

Chromosome numbers in the Holy Quran

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

PREFACE

All people in the animal kingdom, including humans, have a specific genetic structure. A specific number of chromosomes are found in healthy cells of all animals. The slightest change in the number of chromosomes can cause severe anomalies for every organism. For example, healthy human cells contain 23 pairs or 46 chromosomes, if the number changes to 47 or 48, then the child will be born with a fatal birth defect. [\[1\]](#) [\[2\]](#)

Is the Holy Quran being a book about genetics? The answer is 'No'. But it is a book from the Almighty Allah for mankind. It contains 'signs' of God. Almighty Allah has indicated the specific number of chromosomes in the chapters and verses of the Quran. The 16th chapter of the Holy Quran 'The Bee' and drone bees have 16 chromosomes. The chapter 'Human being' (76th chapter) contains 31 verses. Human chromosome number 46 is the 31st composite number. The word 'Cow', 'Dog', 'Camel', 'Pigs' etc. found just before or after or at the position of their specific chromosome number. [Note- Every verse that has a specific animal name does not indicate the chromosome number in every case.]

In this article, attempts have been made to show this wonderful miracle of the Quran.

How the chromosome numbers are indicated in the Holy Quran?

1. Name of the animal at the position of its chromosome number.
2. Same chromosome number and Arabic letter count before or after the name of the animal.
3. As a prime number. i.e. Human have 23 pairs of chromosomes. 23 is the 9th prime number in the universe. Location of the word 'Human' in the 9th position in the verse.
4. As a composite number. i.e. Chromosome number of ape is 48. 48 is the 32nd composite number, 32 Arabic letters before or after the word 'ape'.

*** A prime number is a whole number greater than 1 whose only factors are 1 and itself. A factor is a whole number that can be divided evenly into another number.

*** A composite number is a positive integer that can be formed by multiplying two smaller positive integers.

[**Prime and composite number list are given at end of this article page 45-46]

It is to be noted that the number of Arabic letter varies for the same word due to differences in writing methods.

For example, in Uthmani Qu'ran Standing Fathah/ Zabar is used over the letter س for writing the word الْإِنْسَانُ (Al-Insan). In that case the number of letters in the word Al Insan will be 6. But in other writing systems there is an alif (ا) after س (الْإِنْسَانُ). In that case the number of letters in the word Al Insan will be 7.

In this article, most of the cases, I have followed the writing method of the Uthmani Qur'an. Because the writing system of the Uthmani Qu'ran is the oldest and purest. The number of letters in the Qur'an written in other ways may differ somewhat. Therefore, I would like to request the readers to note that when you match the verses of the Qur'an, you should make sure that your Qur'an is written according to the Uthmani Qu'ran. Otherwise you may be confused.

List of animals mentioned in the Holy Quran and their chromosome numbers [3]

Name	Haploid chromosome number	Diploid chromosome number	Composite / prime number
Human	23	46	23 is the 9th prime number 46 is the 31 st composite number
Ape	24	48	48 is the 32 nd composite number
Bee	Male bee 16, queen and worker bee 32.	16,32	
Horse	32	64	64 is the 45 th composite number
Donkey	31	62	62 is the 43 rd composite number
Pig	19	38	38 is the 25 th composite number
Camel	37	74	74 is the 52 nd composite number
Cow	30	60	60 is the 42 nd composite number
Sheep	27	54	54 is the 37 th composite number
Dog	39	78	78 is the 56 th composite number
Hoopey bird	63	126	63 is the 44 th composite number
Spider, Ant, Snake	There are numerous species.	Different species have different chromosome numbers.	

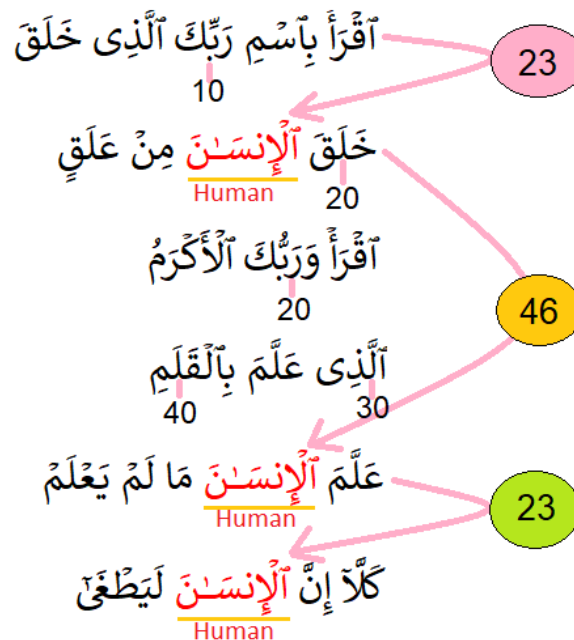
Human chromosome number

The adult human cell contains 23 pairs or 46 chromosomes. Sperm and ovum contain 23 haploid chromosomes.^[4]

Let us now look at the relationship between the words 'Human being' الْإِنْسَانُ (Al Insan), 'Sperm نُطْفَةٌ (Nutfah) and the number of human chromosomes in the Qur'an.

1. Many chapters of the Qur'an deal with human development or embryology. However, human development discussed in more detail in the 23rd chapter of the Holy Qur'an, name Al-Mu'minun (verses 12 to 14). 23 is the human haploid chromosome number and sperm contains 23 chromosomes.

2. We know that the first revelation of the Holy Qur'an is the first few verses of 'Al-Alaq' of the 96th chapter. The word 'Human being' or الْإِنْسَانُ (Al-insan) is located in the 2nd, 5th, and 6th verses of this surah.



Proclaim! (or read!) in the name of thy Lord and Cherisher, Who created- Created **man**, out of a (mere).clot of congealed blood: Proclaim! And thy Lord is Most Bountiful,-He Who taught (the use of) the pen,-Taught **man** that which he knew not.Day, but **man** doth transgress all bounds,

As shown in the image, If we count the letters from the beginning of the first verse, we will see that the number 23 is found within the word **الْإِنْسَانُ** or 'Human being' in the second verse.

Again, if we count the letters from the beginning of the 2nd verse to the word 'Human being' or **الْإِنْسَانُ** in the 5th verse, the number 46 found within the word 'Human being'

Interestingly, if we count the letters from the beginning of the 5th verse, we will see that the first letter of the word 'Human being' or **الْإِنْسَانُ** in the 6th verse is exactly in the 23rd place.

1st verse ----→ The number 23 is found within the word 'Human being' in the 2nd verse

2nd verse ----→ The number 46 is found within the word 'Human being' in the 5th verse

5th verse ----→ The number 23 is found within the word 'Human being' in the 6th verse

3. Surah Al-Zalzalah is the 99th chapter of the Qur'an. The third verse of this chapter contains the word 'Human being' **الْإِنْسَانُ**. Counting the letters from the first verse, the number 46 is found within the word 'Al-Insan'. There are 46 human chromosomes.

(١) إِذَا زُلْزِلَتِ الْأَرْضُ زِلْزَالَهَا
20 10

(٢) وَأَخْرَجَتِ الْأَرْضُ أَثْقَالَهَا
30 46

(٣) وَقَالَ الْإِنْسَانُ مَا لَهَا
Human 40

- 1- When the earth is shaken with its [final] earthquake
- 2- And the earth discharges its burdens
- 3- And man says, "What is [wrong] with it?" [Al-Zalzalah 99:1-3]

4. In the third verse of Surah Ar-Rahman there is the word 'Human being'. Counting the letters from the first verse of the surah, the number 23 is found within the word 'Al-Insan' or 'Human being'. The human cell contains 23 pairs of chromosomes.



1. (Allah) Most Gracious!
2. It is He Who has taught the Qur'an.
3. He has created man: [Ar-Rahman 55: 1-3]

5. The word 'Human being' is also found in verse 14 of Surah Ar-Rahman. If we count the letters from the beginning of verse 13, we will see that there are exactly 23 letters before the word 'Human being' in verse 14.



13. Then which of the favors of your Lord will ye deny?
14. He created man from sounding clay like unto pottery, [Ar-Rahman 55: 13-14]

6. In chapter 95 (At tin) there are exactly 48 letters before the word 'Al-Insan' which is located in 4th verse. Interestingly, from the beginning of the 3rd verse to the word 'Al-insan' of the 4th verse, there are exactly 23 letters.

وَالَّذِينَ وَالزَّيْتُونَ
10

وَطُورِ سَيْنِينَ
20

وَهَذَا الْبَلَدِ الْأَمِينِ
30

لَقَدْ خَلَقْنَا الْإِنْسَانَ فِي أَحْسَنِ تَقْوِيمٍ
46
Human 40

1. By the fig, and the olive,
2. By Mount Sinai,
3. And by this city of security (Makkah) ,
4. Verily, We created man of the best stature (mould), [At Tin, 95: 1-4]

7. The word 'Al-Insan' appears in verse 28 of Surah An-Nisa (4th chapter) in the Holy Qur'an. The first letter of the word Al-Insan or man is Alif (ا) in the 23rd place.

يُرِيدُ اللَّهُ أَنْ يُخَفِّفَ عَنْكُمْ وَخُلِقَ الْإِنْسَانُ ضَعِيفًا
23
Human 20 10

Allah wishes to lighten (the burden) for you; and man was created weak [An nisa, 4: 28]

8. Verse 4 of Surah Nahl (16: 4). Counting the letters from the end of this verse, the number 23 is found within the word 'Al-Insan'

23
 خَلَقَ الْإِنْسَانَ مِنْ نُطْفَةٍ فَإِذَا هُوَ خَصِيمٌ مُّبِينٌ
10 20 Human

He has created man from Nutfah, then behold, this same (man) becomes an open opponent.

[An Nahl, 16:4]

9. Verse 16 of Surah Al-Hashr (59:16), from the end of the verse to the word 'Human being', the number 46 is found within the word 'Al-Insan'.

46
 كَمَثَلِ الشَّيْطَانِ إِذْ قَالَ لِلْإِنْسَانِ اكْفُرْ فَلَمَّا كَفَرَ
40
 قَالَ إِنِّي بَرِيءٌ مِّنكَ إِنِّي أَخَافُ اللَّهَ رَبَّ الْعَالَمِينَ
10 20 30

(Their allies deceived them) like Shaitan (Satan), when he says to man: “Disbelieve in Allah.” But when (man) disbelieves in Allah, Shaitan (Satan) says: “I am free of you, I fear Allah, the Lord of the ‘Alamin!”

[Al-Hahr 59:16]

10. Surah Ibrahim verse 34 (14:34). From the beginning of the verse to the word 'Al-insan', the first letter of the word 'Al-Insan' -Alif is in the 46th position.

وَءَاتَيْنَاكُمْ مِّن كُلِّ مَا سَأَلْتُمُوهُ وَإِن تَعُدُّوا نِعْمَتَ اللَّهِ
30 20 10
46
 لَا تُحْصَوْهَا إِنَّ الْإِنْسَانَ لَظَلُومٌ كَفَّارٌ
Human 40

And He gave you of all that you asked for, and if you count the Blessings of Allah, never will you be able to count them. Verily! Man is indeed an extreme wrong-doer, – a disbeliever. [Surah Ibrahim 14:34]

11. In verse 6 of Surah Maryam (19: 6), from the end of the verse to the word ‘ Human being’, the number 23 is found within the word ‘Human being’.

23
 وَيَقُولُ الْإِنْسَانُ أَإِذَا مَا مِتُّ لَسَوْفَ أُخْرَجُ حَيًّا
10
20
Human

And man says: “When I am dead, shall I then be raised up alive?” [Maryam 19:66]

12. Surah Zukhruf, verse 15 (43:15). From the beginning of the verse to the word ‘Human being’, there are exactly 23 letters.

23
 وَجَعَلُوا لَهُ مِنْ عِبَادِهِ جُزْءًا إِنَّ الْإِنْسَانَ لَكَفُورٌ مُّبِينٌ
20
10

Yet they assign to some of His slaves a share with Him Verily, man is indeed a manifest ingrate!
[AZ Zukhruf 43:15]

13. Surah Qaf verse 16 (50:16). From the end of the verse to the word ‘Al-Insan’, the number 46 is found within the word ‘Al-Insan’.

46
 وَلَقَدْ خَلَقْنَا الْإِنْسَانَ وَنَعْلَمُ مَا تُوَسْوِسُ بِهِ نَفْسُهُ وَنَحْنُ أَقْرَبُ إِلَيْهِ مِنْ حَبْلِ الْوَرِيدِ
10
20
30
40
Human

And indeed We have created man, and We know what his ownself whispers to him. And We are nearer to him than his jugular vein [Qaf 50:16].

14. If we look at verse 77 of Surah Ya-seen (36:77), we will see that Allah says:

23
 أَوَلَمْ يَرَ الْإِنْسَانُ أَنَّا خَلَقْنَاهُ مِنْ نُطْفَةٍ فَإِذَا هُوَ خَصِيمٌ مُبِينٌ
 Sperm 20 10

Doth not man see that it is We Who created him from sperm? yet behold! he (stands forth) as an open adversary! [Ya-Sin 36:77]

In this verse, the word نُطْفَةٍ or 'Nutfah' means sperm and the word 'sperm' is in the 23rd place. And sperm has exactly 23 chromosomes.

15. Verse 37 (18:37) of Surah Ka'haf has the word 'sperm'. From the beginning of this verse to the word 'sperm', the letter 'fa' of (نُطْفَةٍ) is actually found in the 46th place. Sperm contains $46/2 = 23$ chromosomes.

قَالَ لَهُ صَاحِبُهُ وَهُوَ يُحَاوِرُهُ أَكَفَرْتَ بِالَّذِي خَلَقَكَ مِنْ تُرَابٍ
 30 20 10 46
 ثُمَّ مِنْ نُطْفَةٍ ثُمَّ سَوَّاهُ رَجُلًا
 Sperm 40

His companion said to him, in the course of the argument with him: "Dost thou deny Him Who created thee out of dust, then out of a sperm-drop, then fashioned thee into a man? [Al-Kahf 18:37]

16. Verse 11 (35:11) of Surah Fatir has the word 'sperm'. From the beginning of this verse to the word 'sperm', the letter 'fa' of (نُطْفَةٍ) is found in the 23rd place.

23

وَاللَّهُ خَلَقَكُمْ مِّنْ تُرَابٍ ثُمَّ مِنْ نُطْفَةٍ ثُمَّ جَعَلَكُمْ أَزْوَاجًا وَمَا تَحْمِلُ
 مِنْ أَنْثَىٰ وَلَا تَضَعُ إِلَّا بِعِلْمِهِ ۚ وَمَا يُعَمَّرُ مِنْ مُّعَمَّرٍ وَلَا يُنْقَصُ مِنْ
 عُمرِهِ إِلَّا فِي كِتَابٍ إِنَّ ذَٰلِكَ عَلَى اللَّهِ يَسِيرٌ

Sperm 20 10

And Allah did create you from dust; then from a sperm-drop; then He made you in pairs. And no female conceives, or lays down (her load), but with His knowledge. Nor is a man long-lived granted length of days, nor is a part cut off from his life, but is in a Decree (ordained). All this is easy to Allah.

[Fatir 35:11]

16. Verse 67 (40: 67) of Surah Mu'min has the word 'sperm'. From the beginning of this verse to the word 'sperm', the 23rd letter is found with the word 'sperm'.

23

هُوَ الَّذِي خَلَقَكُمْ مِّنْ تُرَابٍ ثُمَّ مِنْ نُطْفَةٍ ثُمَّ مِنْ عَلَقَةٍ ثُمَّ يُخْرِجُكُمْ
 طِفْلًا ثُمَّ لِيَبْلُغُوا أَشُدَّكُمْ ثُمَّ لِتَكُونُوا شُيُوخًا وَمِنْكُمْ مَّنْ
 يُّتَوَفَّىٰ مِنْ قَبْلُ وَلِيَبْلُغُوا أَجَلَ مُّسَمًّى ۚ وَلِعَلَّكُمْ تَعْقِلُونَ

Sperm

It is He Who has created you from dust then from a sperm-drop, then from a leech-like clot; then does he get you out (into the light) as a child: then lets you (grow and) reach your age of full strength; then lets you become old,- though of you there are some who die before;- and lets you reach a Term appointed; in order that ye may learn wisdom. [Mu'min 40:67]

We see that there is a clear relationship between the numbers 23 and 46 and the words 'Human being' and 'sperm' in the holy Quran.

Let's think a little differently to see if the matter is a coincidence.

We all know about prime and composite numbers.

- Prime numbers are those numbers that cannot be divided by any number other than that number. For example 2 is the first prime number. 3 is the second prime number, 5 is the third prime number. They cannot be divided by any other number. (Note that the number 1 is not considered prime or composite).


- Composite numbers are those numbers that can be divided by another whole number. For example 4 is the first composite number. 6 is the second composite number, 8 is the third composite number.

23 is 9th prime number
46 is 31st composite number

Now let us see if any link can be found between the words 'Human being' 'sperm' with 9 and 31.

1. The name of the 76th chapter of the Holy Quran is 'The human' or 'Al Insan' الْإِنْسَانُ. Another name of this surah is 'Ad-Dahar'. There are 31 verses in this sura. And 46 is the 31st composite number.

2. The first and second verses of this surah contain the word 'Human being'. Notice that in the first verse the word man or الْإِنْسَانُ is in the 9th position. That is, there are 8 letters before the word الْإِنْسَانُ or human.



هَلْ أَتَى عَلَى الْإِنْسَانِ حِينٌ مِّنَ الدَّهْرِ لَمْ يَكُن شَيْئًا مَّذْكُورًا
 Human

Has there not been over Man a long period of time, when he was nothing - (not even) mentioned? [Al Insan 76:1]

*** Composite and prime number list are given at pages 45, 46

3. In the same way, in the 2nd verse, the word 'Human being' or الْإِنْسَانُ is in the 9th position. Human chromosome number 23 is the 9th prime number.

9th
إِنَّا خَلَقْنَا الْإِنْسَانَ مِنْ نُطْفَةٍ أَمْشَاجٍ نَبْتَلِيهِ فَجَعَلْنَاهُ سَمِيعًا بَصِيرًا
 Human

Verily We created Man from a drop of mingled sperm, in order to try him: So We gave him (the gifts), of Hearing and Sight. [Al Insan 76:2]

4. The second verse of the surah contains the word 'sperm' (نُطْفَةٍ). Counting the letters from the end of the verse to the word 'sperm', the letter 'ن' is in the 31st position. 46 is the 31st composite number.

31
إِنَّا خَلَقْنَا الْإِنْسَانَ مِنْ نُطْفَةٍ أَمْشَاجٍ نَبْتَلِيهِ فَجَعَلْنَاهُ سَمِيعًا بَصِيرًا
 Sperm

5. The word 'Human being' (الْإِنْسَانُ), as mentioned earlier, appears in verse 1 & 2. If we count the number of letters used (repeated excluded) in these two verses we find them to be 23 unique letters (out of a total of 28 letters of the Arabic alphabet). The 23 letters are:

ص ب ج ف ط ق خ و ذ ش ك ر د م ح س ن ع ي ت ا ل ه

More verses from the Qur'an indicating human chromosome numbers ---

6. Verse 11 (17:11) of Surah Bani-Isra'il mentions the word 'Human being' twice. If we count the letters from the beginning of the verse, we will see that the number 9 is found within 1st first (الْإِنْسَانُ) and the number 31 is found in the second 'Human being' (الْإِنْسَانُ).

31
9
وَيَدْعُ الْإِنْسَانُ بِالشَّرِّ دُعَاءَهُ بِالْخَيْرِ وَكَانَ الْإِنْسَانُ عَجُولًا
 Human Human

7. Verse 36 of Surah Qiyamat speaks of sperm. If you count the letters from the beginning, the last letter of the word sperm or 'semen' (نُطْفَةٌ) is in the 9th place. And 23 is the 9th prime number.

9

أَلَمْ يَكُ نُطْفَةً مِّن مَّنِيٍّ يُمْنِيٍّ

Sperm

Was he not a drop of sperm emitted (in lowly form)? [Al-Qiyamah 75:37]

8. Surah Hud verse 9 (11: 9). From the end of the verse to the word 'Human being', the number 31 is found with the word (الْإِنْسَانَ).

31

وَلَيْنِ أَذَقْنَا الْإِنْسَانَ مِنَّا رَحْمَةً ثُمَّ نَزَعْنَاهَا مِنْهُ إِنَّهُ لَيَكُوفُرُ

Human

10 20

And if We make man taste mercy from Us, then take it off from him, most surely he is despairing, ungrateful. [Hud 11:9]

9. In the Surah Mu'minun, verse 13, the first letter of the word sperm or 'semen' (نُطْفَةٌ) is found in the 9th place.

9

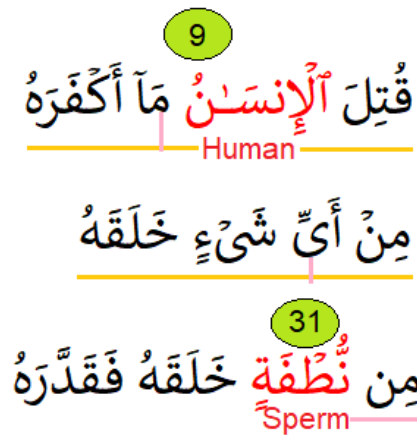
ثُمَّ جَعَلْنَاهُ نُطْفَةً فِي قَرَارٍ مَّكِينٍ

Sperm

Then We placed him as (a drop of) sperm in a place of rest, firmly fixed; [Al-Mu'minun 23:13]

10. Verses 17 to 19 of Surah A'basa contain the words 'Human being' and 'sperm'. The last letter of the word (الإنسن) is found in the 9th place and the second letter of the word 'sperm' (نطفة) is found in the 31st place.

23 is the 9th prime number and 48 is the 31st composite number.



Man is (self-)destroyed: how ungrateful!

From what thing doth He create him?

From a sperm-drop: He hath created him, and then mouldeth him in due proportions;

[Abasa 80:17-19]

11. A verse in Surah Ar-Rahman (Surah 55) has been repeatedly addressed to the Human being and the jinn by the verse: فَبِأَيِّ آلَاءِ رَبِّكُمَا تُكَذِّبَانِ (Which then of the bounties of your Lord will you deny?). And the number of these verses is 31.

In the Holy Qur'an, Allah has repeatedly claimed that the Qur'an is a miracle and that no human or jinn can compose a book like the Qur'an. Finding similarities between the numbers 23, 48, and 9, 31, etc., of the words Human, sperm, etc., is such a miracle, which proves that the Holy Qur'an is definitely a message from God Almighty to mankind.

Apes chromosome number

Apes have 24 pairs or 48 chromosomes in their somatic cells. 48 is the 32nd composite number. [5]

قِرْدَةٌ (Qiradatan) means apes in the Arabic word.

1. The name 'apes' first time appears in chapter 2 (Al-Baqara) in verse 65 (2:65). The amazing fact is that the last letter of the word 'apes' exactly located at 48th position and 48 is the diploid chromosome number of apes.

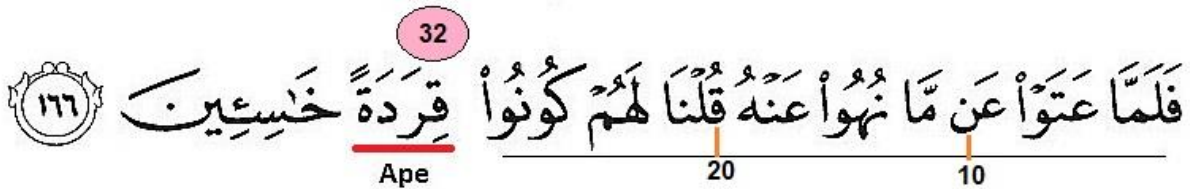
48

And well ye knew those amongst you who transgressed in the matter of the Sabbath: We said to them: "Be ye apes, despised and rejected." (Al-Baqara 65)

2. Next 'apes' appears in chapter Al-Maidah, verse no-60 (5:60). If we count Arabic letters from the last of this verse to the word 'apes', we will see there are exactly 48 letters which are equal to the diploid chromosome number of apes.

Say: "Shall I point out to you something much worse than this, (as judged) by the treatment it received from Allah. those who incurred the curse of Allah and His wrath, those of whom some He transformed into apes and swine, those who worshipped evil; - these are (many times) worse in rank, and far more astray from the even path!" (Al-Maidah 60)

3. The name 'apes' appears in chapter Al-Araf, verse 166 (7:166). The first letter of the word 'apes' located in the 32nd position in the verse. Number 48 is the 32nd composite number.



When in their insolence they transgressed (all) prohibitions, We said to them: "Be ye apes, despised and rejected."

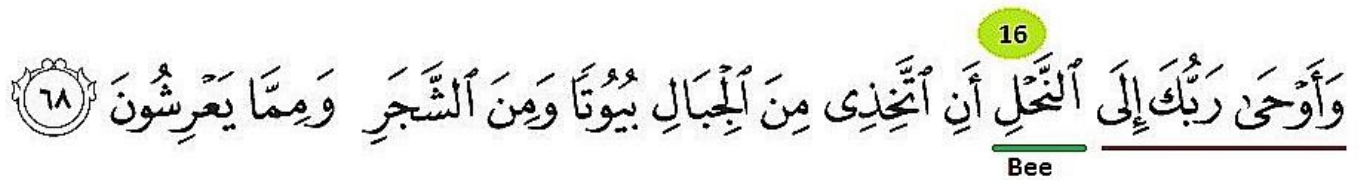
Summary

- Apes have 24 chromosomes in their gametes and 48 chromosomes in their somatic cells.
- In the holy Quran, the name 'apes' appears in three verses. All three verses indicate the ape's chromosome number by the number of letters within the verses.
- The name 'apes' first time appears in chapter 2 (Al-Baqara) in verse 65 (2:65). And the last letter of the word 'apes' exactly located at the 48th position.
- Next 'apes' appears in chapter Al-Maidah, verse no-60 (5:60). There are exactly 48 letters from the last of this verse up to the word 'apes'.
- The name 'apes' appears in chapter Al-Araf, verse no-166 (7:166). The first letter of the word 'apes' located in the 32nd position in the verse and the number 48 is the 32nd composite number.

*** Composite and prime number list given at pages 45, 46

Bee Chromosome number

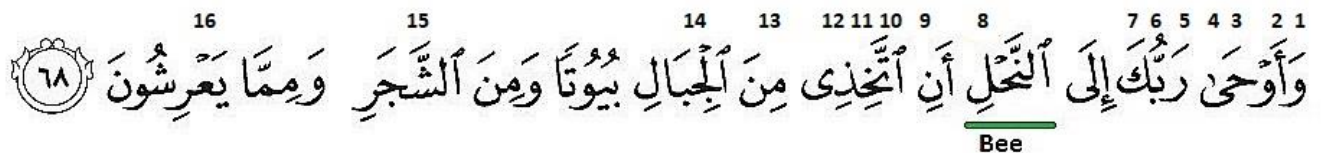
- There are three different types of bees in a beehive. Queen bee, female and worker bee. Queens and workers have 16 pairs or 32 chromosomes. Since drones hatch from unfertilized eggs, they only have the 16 chromosomes that were in the egg. [6] [7]
1. The name of the 16th chapter of the Holy Quran is ' The Bees' (Arabic: النحل, " An-Nahl ") and the bees have 16 pair chromosomes (drones have only 16).
 2. There are 128 verses in this chapter. 128 is divided by both 16 and 32.
 3. The word 'The Bee' first time appears in verse 68. In this verse, the last letter of the word النحل, " An-Nahl " or 'The Bee' is at the 16th position.



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

And thy Lord taught the Bee to build its cells in hills, on trees, and in (men's) habitations;(16:68)

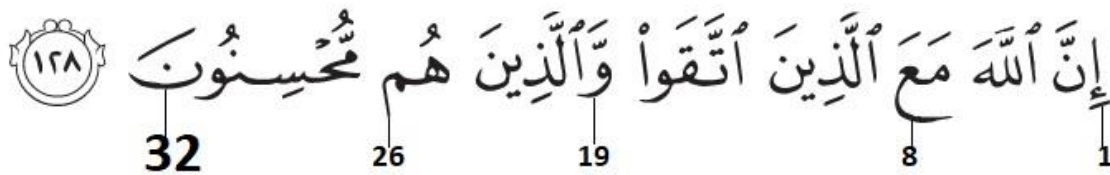
4. The most interesting thing is that there are 16 unique Arabic letters in this verse.



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

(و- ا- ح- ي- ر- ب- ك- ل- ن- ت- خ- ذ- م- ج- ش- ع)

5. There are 32 arabic letters in the last verse of this chapter.



Last verse - Ayat 128.
Letters- 32.
128 is divided by both 16 and 32.

Summary.

- Chromosome number of a drone bee is 16 and 16th chapter of the Holy Quran is 'The Bee'
- The word 'The Bee' appears in verse 68 and counting letters from the beginning of the sentence gives 16 Arabic letters to the end of the word 'The Bee'/ لَنْحَلْ
- There are 16 unique Arabic letters in the same verse.
- The 16th chapter of the Holy Quran has 128 verses which are divided by both 16 and 32.
- The last verse of chapter 'The bee' has 32 letters and 32 is the chromosome number of the queen bee.

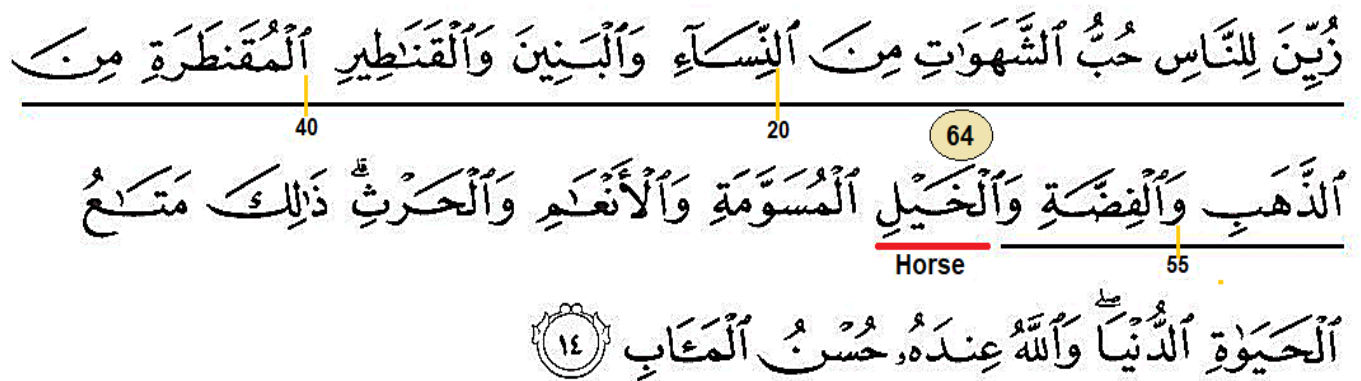
Horse chromosome number

A horse has 32 pairs or 64 diploid chromosomes in its genome. ^[8]

Number 64 is the 45th composite number.

The horse is called خَيْلٍ (Khayl) in the Arabic language.

1. The word 'Horse' appears in chapter 3 (Al-Imran) in verse 14 (3:14). The amazing fact is that the first letter of the word 'Horse' exactly located at 64th position from the beginning of the verse and 64 is the diploid chromosome number of horses.



Fair in the eyes of men is the love of things they covet: Women and sons; Heaped-up hoards of gold and silver; horses branded (for blood and excellence); and (wealth of) cattle and well-tilled land. Such are the possessions of this world's life, but in nearness to Allah is the best of the goals (To return to) (Al-Imran 14).

2. 'Horse' again appears in chapter 8 (Al-Anfal) in verse 60 (8:60). There are exactly 32 letters before the word 'Horse'/ خَيْلٍ and horses have 32 pairs chromosome in their cell.

32
 وَأَعِدُّوا لَهُمْ مَا اسْتَطَعْتُمْ مِنْ قُوَّةٍ وَمِنْ رِبَاطِ الْخَيْلِ
 Horse
 20
 تَرَاهِبُونَ بِهِ، عَدُوَّ اللَّهِ وَعَدُوَّكُمْ وَعَآخِرِينَ مِنْ دُونِهِمْ
 لَا نَعْلَمُونَهُمْ اللَّهُ يَعْلَمُهُمْ وَمَا تُنْفِقُوا مِنْ شَيْءٍ فِي سَبِيلِ
 اللَّهُ يُوفِّ إِلَيْكُمْ وَأَنْتُمْ لَا تُظْلَمُونَ
 60

Make ready for them all thou canst of (armed) force and of horses tethered, that thereby ye may dismay the enemy of Allah and your enemy, and others beside them whom ye know not. Allah knoweth them. Whatsoever ye spend in the way of Allah it will be repaid to you in full, and ye will not be wronged (8:60).

3. In the chapter 16 verse 8 (16:8), Counting the letters from the end of the verse there are 45 letters, including the word خَيْلٍ (Horse) and horse chromosome number 64 is the 45th composite number.

45
 وَالْخَيْلِ وَالْبِغَالِ وَالْحَمِيرِ لِتَرْكَبُوهَا وَزِينَةً وَيَخْلُقُ
 Horse
 20
 مَا لَا تَعْلَمُونَ
 8

And (He has created) horses, mules, and donkeys, for you to ride and use for show; and He has created (other) things of which ye have no knowledge.

Summary

- A horse has 32 pairs or 64 diploid chromosomes. Number 64 is the 45th composite number.
- In the three verses of the Holy Qur'an, Allah has pointed to the chromosomes of the horse.
- First chapter Al-Imran, verse 14 where the first letter of the word 'Horse' exactly located at 64th position from the beginning of the verse.
- Then chapter Al-Anfal verse 60 (8:60) where there are exactly 32 letters before the word 'horse' / خَيْلٌ .
- At the last chapter An-Nahl, verse 8 (16:8). There are 45 letters, including the word 'horse' / خَيْلٌ from the end of this verse.

Swine/ pig chromosome number

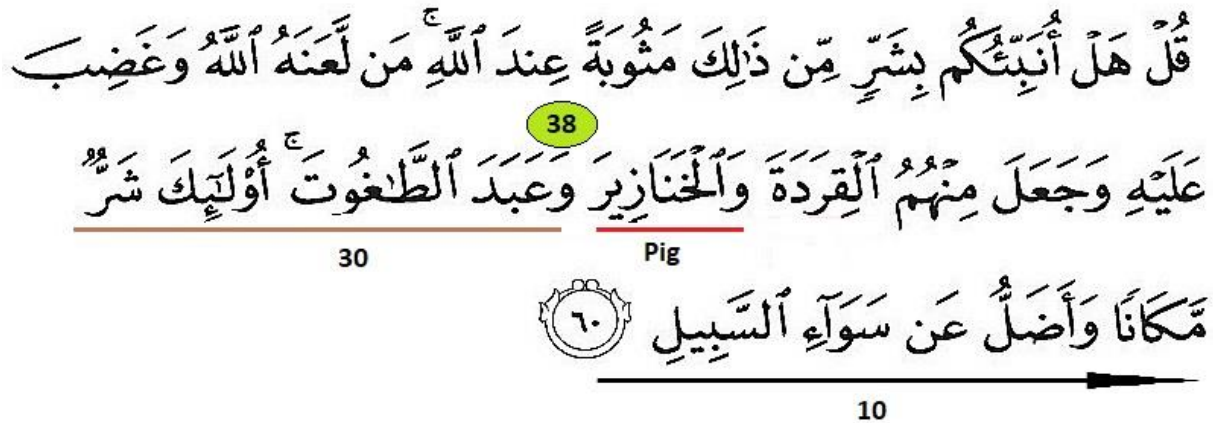
Pigs/swine have 19 pairs or 38 diploid chromosomes. [9] Number 38 is the 25th composite number. In Arabic, pigs are called **الْخِنْزِيرِ** (Al-khinzir).

- The name of swine appears in the 3rd verse of chapter Al-Maidah (5:3). There are exactly 24 letters before the word- **الْخِنْزِيرِ**, that means the word swine are in 25th position and 38 is the 25th composite number.



Forbidden to you (for food) are dead meat, blood, the flesh of swine, and that on which hath been invoked the name of other than Allah. that which hath been killed by strangling, or by a violent blow, or by a headlong fall, or by being gored to death; Al-Maidah (5:3).

2. The name of swine appears in the chapter Al-Maidah verse no- 60 (5:60). There are exactly 38 letters after the word- الخنزير, and the swine chromosome number is 38.



Say: "Shall I point out to you something much worse than this, (as judged) by the treatment it received from Allah. those who incurred the curse of Allah and His wrath, those of whom some He transformed into apes and swine, those who worshipped evil;- these are (many times) worse in rank, and far more astray from the even path!"

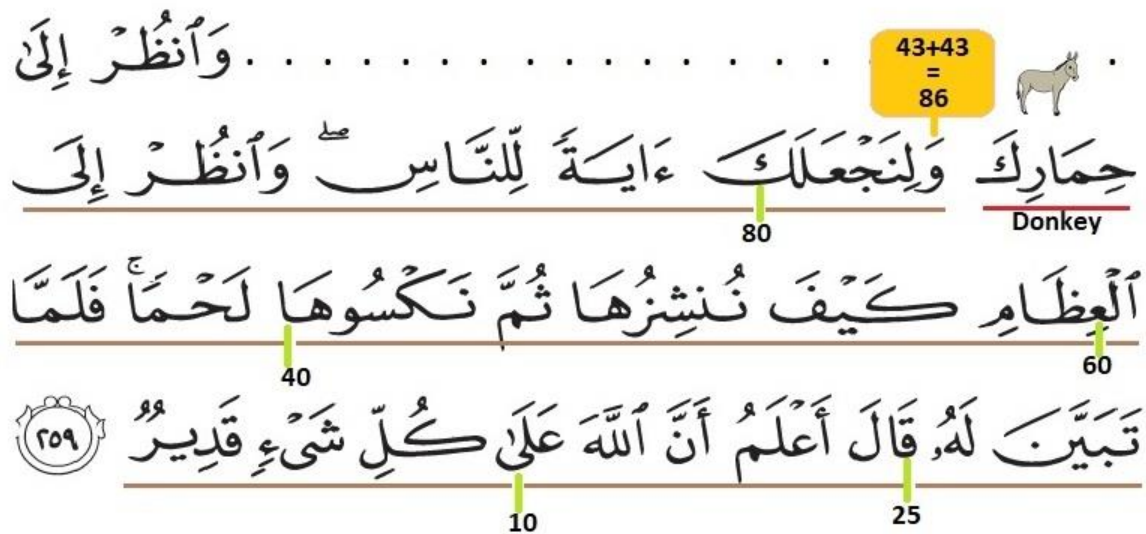
Summary

- Pigs/swine have 19 pairs or 38 diploid chromosomes. Number 38 is the 25th composite number.
- In the 3rd verse of chapter Al-Maidah (5:3) the word swine is in 25th position and 38 is the 25th composite number.
- The name of swine appears in the chapter Al-Maidah verse no- 60 (5:60). There are exactly 38 letters after the word 'swine'- الخنزير.

Donkey chromosome


A donkey has 62 chromosomes. ^[10] Number 62 is the 43rd composite number. The donkey is called **حَمِير** (Himar) in the Arabic language.

1. 'Donkey' appears in verse 259 of chapter Al-Bakarah (2:259). It is a very long verse. After the word 'donkey', there are 86 letters and $43+43=86$. Donkey chromosome number 62 is the 43rd composite number.



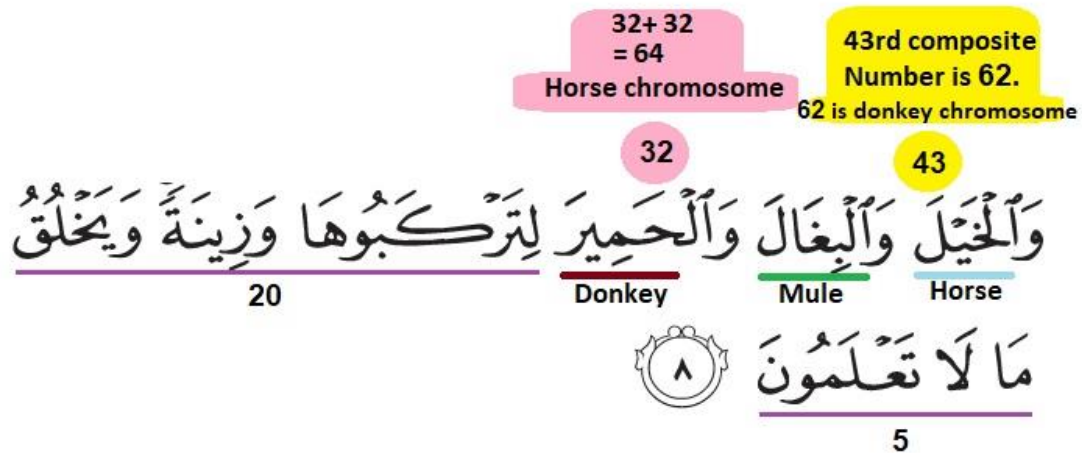
..... He said: "Nay, thou hast tarried thus a hundred years; but look at thy food and thy drink; they show no signs of age; and look at thy donkey: And that We may make of thee a sign unto the people, Look further at the bones, how We bring them together and clothe them with flesh." When this was shown clearly to him, he said: "I know that Allah hath power over all things." Al-Bakarah (2:259).

2. 'Donkey' again appears in verse 5, chapter 62 (Al- Jumuah 62:5). There are exactly 62 letters after the word 'donkey'

مَثَلُ الَّذِينَ حُمِّلُوا التَّوْرَةَ ثُمَّ لَمْ يَحْمِلُوهَا كَمَثَلِ
 62 
 الْحِمَارِ يَحْمِلُ أَثْقَالًا بِئْسَ مَثَلُ الْقَوْمِ الَّذِينَ كَذَّبُوا
 40 50 Donkey
 بِآيَاتِ اللَّهِ وَاللَّهُ لَا يَهْدِي الْقَوْمَ الظَّالِمِينَ
 10 28

The similitude of those who were charged with the (obligations of the) Mosaic Law, but who subsequently failed in those (obligations), is that of a donkey which carries huge tomes (but understands them not). Evil is the similitude of people who falsify the Signs of Allah. and Allah guides not people who do wrong. (Al- Jumuah 62:5)

3. Verse 8 of chapter An-Nahl (16:8) is an amazing verse. In this verse, the name of the horse (وَالْخَيْلِ), mule (وَالْبِغَالِ) and donkey (حَمِيرٍ) appears in chronological order. The mule is a hybrid of a female donkey and a male horse. We see mule in between horse and donkey. If we count the letters from the end of the verse there are 32 letters, including the name of the donkey and $32 \times 2 = 64$ which is the chromosome number of horses. The name of the horse is exactly in 43rd position and donkey chromosome number 62 is the 43rd composite number. That is, keeping the mule in the middle Allah Almighty clearly pointed to the hybrid origin of a mule.



And (He has created) horses, mules, and donkeys, for you to ride and use for show; and He has created (other) things of which ye have no knowledge. An-Nahl (16:8)

Summary

- A donkey has 62 chromosomes. Number 62 is the 43rd composite number.
- The three verses of the Holy Qur'an have been referred to the donkey chromosome number.
- In verse 2:259 there are 86 letters after the word 'donkey' and $43+43= 86$. Donkey chromosome number 62 is the 43rd composite number.
- There are exactly 62 Arabic letters after the word 'donkey' in verse 5 of chapter 62 (Al-Jumuah-5).
- 4. The amazing verse 8 of chapter An-Nahl (16:8), we get a horse chromosome number ($32+32=64$) in the place of donkey and donkey chromosome number (62 is the 43rd composite number) in the place of the horse. keeping a mule in the middle, Allah Almighty clearly pointed to the hybrid origin of the mule.

Dog chromosome number.


Dogs have 39 pairs or 78 diploid chromosomes in their genome. ^[11] Number 78 is the 56th composite number. The dog is called كَلْبُ or كَلْبُهُمْ (Kalbi or Kalbuhum) in the Arabic language.

- The name of the dog appears in verse 176 of chapter Al Araf (7:176). If we count letters from the last of the verse there are exactly 78 Arabic letters, including the word 'dog' (كَلْبُ).

وَلَوْ شِئْنَا لَرَفَعْنَاهُ بِهَا وَلَكِنَّهُ أَخْلَدَ إِلَى الْأَرْضِ وَاتَّبَعَ
 هَوَاهُ فَمَثَلُهُ كَمَثَلِ الْكَلْبِ إِنْ تَحَمَلَ عَلَيْهِ 78
70 Dog
 يَلْهَثُ أَوْ تَرَكَهُ يَلْهَثُ ذَلِكَ مَثَلُ الْقَوْمِ الَّذِينَ
40 50
١٧٦ كَذَّبُوا بِآيَاتِنَا فَأَقْصِصِ الْقَصَصَ لَعَلَّهُمْ يَتَفَكَّرُونَ
20

If it had been Our Will, We should have elevated him with Our signs; but he inclined to the earth, and followed his own vain desires. His similitude is that of a dog: if you attack him, he lolls out his tongue, or if you leave him alone, he (still) lolls out his tongue. That is the similitude of those who reject Our signs; So relate the story; perchance they may reflect.

2. In chapter 18 (Al -Kahf) verse 18 (18:18), if we count the letters from the end of verse there will be 56 letters before the word **كَلْبُهُمْ** (Dog) and dog chromosome number 78 is the 56th composite number.



 وَتَحْسَبُهُمْ آيَاتِنَا ظُحًا وَهُمْ رُقُودٌ وَنُقَلِّبُهُمْ ذَاتَ الْيَمِينِ
 وَذَاتَ الشِّمَالِ وَكَلْبُهُمْ بَسِطٌ ذِرَاعَيْهِ بِالْوَصِيدِ لَوِ
أَطَّلَعَتْ عَلَيْهِمْ لَوَلَّيْتَ مِنْهُمْ فِرَارًا وَلَمُلِئْتَ مِنْهُمْ رُعبًا
50 Dog 30
20 30

Thou wouldst have deemed them awake, whilst they were asleep, and We turned them on their right and on their left sides: their dog stretching forth his two fore-legs on the threshold: if thou hadst come up on to them, thou wouldst have certainly turned back from them in flight and wouldst certainly have been filled with terror of them.

3. The name of the dog appears three times in the same chapter, verse 22 (18:22). There are 39 Arabic letters just before the word 'dog' second times appearing in the verse. Dogs have 39 pairs or 78 chromosomes.

³⁰ سَيَقُولُونَ ثَلَاثَةً رَّابِعُهُمْ كَلْبُهُمْ وَيَقُولُونَ خَمْسَةً
 سَادِسُهُمْ كَلْبُهُمْ رَجْمًا بِالْغَيْبِ وَيَقُولُونَ سَبْعَةً
 وَثَامِنَهُمْ كَلْبُهُمْ قُل رَّبِّي أَعْلَمُ بِعَدَّتِهِمْ مَا يَعْلَمُهُمْ إِلَّا
 قَلِيلٌ فَلَا تُمَارِ فِيهِمْ إِلَّا مِرَاءً ظَهْرًا وَلَا تَسْتَفْتِ فِيهِمْ
 مِنْهُمْ أَحَدًا

(Some) say they were three, the dog being the fourth among them; (others) say they were five, the dog being the sixth, - doubtfully guessing at the unknown; (yet others) say they were seven, the dog being the eighth. Say thou: "My Lord knoweth best their number; It is but few that know their (real case)." Enter not, therefore, into controversies concerning them, except on a matter that is clear, nor consult any of them about (the affair of) the Sleepers.

Summary

- Dogs have 39 pairs or 78 diploid chromosomes in their genome. Number 78 is the 56th composite number.
- Three verses of the Holy Qur'an are indicated the dog's chromosome number.
- In verse 176 of chapter Al Araf (7:176), there are exactly 78 Arabic letters, including the word 'dog' (كَلْبٌ) from the end of the verse.
- In chapter 18 (Al -Kahf) verse 18 (18:18), there are 56 letters before the word كَلْبُهُمْ (Dog) and dog chromosome number 78 is the 56th composite number.
- The name of the dog appears three times in the same chapter, verse 22 (18:22). There are 39 Arabic letters just before the word 'dog' second times appearing in the verse. Dogs have 39 pairs or 78 chromosomes.

Camel chromosome number

Camel has 37 pairs or 74 diploid chromosomes. ^[12] Number 74 is the 52nd composite number. In Arabic, the camels are called **جَمَلٌ** (Jamalu) and she-camel **نَاقَةٌ** (Nakatu).

- The word 'the camel' appears in verse 7 of chapter 40 (Al-Araf 7:40). There are 74 Arabic letters, including **جَمَلٌ** (Jamalu) from the beginning of the verse.

To those who reject Our signs and treat them with arrogance, no opening will there be of the gates of heaven, nor will they enter the garden, until the camel can pass through the eye of the needle: Such is Our reward for those in sin.

2. She-camel is mentioned in the same chapter, verse 77 (7:77). There are 52 letters after the word 'she-camel' نَاقَةٌ(Nakatu) and 74 is the 52nd composite number.

52
فَعَقَرُوا النَّاقَةَ وَعَتَوْا عَنْ أَمْرِ رَبِّهِمْ وَقَالُوا يُصَلِّحُ
40 Camel
٧٧ أَتَيْنَا بِمَا تَعَدُّنَا إِنْ كُنْتَ مِنَ الْمُرْسَلِينَ
10 20

Then they ham-strung the she-camel, and insolently defied the order of their Lord, saying: "O Salih! bring about thy threats, if thou art an apostle (of Allah!)"

3. The word she-camel is located in 37th position from the end of verse 59, chapter 17 (Bani-Israil/ Al-Isra 17:59) and 37 is the haploid chromosome number of the camel.

37
وَمَا مَنَعَنَا أَنْ نُرْسِلَ بِالْآيَاتِ إِلَّا أَنْ كَذَّبَ بِهَا الْأَوَّلُونَ وَعَٰئِنَّا
10 25 Camel
٥٩ ثَمُودَ النَّاقَةَ مُبْصِرَةً فَظَلَمُوا بِهَا وَمَا نُرْسِلُ بِالْآيَاتِ إِلَّا تَخْوِيفًا

And We refrain from sending the signs, only because the men of former generations treated them as false: We sent the she-camel to the Thamud to open their eyes, but they treated her wrongfully: We only send the Signs by way of terror (and warning from evil).

Summary

- Camel has 37 haploid chromosomes and 74 diploid chromosomes. Number 74 is the 52nd composite number.
- The word 'the camel' appears in verse 7 of chapter 40 (Al-Araf 7:40). There are 74 Arabic letters, including جَمَلٌ (Jamalu) from the beginning of the verse.
- She-camel is mentioned in the same chapter, verse 77 (7:77). There are 52 letters after the word 'she-camel' نَاقَةٌ (Nakatu) and 74 is the 52nd composite number.
- The word she-camel is located in 37th position from the last of verse 59, chapter 17 (Bani-Israil/ Al-Isra 17:59) and 37 is the haploid chromosome number of the camel.

Cow chromosome number

Cow has 30 haploid chromosomes and 60 diploid chromosomes (30 pairs). ^[13] Number 60 is the 42nd composite number. In Arabic, the cows are called بَقَرَةٌ (Baqara)

1. The name of the second chapter of the Holy Quran is 'The cow' (Al-Baqarah). Verse 68 of this chapter (2:68) contains the word 'cow'. From the beginning of the verse, there are 42 Arabic letters to the letter ج of the word بَقَرَةٌ. Cow chromosome number 60 is the 42nd composite number.

42 30 15
 قَالُوا ادْعُ لَنَا رَبَّكَ يُبَيِّنْ لَنَا مَا هِيَ قَالَ إِنَّهُ يَقُولُ إِنَّهَا بَقَرَةٌ لَا فَارِضٌ
COW
 وَلَا يَكْرُ عَوَانٌ بَيْنَ ذَلِكَ فَافْعَلُوا مَا تُؤْمَرُونَ
68

They said, “Call upon your Lord to clarify for us what type of cow it should be!” He replied, “Allah says, ‘The cow should neither be old nor young but in between. So do as you are commanded!’”

2. The word 'cow' appears in verse 69 of this same chapter (2:69). There are exactly 42 letters before the word 'cow' and 60 is the 42nd composite number.

قَالُوا ادْعُ لَنَا رَبَّكَ يُبَيِّنْ لَنَا مَا لَوْنُهَا قَالَ إِنَّهُ يَقُولُ
 إِنَّهَا بَقَرَةٌ صَفْرَاءُ فَاقِعٌ لَوْنُهَا تَسُرُّ النَّاظِرِينَ

42
 Cow

They said, “Call upon your Lord to specify for us its color.” He replied, “Allah says, ‘It should be a bright yellow cow—pleasant to see.’”

3. In the same chapter Al-Baqarah, in verse 70 the word 'cow' is located in the 30th position from the last of the verse. The cow has 30 pairs or 60 of chromosomes.

قَالُوا ادْعُ لَنَا رَبَّكَ يُبَيِّنْ لَنَا مَا هِيَ إِنَّ الْبَقَرَ تَشَبَهَ عَلَيْنَا وَإِنَّا
 إِن شَاءَ اللَّهُ لَمُهْتَدُونَ

30
 Cow
 10

Again they said, “Call upon your Lord so that He may make clear to us which cow, for all cows look the same to us. Then, Allah willing, we will be guided ‘to the right one’”.

4. In verse 71 of chapter Al-Baqarah (2:71) 'Cow' is located in 15th position from the beginning of the verse and $15 \times 2 \times 2 = 60$ equal to chromosome number of cows.

15x2=30
 قَالَ إِنَّهُ يَقُولُ إِنَّهَا بَقَرَةٌ لَا ذَلُولٌ تُثِيرُ الْأَرْضَ وَلَا تَسْقِي
Cow
 الْحَرْثَ مُسَلَّمَةٌ لَا شِيَةَ فِيهَا قَالُوا الْكَنَ جِئْتَ بِالْحَقِّ
٧١
 فَذَبَحُوهَا وَمَا كَادُوا يَفْعَلُونَ

He said: "He says: A heifer not trained to till the soil or water the fields; sound and without blemish."
 They said: "Now hast thou brought the truth." Then they offered her in sacrifice, but not with good-will.

Summary

- Cow has 30 haploid chromosomes and 60 diploid chromosomes. Number 60 is the 42nd composite number.
- The name of the second chapter of the Holy Quran is 'The cow' (Al-Baqarah).
- In verse 68 of this chapter, there are 42 letters to the letter ر of the word بَقَرَةٌ . Cow chromosome number 60 is the 42nd composite number.
- In verse 69 of this same chapter (2:69). There are exactly 42 letters before the word 'cow' and 60 is the 42nd composite number.
- In verse 70 the word 'cow' is located in the 30th position from the last of the verse. Cow has 30 pairs of chromosome.
- In verse 71 of chapter Al-Baqarah (2:71) 'Cow' is located in 15th position from the beginning of the verse and $15 \times 2 \times 2 = 60$ equal to the chromosome number of cows.

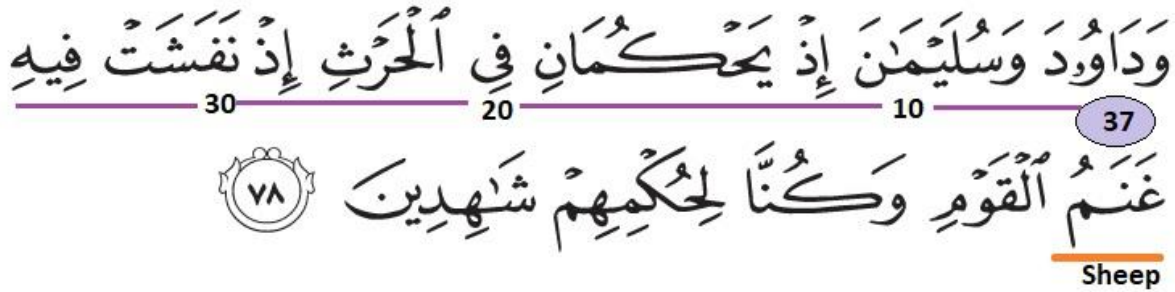
Sheep chromosome number

Sheep genome has 27 pairs or 54 diploid chromosomes. ^[14] Number 54 is the 37th composite number. In Arabic, the sheep are called غنم (Ghanami).

1. The word 'sheep' appears in verse 146 of chapter Al-Anam (6:146). There are exactly 37 letters before the word 'sheep' غنم and sheep chromosome number 54 is the 37th composite number.

Unto those who are Jews, We forbade every animal with claws. And of the oxen and the sheep forbade We unto them the fat thereof save that upon the backs or the entrails, or that which is mixed with the bone. That We awarded them for their rebellion. And lo! We verily are Truthful. Al-Anam (6:146).

2. In chapter Al-Anbia, in verse 78 (21:78) there are 37 Arabic letters to the middle of the word غَنَم and sheep chromosome number 54 is the 37th composite number.



And remember David and Solomon when they gave judgment in the matter of the field into which the sheep of certain people had strayed by night: We did witness their judgment. Al-Anbia, (21:78)

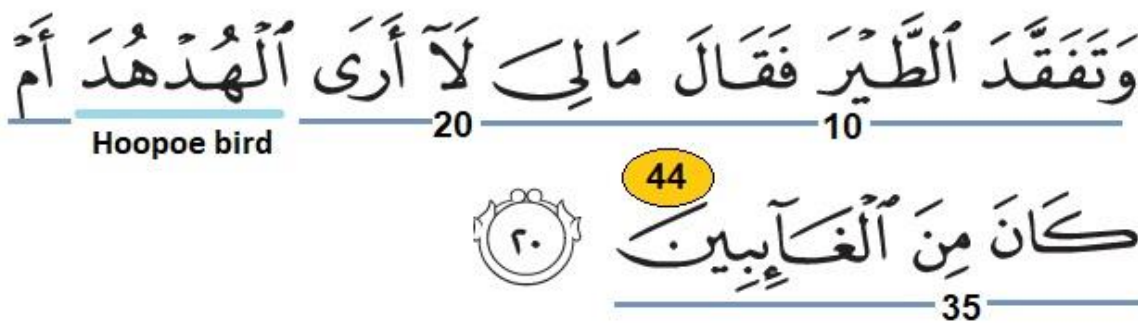
Summery

- Sheep genome has 27 pairs 54 diploid chromosomes. Number 54 is the 37th composite number.
- There are exactly 37 letters before the word 'sheep' غَنَم in verse 146 of chapter Al-Anam (6:146).
- In chapter Al-Anbia, in verse 78 (21:78) there are 37 Arabic letters to the middle of the word غَنَم (sheep)

Hoopoe bird chromosome number

Among the birds, hoopoe birds have the highest chromosome numbers. ^[15] There are 63 pairs or 126 diploid chromosomes in the Hoopoe bird cell. Number 63 is the 44th composite number. In Arabic, the Hoopoe birds are called **نَهْدُهُدٌ** (Hudhuda).

1. The word 'Hoopoe bird' appears in verse 20 of chapter Al-Naml (27:20). There are exactly 44 letters in this verse and Hoopoe birds have 63 pairs (63x2= 126) chromosomes in their cell and 63 is the 44th composite number.



And he took a muster of the Birds; and he said: "Why is it I see not the Hoopoe? Or is he among the absentees? Al-Naml (27:20).

Summary

We can see that the Holy Quran repeatedly matches the chromosome number of different animals, by the number of Arabic letters, in the same pattern. Incidentally this can happen once or twice, but not again and again. Chromosome numbers are specific for each animal. It is a miracle that the Holy Quran has been pointed out towards the chromosomes of animals. And this miracle is one of the proofs that the Quran has been sent down by almighty Allah for mankind.

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Composite number list ^[16]

1 st composite number	4	29 th composite number	44
2 nd composite number	6	30 th composite number	45
3 rd composite number	8	31 st composite number	46
4 th composite number	9	32 nd composite number	48
5 th composite number	10	33 rd composite number	49
6 th composite number	12	34 th composite number	50
7 th composite number	14	35 th composite number	51
8 th composite number	15	36 th composite number	52
9 th composite number	16	37 th composite number	54
10 th composite number	18	38 th composite number	55
11 th composite number	20	39 th composite number	56
12 th composite number	21	40 th composite number	57
13 th composite number	22	41 st composite number	58
14 th composite number	24	42 nd composite number	60
15 th composite number	25	43 rd composite number	62
16 th composite number	26	44 th composite number	63
17 th composite number	27	45 th composite number	64
18 th composite number	28	46 th composite number	65
19 th composite number	30	47 th composite number	66
20 th composite number	32	48 th composite number	68
21 st composite number	33	49 th composite number	69
22 nd composite number	34	50 th composite number	70
23 rd composite number	35	51 st composite number	72
24 th composite number	36	52 nd composite number	74
25 th composite number	38	53 rd composite number	75
26 th composite number	39	54 th composite number	76
27 th composite number	40	55 th composite number	77
28 th composite number	42	56 th composite number	78
		57 th composite number	80

Prime number list ^[17]

1 st prime number	2
2 nd prime number	3
3 rd prime number	5
4 th prime number	7
5 th prime number	11
6 th prime number	13
7 th prime number	17
8 th prime number	19
9 th prime number	23
10 th prime number	29
11 th prime number	31
12 th prime number	37
13 th prime number	41
14 th prime number	43
15 th prime number	47
16 th prime number	53
17 th prime number	59
18 th prime number	61
19 th prime number	67
20 th prime number	71
21 st prime number	73
22 nd prime number	79
23 rd prime number	83
24 th prime number	89

Reference links.

1. <https://www.ncbi.nlm.nih.gov/books/NBK115545/>
2. <https://www.urmc.rochester.edu/encyclopedia/content.aspx?contenttypeid=90&contentid=P02138>
3. https://ipfs.io/ipfs/QmXoyvizjW3WknFiJnKLwHCnL72vedxjQkDDP1mXWo6uco/wiki/List_of_org_anisms_by_chromosome_count.html#cite_note-Canids-23
4. <https://ghr.nlm.nih.gov/primer/basics/howmanychromosomes>
5. https://www.mun.ca/biology/scarr/Human_Ape_chromosomes.htm
6. <http://www.killowen.com/genetics6.html>
7. <http://www.glenn-apiaries.com/principles.html>
8. <https://socratic.org/questions/the-diploid-number-of-chromosomes-in-horses-is-64-what-is-the-haploid-number-of->
9. <http://livestocktrail.illinois.edu/porknet/questiondisplay.cfm?contentid=3791>
10. <https://genetics.thetech.org/ask/ask225>
11. <https://www.bioexplorer.net/dog-chromosomes.html/>
12. <https://en.wikipedia.org/wiki/Camel#Genetics>
13. <https://www.sciencedirect.com/sdfe/pdf/download/eid/1-s2.0-B9780120392346500070/first-page-pdf>
14. <https://onlinelibrary.wiley.com/doi/pdf/10.1111/j.1601-5223.1973.tb01164.x>
15. <https://www.sciencedirect.com/topics/biochemistry-genetics-and-molecular-biology/microchromosome>
16. <https://www.splashmath.com/math-vocabulary/algebra/composite-number>
17. <https://byjus.com/maths/prime-numbers/>