

Ancient Wisdom and the Fifth Industrial Revolution

By Fernando Castro-Chavez



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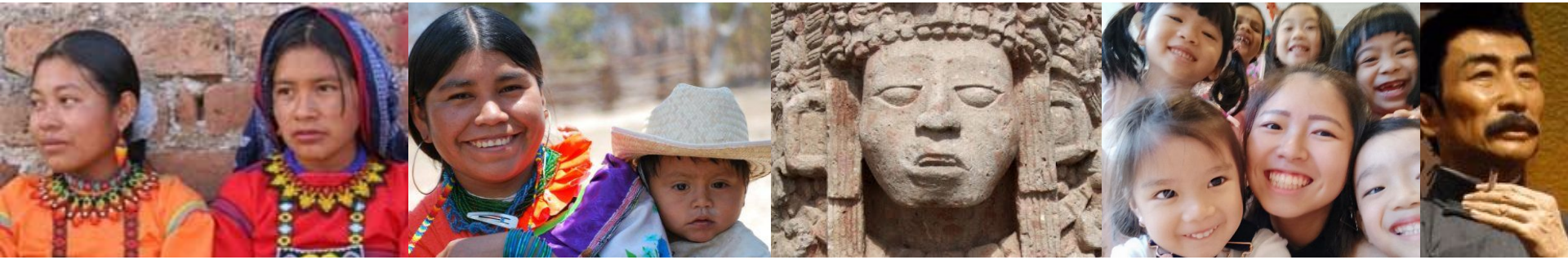
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I am Fernando Castro-Chavez, born in Guadalajara, MX, educated to serve, from BSc to PhD: In Agricultural Engineering, Animal Science,

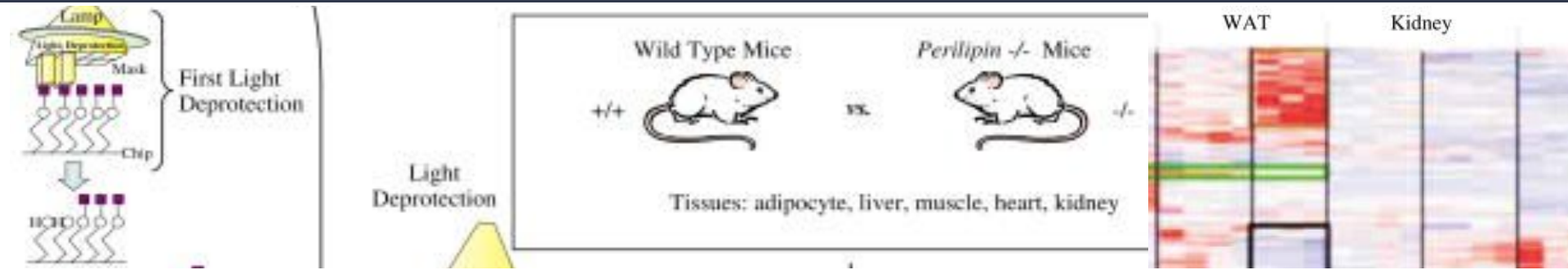
Biotechnology and Molecular Biology. I arrived to the USA with a letter of recommendation from my PhD Director to an established researcher in the Baylor College of Medicine, at Houston, TX.

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In Mexico, I was researching the genes that produce the enzymes processing alcohol: ADH, ALDH and CYP450, finding that the genes of the native tribes from Mexico, are a perfect match of the Asian genes from China, both nations vulnerable to the alcohol.

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In the USA, I did research against obesity, deleting the gene that produces the fat-storage protein structure Perilipin (“*Surrounders of fats*”), with that alteration the mice never got obese, no matter how much fat and carbohydrates they ate!

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US National Library of Medicine
National Institutes of Health

PubMed ▼

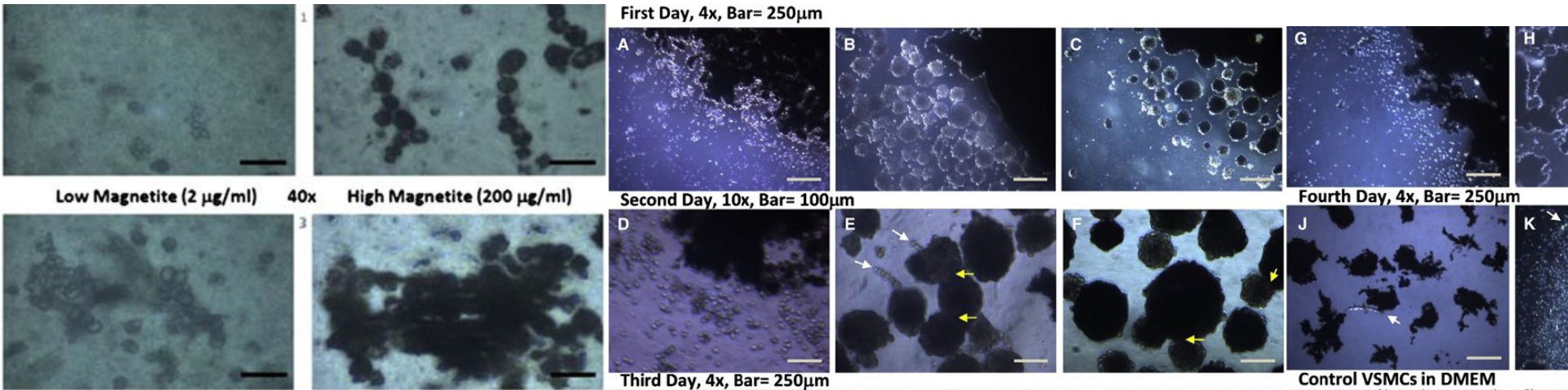
"Castro-Chavez F"

Create RSS Create

<https://www.ncbi.nlm.nih.gov/pubmed?term=%22Castro-Chavez%20F%22>

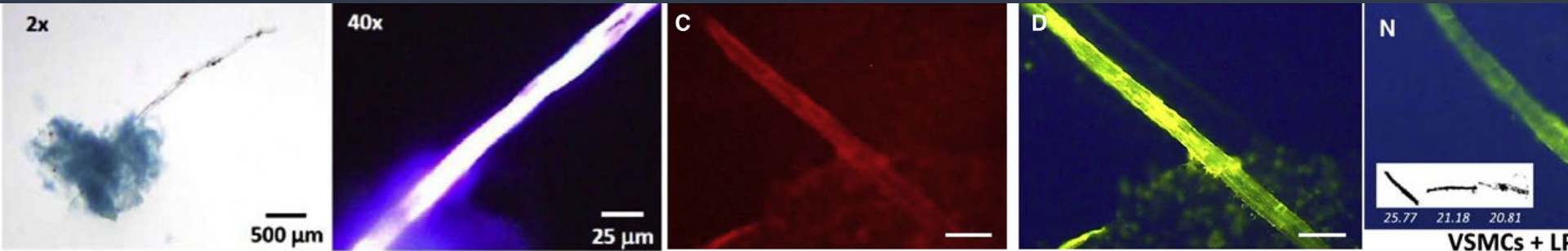
Now, my current research is preserved in the PubMed of the NIH for everybody to read it in full due to the grants received from them; fdocc@yahoo.com

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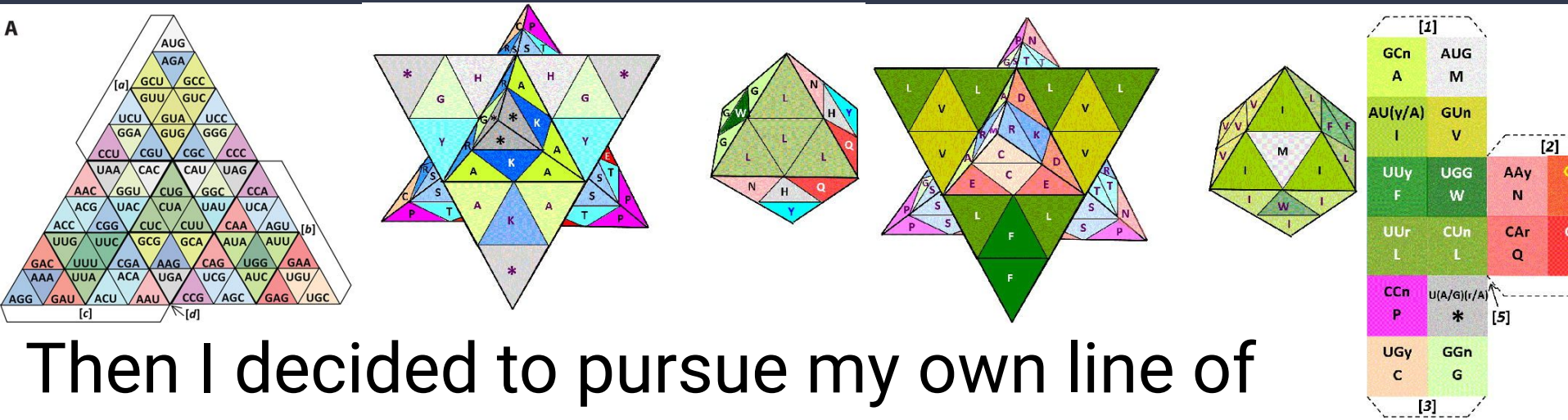
Then, I researched atherosclerosis in 3-D by feeding human cells with iron and putting a magnet on the top of the petri dishes.

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Discovering that the LPC was the real culprit of the calcification of the carotids as a defense mechanism of the cells, preventing them to burst apart by the detergent effect of the detached substance coming out of the surface of the LDL.

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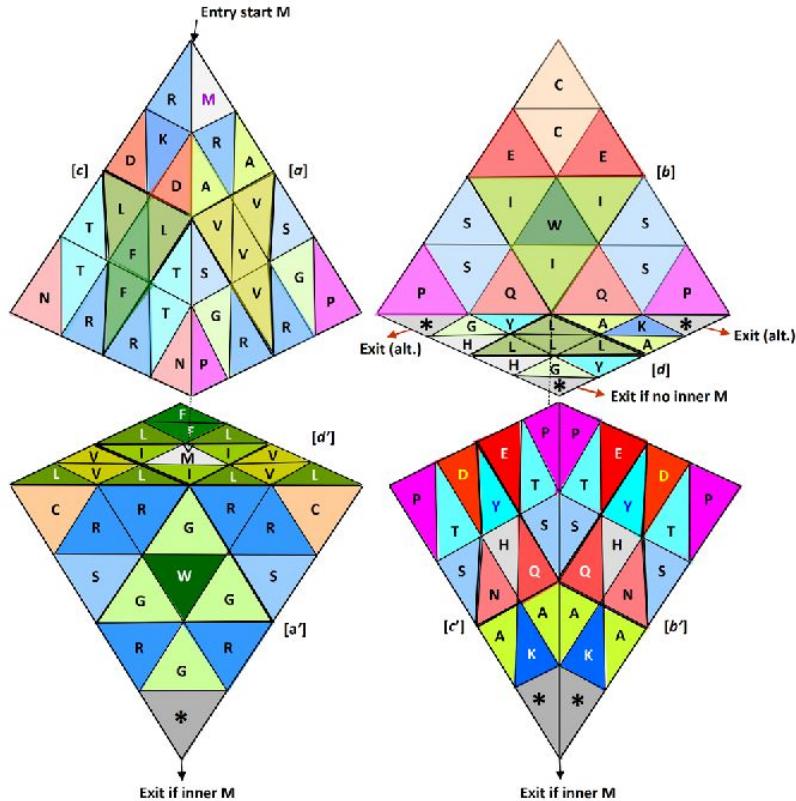


Then I decided to pursue my own line of independent research in the 3-D structures to represent the perfection of the standard or human Genetic Code!

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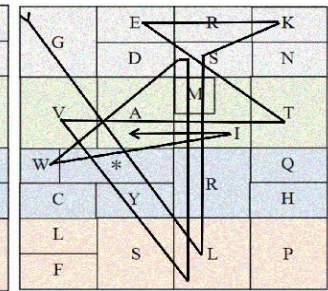
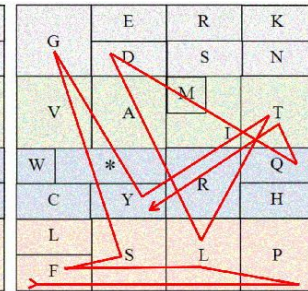
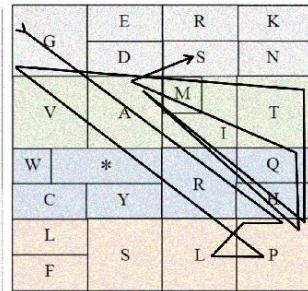
This research will help in the educational understanding of the mathematical perfection of the Genetic Code, which is able to adapt to the most diverse geometries.

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GGG	GGA	GAG	GAA	AGG	AGA	AAG	AAA
GGT	GGC	GAT	GAC	AGT	AGC	AAT	AAC
GTG	GTG	GCG	GCA	ATG	ATA	ACG	ACA
GTC	GTC	GCC	GCC	ATC	ATC	ACT	ACC
TGG	TGA	TAG	TAA	TGG	TGA	CAG	CAA
TGT	TGC	TAT	TAC	TGT	TGC	CAT	CAC
TTG	TTA	TGG	TEA	CTG	CTA	CCG	CCA
TTT	TTC	TCT	TCC	CTT	CTC	CCT	CCC

AAA	AAU	AUA	AUU	UAA	UAU	UUA	UUU
AAG	AAC	AUG	AUC	UAG	UAC	UUG	UUC
AGA	AGU	ACA	ACU	UGA	UGU	UCA	UCU
AGG	AGC	ACG	ACC	UGG	UGC	UCG	UCC
GAA	GAU	GUA	GUU	CAA	CAU	CUA	CUU
GAG	GAC	GUG	GUC	CAG	CAC	CUG	CUC
GGA	GGU	GCA	GCU	CGA	CGU	CCA	CCU
GGG	GGC	GCG	GCC	CGG	CGC	CCG	CCC

GGG	GGA	GAG	GAA	AGG	AGA	AAG	AAA
GGT	GGC	GAT	GAC	AGT	AGC	AAT	AAC
GTS	GTG	GCG	GCA	ATG	ATA	ACG	ACA
GTT	GTC	GCT	GCC	ATC	ATC	ACT	ACC
TCC	TCA	TAG	TAA	CGG	CGA	CAG	CAA
TGT	TGC	TAT	TAC	CGT	CGC	CAT	CAC
TTG	TTA	TGG	TGA	CTG	CTA	CCG	CCA
TTT	TTC	TCT	TCC	CTT	CTC	CCT	CCC

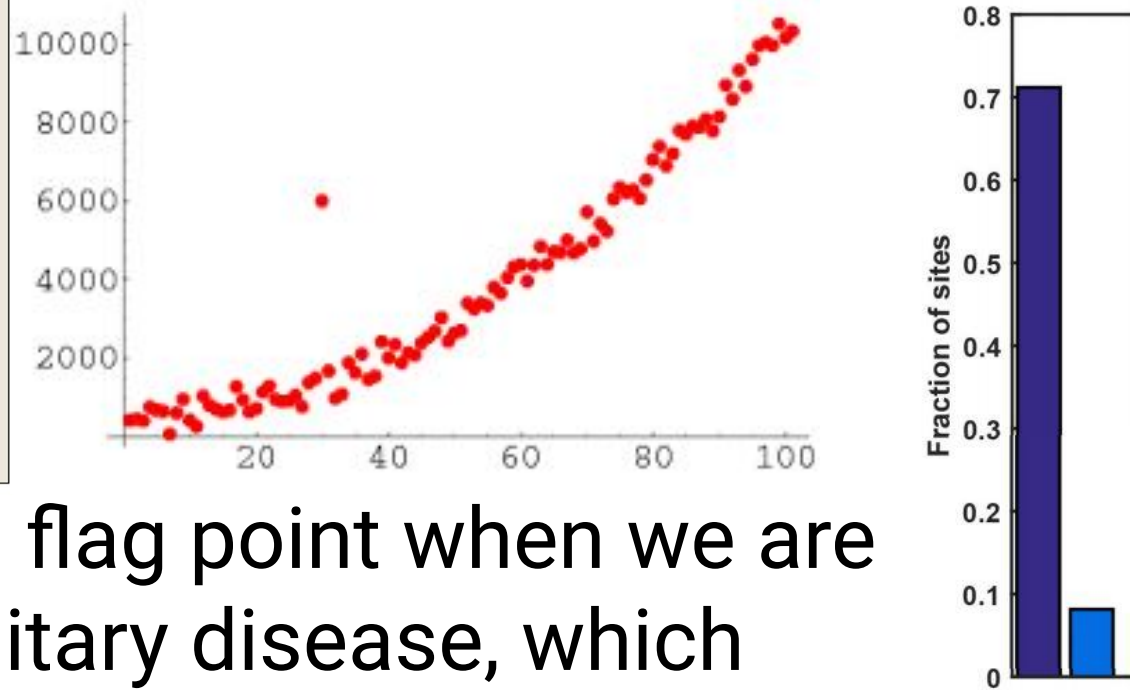
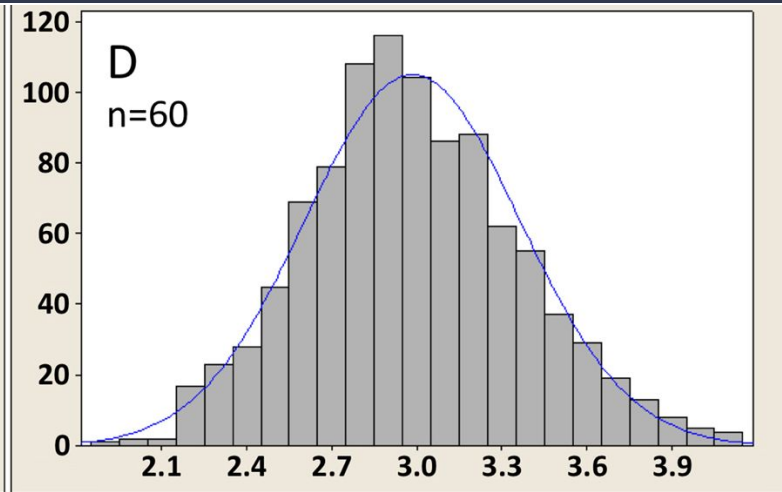


SOLH Human Protein Sequence: GPPLPGTPAPQAS

Corresponding Neanderthal Sequence: FPLFSGYLDQTY CADP52 Human Protein Sequence: GISKFTV15SWIA

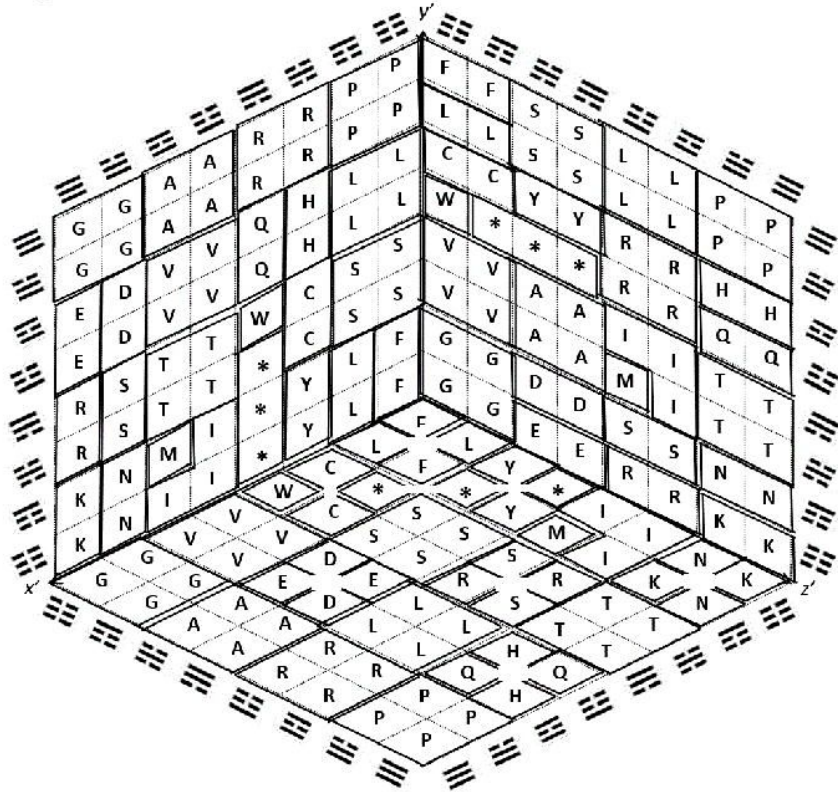
Bioinformatics will also benefit, because when comparing sequences it will no more be an abstract and a cold process, but an actual visual of the rotational tracking of each codon through the geometries representing the Genetic Code.

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Reaching a stall, red flag point when we are dealing with a hereditary disease, which mathematically or statistically will be an outlier!

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I got a better understanding of the Genetic Code by studying the I Ching preserved in China, having six possible sets of combinations, and each cell consisting of $3 + 3 \text{ lines} = 6$.

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Having the 64 codons a perfect complementary double helix, starting with the opposite diagonal extremes, meaning the upper left pairing with the lower right and from there, cell to cell.

	000	001	010	011	100	101	110	111
000	UUU = F	UUC = F	UCU = S	UCC = S	CUU = L	CUC = L	CCU = P	CCC = P
001	UUA = L	UUG = L	UCA = S	UCG = S	CUA = L	CUG = L	CCA = P	CCG = P
010	UAU = Y	UAC = Y	UGU = C	UGC = C	CAU = H	CAC = H	CGU = R	CGC = R
011	UAA = *	UAG = *	UGA = *	UGG = W	CAA = Q	CAG = Q	CGA = R	CGG = R
100	AUU = I	AUC = I	ACU = T	ACC = T	GUU = V	GUC = V	GCU = A	GCC = A
101	AUA = I	AUG = M	ACA = T	ACG = T	GUA = V	GUG = V	GCA = A	GCG = A
110	AAU = N	AAC = N	AGU = S	AGC = S	GAU = D	GAC = D	GGU = G	GGC = G
111	AAA = K	AAG = K	AGA = R	AGG = R	GAA = E	GAG = E	GGA = G	GGG = G

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<https://www.youtube.com/watch?v=0aacCShsmWo>

Until reaching
the center in
the opposite
directions to
integrate the
double helix!!!



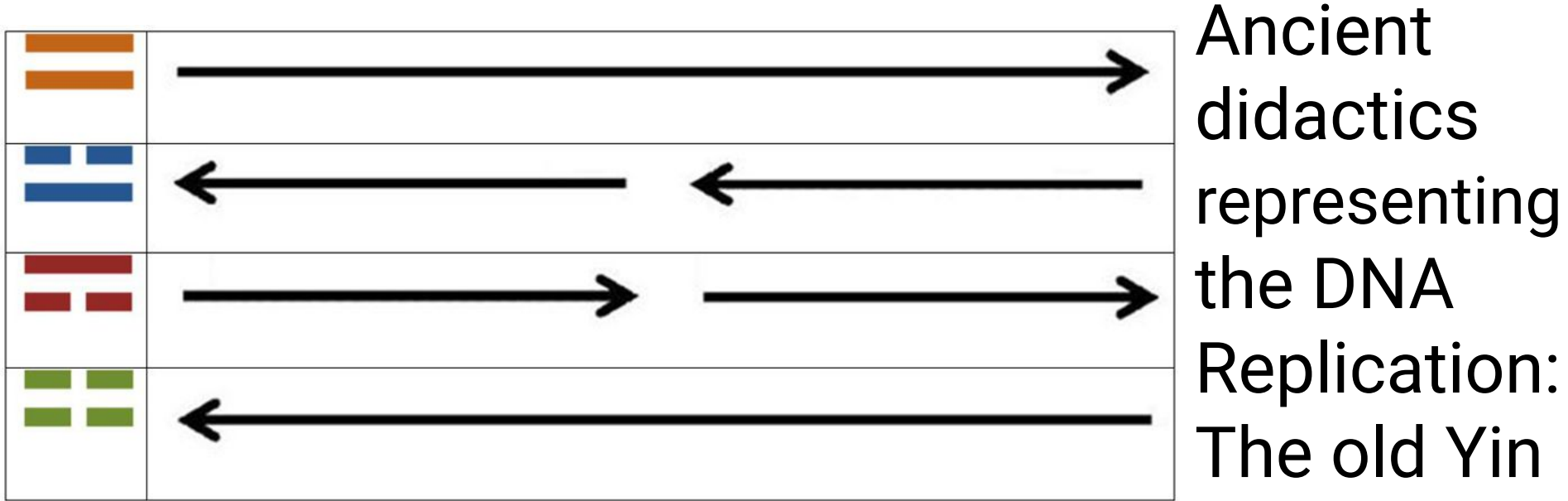
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<https://www.youtube.com/watch?v=Hgr0Rqho5bA>



Pairing them one by one in a perfect match!!!

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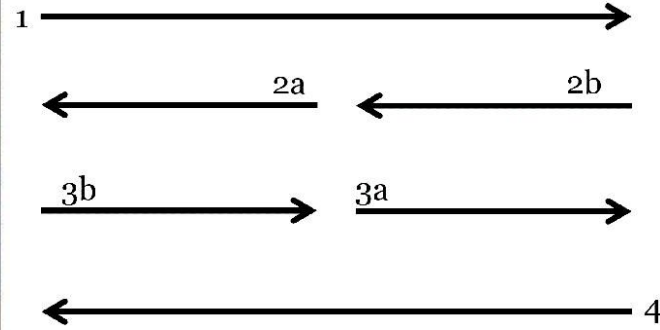


continuous line (# "one" in I Ching binary) pairing to the new Yang broken line (# "zero" in I Ching).

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F	S		L	P
L	S		L	P
Y	C	II	R	
*		W		Q
I	T		V	A
M		T	V	A
N	S	D	G	
K	R	E		

G	E	R	K
G	D	S	N
V	A	M	T
		I	
W	*		Q
C	Y	R	H
L	S	L	P
F	S	L	P



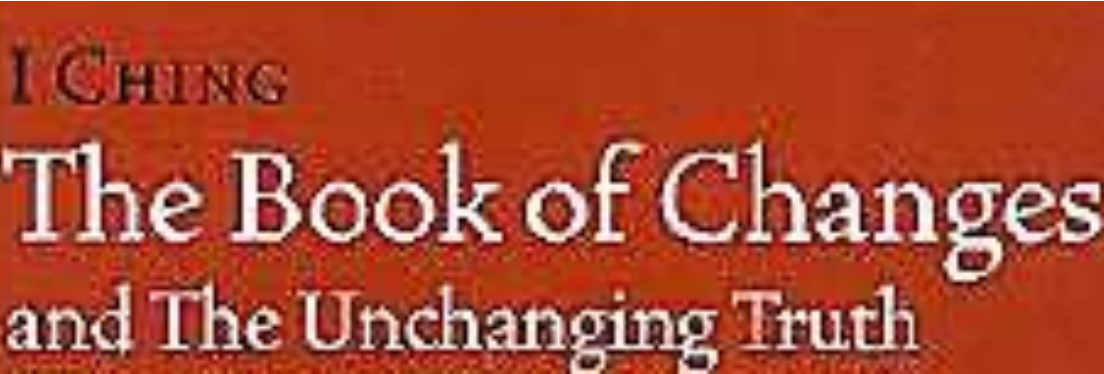
And then, the new Yin (again a “zero”) pairing to the old Yang (again a “one”): making a 1:0:0:1.

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Even the most ancient representations of the reputed inventors of the I Ching: Fuxi & Nuwa indicate that it is related to the Genetic Code & DNA!!!

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Also the alternative names of the I Ching are biologically related to genes, as it is also called: “The Book of Changes” or “The Book of Mutations”, being both genetic terminologies!

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The Mayan numbers were vigesimal, including the zero!!! Also evocative of amino acids!!!

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TTT F	AAA K	TAT Y	ATA I	CTG L	TIG L	CTC L	TTC F
CTT L	GAA E	CAT H	GTA V	GAC D	AAC N	GAG E	AAG K
TTA L	AAT N	TAA *	ATT I	CAG Q	TAG *	CAC H	TAC V
CTA L	GAT D	CAA Q	GTT V	GTC V	ATC I	GTG V	ATG 'M
CCA P	GGT G	CGA R	GCT A	GCC A	ACC T	GCG A	ACG T
TCA S	AGT S	TGA *	ACT T	CGG R	TGG W	CGC R	TGC C
CCT P	GGA G	CGT R	GCA A	GGC G	AGC S	GGG G	AGG R
TCT S	AGA R	TGT C	ACA T	CCG P	TCG S	CCU P	TCC S



Fig. 125.

LEADEN IDOL OF ARTEMIS NANA OF CHALDEA, WITH SWASTIKA.*

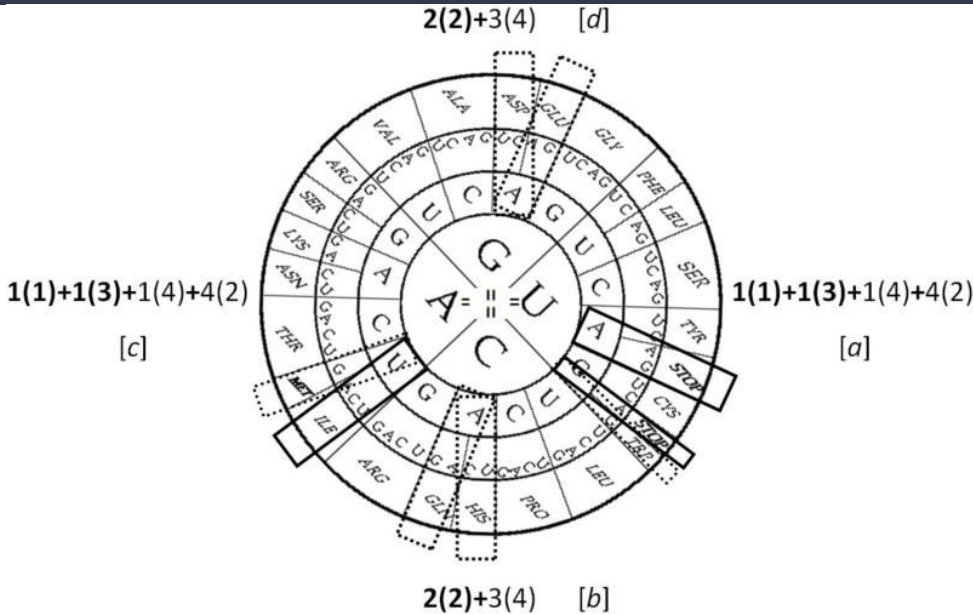


India, Troy, South America..., indicate that the “Swastica” was a symbol of fertility & of life!

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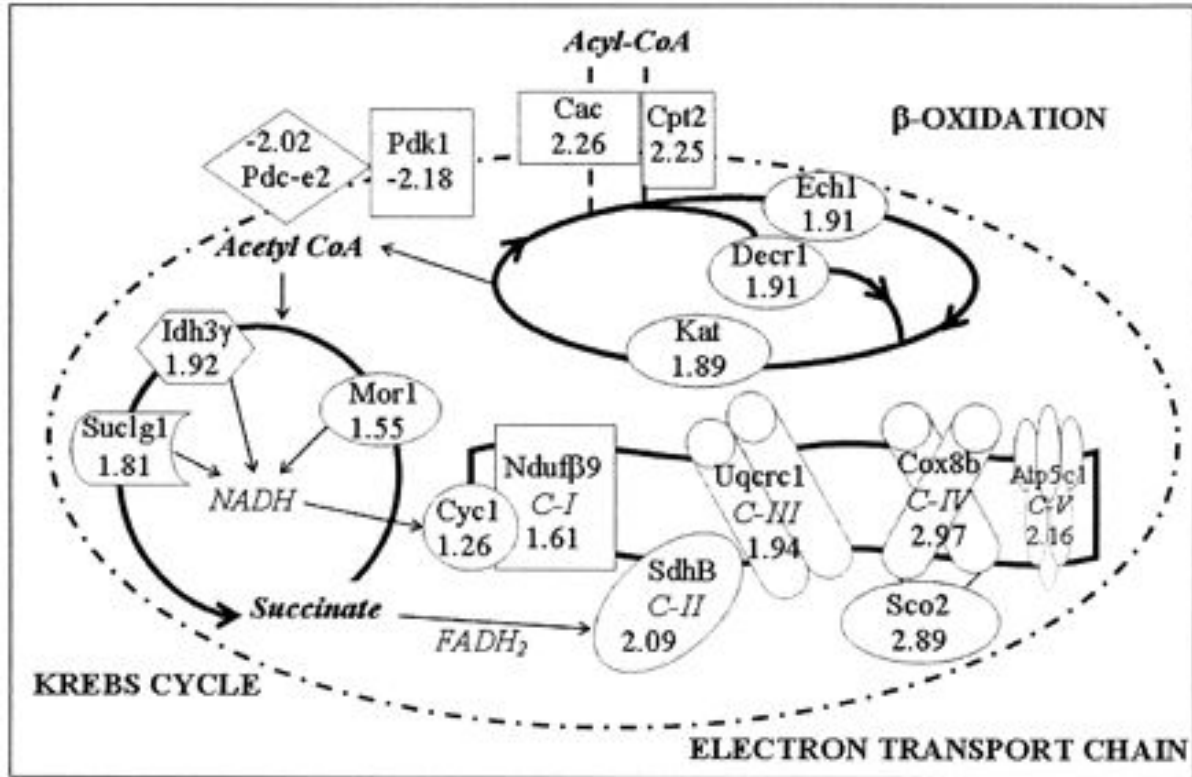
Mathematics is and always has been a very hard topic, both to learn and to teach; however, by using multiple real examples

for each equation and of the geometries involved, I have been able to have a better understanding...

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First research published in USA, a team work on the microarrays of 5 mice tissues on Antiobesity at the BCM.

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First personal research published:
An analysis of the patterns of the circular genetic code representation, such as hydrophobic amino acids every 90 deg.

Rule 1. Same position in the four quadrants for essential hydrophobic codons (U at the center)

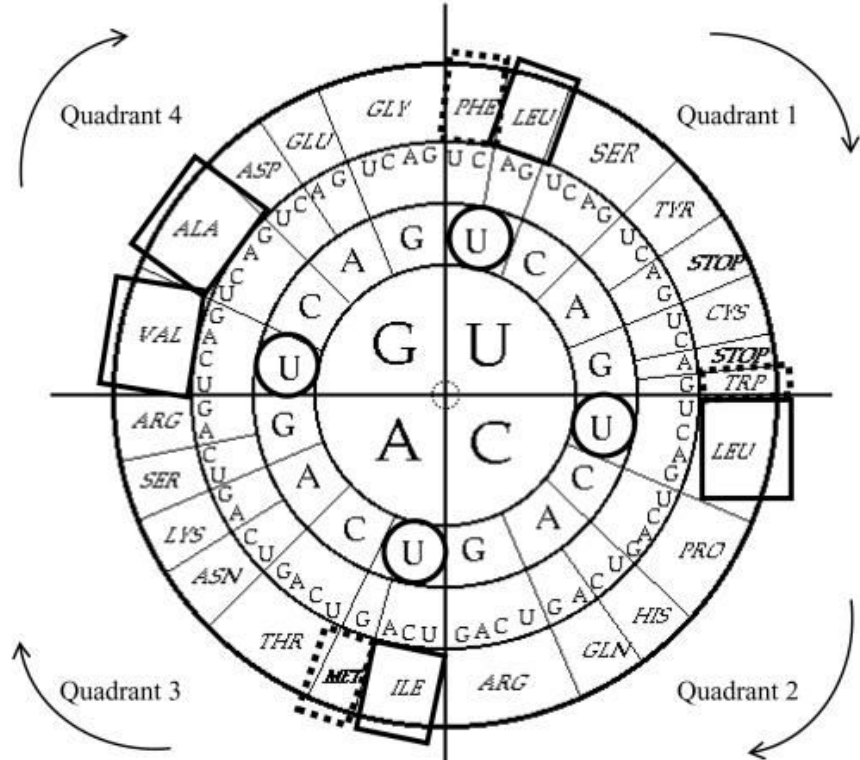


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I liked biology since my childhood, when I used to go to the fields near my house to collect butterflies and amphibians,

to finally get to work with mice as my preceptors of the importance of genes and their functions!!!

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Genesis 1:1

Westminster Leningrad Codex

בראשית ברא אלהים את השמים ואת הארץ:

WLC (Consonants Only)

בראשית ברא אלהים את השמים ואת הארץ:


Aleppo Codex

א בראשית ברא אלהים את השמים ואת הארץ

--הברו (כ)
-אניהו-
-ר יה (ו)
--בעה-
-שיברכ
יהוה ו
(י) שמרכ
יאר יה
(יה) פניו
(אל) יכ וי
שמ לך ש
לו (מ) --

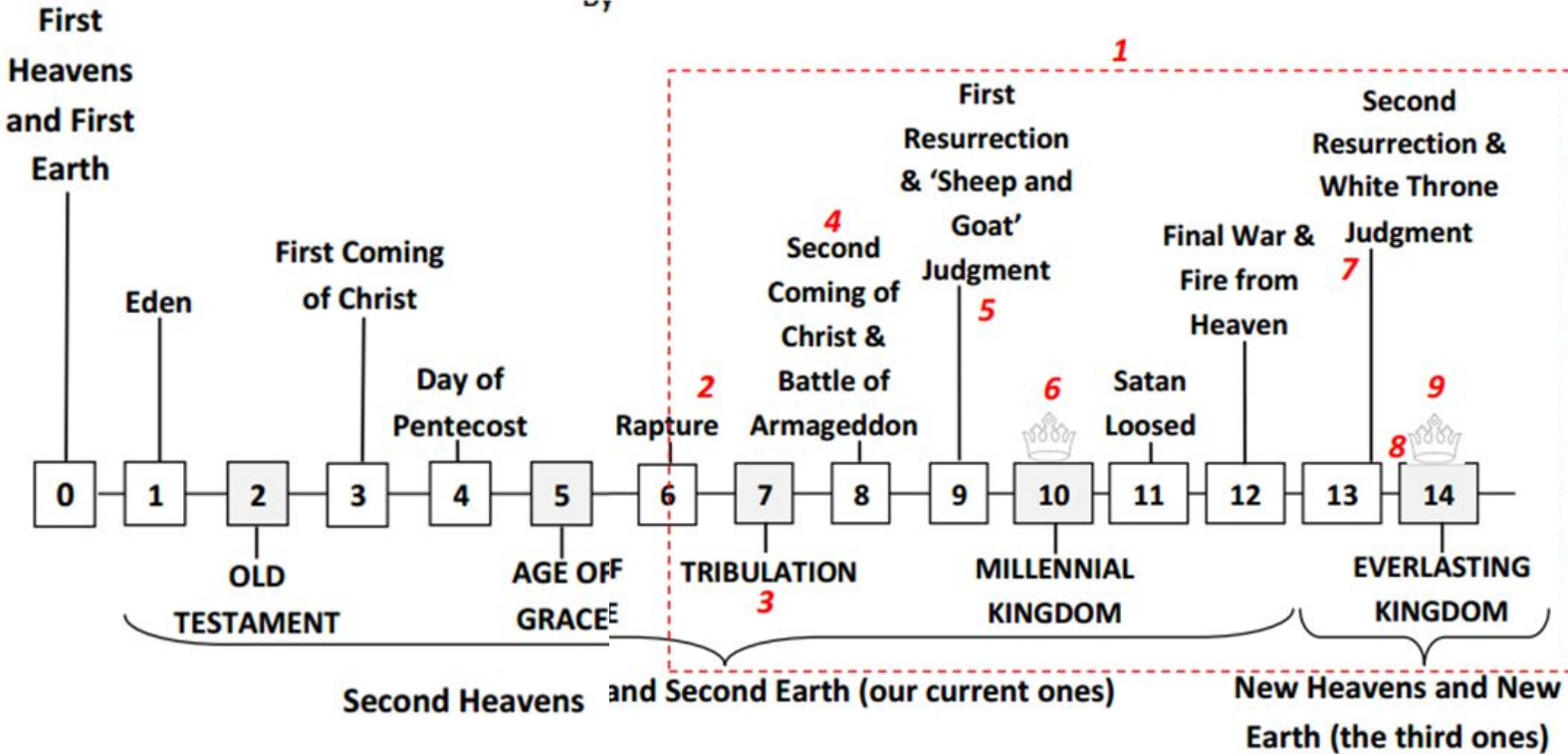
--כמ--

--ור-נ-



The Ancient manuscripts of the Bible in Hebrew & in Greek contain the best sequential Wisdom

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Biblical Chronol.
of
Human
History,
three
heavens

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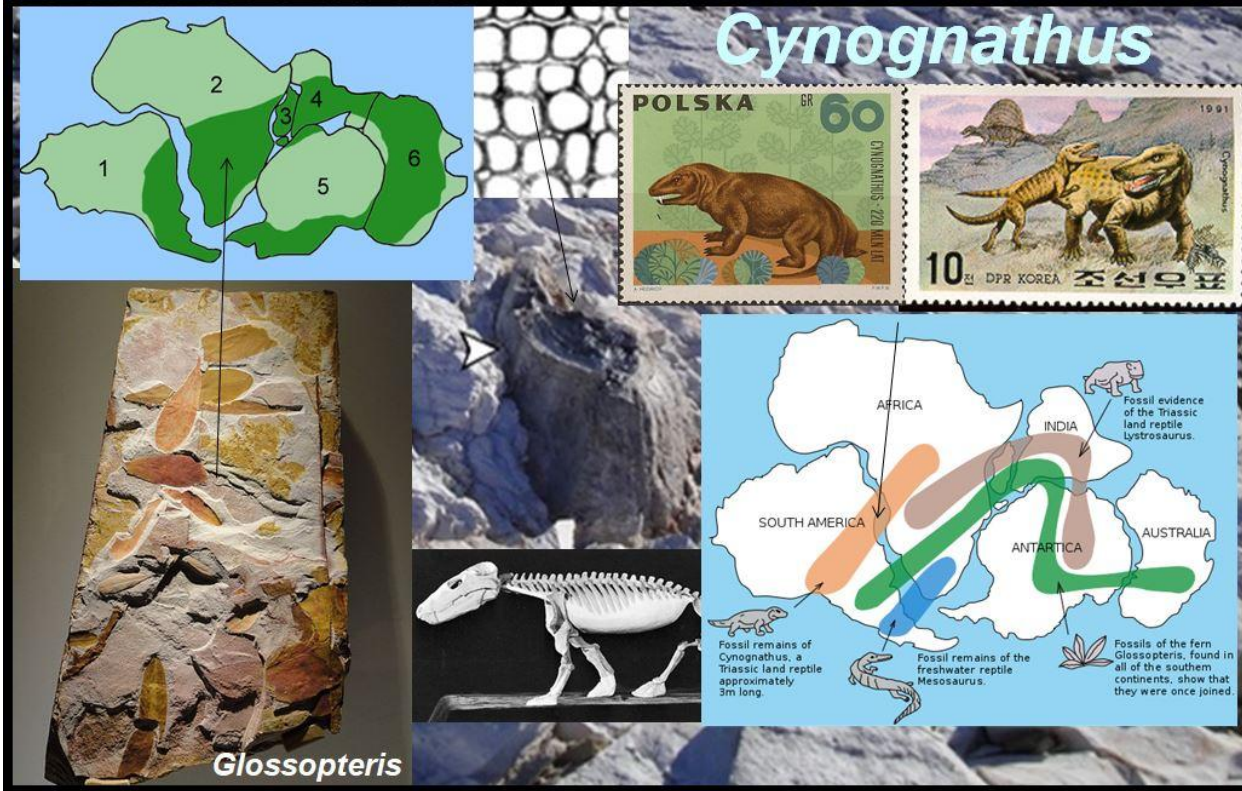
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Genesis	1:1	Version	Commentary	Language		
776 [e]	853 [e]	8064 [e]	853 [e]	430 [e]	1254 [e]	7225 [e]
hā·'ā·reš.	wə·'êṯ	haš·šā·ma·yim	'êṯ	'ē·lō·hîm;	bā·rā	bə·rê·šîṯ
· הָאָרֶץ:	וְאֵת	הַשָּׁמַיִם	אֵת	אֱלֹהִים	בָּרָא	בְּרֵאשִׁית 1
the earth	and	the heavens	-	God	created	In the beginning
Art N-fs	Conj-w DirObjM	Art N-mp	DirObjM	N-mp	V-Qal-Perf-3ms	Prep-b N-fs



It was in the beginning when the dinosaurs originated, with no humans yet into existence.

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That was also the time of the Pangaea, where all the Continents were just one block of land

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Genesis	1:2	Version	Commentary	Language		
6440 [e]	5921 [e]	2822 [e]	922 [e]	8414 [e]	1961 [e]	776 [e]
pə·nê	'al-	wə·ḥō·šek	wā·bō·hū,	tō·hū	hā·ye·tāh	wə·hā·'ā·reš,
פְּנֵי	עַל-	וְחֹשֶׁךְ	— וּבְהוֹ	תְּהוֹ	הִיְתָה	וְהָאָרֶץ 2



It was right next that the dinosaurs all got extinct!

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Genesis	1:3	Version	Commentary	Language	
216 [e]	1961 [e]	216 [e]	1961 [e]	430 [e]	559 [e]
'ō-wr.	way·hî-	'ō-wr;	yə·hî	'ě·lō·hîm	way·yō·mer
אור:	וַיְהִי	אור	יְהִי	אֱלֹהִים	וַיֹּאמֶר 3
light	and there was	light	let there be	God	And said
N-cs	Conj-w V-Qal-ConsecImperf-3ms	N-cs	V-Qal-Imperf.Jus-3ms	N-mp	Conj-w V-Qal-ConsecImperf-3ms

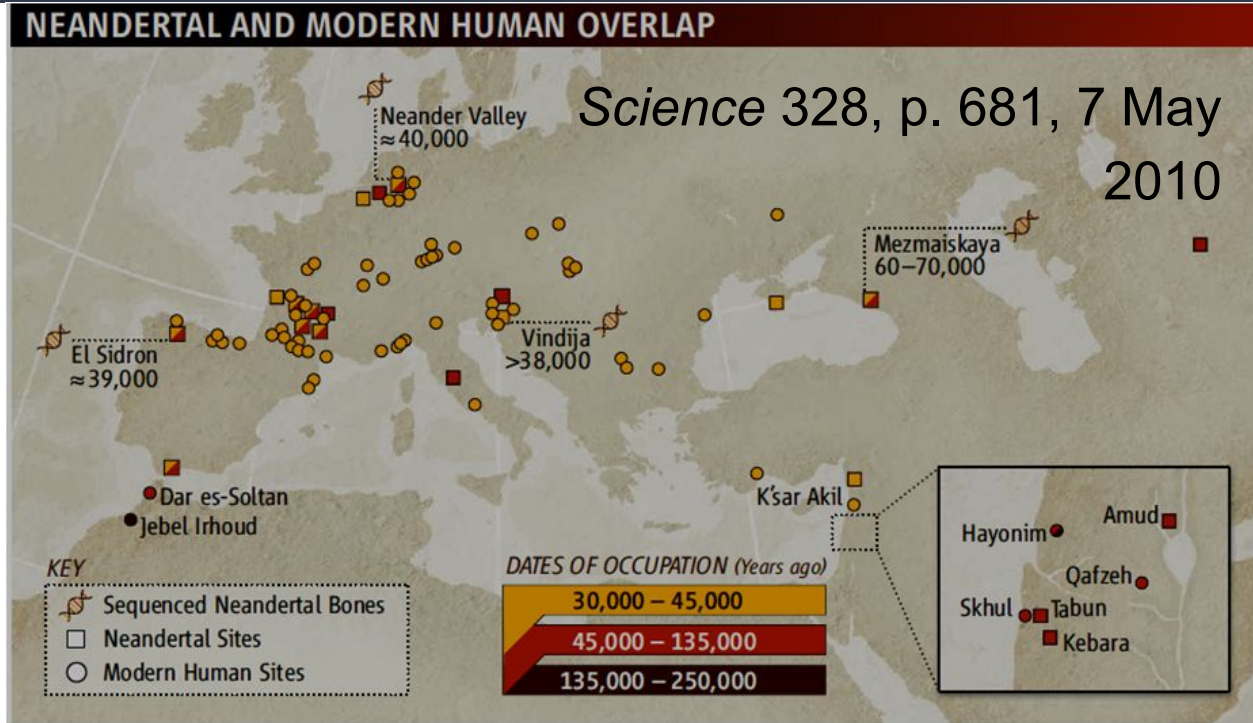


The next 6 days
were those to
reorder the
universe

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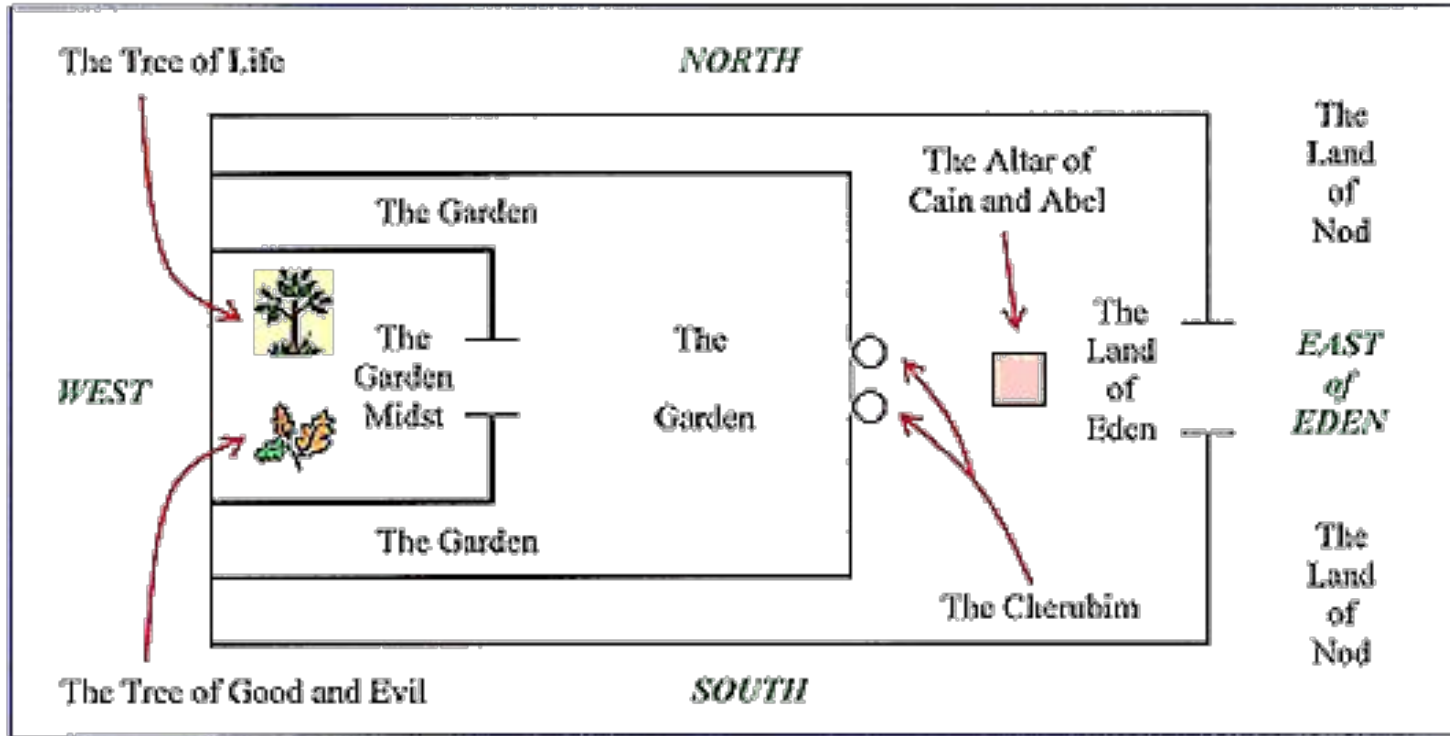
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Points of contact. Archaeological data suggest that Neanderthals and early modern humans may have overlapped early in the Middle East and later in Europe.

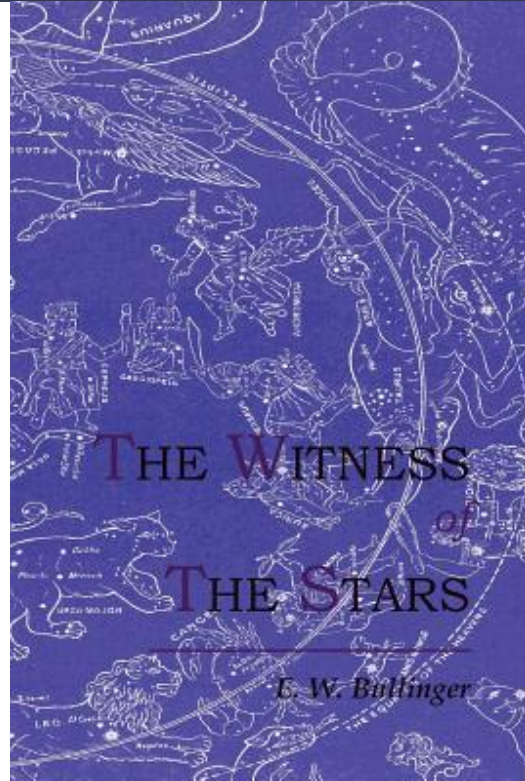
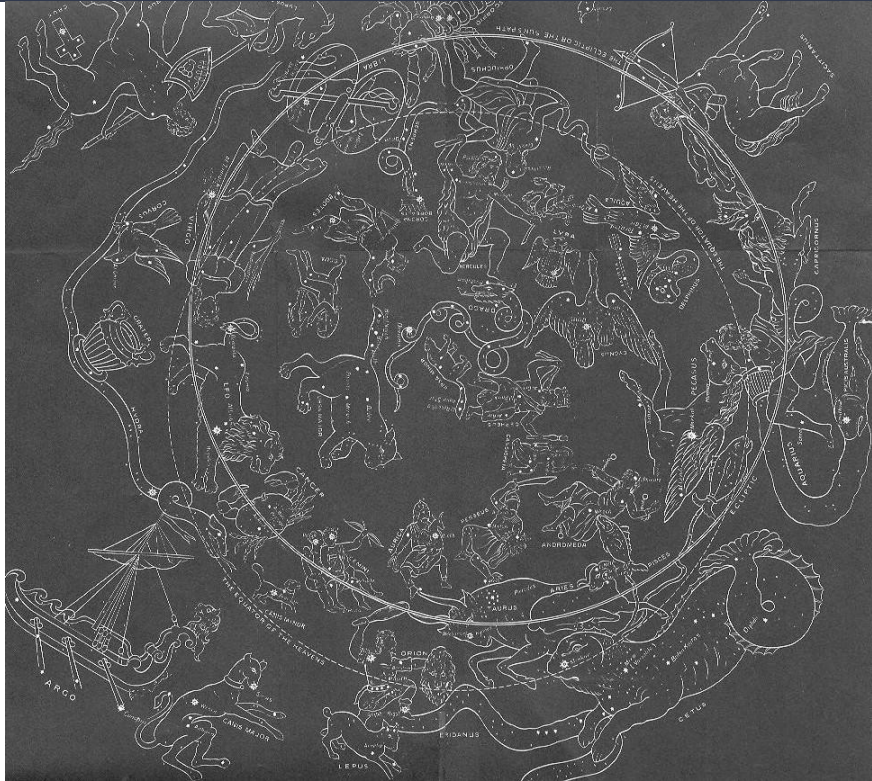
Man originated in the Middle East, place of Paradise, and from there moved to North Africa and then to Europe

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The design of Paradise is kept in the Tabernacle & Temple!

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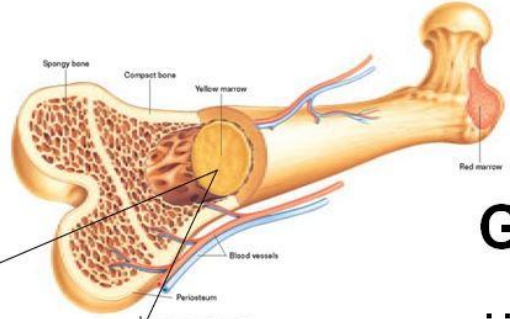
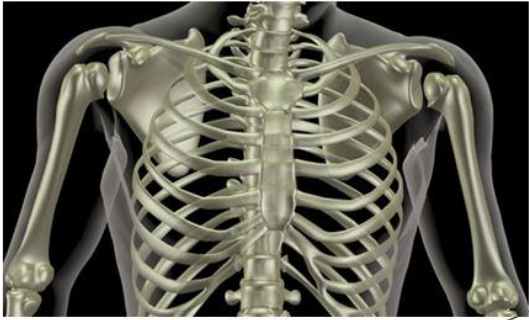


Then was
the origin
of the
Signs in
Heaven,
Constellat.
Prophetic
Narrative

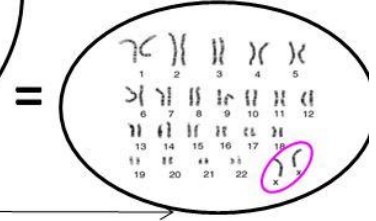
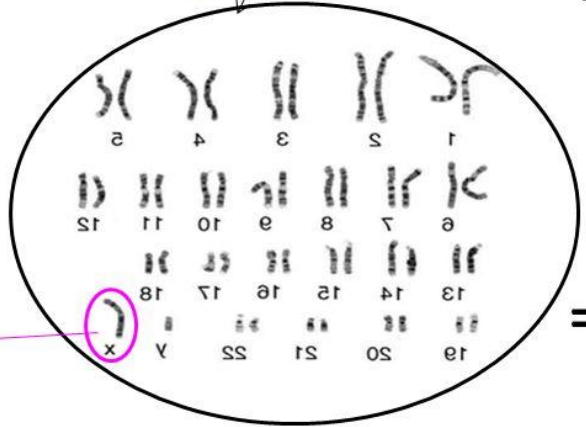
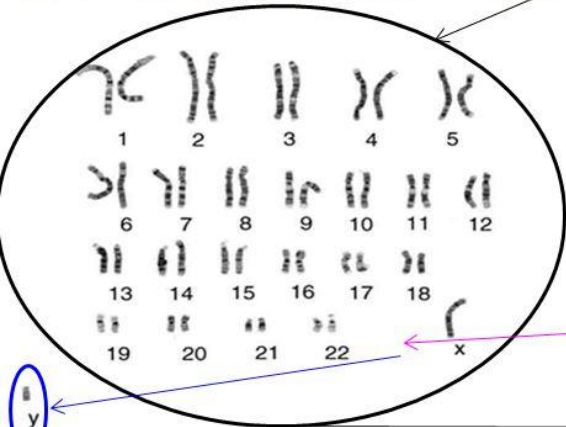
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Gen. 2:22b
...made He
[God] a
woman...

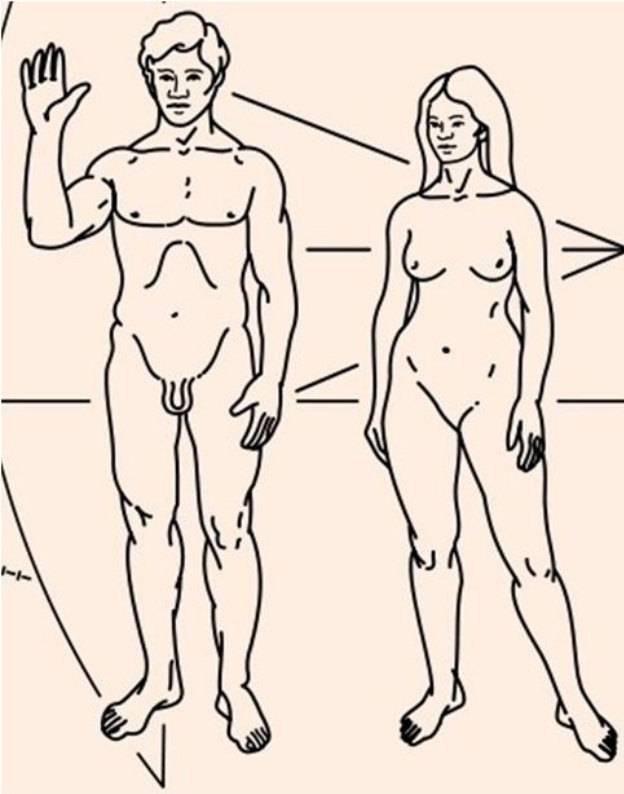


A female
clone is
possible
to be
obtained
from a
man! Not
vice versa

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Biological
eternity
was
shattered
by settling
the death
gene in
man

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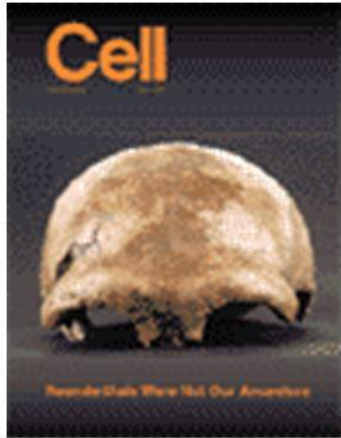
...Only the female reproductive ovule was not affected by the fall of man...

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Neanderthals Were Not Our Ancestors



Monsters
originated by
the fallen
practices of
men, such as
Neanderthal.

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Indricotherium (Hornless Rhino)



Mammuthus columbi (Mammoth)



Megatherium (Giant Sloth)



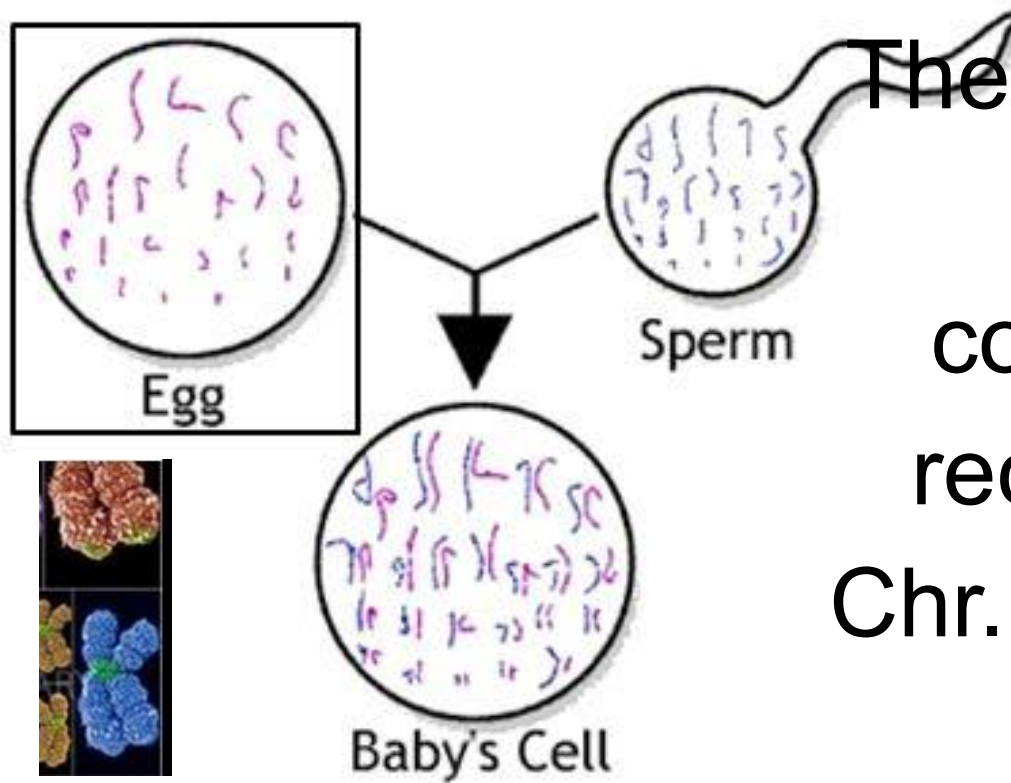
Smilodon (Saber-Toothed Tiger)

Big Mammals disappeared with the flood in the days of Noah, also ancient Nean.

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The dominant genes covered the recessive, Y Chr. produced the male.

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With no rotation or translation, the celestial planet is a cube, to land on the Middle East.

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Ps. 78:24-25;
Rev. 2:17



Rev. 19:14



Ps. 148:4;
Rev. 21:21

Some of the valuables produced in the
dwelling place of God.

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We conclude by saying that, the **Ancient Wisdom** as preserved in the oldest manuscripts and stones, specially from the **Bible**, describe, or hint, to a very advanced human knowledge in the past that **now can be retrieved for the benefit of mankind!!!**