاوَاتِ وَمَا فِي الْأَرْضِ جَمِيعًا مِنْهُ ۚ إِنَّ فِي ذَٰلِكَ لَآيَاتٍ لِقَوْمٍ يَتَفَكَّرُونَ

And He has made subservient to you whatsoever is in the heavens and whatsoever is in the earth, all, from Himself; most surely there are signs in this for a people who reflect. (***45:13***)

هُوَ الَّذِي جَعَلَ الشَّمْسَ ضِيَاءً وَالْقَمَرَ نُورًا وَقَدَّرَهُ مَنَازِلَ لِتَعْلَمُوا عَدَدَ السِّنِينَ وَالْحِسَابَ ۚ مَا خَلَقَ اللَّهُ ذَٰلِكَ إِلَّا بِالْحَقِّ ۚ يُفَصِّلُ الْآيَاتِ لِقَوْمٍ يَعْلَمُونَ

He it is who made the sun a shining brightness and the moon a light, and ordained for it mansions that you might know the computation of years and the reckoning. Allah did not create it but with truth; He makes the signs manifest for a people who (***10:5***)

The Planets

اللَّهُ نُورُ السَّمَاوَاتِ وَالْأَرْضِ ۚ مَثَلُ نُورِهِ كَمِشْكَاةٍ فِيهَا مِصْبَاحٌ ۖ الْمِصْبَاحُ فِي زُجَاجَةٍ ۖ الزُّجَاجَةُ كَأَنَّهَا كَوْكَبٌ دُرِّيٌّ يُوقَدُ مِنْ شَجَرَةٍ مُبَارَكَةٍ زَيْتُونَةٍ لَا شَرْقِيَّةٍ وَلَا غَرْبِيَّةٍ يَكَادُ زَيْتُهَا يُضِيءُ وَلَوْ لَمْ تَمْسَسْهُ نَارٌ ۚ نُورٌ عَلَىٰ نُورٍ ۗ يَهْدِي اللَّهُ لِنُورِهِ مَنْ يَشَاءُ ۚ وَيَضْرِبُ اللَّهُ الْأَمْثَالَ لِلنَّاسِ ۗ وَاللَّهُ بِكُلِّ شَيْءٍ عَلِيمٌ

Allah is the light of the heavens and the earth; a likeness of His light is as a niche in which is a lamp, the lamp is in a glass, (***and***) ***the glass is as it were a brightly shining star, lit from a blessed olive-tree, neither eastern nor western, the oil whereof almost gives light though fire touch it not-- light upon light-- Allah guides to His light whom He pleases, and Allah sets forth parables for men, and Allah is Cognizant of all things.*** (***24:35***)

إِنَّا زَيَّنَّا السَّمَاءَ الدُّنْيَا بِزِينَةٍ الْكَوَاكِبِ

That you may warn a people whose fathers were not warned, so they are heedless. (***37:6***)

Celestial organization

لَا الشَّمْسُ يَنْبَغِي لَهَا أَنْ تُدْرِكَ الْقَمَرَ وَلَا اللَّيْلُ سَابِقُ النَّهَارِ ۚ وَكُلٌّ فِي فَلَكٍ يَسْبَحُونَ

Neither is it allowable to the sun that it should overtake the moon, nor can the night outstrip the day; and all float on in a sphere. (***36:40***)

يُولِجُ اللَّيْلَ فِي النَّهَارِ وَيُولِجُ النَّهَارَ فِي اللَّيْلِ وَسَخَّرَ الشَّمْسَ وَالْقَمَرَ كُلٌّ يَجْرِي لِأَجَلٍ مُسَمًّى ۚ ذَٰلِكُمُ اللَّهُ رَبُّكُمْ لَهُ

الْمُلْكُ ۚ وَالَّذِينَ تَدْعُونَ مِنْ دُونِهِ مَا يَمْلِكُونَ مِنْ قِطْمِيرٍ

He causes the night to enter in upon the day, and He causes the day to enter in upon the night, and He has made subservient (to you) the sun and the moon; each one follows its course to an appointed time; this is Allah, your Lord, His is the kingdom; and those whom you call upon besides Him do not control a straw. (35:13)

وَالسَّمَاءَ بَنَيْنَاهَا بِأَيْدٍ وَإِنَّا لَمُوسِعُونَ

And the heaven, we raised it high with power, and most surely we are the makers of things ample. (51:47)

Conquest of space

فَبِأَيِّ آلَاءِ رَبِّكُمَا تُكَذِّبَانِ

O assembly of the jinn and the men! If you are able to pass through the regions of the heavens and the earth, then pass through; you cannot pass through but with authority. (55:13)

وَلَوْ فَتَحْنَا عَلَيْهِمْ بَابًا مِنَ السَّمَاءِ فَظَلُّوا فِيهِ يَعْرُجُونَ

And even if we open to them a gateway of heaven, so that they ascend into it all the while, (15:14)

لَقَالُوا إِنَّمَا سُكِّرَتْ أَبْصَارُنَا بَلْ نَحْنُ قَوْمٌ مَسْحُورُونَ

They would certainly say: Only our eyes have been covered over, rather we are an enchanted people. (15:15)

The Earth

الَّذِي جَعَلَ لَكُمُ الْأَرْضَ فِرَاشًا وَالسَّمَاءَ بِنَاءً وَأَنْزَلَ مِنَ السَّمَاءِ مَاءً فَأَخْرَجَ بِهِ مِنَ الثَّمَرَاتِ رِزْقًا لَكُمْ ۚ فَلَا تَجْعَلُوا لِلَّهِ أَنْدَادًا وَأَنْتُمْ تَعْلَمُونَ

Who made the earth a resting place for you and the heaven a canopy and (Who) sends down rain

from the cloud then brings forth with it subsistence for you of the fruits; therefore do not set up rivals to Allah while you know. (***2:22***)

الَّذِي جَعَلَ لَكُمُ الْأَرْضَ مَهْدًا وَسَلَكَ لَكُمْ فِيهَا سُبُلًا وَأَنْزَلَ مِنَ السَّمَاءِ مَاءً فَأَخْرَجْنَا بِهِ أَزْوَاجًا مِنْ نَبَاتٍ شَتَّىٰ

Who made the earth for you an expanse and made for you therein paths and sent down water from the cloud; then thereby we have brought forth many species of various herbs. (***20:53***)

كُلُوا وَارْعَوْا أَنْعَامَكُمْ ۗ إِنَّ فِي ذَٰلِكَ لَآيَاتٍ لِأُولِي النُّهَىٰ

Eat and pasture your cattle; most surely there are signs in this for those endowed with understanding. (***20:54***)

The Water Cycle

اللَّهُ الَّذِي يُرْسِلُ الرِّيَاحَ فَتُثِيرُ سَحَابًا فَيَبْسُطُهُ فِي السَّمَاءِ كَيْفَ يَشَاءُ وَيَجْعَلُهُ كِسَفًا فَتَرَى الْوَدْقَ يَخْرُجُ مِنْ خِلَالِهِ ۖ فَإِذَا أَصَابَ بِهِ مَنْ يَشَاءُ مِنْ عِبَادِهِ إِذَا هُمْ يَسْتَبْشِرُونَ

Allah is he Who sends forth the winds so they raise a cloud, then He spreads it forth in the sky as He pleases, and He breaks it up so that you see the rain coming forth from inside it; then when He causes it to fall upon whom He pleases of His servants, lo! They are joyful (***30:48***)

وَهُوَ الَّذِي يُرْسِلُ الرِّيَاحَ بُشْرًا بَيْنَ يَدَيْ رَحْمَتِهِ ۖ حَتَّىٰ إِذَا أَقَلَّتْ سَحَابًا ثِقَالًا سُقْنَاهُ لِبَلَدٍ مَيِّتٍ فَأَنْزَلْنَا بِهِ الْمَاءَ فَأَخْرَجْنَا بِهِ مِنْ كُلِّ الثَّمَرَاتِ ۚ كَذَٰلِكَ نُخْرِجُ الْمَوْتَىٰ لَعَلَّكُمْ تَذَكَّرُونَ

And He it is Who sends forth the winds bearing good news before His mercy, until, when they bring up a laden cloud, We drive it to a dead land, then We send down water on it, then bring forth with it of fruits of all kinds; thus shall We bring forth the dead that you may be mindful. (***7:57***)

وَهُوَ الَّذِي أَرْسَلَ الرِّيَاحَ بُشْرًا بَيْنَ يَدَيْ رَحْمَتِهِ ۖ وَأَنْزَلْنَا مِنَ السَّمَاءِ مَاءً طَهُورًا

And when they are called to Allah and His Messenger that he may judge between them, lo! a party of them turn aside. (***25:48***)

لِنُحْيِيَ بِهِ بَلْدَةً مَيْتًا وَنُسْقِيَهُ مِمَّا خَلَقْنَا أَنْعَامًا وَأَنَاسِيَّ كَثِيرًا

And if the truth be on their side, they come to him quickly, obedient. (***25:49***)

Origin of Life in Water

أَوَلَمْ يَرَ الَّذِينَ كَفَرُوا أَنَّ السَّمَاوَاتِ وَالْأَرْضَ كَانَتَا رَتْقًا فَفَتَقْنَاهُمَا ۖ وَجَعَلْنَا مِنَ الْمَاءِ كُلَّ شَيْءٍ حَيٍّ ۖ أَفَلَا يُؤْمِنُونَ

Do not those who disbelieve see that the heavens and the earth were closed up, but we have opened them; and we have made of water everything living, will they not then believe? (***21:30***)

الَّذِي جَعَلَ لَكُمُ الْأَرْضَ مَهْدًا وَسَلَكَ لَكُمْ فِيهَا سُبُلًا وَأَنْزَلَ مِنَ السَّمَاءِ مَاءً فَأَخْرَجْنَا بِهِ أَزْوَاجًا مِنْ نَبَاتٍ شَتَّىٰ

Who made the earth for you an expanse and made for you therein paths and sent down water from the cloud; then thereby we have brought forth many species of various herbs. (***20:53***)

Vegetable and animal reproduction

الَّذِي جَعَلَ لَكُمُ الْأَرْضَ مَهْدًا وَسَلَكَ لَكُمْ فِيهَا سُبُلًا وَأَنْزَلَ مِنَ السَّمَاءِ مَاءً فَأَخْرَجْنَا بِهِ أَزْوَاجًا مِنْ نَبَاتٍ شَتَّىٰ

Who made the earth for you an expanse and made for you therein paths and sent down water from the cloud; then thereby we have brought forth many species of various herbs. (***20:53***)

حْنُ نَقُصُّ عَلَيْكَ أَحْسَنَ الْقَصَصِ بِمَا أَوْحَيْنَا إِلَيْكَ هَٰذَا الْقُرْآنَ وَإِنْ كُنْتَ مِنْ قَبْلِهِ لَمِنَ الْغَافِلِينَ

We narrate to you the best of narratives, by our revealing to you this Quran, though before this you were certainly one of those who did not know. (***12:3***)

وَأَنَّهُ خَلَقَ الزَّوْجَيْنِ الذَّكَرَ وَالْأُنْثَىٰ

And that He created pairs, the male and the female (***53:45***)

مِنْ نُطْفَةٍ إِذَا تُمْنَىٰ (53:46)

From the small seed when it is adapted (***53:46***)

Animal communities

وَمَا مِنْ دَابَّةٍ فِي الْأَرْضِ وَلَا طَائِرٍ يَطِيرُ بِجَنَاحَيْهِ إِلَّا أُمَمٌ أَمْثَالُكُمْ ۚ مَا فَرَّطْنَا فِي الْكِتَابِ مِنْ شَيْءٍ ۚ ثُمَّ إِلَىٰ رَبِّهِمْ يُحْشَرُونَ

And there is no animal that walks upon the earth nor a bird that flies with its two wings but (they are) genera like yourselves; we have not neglected anything in the Book, then to their Lord shall they be gathered. (6:38)

Bees

وَأَوْحَىٰ رَبُّكَ إِلَى النَّحْلِ أَنِ اتَّخِذِي مِنَ الْجِبَالِ بُيُوتًا وَمِنَ الشَّجَرِ وَمِمَّا يَعْرِشُونَ

And your Lord revealed to the bee saying: Make hives in the mountains and in the trees and in what they build: (16:68)

ثُمَّ كُلِي مِنْ كُلِّ الثَّمَرَاتِ فَاسْلُكِي سُبُلَ رَبِّكِ ذُلُلًا ۚ يَخْرُجُ مِنْ بُطُونِهَا شَرَابٌ مُخْتَلِفٌ أَلْوَانُهُ فِيهِ شِفَاءٌ لِلنَّاسِ ۗ إِنَّ فِي ذَٰلِكَ لَآيَةً لِقَوْمٍ (16:69) يَتَفَكَّرُونَ

Then eat of all the fruits and walk in the ways of your Lord submissively. There comes forth from within it a beverage of many colors, in which there is healing for men; most surely there is a sign in this for a people who reflect. (16:69)

Spiders

مَثَلُ الَّذِينَ اتَّخَذُوا مِنْ دُونِ اللَّهِ أَوْلِيَاءَ كَمَثَلِ الْعَنْكَبُوتِ اتَّخَذَتْ بَيْتًا ۖ وَإِنَّ أَوْهَنَ الْبُيُوتِ لَبَيْتُ الْعَنْكَبُوتِ ۖ لَوْ كَانُوا يَعْلَمُونَ

The parable of those who take guardians besides Allah is as the parable of the spider that makes for itself a house; and most surely the frailest of the houses is the spider's house did they but know. (29:41)

Human reproduction

يَا أَيُّهَا الْإِنْسَانُ مَا غَرَّكَ بِرَبِّكَ الْكَرِيمِ

O man! What has beguiled you from your Lord, the Gracious one, (***82:6***)

الَّذِي خَلَقَكَ فَسَوَّاكَ فَعَدَلَكَ

Who created you, then made you complete, then made you symmetrical? (***82:7***)

فِي أَيِّ صُورَةٍ مَا شَاءَ رَكَّبَكَ

Into whatever form He pleased He constituted you. (***82:8***)

خَلَقَ الْإِنْسَانَ مِنْ نُطْفَةٍ فَإِذَا هُوَ خَصِيمٌ مُبِينٌ

He created man from a small seed and lo! he is an open contender. (***16:4***)

ثُمَّ جَعَلْنَاهُ نُطْفَةً فِي قَرَارٍ مَكِينٍ

Then we made him a small seed in a firm resting-place, (***23:13***)

يَا أَيُّهَا النَّاسُ إِنْ كُنْتُمْ فِي رَيْبٍ مِنَ الْبَعْثِ فَإِنَّا خَلَقْنَاكُمْ مِنْ تُرَابٍ ثُمَّ مِنْ نُطْفَةٍ ثُمَّ مِنْ عَلَقَةٍ ثُمَّ مِنْ مُضْغَةٍ مُخَلَّقَةٍ وَغَيْرِ مُخَلَّقَةٍ لِنُبَيِّنَ لَكُمْ ۚ وَنُقِرُّ فِي الْأَرْحَامِ مَا نَشَاءُ إِلَىٰ أَجَلٍ مُسَمًّى ثُمَّ نُخْرِجُكُمْ طِفْلًا ثُمَّ لِتَبْلُغُوا أَشُدَّكُمْ ۖ وَمِنْكُمْ مَنْ يُتَوَفَّىٰ وَمِنْكُمْ مَنْ يُرَدُّ إِلَىٰ أَرْذَلِ الْعُمُرِ لِكَيْلَا يَعْلَمَ مِنْ بَعْدِ عِلْمٍ شَيْئًا ۚ وَتَرَى الْأَرْضَ هَامِدَةً فَإِذَا أَنْزَلْنَا عَلَيْهَا الْمَاءَ اهْتَزَّتْ وَرَبَتْ وَأَنْبَتَتْ مِنْ كُلِّ زَوْجٍ بَهِيجٍ

O people! if you are in doubt about the raising, then surely We created you from dust, then from a small seed, then from a clot, then from a lump of flesh, complete in make and incomplete, that We may make clear to you; and We cause what We please to stay in the wombs till an appointed time, then We bring you forth as babies, then that you may attain your maturity; and of you is he who is caused to die, and of you is he who is brought back to the worst part of life, so that after having knowledge he does not know anything; and you see the earth sterile land, but when We send down on it the water, it stirs and swells and brings forth of every kind a beautiful herbage. (***22:5***)

ثُمَّ خَلَقْنَا النُّطْفَةَ عَلَقَةً فَخَلَقْنَا الْعَلَقَةَ مُضْغَةً فَخَلَقْنَا الْمُضْغَةَ عِظَامًا فَكَسَوْنَا الْعِظَامَ لَحْمًا ثُمَّ أَنْشَأْنَاهُ خَلْقًا آخَرَ ۚ فَتَبَارَكَ اللَّهُ أَحْسَنُ الْخَالِقِينَ

Then we made the seed a clot, then We made the clot a lump of flesh, then We made (in) the lump of flesh bones, then We clothed the bones with flesh, then We caused it to grow into another creation, so blessed be Allah, the best of the creators. (***23:14***)

وَأَنَّهُ خَلَقَ الزَّوْجَيْنِ الذَّكَرَ وَالْأُنْثَىٰ

And that He created pairs, the male and the female (***53:45***)

مِنْ نُطْفَةٍ إِذَا تُمْنَىٰ

From the small seed when it is adapted (***53:46***)

وَاللَّهُ خَلَقَكُمْ مِنْ تُرَابٍ ثُمَّ مِنْ نُطْفَةٍ ثُمَّ جَعَلَكُمْ أَزْوَاجًا ۚ وَمَا تَحْمِلُ مِنْ أُنْثَىٰ وَلَا تَضَعُ إِلَّا بِعِلْمِهِ ۚ وَمَا يُعَمَّرُ مِنْ مُعَمَّرٍ وَلَا يُنْقَصُ مِنْ عُمُرِهِ إِلَّا فِي كِتَابٍ ۚ إِنَّ ذَٰلِكَ عَلَى اللَّهِ يَسِيرٌ

And Allah created you of dust, then of the life-germ, then He made you pairs; and no female bears, nor does she bring forth, except with His knowledge; and no one whose life is lengthened has his life lengthened, nor is aught diminished of one's life, but it is all in a book; surely this is easy to Allah. (***35:11***)

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