

The Revelation

M3-3C Interlude-2 Can DNA help Identify the 8th Beast

Examining the 8th Beast Empire

Last Time

- Who is the 8th Beast
 - Who is the Beast of the Sea
 - Who is Gog

Recap – The Beast of the Sea Part 1

- The Beast of the Sea from Rev 13 => the 4th Beast of the Sea from Dan 7
 - Dan 7: They all were Beasts of the Sea
 - But only the 4th beast representing Rome had 10 horns
 - A large horn came up and subdued 3 horns
 - The sea represents the nations
 - Rev 17: The beast who once was, and now is not. **He belongs to the seven and is going to his destruction**
 - Rev 13:2 He resembled a Leopard, had feet like a Bear, and a mouth like a Lion - Greece, Persia, Babylon or symbolic
 - He had a mortal wound – literal or symbolic
 - which you saw, once was, now is not, and yet will come up out of the Abyss and go to its destruction
 - John Baptist came in the spirit of Elijah
 - Or one of the previous seven
 - In either case, we know him by his fruit
 - Spent time proving that Gog of Magog, Ezek 38, is the antichrist
- Learn the Lesson of the fig tree: When we see these things happening, we know the time is near

Examining the 8th Beast Empire

This episode is quite different

Next Time

- Who are the 10 kings
 - Since Gog is the antichrist, can we find them in Ezek 38
 - God uses the language of the Table of Nations

This Time

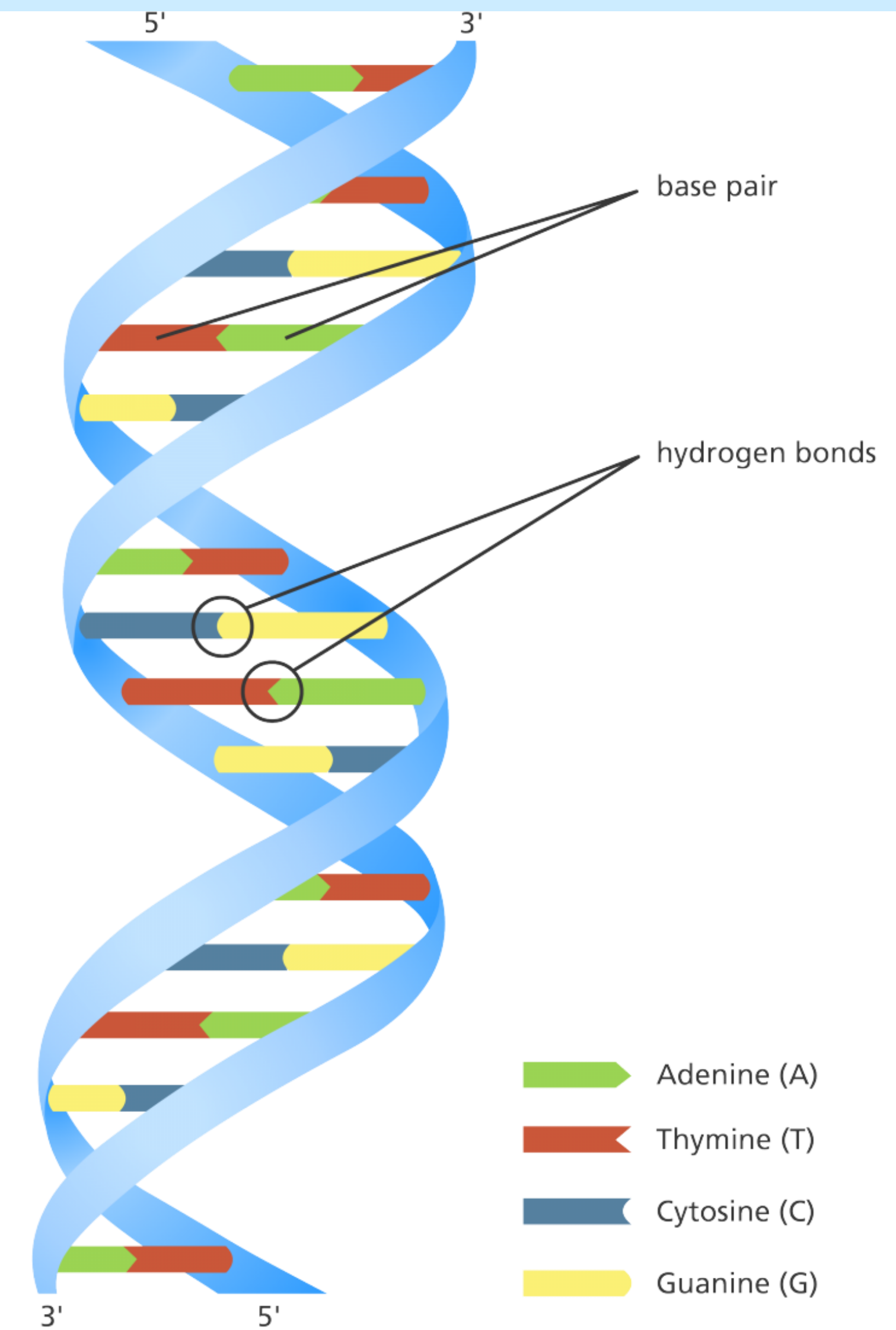
- Some Christians are trying to use DNA to analyze the Table of Nations
 - Is this feasible?
 - We are laying some background on DNA analysis
 - What is DNA?
 - What are haplogroups and can they be used to analyze the Table of Nations
 - What does science tell us about haplogroups?
 - End with a discussion of Genetic Entropy

- Evolution has been falsified scientifically

What is DNA

The Basics

- Unique identifying code in all living creatures – about 1%
 - What you look like, color of your eyes, height, etc
- Other 99% - Gives your cells instructions for use of proteins to drive cellular which in turn drives bodily functions
- Double helix structure
 - Sugar – phosphate backbone (helical strands)
 - Four base pairs – provide the encoding of the DNA
- 23 pairs of chromosomes – tightly wound lengths in the DNA
 - Mitochondrial DNA (mtDNA) - inherited only through one's mother
 - Y-DNA - Inherited through one's father



- DNA is the basic building block of life

Some background on DNA

Not by chance

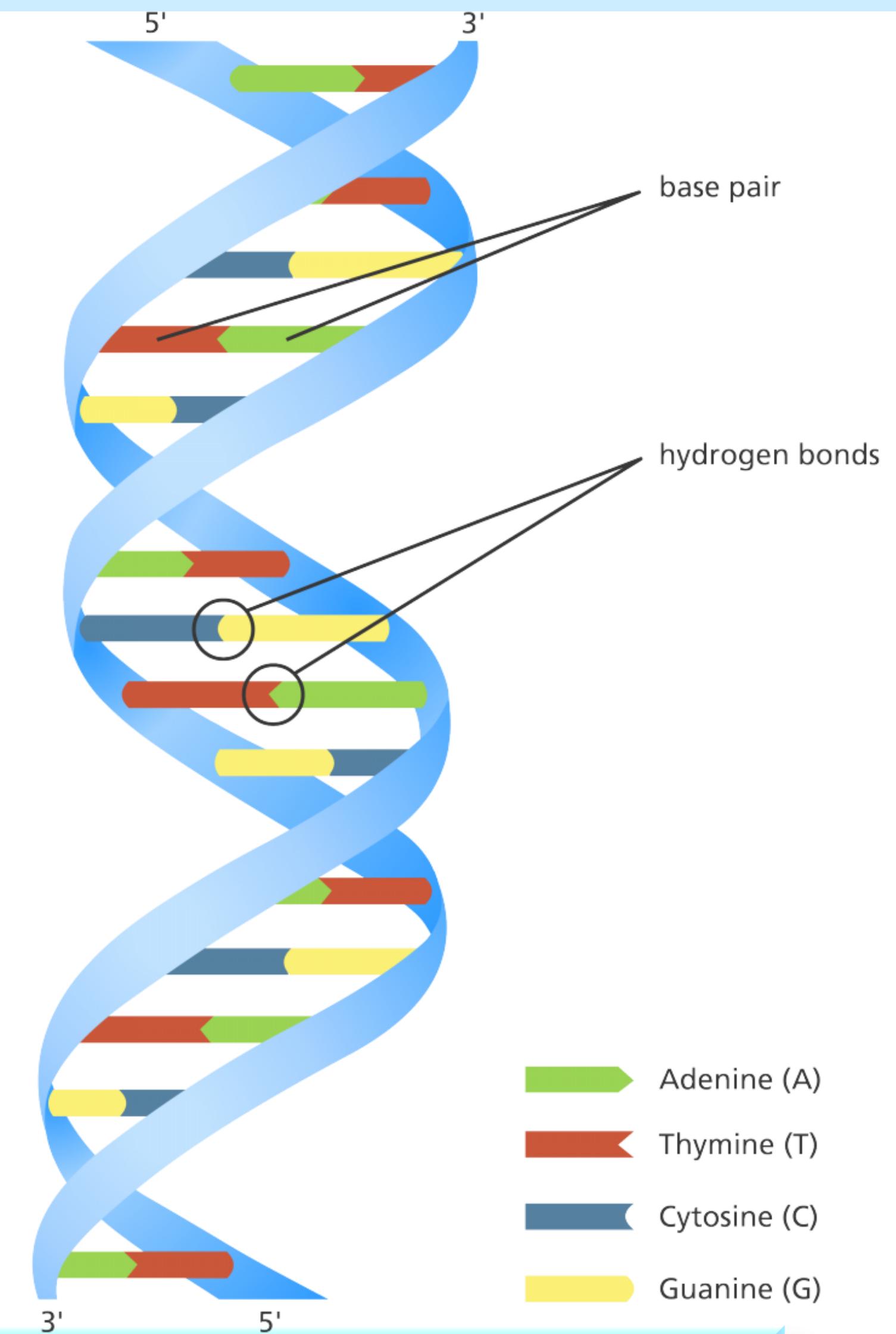
Creator – a complex coding system does pop into being without a programmer

- **Sequence Complexity:** The probability of a functional DNA sequence (like a gene) forming by random chemical collisions is mathematically near zero.
 - Each codon is a grouping of 3 nucleotides (four standard nucleotides)
 - Base 4 coding system verses binary > 64 (4 bases in triplet 4^3)
 - **Molecular Chirality:** DNA requires "right-handed" sugars (D-ribose). In a random chemical environment, sugars form in a 50/50 mix of left- and right-handed versions. Just one left-handed molecule can result in failure of double-helix to form.
 - **"Chicken-and-Egg" Paradox:** need enzymes to make DNA; but, you cannot make enzymes without DNA!
 - **Repair Mechanisms:** DNA is susceptible to damage from water, UV light, and oxygen. Without immediate, enzyme-led repair mechanism; you cannot create good DNA strands.
- Then the LORD God formed the man of dust from the ground and breathed into his nostrils the breath of life

What DNA Actually Does

The other 99%

- DNA - advanced biological computer code
 - 1990s - “Junk DNA” – vast majority was unused
 - 2010s - Reality - its all used in various cellular control functions
- Biological digital multi-redundant feedback control system
 - Not all that different systems we use today in engineering, but more sophisticated
 - This is largely why mutations are so harmful – they directly attack your cell’s control systems



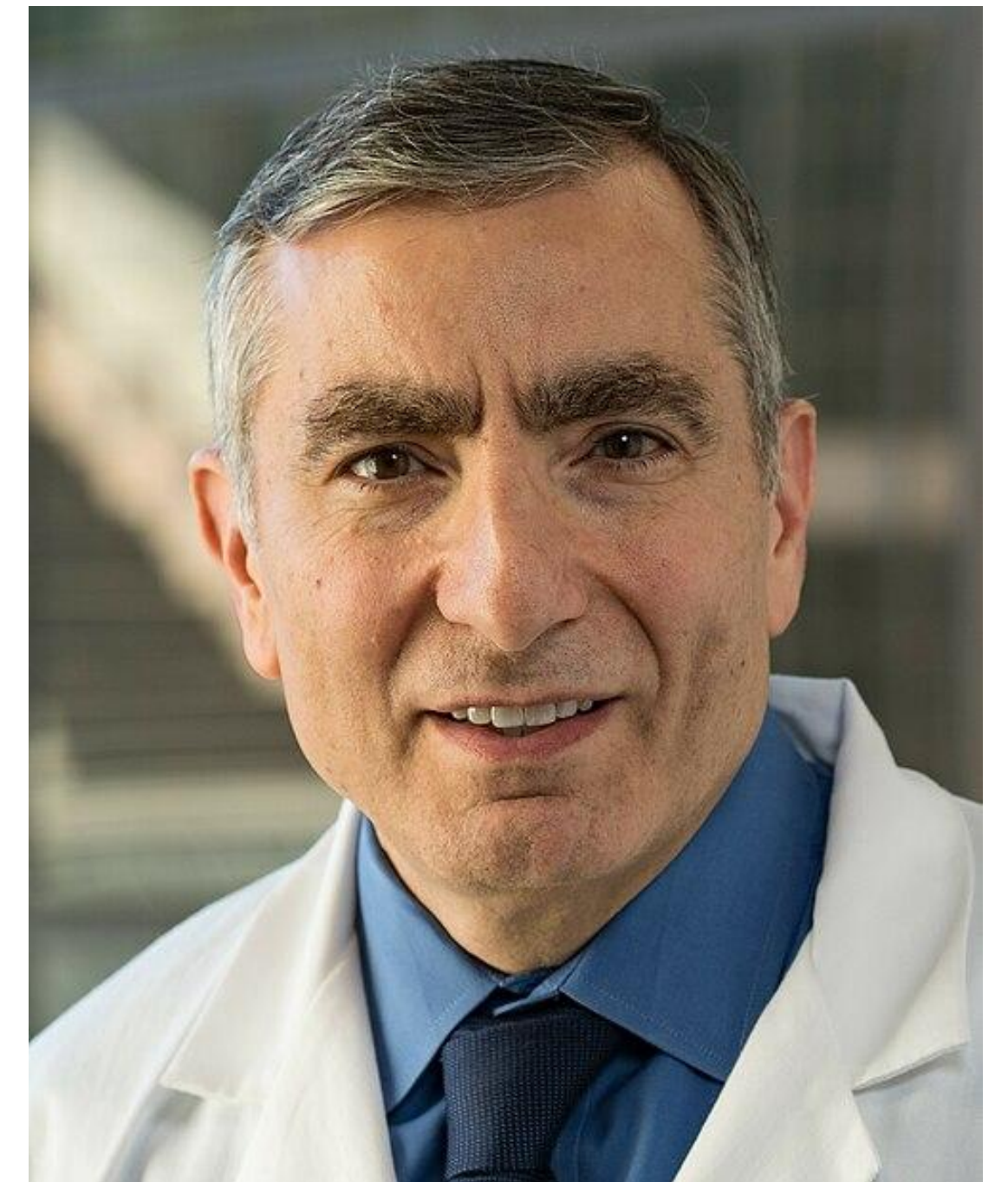
- DNA is an extremely advanced system that could never happen through evolution, it takes careful design to work properly

Science – Dr Tour

Tour has about 650 research publications and over 200 patents

- Dr. James Tour is a renowned chemist and nanotechnologist at Rice University who strongly integrates his Christian faith with his scientific work, particularly concerning the origin of life (abiogenesis), arguing that current scientific explanations are inadequate, pointing towards a divine Creator. He describes science as leading him closer to God, emphasizes biblical study, and shares his journey from Judaism to Christianity, advocating for faith and challenging unproven origin-of-life theories.
- He is real world chemist working on real world solutions. He understands what it takes to make things.
- His faith led him to origin of life research, but his skill in real world chemistry is why he is so successful in arguing against evolutionary logic for origin of life
 - We are not close to figuring it out and the goal of understanding origin of life is getting further away
- The Science and Faith Podcast
https://www.youtube.com/playlist?list=PLILWudw_84t0scCNBJMZLjuUdFowl9Hc2
- **Origin of Life Crisis: Rice's Dr. James Tour Calls Out Bad Science at Harvard**
<https://www.youtube.com/watch?v=JljpWgEDH8>

references



- Dr Tour proves out daily that science can lead to faith in God
- Will God let us understand the origin of life or how to fix the DNA permanently
 - Jeremiah 31 – only God set the laws and times
 - Genesis 3 – man must not eat from the Tree of Life, lest he live forever (in a state of sin)

Y chromosome vs mt DNA

Types of DNA

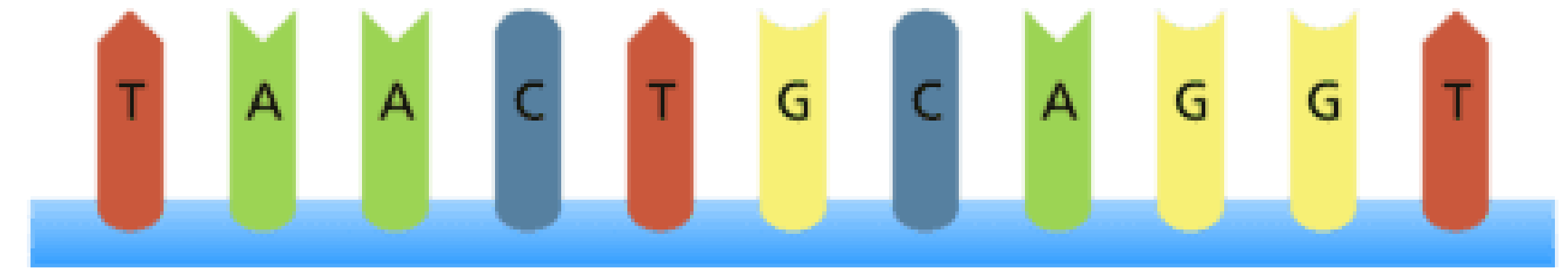
- 23 pairs of chromosomes with one pair being XX or XY reside in nucleus of cell
 - Y chromosome only in man
 - Can only pass from father to son
 - A girl child has father's DNA but with an XX chromosome pair it is difficult to trace without also having mother's DNA sample
 - Codes for essential parts of the cell's energy-producing machinery
 - Resides in cytoplasm of cell
 - Mothers pass on the mitochondrial DNA
 - Mitochondrial is the powerhouse of the cells
 - Mature sperm has no mitochondrial
 - Mt DNA only passed through the mother's egg cell
- Both types required for life; both types give insight to ancestry

Haplogroups and Mutations

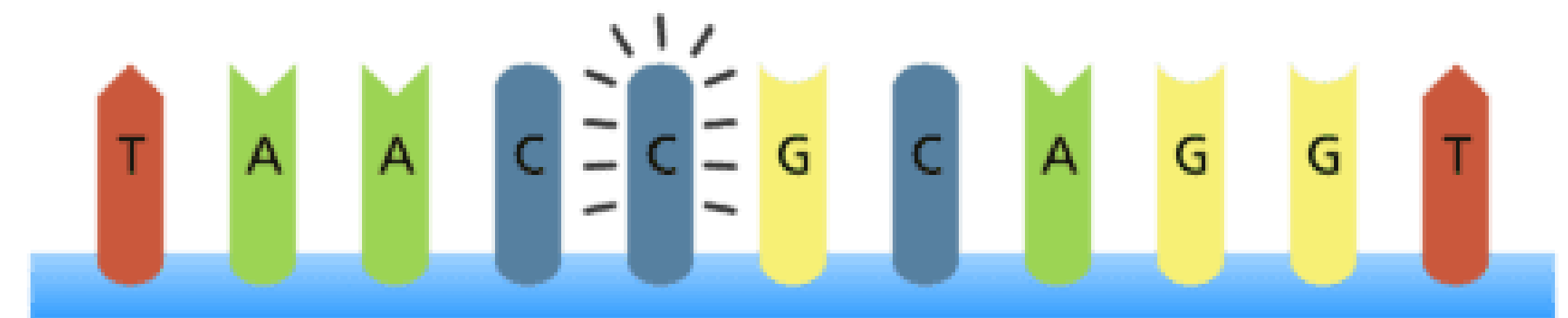
Mt DNA via mother; Y Chromosome DNA via father

- How do scientist see haplogroups
 - Through the genetic mutations of our great grandmothers and grandfathers illustrated on the right
 - Early on there were no mutations, this is why people lived so long in the Bible
 - After the flood, mutations accelerate, which is why in the Bible our lifespan shortens
 - Mutations can be good, bad, or neutral

Original sequence



Point mutation

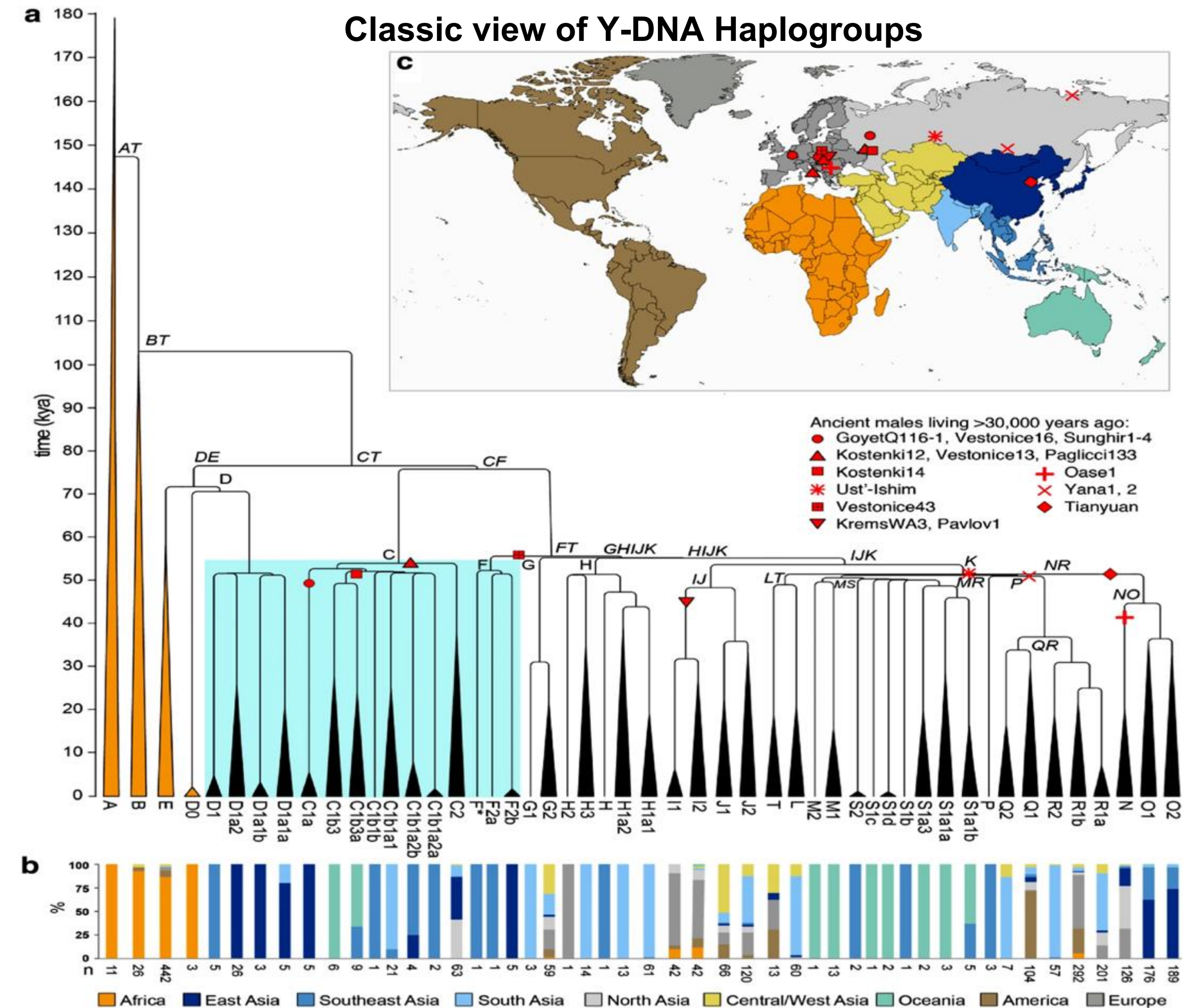


- Mutations tell a story

Haplogroups

Y Chromosome DNA via father

- A haplogroup is a genetic population group of people who share a common ancestor on the patriline or the matriline.
 - Top-level haplogroups are assigned letters of the alphabet, and deeper refinements consist of additional number and letter combinations.
- Here we can see the Y-DNA haplogroups
 - All sons inherit their Y chromosomes from their biological fathers
 - A father and his son share a Y chromosome or paternal haplogroup.
 - Not all sperm the same – some pass the mutations, others may not



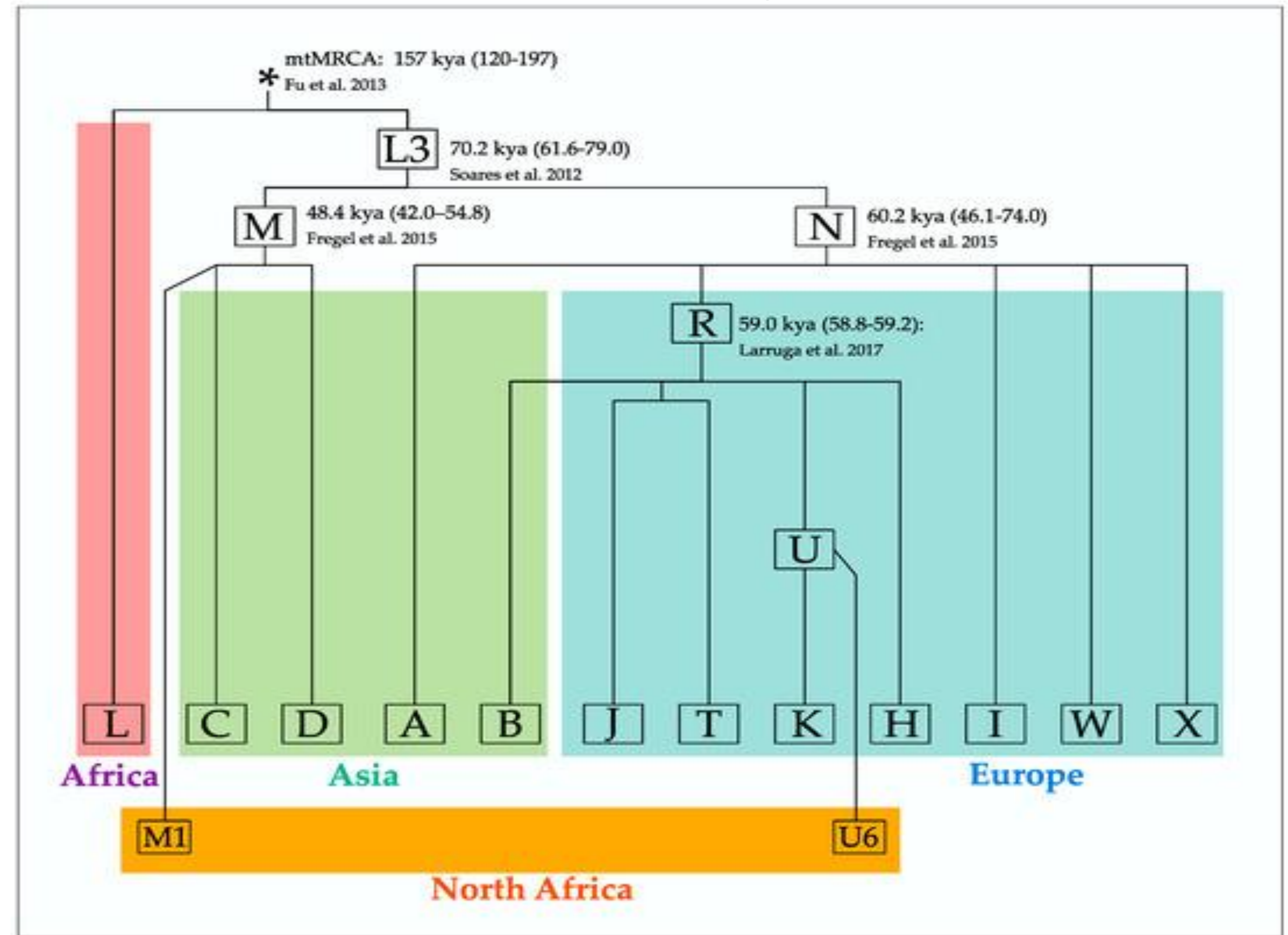
- Mutations tell a story

Mitochondrial Haplogroup

mtDNA is transmitted through mother

- Any set of individuals who share a mother (that is, siblings or maternal half-siblings) have the same maternal haplogroup.
- In theory, it would all trace back to Eve
 - Humans trace their maternal ancestry back to a **single common female ancestor, known as "Mitochondrial Eve,"**
 - Mitochondrial DNA traces back to three mothers

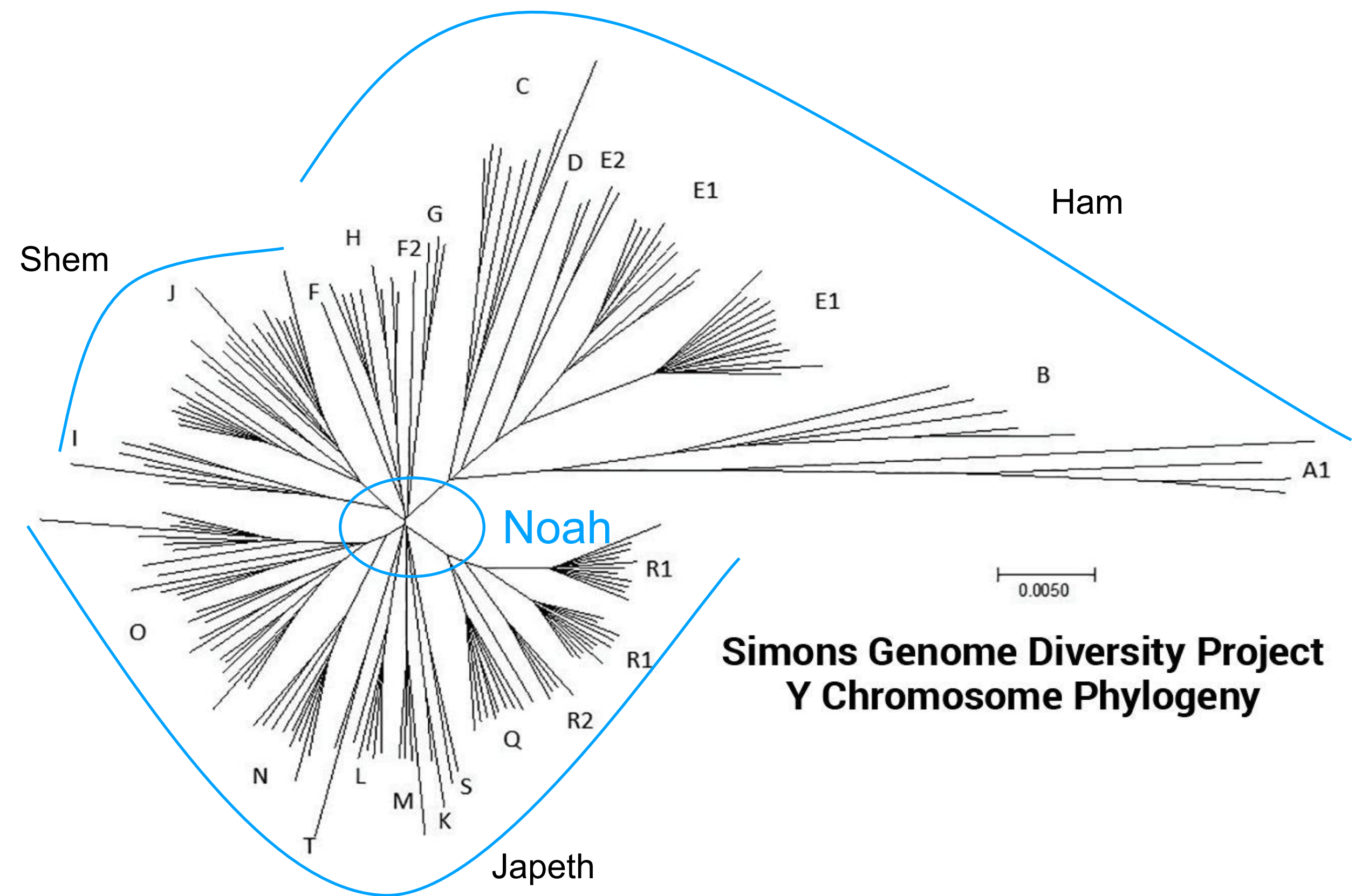
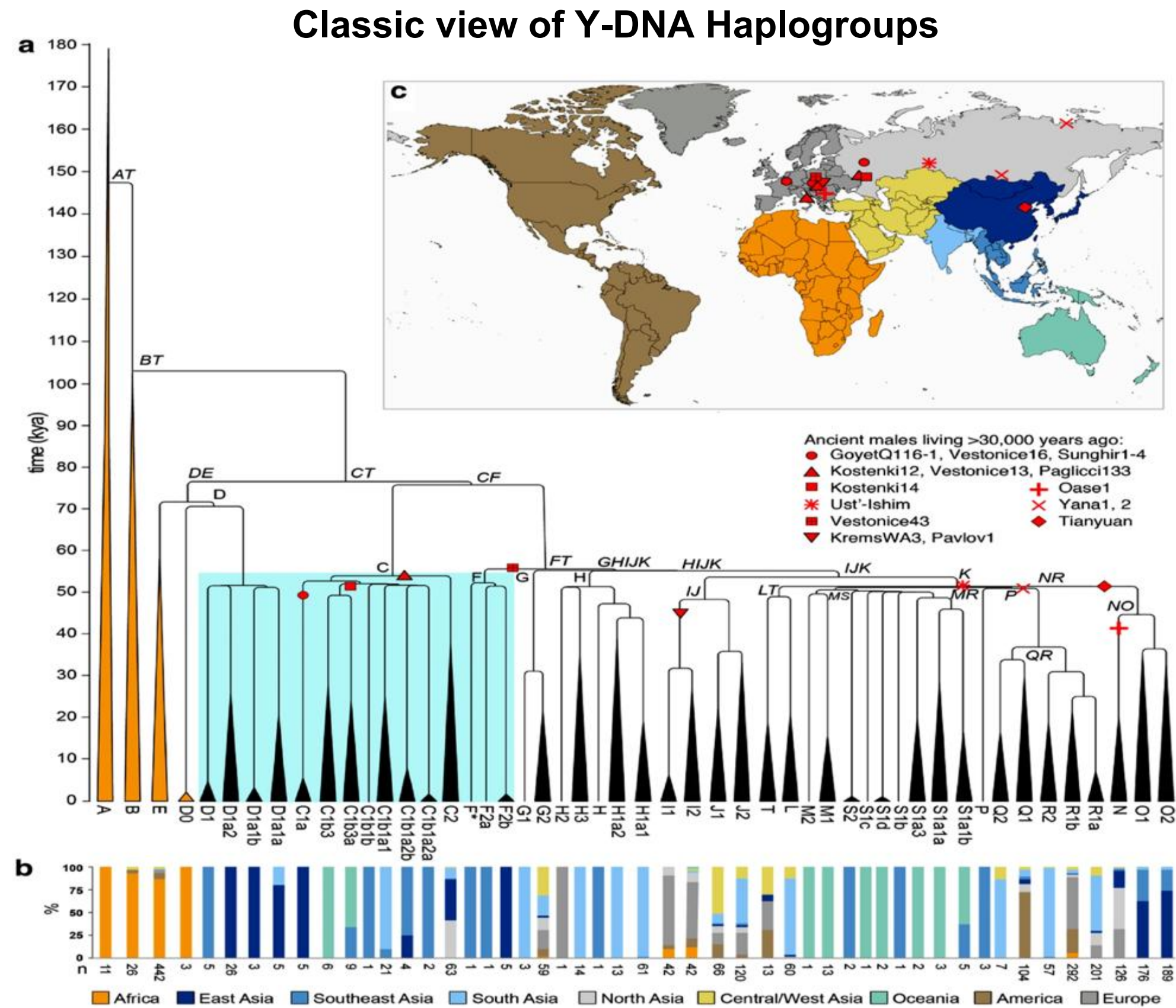
Classic view of mt-DNA Haplogroups from wikipedia



- Mutations tell a story

Alternate ways of drawing Phylogenetic Trees

Y-chromosome research all leads to a common father!

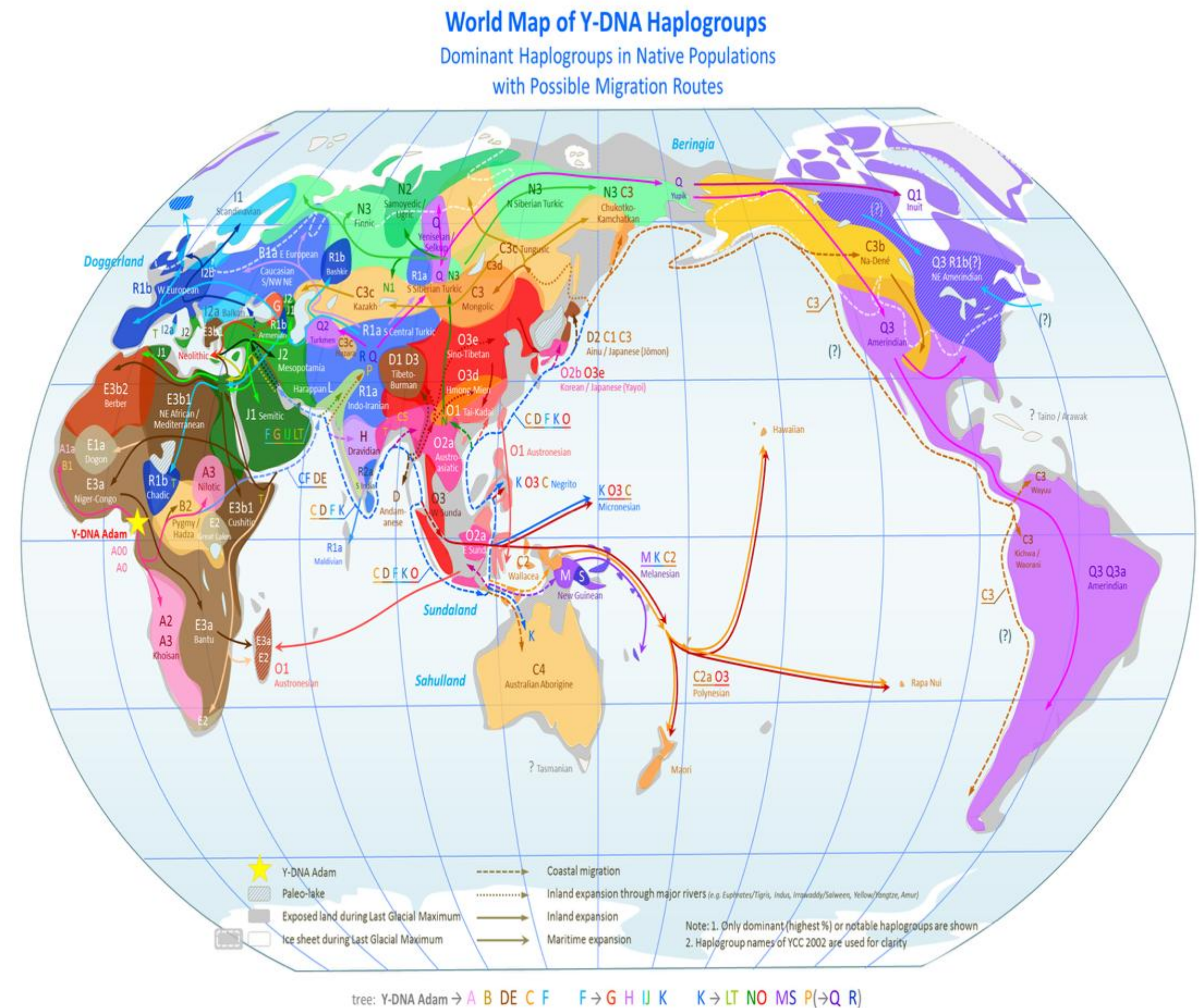


- Left: Mans initial order makes less sense, but the data always shows singular starting haplogroup for Y chromosome: Noah but ultimately Adam
- Right: As we gather more data, God's story becomes increasingly apparent

The natural question: where do we come from?

Which brothers and children migrated where?

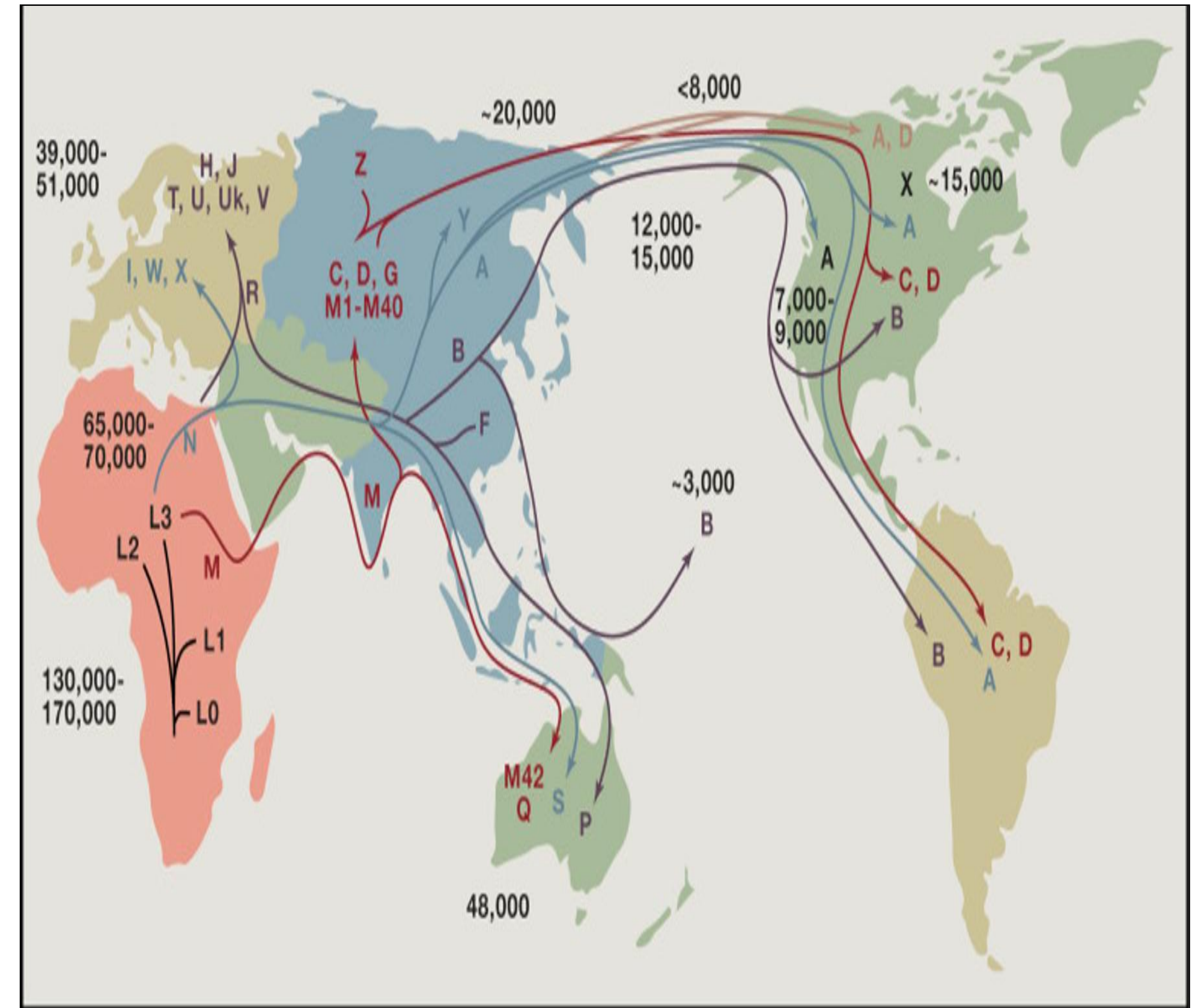
- Here we see a secular view of the migrations of the human race across the world
 - Is it wrong – not necessarily
 - But is it right – not necessarily
- Acts 17:24-27 NIV
 - 24 “The God who made the world and everything in it is the Lord of heaven and earth and does not live in temples built by human hands. 25 And he is not served by human hands, as if he needed anything. Rather, he himself gives everyone life and breath and everything else. 26 From one man he made all the nations, that they should inhabit the whole earth; and he marked out their appointed times in history and the boundaries of their lands. 27 God did this so that they would seek him and perhaps reach out for him and find him, though he is not far from any one of us.



- Inherently we want to know how we got here – because God has placed in each of us a need to know

mtDNA migration

- L, N, M variants the wives of Shem, Ham and Japheth
- Daughters of one brother likely married sons of another brother; so tracing nations through mtDNA not likely

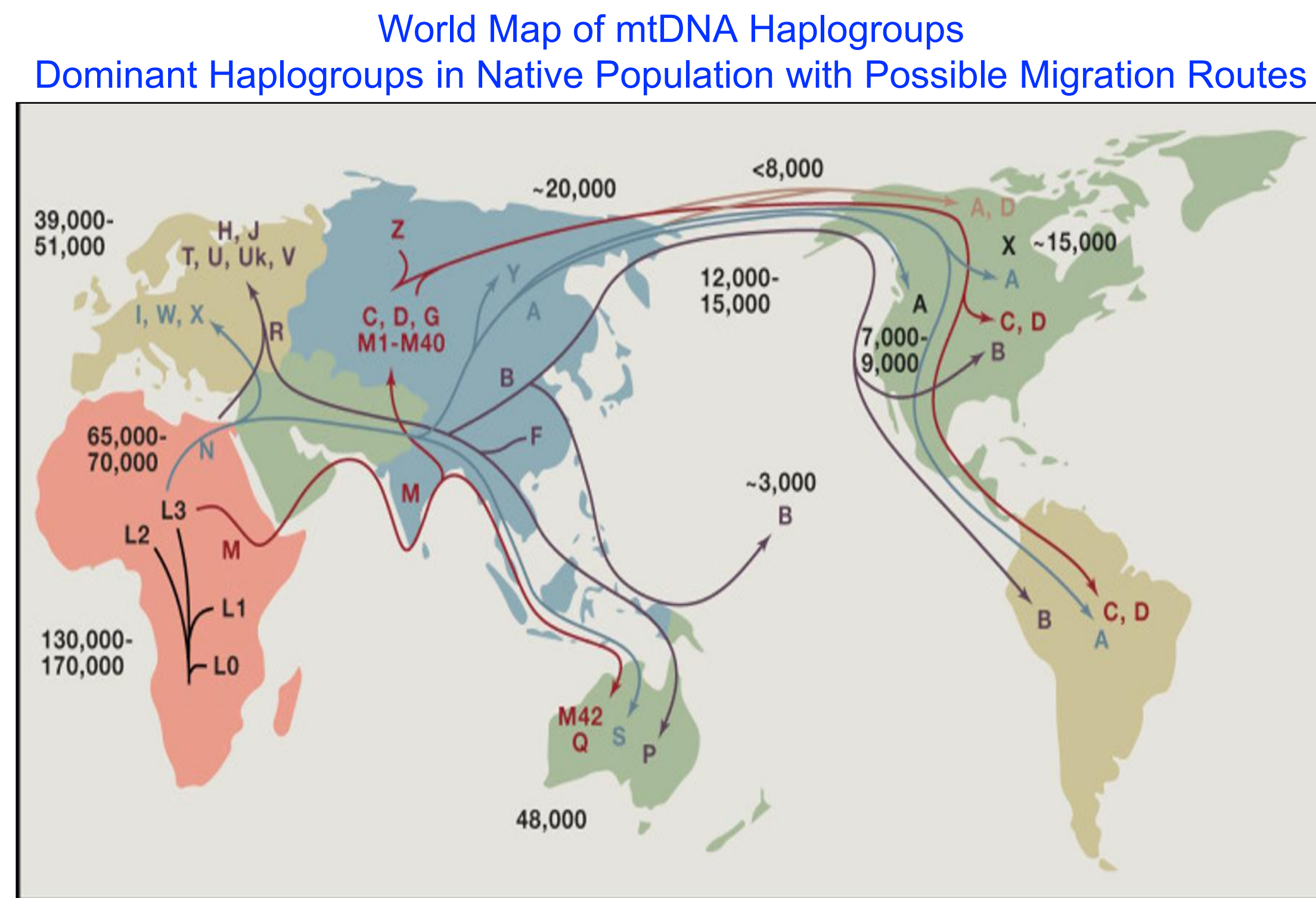


- Yet both Y-DNA and mtDNA tell roughly the same migration story

Compare the Y-DNA and mtDNA



Y chromosome



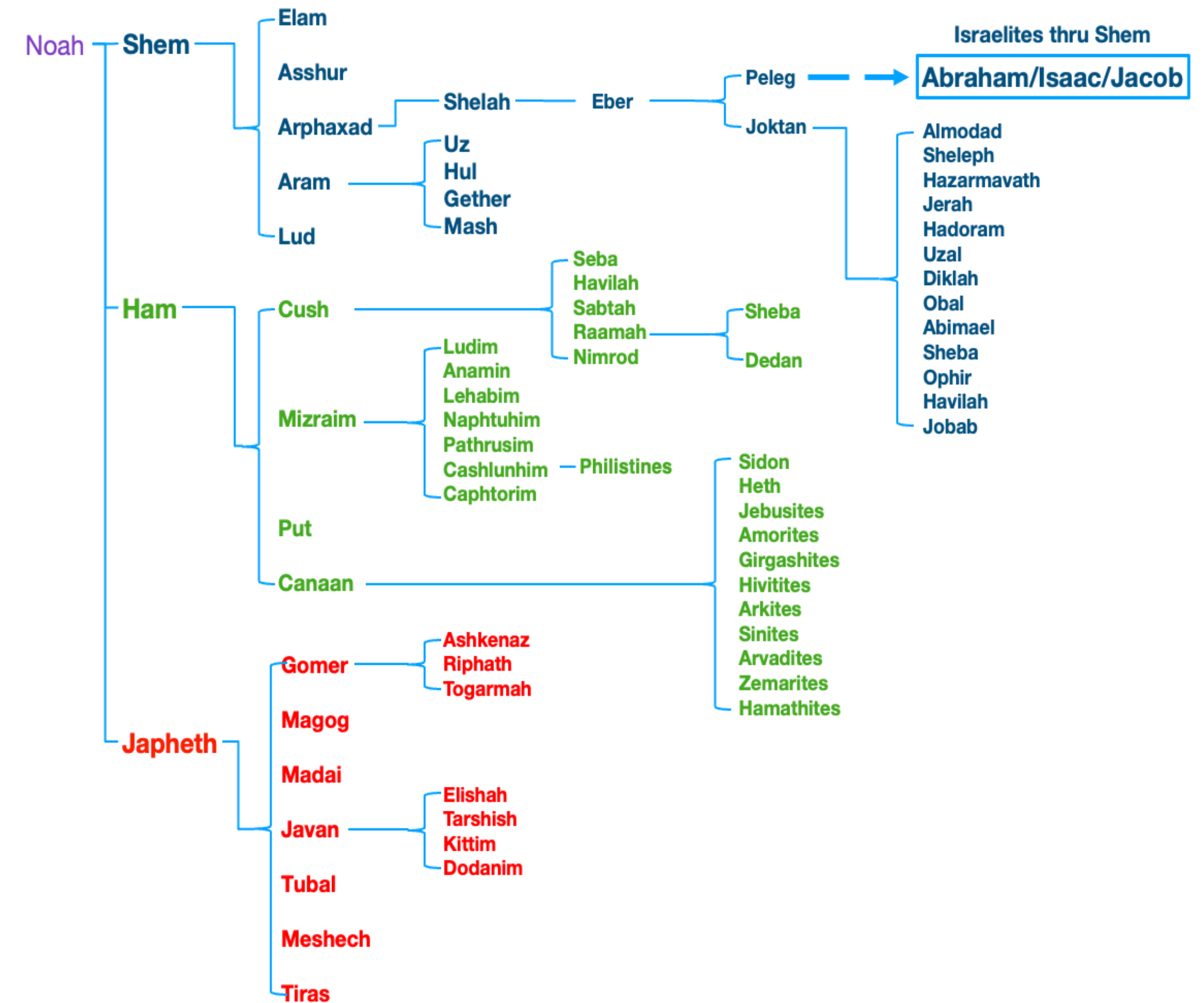
mt DNA

- Yet both Y-DNA and mtDNA tell roughly the same migration story

So what does this have to do with the Table of Nations

Gen 10

- Provides a table of 70 nations that are ancestors of Noah thru his sons
- Gen 10:32 NIV
 - ³² These are the clans of Noah's sons, according to their lines of descent, within their nations. From these the nations spread out over the earth after the flood.
- Why these siblings verses the other siblings?
 - Given as a guide to understand the what the bible says of the world
 - To understand the end times
 - Ezek 38 portrays modern nations thru the table of nations



- Can we see these nations in the DNA?

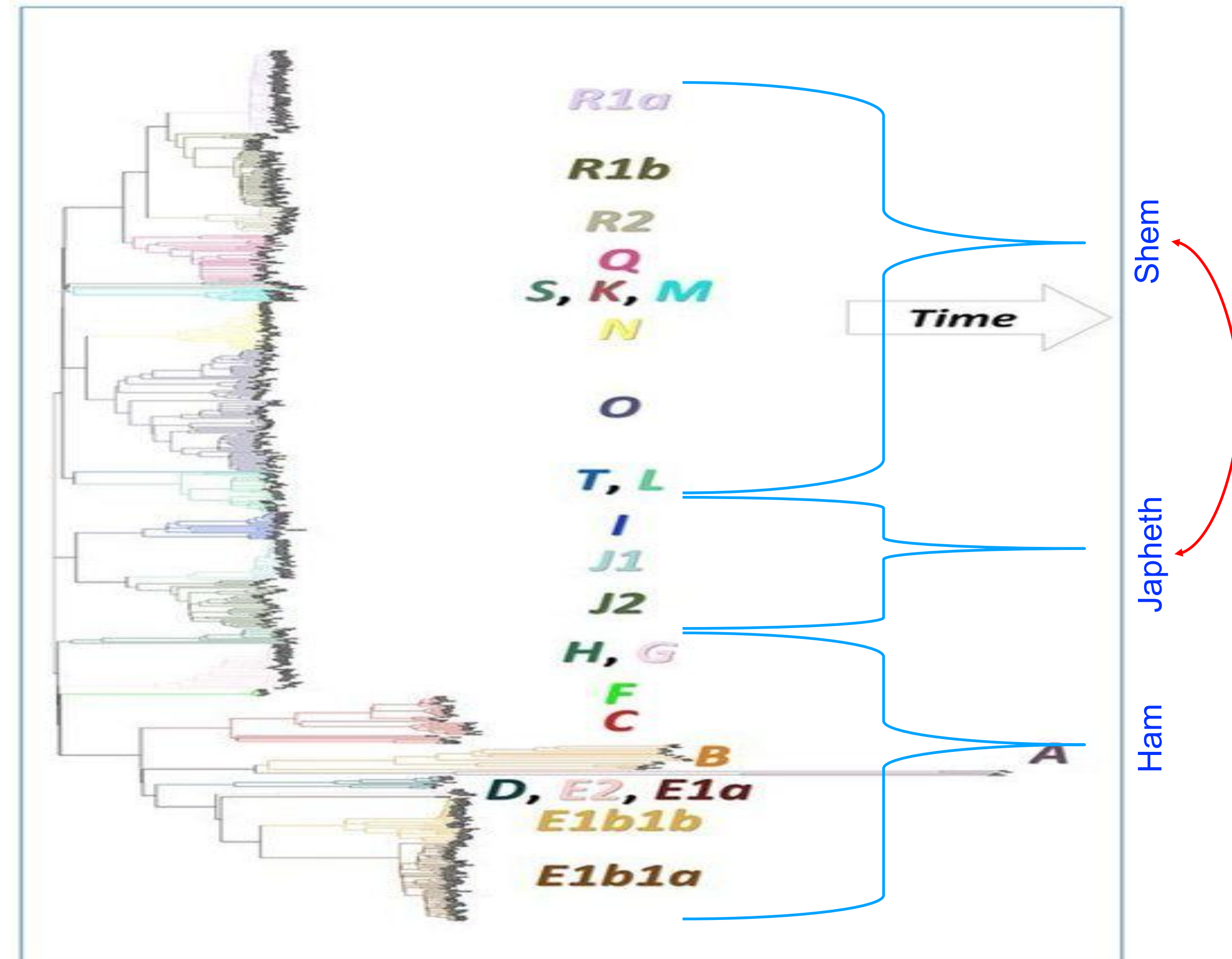
DNA – Table of Nations

Answers in Genesis

- Lead by Dr Nathaniel Jeanson
 - An attempt to place the tables of nations on genetic haplogroups
 - Jeanson's book Traced
 - Impressive work
 - Ham is obvious
 - Problem
 - Matched Jews to an obscure haplogroup - T
 - Drove typing of Shem and Japheth
 - However, inconsistent with finding in the Jewish community and middle east – Haplogroup J

references

Y-DNA Haplogroups



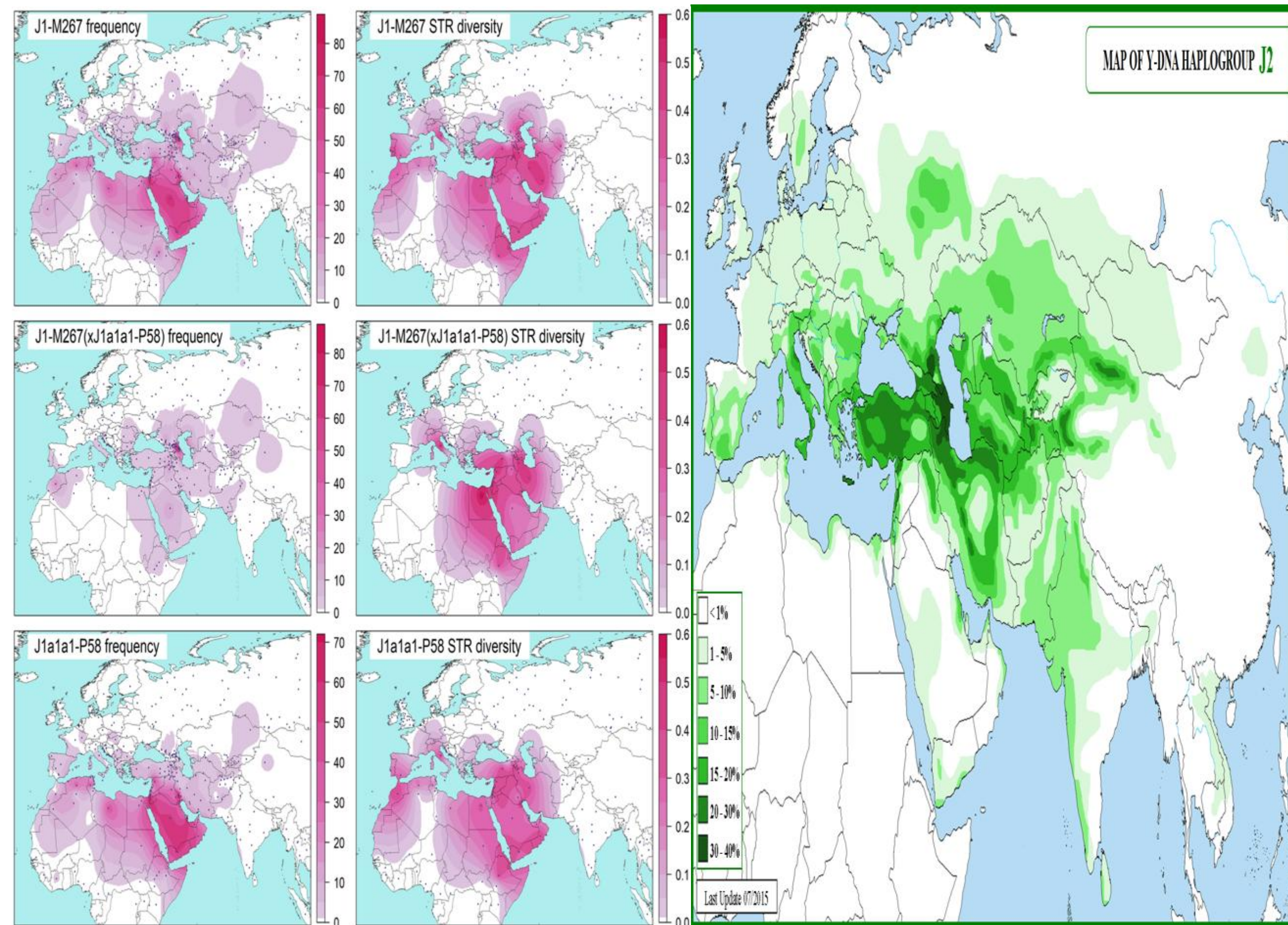
- Is Jeanson wrong?

Y-DNA Haplogroup J

Correlation to Cohanim Jews

- J1 - Middle East
- J2 – Ancient Asia/Middle East
- Cohanim DNA studies- 2015-2019
 - Ancestor of Aaron
 - Ashkenazi & Sephardic Jews
 - 87% & 75% Haplogroup J
 - CMH genetic marker – 60-70%
 - Cohen Modal Haplotype
 - Group 1 mainly J1
 - Group 2 mainly J2A
- Slide 17 – Table of Nations
 - Abraham from Arphaxad
 - Jews were closely related to the Babylonians (Arphaxad)
 - Cousins of the Assyrians (Asshur), Syrians (Aram), and Persians (Elam)

references



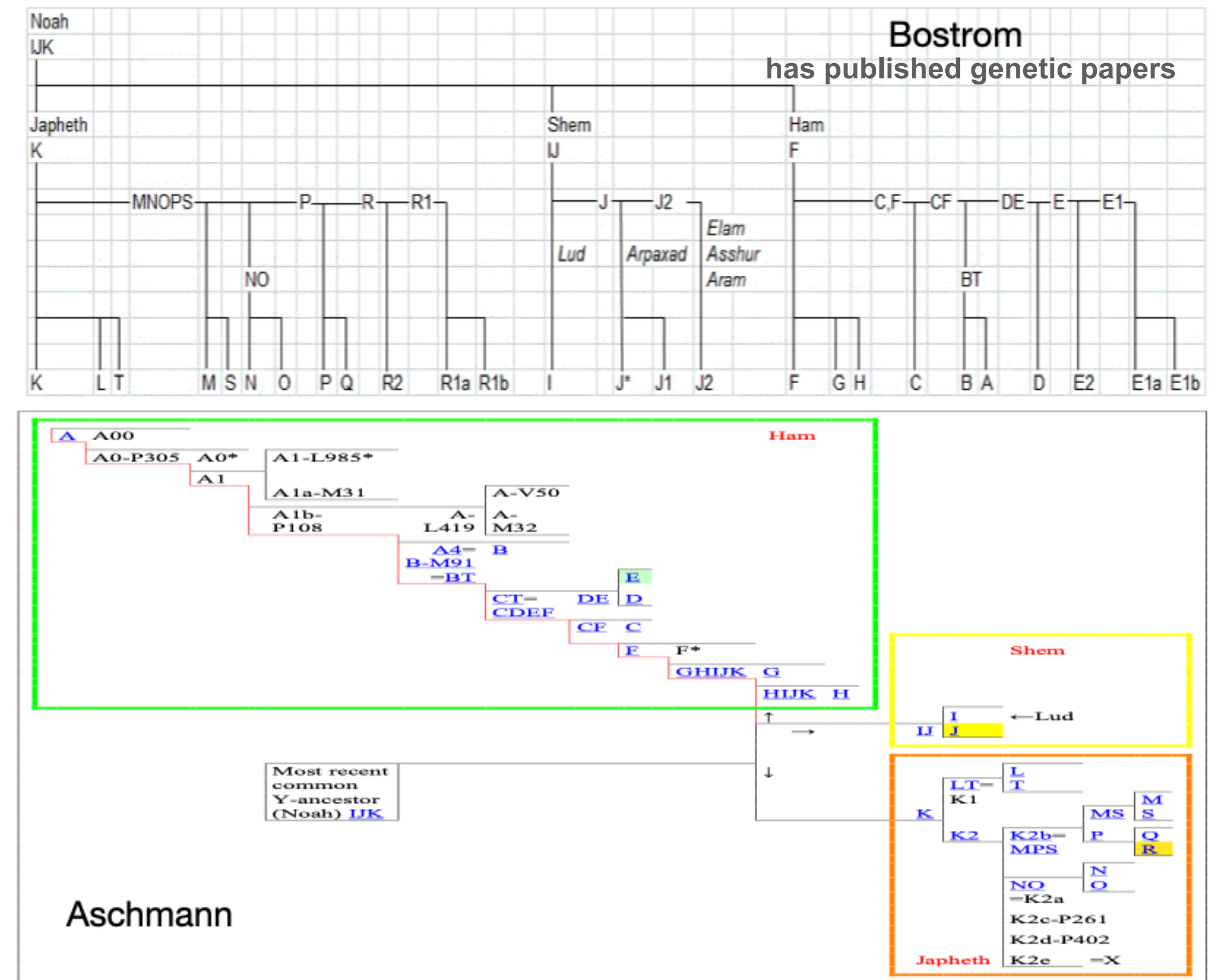
- Jews most likely Haplogroup J – Significantly changes AIG findings

Some assumptions used in DNA Haploid analysis

Can we make a connection to migration patterns with DNA alone

references

- Common assumptions
 - Each generation has measurable change in either mtDNA or Y-DNA
 - Mutations do not repeat themselves in other branches
 - Mutations do not reverse themselves by mutating back
 - No major mixing of haplogroups due to wars and migrations



- These are major assumptions but other Christian researchers have tried to make definitive statements

Inventor of the Gene Gun

- Professor at Cornell Univ
 - PHD in plant breeding and plant genetics
- Inventor of the Gene Gun -> how you get genetically modified food came about in an effort to improve food plants resistance to diseases – by shooting DNA into the cell wall
- 80 scientific papers and has 30 patents and two companies
 - This allowed him to retire from Cornell at 48
- His research naturally led to understanding genetic populations
- After being saved, led Christian research on genetic population
 - Led development of *Mendel's Accountant*
 - A comprehensive and biologically realistic numerical simulation of the mutation/selection process



- By his own admission “Evolution was my religion”

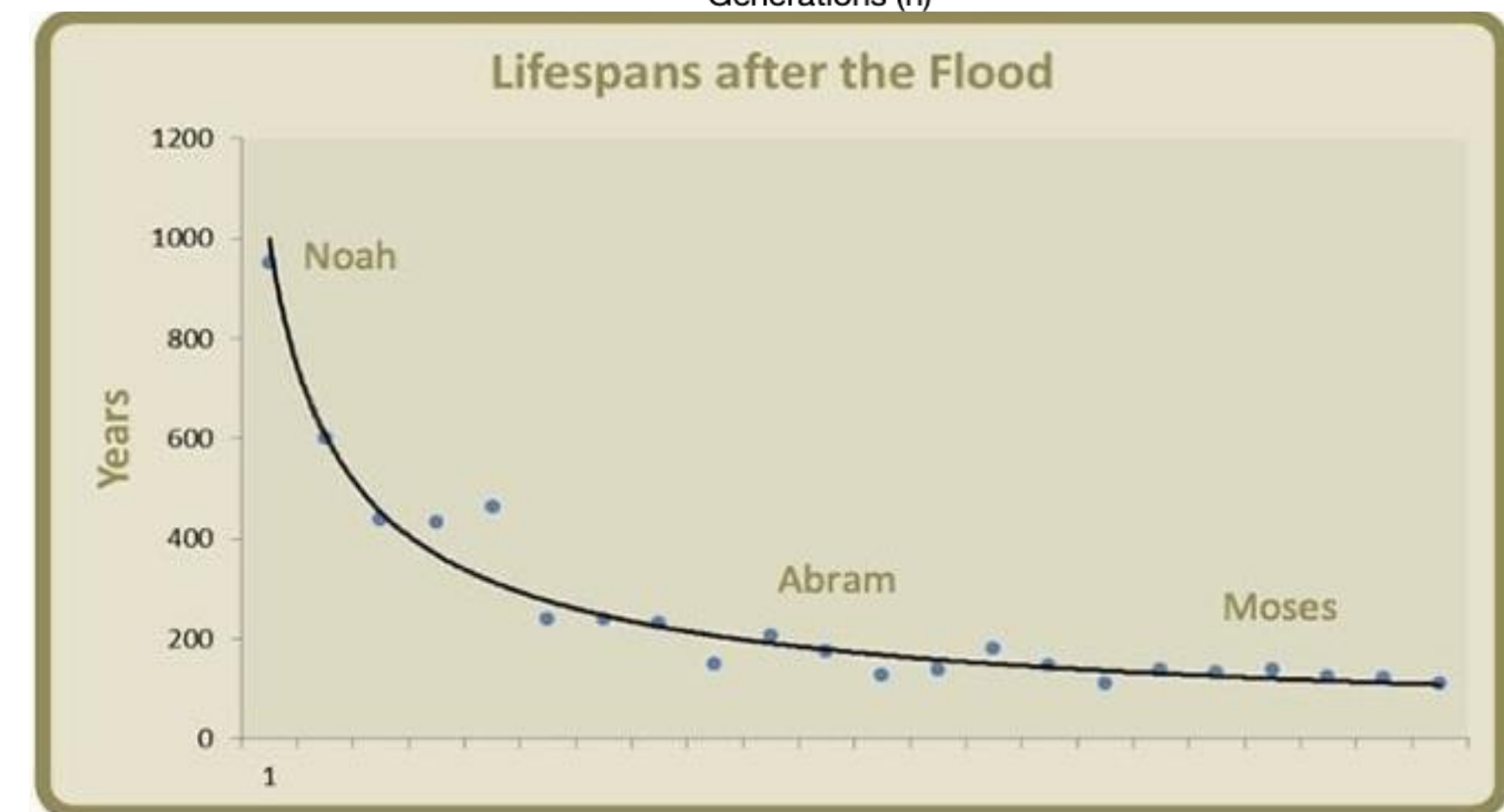
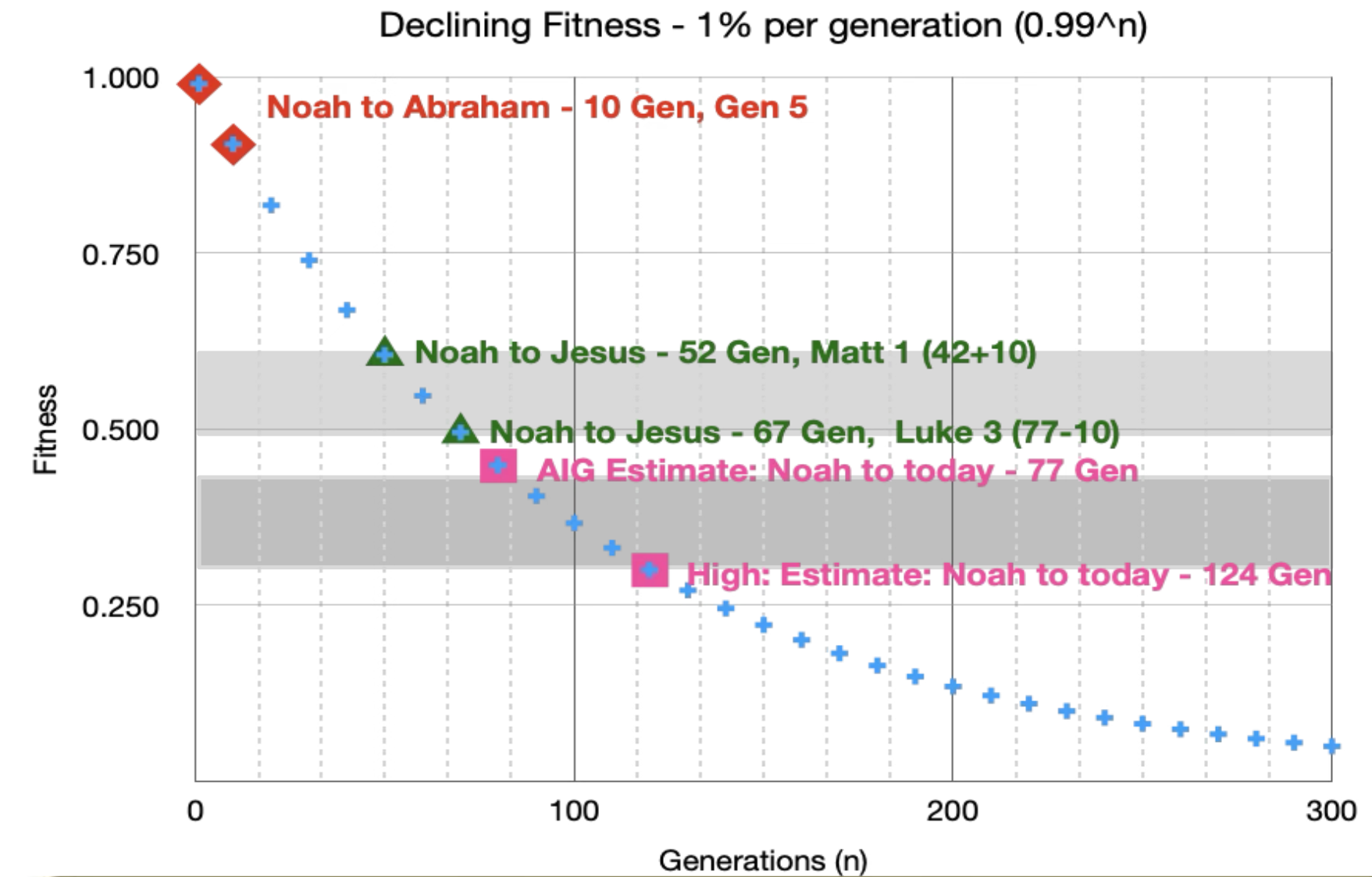
Believer changed radically by Jesus

- Research in genetic populations → his book on Genetic Entropy
 - Mutations are word-processing errors in the cell's instruction manual.
 - Mutations systematically destroy genetic information
 - What he found was – mutations are overwhelmingly deleterious
 - Natural selection – can only remove a small fraction mutations
 - It only slows mutational degeneration, but does not actually stop it.
 - Even with intense selection, evolution goes toward extinction!
 - Powerful evidence that life and mankind must be young (meaning thousands of years old)
 - This is not just another piece of research –
 - theoretically thorough
 - extensively validated by rigorous numerical simulation
 - Real world data on H1N1 – Spanish flu
 - The Theory Evolution has been falsified scientifically!
- Secular genetic populations scientists have been unable to rebut the research

Genetic Entropy

Mutations are our enemy

- Entropy is the amount of disorder or randomness in a system
- Genetic entropy is the disorder in genes due to mutations in DNA
 - That is why lifespan got shorter
 - Disorder due to build up of deleterious mutations over generations
- People cannot be hundreds of thousand years old
 - The human race would have died out long ago
 - Strong argument for a young earth



- Genetic Entropy - a primary reason why Jesus returns soon

Science – Dr Robert Carter

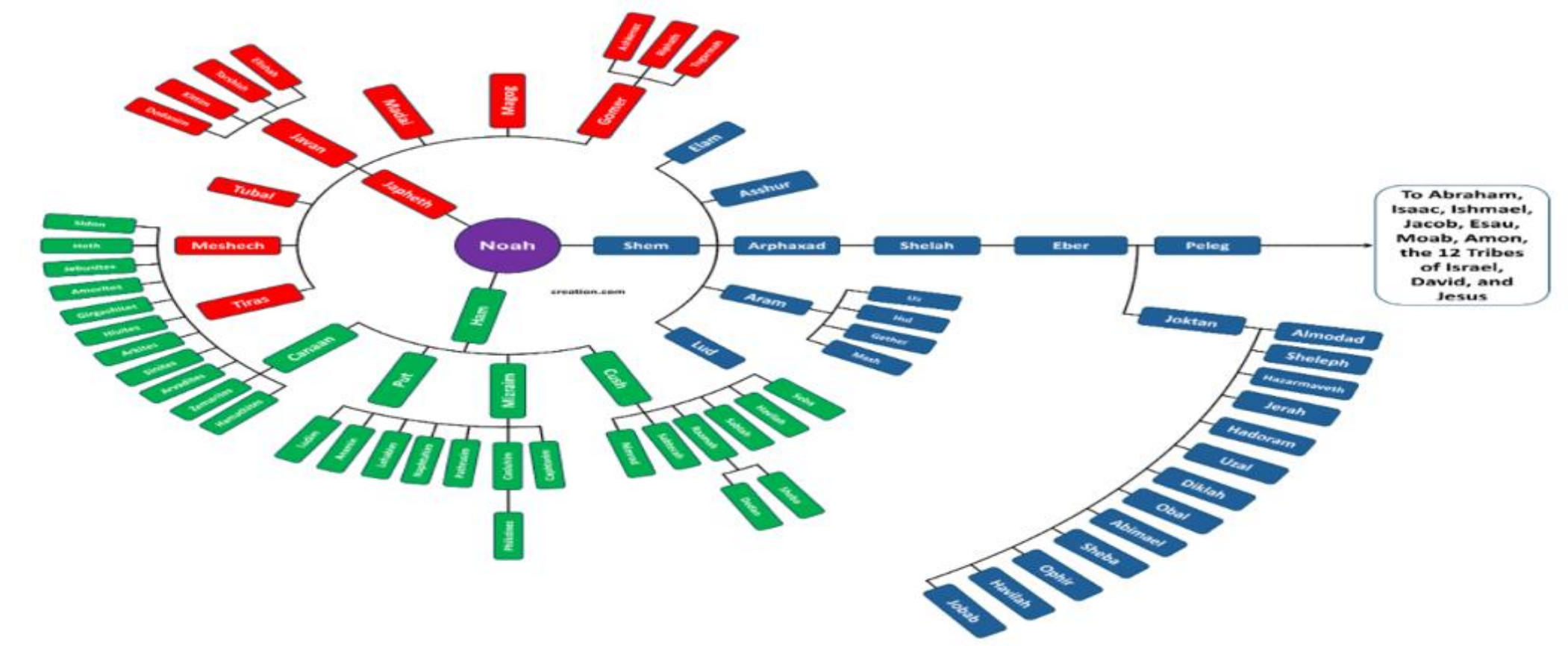
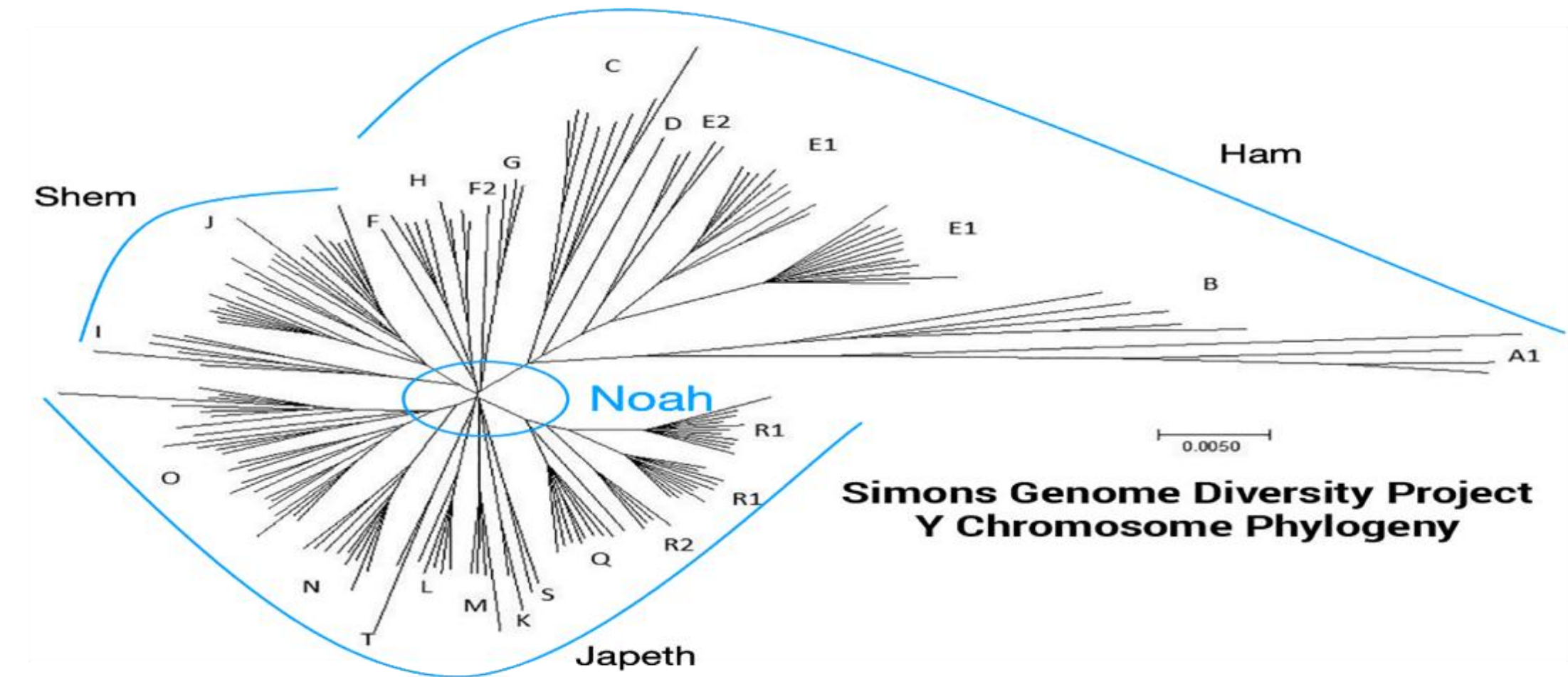
Genetics and the Bible

- PHD in Marine Biology
 - Designed aquaculture facility for Caribbean corals and on impact studies of dredging to coral reefs
 - Has a background in genetics, gene cloning and sequencing, and transgenics, he soon began to work on the GENE project team at Institute for Creation Research
 - Moved to Christian Ministries International – continued his research
 - Published extensively with Dr Sanford and others well known scientist in both secular and Christian journals
 - **What can DNA tell us about the truth of the Bible? With Dr. Robert Carter - Podcast Episode 204**
<https://www.youtube.com/watch?v=zNykXUgygow>
 - **Biblical Worldview as it Relates to Science - Dr. Robert Carter**
https://www.youtube.com/watch?v=PD6_0voldbc
 - **Biblical Genetics with Dr. Rob Carter (Episode 1 of 4)**
<https://www.youtube.com/watch?v=yATFNaNK-do>
- Dr Carter's research takes off from Dr Sanford's research to challenge evolutionary theories



Patriarchal Drive

- As we stated earlier both secular scholars and Christian scholars are taking the phylogenetic tree data to try to match it to human history
- As expected, the different worldviews provide distinctly different stories
- But is it feasible to think we can map out the nations from Genesis 10
- To start this section lets relook at the Simons Genome data on the Y chromosome vs a radial Table of Nations

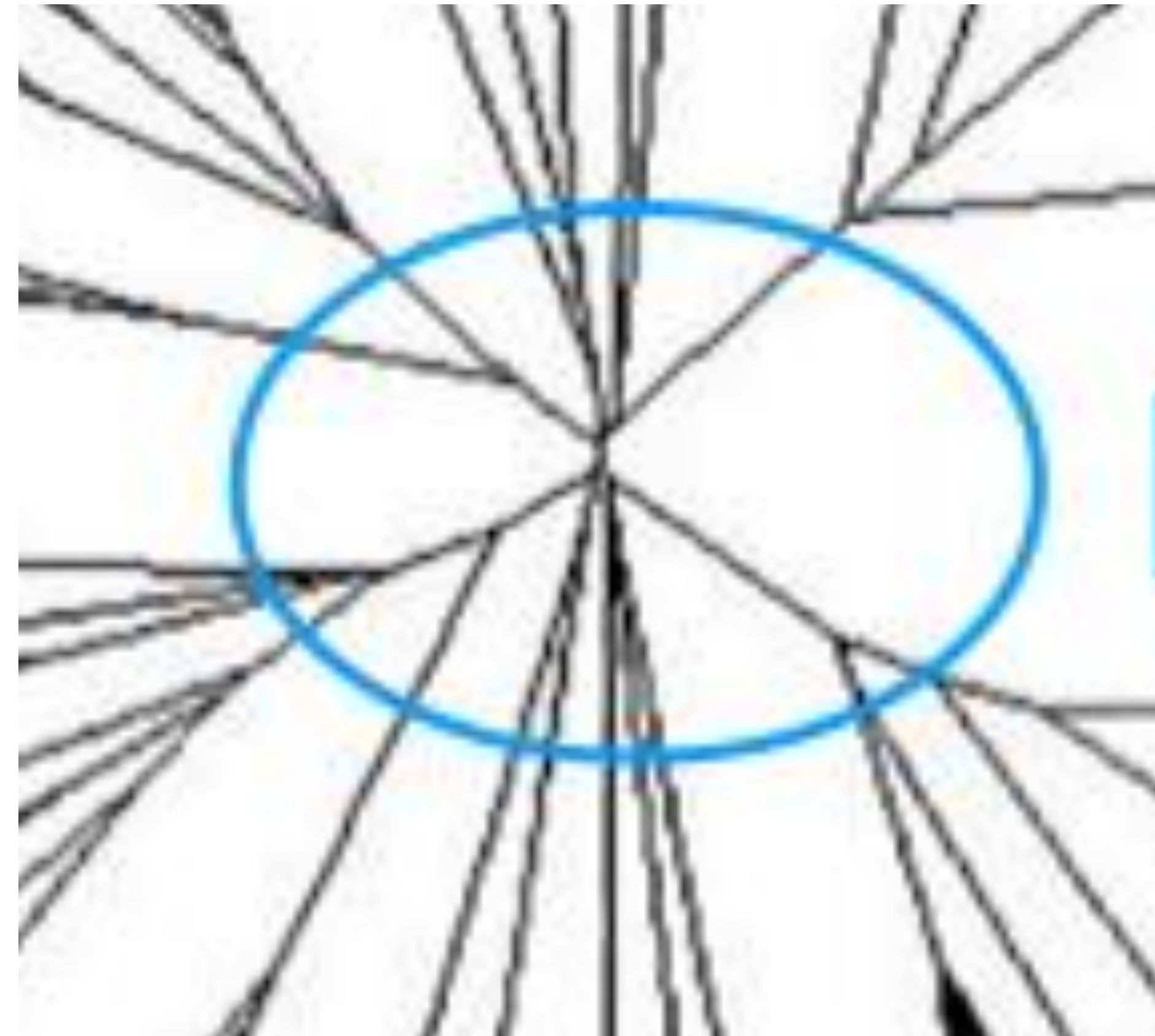


Flip table of natons

- There are a lot of similarities – look closely, didn't have the tools to redraw
- It looks very promising, but.....

Patriarchal Drive

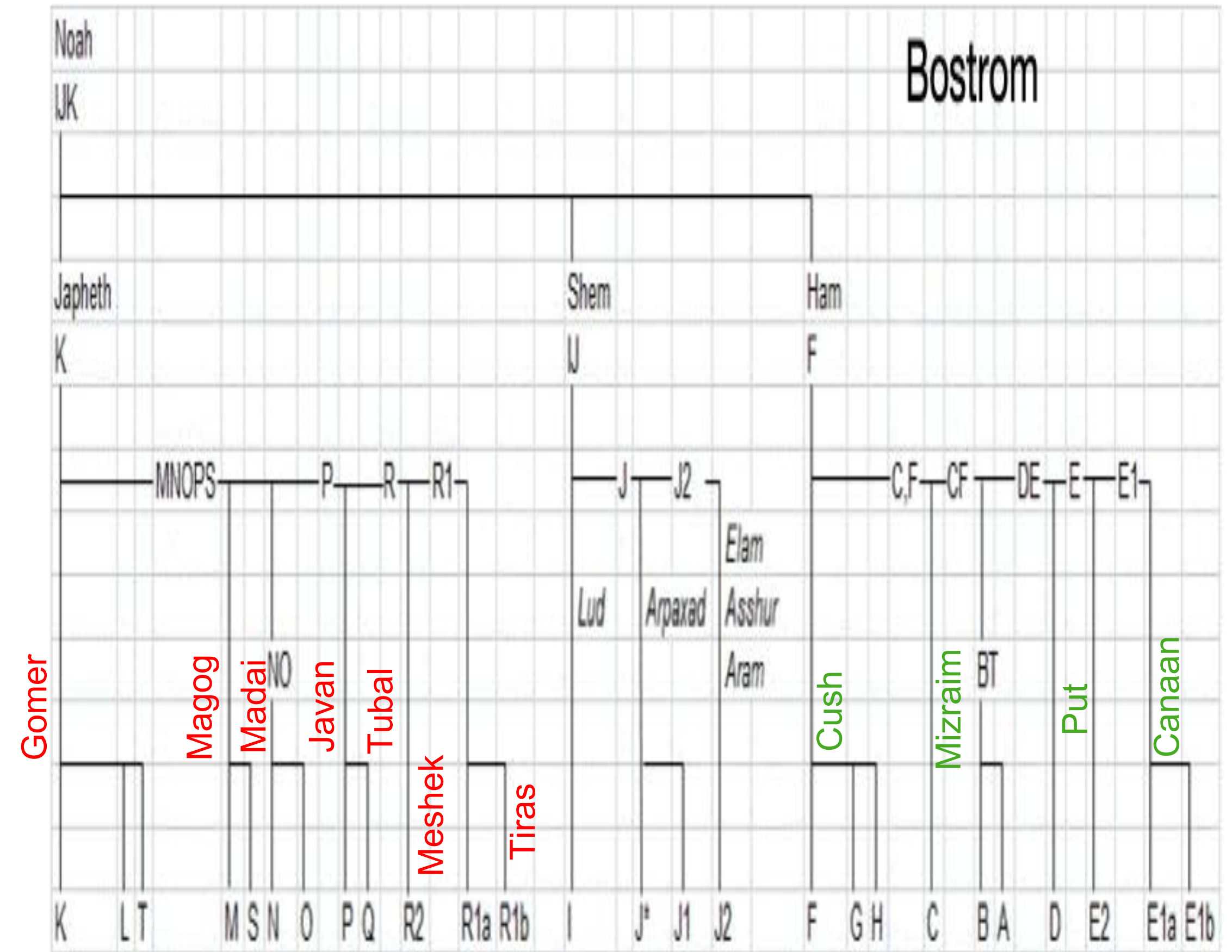
- The Y chromosome phylogenetic tree has oddities
 - The innermost branches are not the result of a slow accumulation of mutations
 - Instead, they have very high early mutation rates
- Mutations passed by fathers increase with their age
 - The patriarchs were old men
 - Noah \approx 500 yrs old
 - Shem, Ham, Japheth \approx 100 yrs



- This is consistent with patriarchal men being the fathers post-Flood

Patriarchal Drive

- Fathers can pass different mutations from child to child
 - There is no reason to expect every male to receive the same number of mutations, but there is every reason to expect centuries-old men to pass on many times more mutations than the modern average
- No new roots today, nearly all mutations passed on today are lost in genetic drift

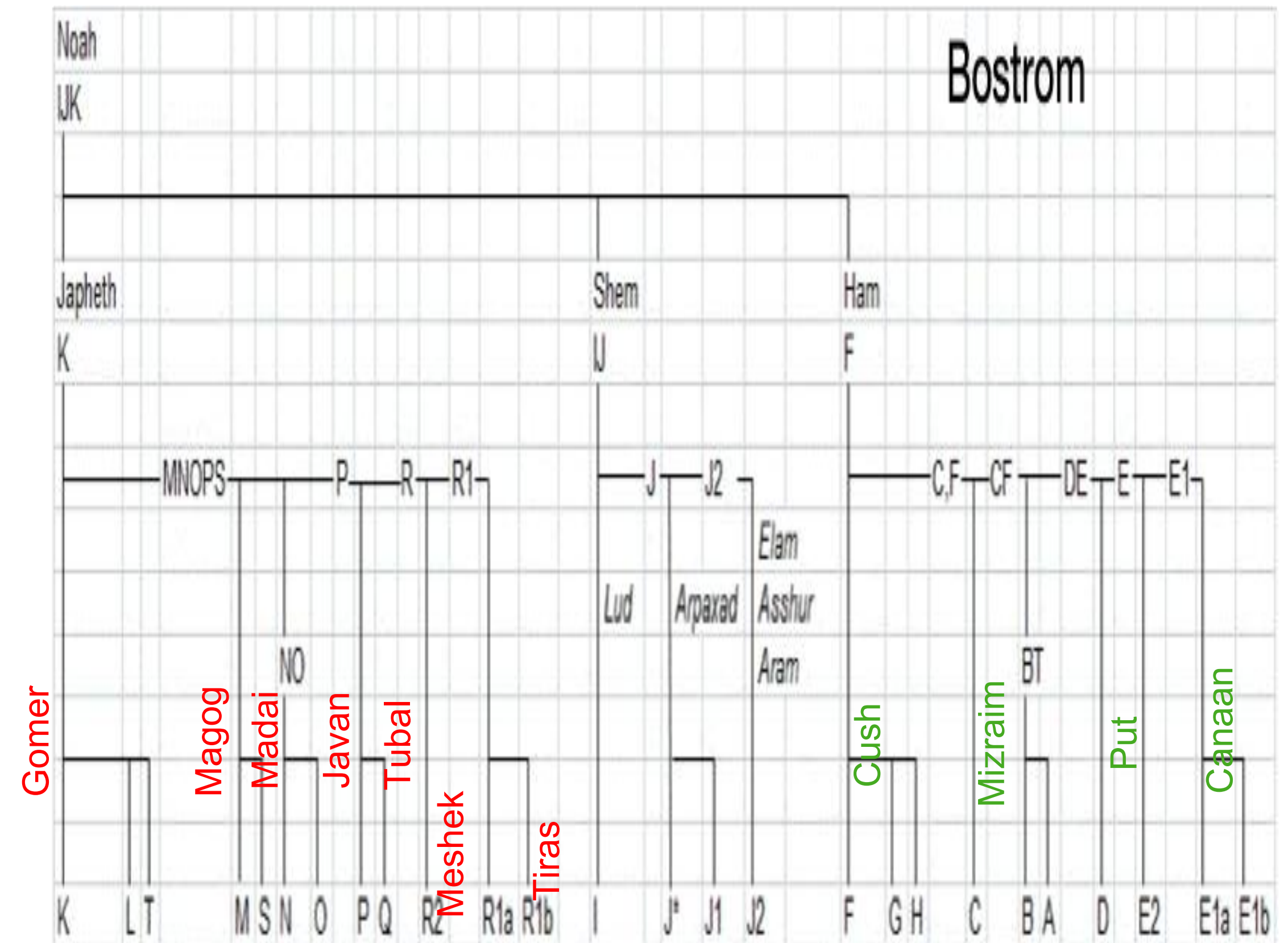


- This is consistent with patriarchal men being the fathers post-Flood, but not with you really struggle to make sense verses the migration maps

Table of the Nations

Gen 10

- DNA data is helpful for analysis of migrations
- You cannot accurately place all the names of the Table of Nations using DNA
 - This is an important limitation
 - Further, further identifying explicit sons is difficult due to high mutational loads from Patriarchal Drive
- Similarly, we should not expect evolutionary identification of locations and timing to be completely accurate.
 - Genetic Entropy is a real thing that can't be wished away, which drives us to a young earth
 - The phylogenetic trees are post-Flood depictions of the human race



- God has placed DNA information within us to lead us to seek for Him. DNA is a strong reason to believe in a creator.
- Similarly, Genetic entropy is a strong reason to be watching for His return

Daves's section

Summary

- What can DNA tell us
 - DNA can be used to validate Adam (Y Chromosome) and Eve (Mitochondrial DNA)
 - Genetic entropy shows the earth has to be young; biblical account of patriarchs is accurate
 - Limitations of DNA
 - Haplogroups are useful for examining trends in migrations but you cannot match the Table of Nations to the haplogroups with complete accuracy
 - Next podcast we will examine traditional migration data to understand the Table of Nations and we intend to use some haplogroup data where applicable
-
- Will this help us determine the 8th Beast's nation

Question of the Day

- Who is the 8th Beast?

- Homework – Read Rev 13 and 17, Ezekiel 38-39

Bibliography images Module 2

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- Slide 7 yourgenome, Genome Research Limited; Creative Commons Attribution 4.0 CC-BY License, <https://www.yourgenome.org/theme/what-is-dna/>
- Slide 8: Dr Tour podcast; The Science and Faith Podcast https://www.youtube.com/playlist?list=PLILWudw_84t0scCNBJMZLjuUdFowl9Hc2
- Origin of Life Crisis: Rice's Dr. James Tour Calls Out Bad Science at Harvard <https://www.youtube.com/watch?v=JljpWgEDH8>
- Slide 10: American Society of Human Genetics, <https://www.ashg.org/discover-genetics/building-blocks/>
- Slide 11: Hallast, P., Agdzhoyan, A., Balanovsky, O. *et al.* A Southeast Asian origin for present-day non-African human Y chromosomes. *Hum Genet* 140, 299–307 (2021). <https://doi.org/10.1007/s00439-020-02204-9>
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- Slide 13 right: Matt Welborn PhD, October 01, 2022, Biblical History and the Y Chromosome <https://tasc-creationscience.org/article/biblical-history-and-y-chromosome>
- Slide 14: Dominant Y-chromosome haplogroups in pre-colonial world populations, with possible migrations routes according to the Coastal Migration Model. [Brilliant Maps](https://geneticliteracyproject.org/2017/07/25/y-dna-redrawing-map-europe-north-africa-middle-east-based-male-lineages/#) | July 25, 2017 The Genetic Literacy Project <https://geneticliteracyproject.org/2017/07/25/y-dna-redrawing-map-europe-north-africa-middle-east-based-male-lineages/#>
- Slide 15: Migration Map: Douglas C. Wallace "Mitochondrial DNA Variation in Human Radiation and Disease" *Cell*, Volume 163, Issue 1, 33 – 38 September 24, 2015
- Slide 16: repeat of slide 14 and 15 side by side

Bibliography images Module 2

- Slide 19 Left: Sahakyan, H., Margaryan, A., Saag, L. et al. Origin and diffusion of human Y chromosome haplogroup J1-M267. Sci Rep 11, 6659 (2021). <https://doi.org/10.1038/s41598-021-85883-2>
- Slide 19 Right: Iraniangen.blogfa, Y-DNA Haplogroup distribution map of J2-M172, Created: 8 May 2017, CC BY-SA 4.0, File:J2-Y-DNA-Haplogroup-Map-J2-M172-Map-J2-Haplogrubu-Haritasi-v3.png
- Slide 17: a reconstruction diagram from Genesis 10
- Slide 18: “The promises and pitfalls of correlating Y chromosome genetics to human history” JOURNAL OF CREATION 36(2) 2022 || BOOK REVIEWS on “Traced: Human DNA’s big surprise” Nathaniel T. Jeanson Master Books, Green Forest, AR, 2022
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- Sanford J.C., Genetic Entropy, FMS Publishing, **Reference:** .90-7-971, 270 pages, 7 Nov 2014
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- Slide 28 lower: [Dr Robert Carter](#), 29 Oct, 2024, **Can we place the sons of Noah on the Y chromosome tree?** <https://creation.com/en/articles/sons-of-noah-y-chromosome-tree>