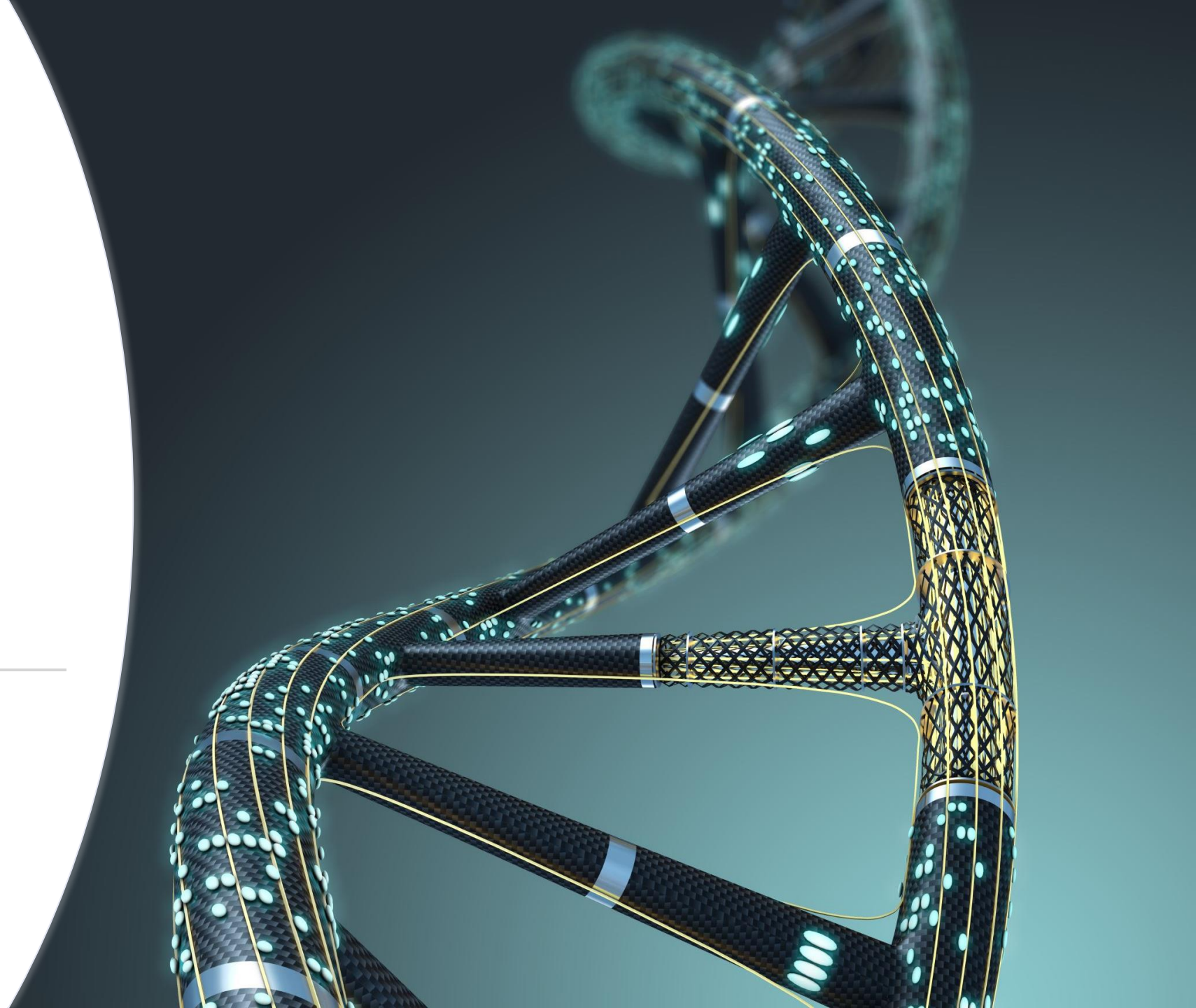




DNA Project Update

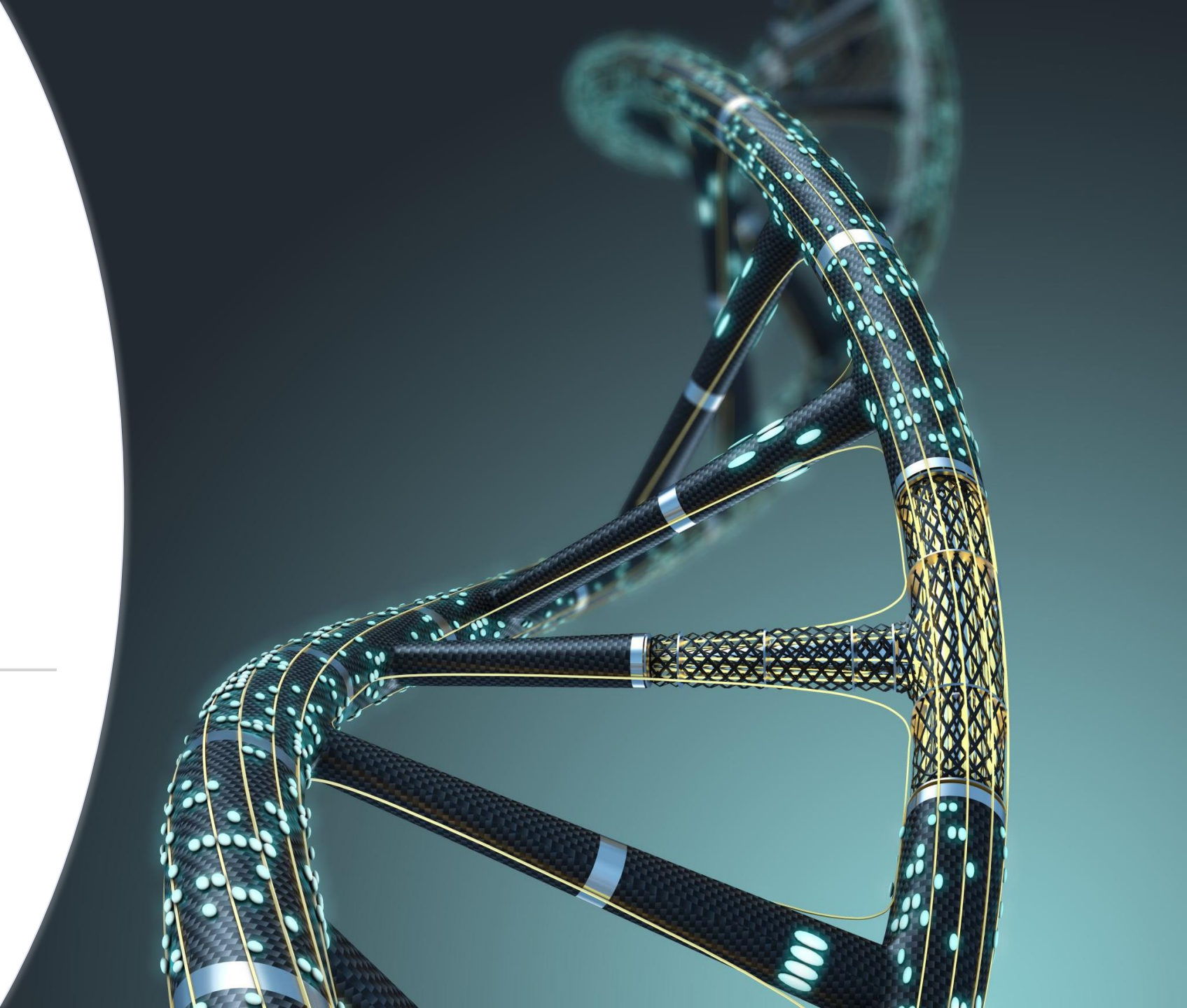
Brandywine Reunion 2024

Margie Romine



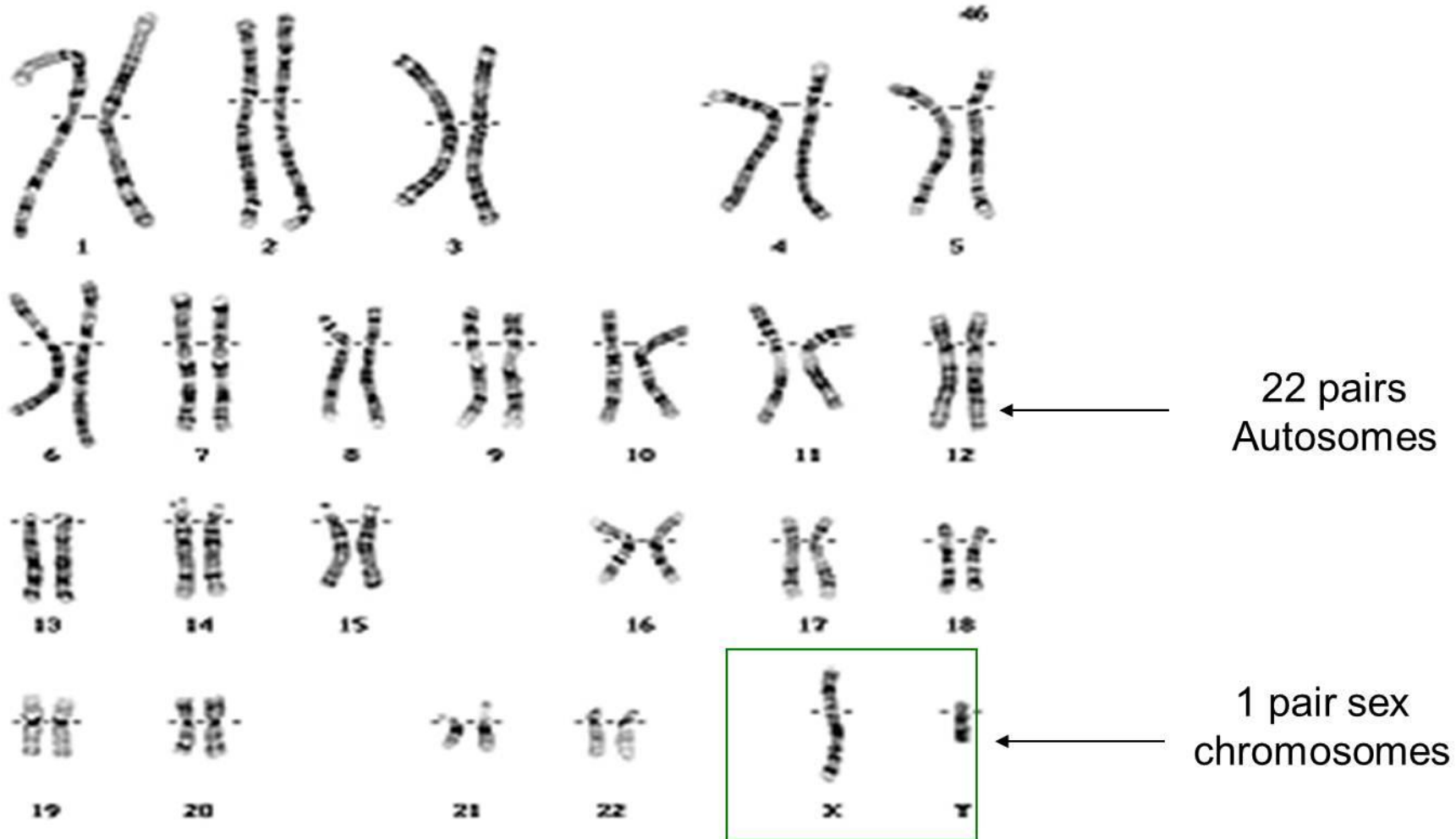
Outline

- yDNA testing overview and terminology
- Our yDNA testing results to date
- Speculations on our early Cox ancestors
- Tips for research



yDNA Testing
Overview and
Terminology

What is yDNA?



- Women have 2 X chromosomes
- Men have 1 X and 1 Y chromosome (yDNA)
- Therefore, the yDNA is passed only to male offspring

What is yDNA testing?

- The use of DNA sequencing methodology to analyze **targeted regions** of a yDNA sample
- The **goal is to identify differences** (STR count and SNPs) in the DNA sequence relative to a standard yDNA sequence.
 - Since only part of the yDNA chromosome is sequenced, it is not surprising that we are not able to detect a new nucleotide change in every ancestor
 - On average, a new SNP is detected every 83 years (abt. 3 generations)
- SNPs are inherited so **serve as a signature** unique to different ancestral male lines
- SNPs are **cumulative** so the most recent tester will have all of the SNPs that arose in all of the male ancestors that he directly descends from!

Two Types of yDNA Tests at FamilyTreeDNA

~~Y12, Y25, Y37, Y67, Y111~~

Y700 (BigY)

Short Tandem Repeat (STR)

ACCACACACACATT	(CA) ₅
ACCACACACA--TT	(CA) ₄
ACCACACA----TT	(CA) ₃
ACCACA-----TT	(CA) ₂
ACCA-----TT	(CA) ₁

Short Tandem Repeat (STR)

ACCACACACACATT	(CA) ₅
ACCACACACA--TT	(CA) ₄
ACCACACA----TT	(CA) ₃
ACCACA-----TT	(CA) ₂
ACCA-----TT	(CA) ₁

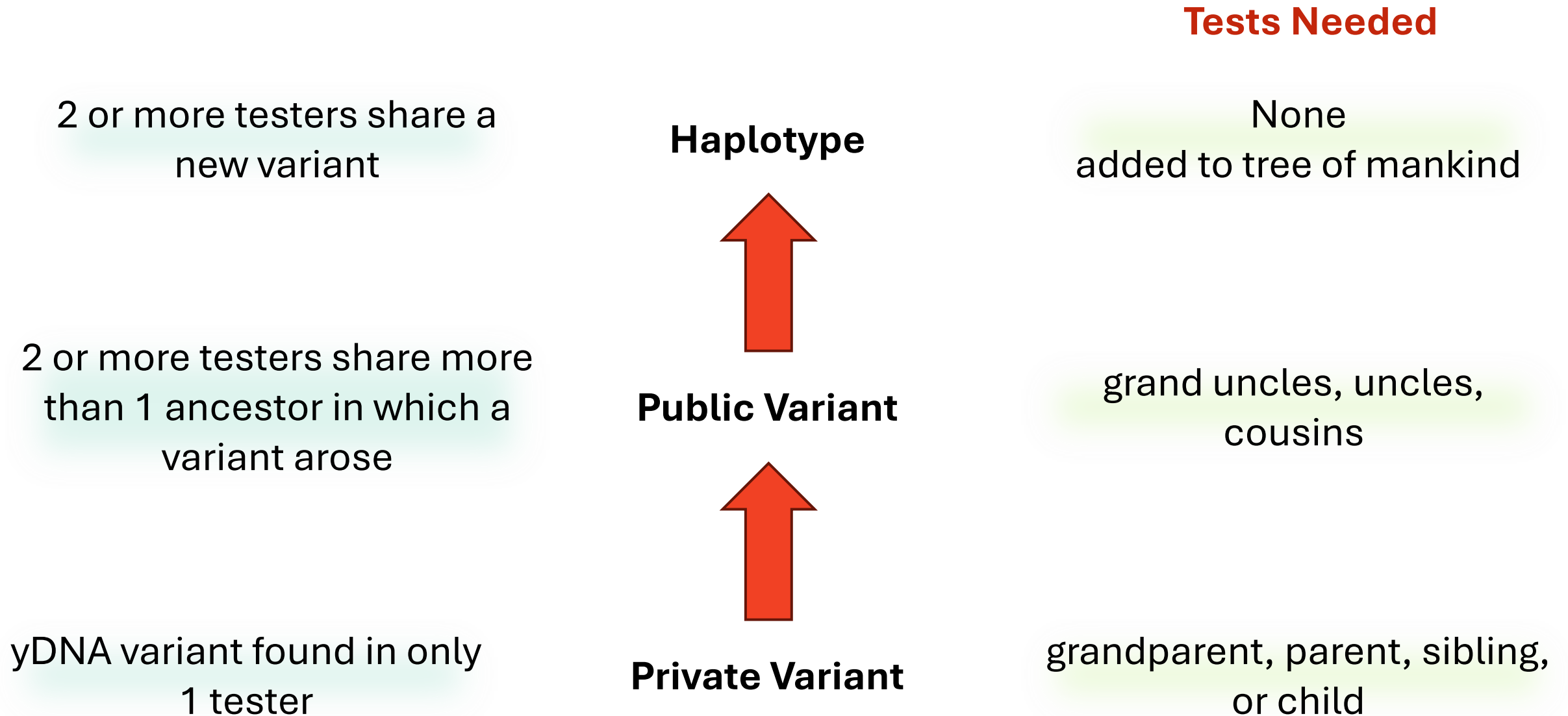
Single Nucleotide Polymorphism (SNP)

ACAAGTTT
ACAAGTTT
ACA T GTTT
ACAAGTTT
ACAAGTTT

- Analysis of regions of yDNA known to contain repeated nucleotide sequences
- **These tests can only identify groups of men that descend from a common ancestor that was born well before the current era (1000's of years ago)**

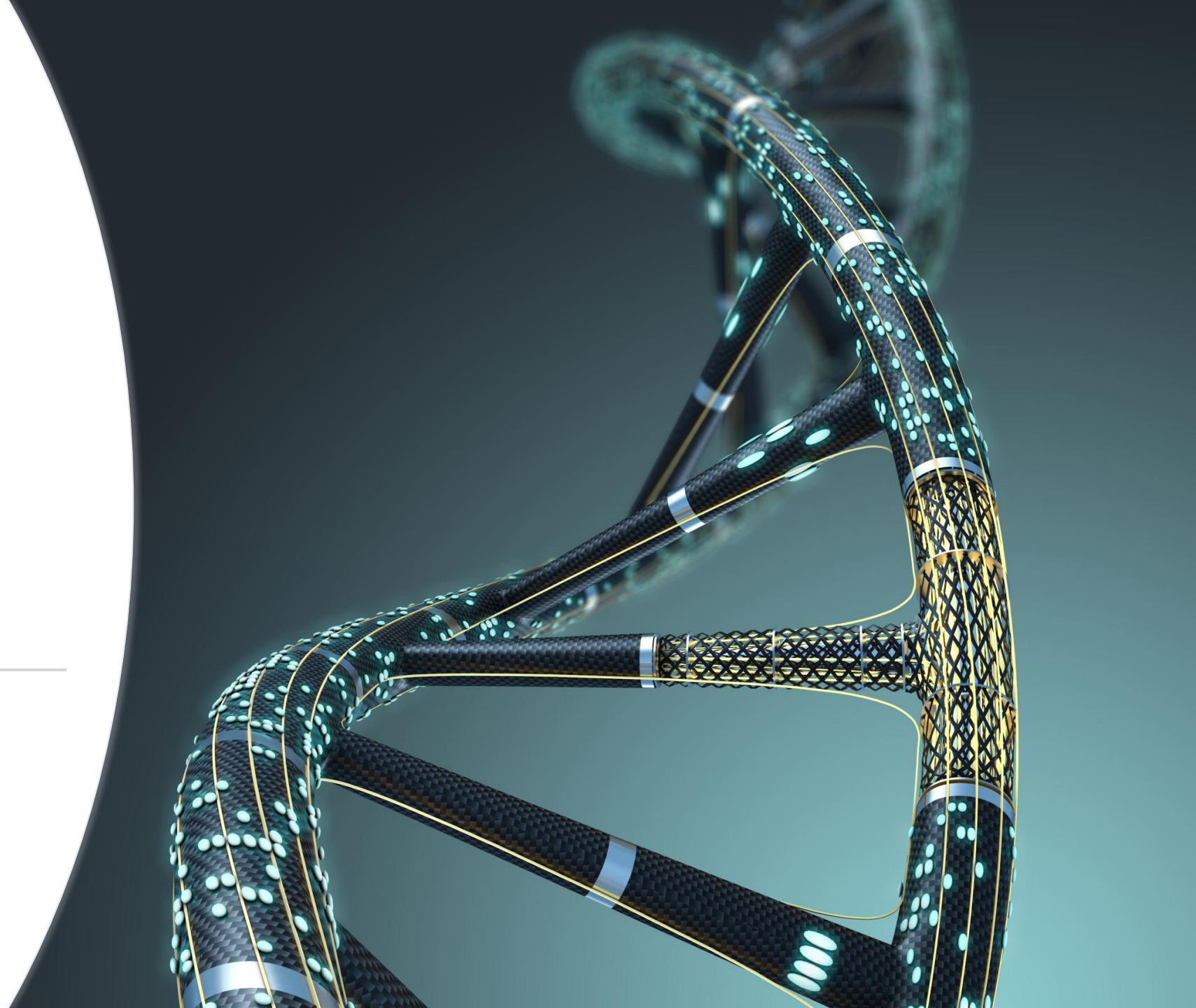
- Analyses of additional yDNA regions with repeated nucleotide sequence
- Identifies point mutations in DNA (SNP)
- **Establishes relationship between testers and identifies approx. date that common ancestor of testers was born**

Y700 Tester Variant Naming Terminology





Our yDNA Testing Results to Date



Brandywine Cox Tester Talley

	Y37	Y67	Y111	Y700	Total
Testers	47	13	7	28	95

New this year

- 4 upgraded to Y700
- 3 new tests at Y700
- 1 new Y111, upgrade submitted

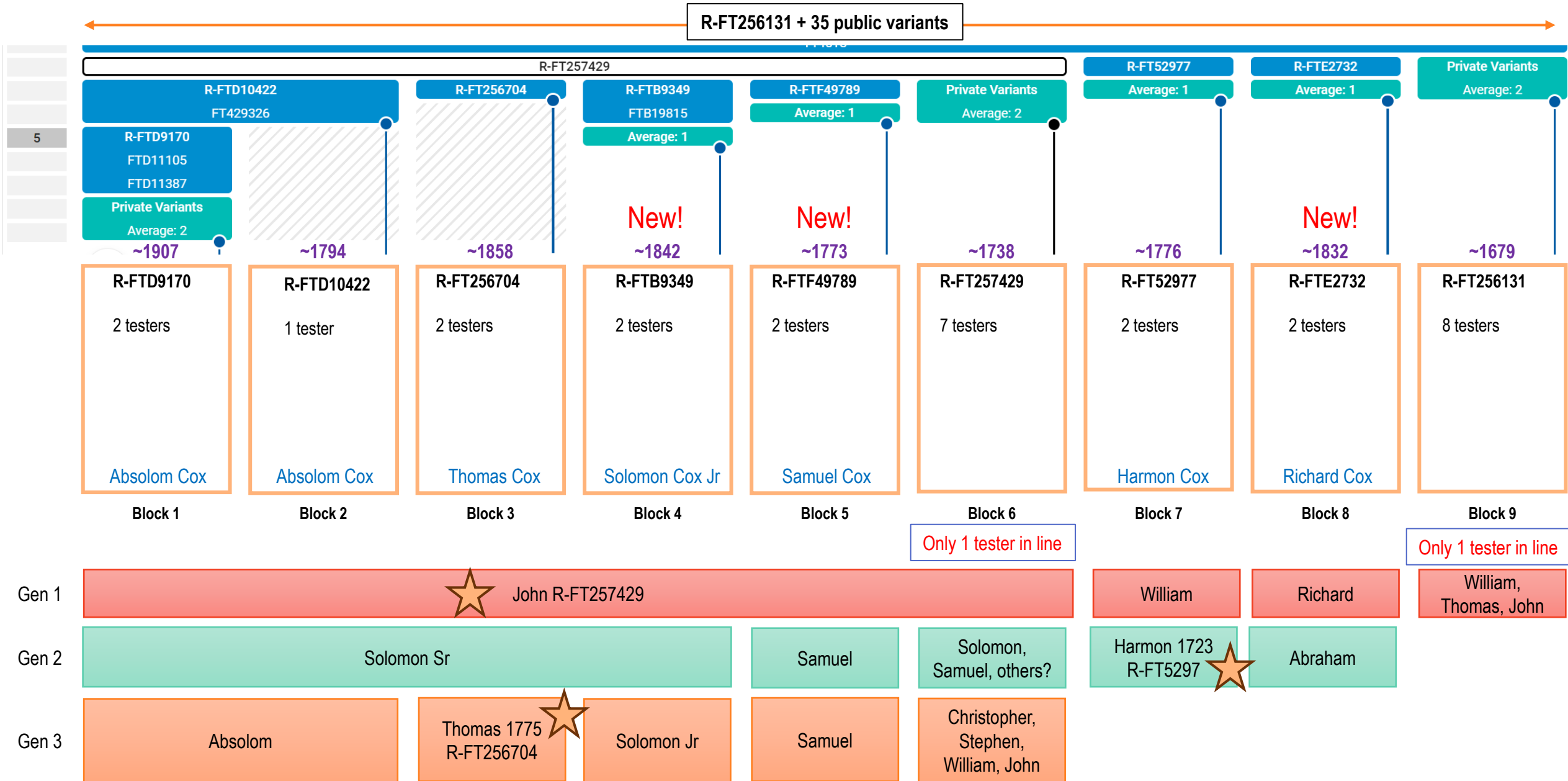
	Solomon	Absolom	Christopher	Thomas	Stephen	Total
Y37	6	8	1	7	0	22
Y67	0	2	0	2	0	4
Y111	0	1	1	0	0	2
Y700	2	3	1	2	1	9
Total	8	14	3	11	1	37

Children of Solomon Cox
(descendant of John Cox)
and Naomi Hussey

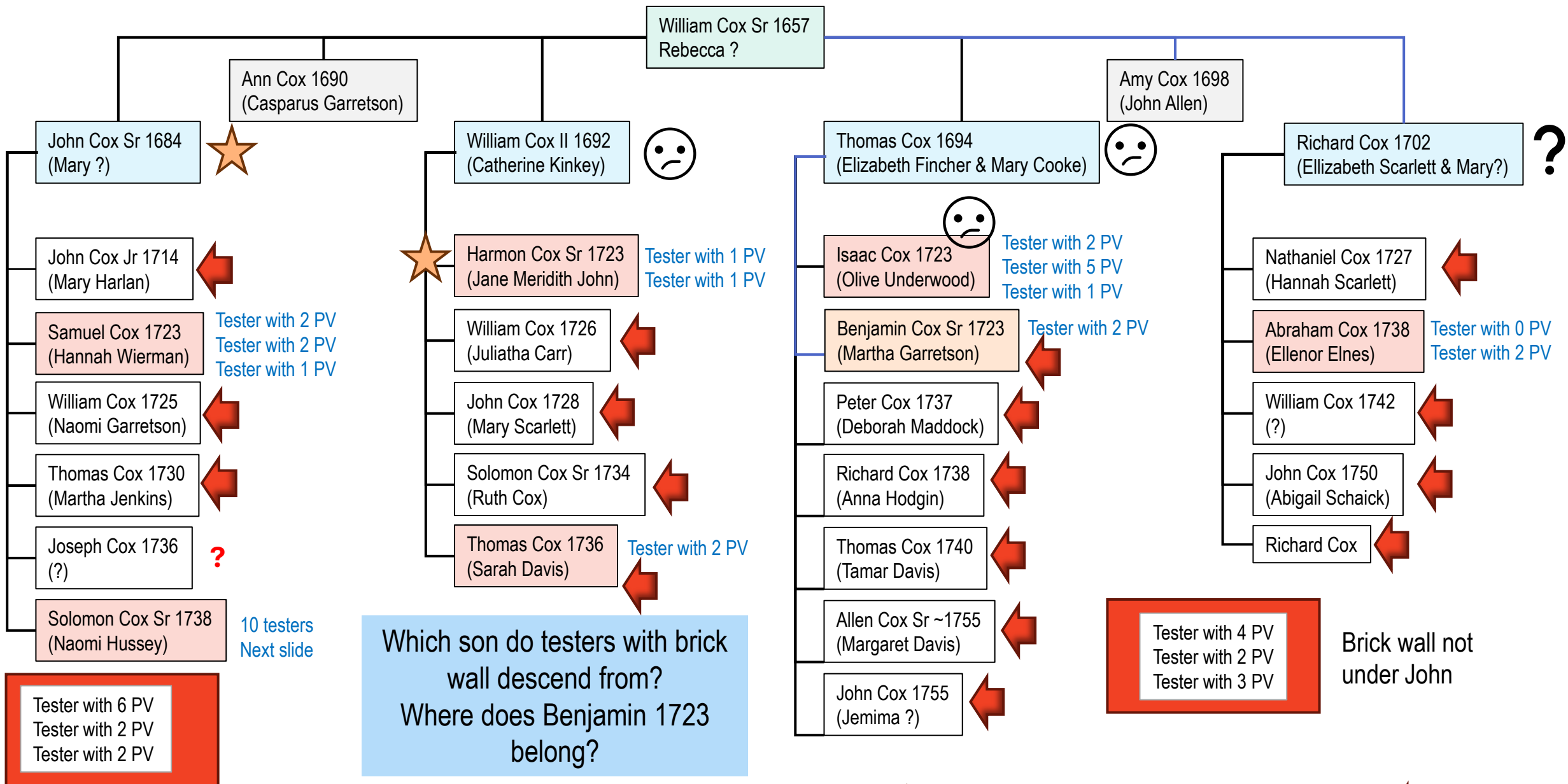
Test	John	Richard	William	Thomas	Unknown	Total
Y37	27	0	3	4	13	47
Y67	5	0	0	1	8	14
Y111	4	0	0	0	3	7
Y700	13	2	3	3	7	28
Total	49	2	6	8	31	96

Early Cox Ancestors

Y700 Results – 3 New Haplotypes



Family Tree Suggested by Six Columbiana County, Ohio, Pioneer Families v. 5



Brick wall under John

★ Haplotype identified ☹ Lack of SNP confirmed → Testers needed



Tests from these lines needed to answer questions

Solomon Cox Sr
(Naomi Hussey)
1738-1820

Solomon Cox Jr 1761
(Martha & Mary Dixon) ?

Joseph Cox 1789
(Amy Baker) Tester 1 PV
Tester 1 PV

Benjamin Cox 1791
(Casiah Barbee)

Nathan Cox 1814
(?)

Stephen Cox 1816
(Mary Dowell)

Solomon Cox 1820
(Nancy Cooper)

Absalom Cox Sr 1767
(multiple proposed) ?

John Cox 1796
(Sarah Cline)

Daniel Cox 1800
(Amy Cox) tester 1 PV
tester 2 PV
Tester 0 PV

Absalom Barton Cox Jr 1802
(Diannah Cox & Dialtha Bird)

Joseph Cox 1804
(Hannah Helsey)

Christopher Cox 1773
(Hannah Johnson) ?

William Cox 1803
(Elizabeth Jackson)

Cornelius Cox 1806
(Katherine Jackson) tester 1 PV

Thomas Cox 1775
(Rachel Carr) ★

Solomon Cox 1798
(Elizabeth Johnston)

Nathan Columbus Cox 1800
(Dorcus King) Tester 0
PV

Jehu Cox Sr 1803
(Sarah Pyle) Tester 0 PV

Stephen Cox Sr 1779
(Mary Robinson) ☹️

John Cox 1800
(? Storey) Tester 0 PV

Jesse Cox 1805
(Elizabeth ?)

Nathaniel Cox 1806
(Mary Cox)

Solomon Cox 1808
(Catherine)

Stephen A Cox 1809
(Rebecca Mahan) tester 4 PV

Christopher Cox 1810
(Charlota Jones)

Luke Cox 1814
(Elizabeth Oliver)

Joseph Cox 1822

Did variants arise in Solomon Jr, Absalom or Christopher?

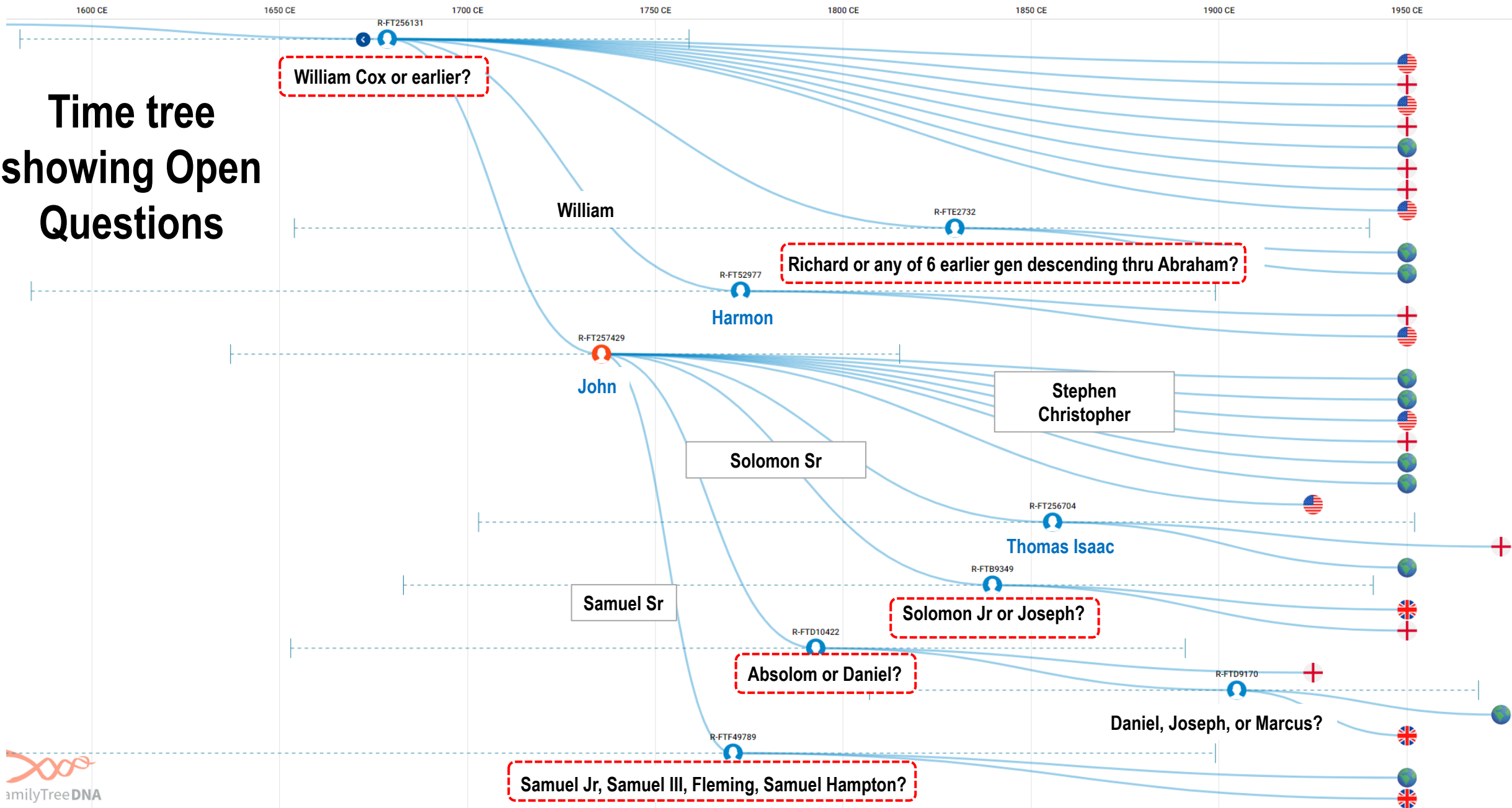
Is Benjamin 1791 the son of Solomon or Thomas?

3 testers with brick walls share the haplotype with this group. Do any descend from Solomon? We need for haplotypes from these lines and those of Solomon's brothers to help them connect to the Cox tree.



All lines under Stephen need more testers since no variant arose in Stephen

Time tree showing Open Questions



DNA testing Companies

- yDNA tests should be taken at FamilyTreeDNA
 - They is currently a sale going on until June 17. There probably will not be another one until Fall.
- Autosomal Tests can be taken at numerous places (e.g. FamilyTreeDNA, Ancestry, MyHeritage, 23 and Me).
 - These tests can be uploaded for free to FamilyTreeDNA, MyHeritage, and Gedmatch.
 - We have an Ancestry project called Quaker Cox Surname Project at Gedmatch. By joining this project you can focus on matches within our Cox line. We use this project to help refine our family tree.
 - We do encourage women to join the yDNA project at FamilyTreeDNA as well to help out with understanding relationships between testers in our family.



Speculations on
Early Cox
Ancestors

William Cox, father of John Cox

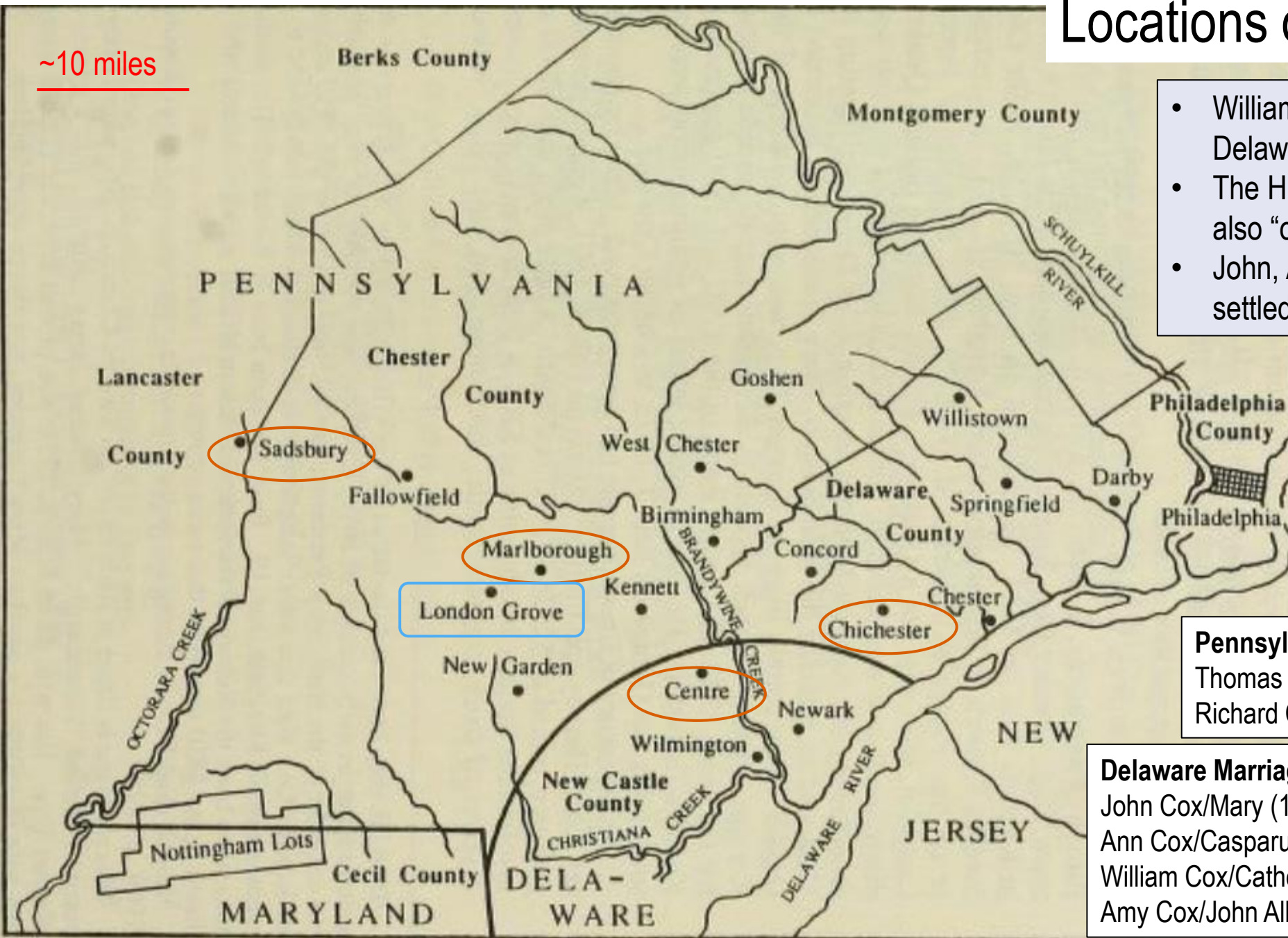
Year	Event	Source
1681	William Penn receives charter for lands in America <ul style="list-style-type: none">1st from King Charles II the province of Pennsylvania (upper counties) on the west bank of the Delaware. Restricted to a line 12 miles from New Castle (later Delaware).2nd from the Duke of York the three "lower counties" (later Delaware)	many
10 Dec 1682	23 ships from Penn sailed from UK to PA to settle Penn's land <ul style="list-style-type: none">On the Hester + Hannah ship - William Cox of GloucestershireLanded in Upland, New Castle Co. DE	Passengers and Ships Prior to 1684 William Penn's Twenty-Three Ships (Ancestry)
1683	William Penn granted land in New Castle, Delaware to a William Cox who has a son named John Cox	8 May 1743 Deed of John Cox, son of William Cox, selling estate on west side Christiana New Castle Co. DE to William Patterson in order to pay of debts,
21 May 1743	Estate of William Cox, executor John Cox. Among payouts are: <ul style="list-style-type: none">William Cox of OckassinCornelius Garretson (possible brother to Mary Garretson)Ammey Cox	Delaware, US, Wills and Probate Records, 1676-1971, alphabetical listing – William Cox 1743

Marriages Witnessed by Cox Family

Date	Place	Couple	Cox Witnesses
20 Aug 1720	New Garden PA	John Todd & Margaret Cain	John & Mary Cox
25 Aug 1721	Center DE	Joseph Hadley & Emey Gregg	John & Mary Cox, Ann Garretson (nee Cox), Emey Allen (nee Cox)
2 Sep 1722	London Grove PA	Thomas Cox & Elizabeth Fincher	John & Mary Cox, Richard Cox
29 Aug 1724	Center DE	John Dixon & Sarah Hollingsworth	William Cox
4 May 1725	Kennett PA	William Passmore & Mary Heald	John Cox
29 Sep 1725	Center DE	William Gregg & Margery Kinkey	William & Catherine Cox
29 Oct 1725	Center DE	George Dixon & Ann Chandler	William Cox, John Cox
15 Dec 1726	Chichester PA	Richard Cox & Elizabeth Scarlett	William Cox, Phomey Cox
23 Feb 1729	Center DE	Jacob Hollingsworth & Rachel Chandler	William Cox, Harmon Cox
26 Sep 1730	Center DE	Robert Cain & Ann Dixon	Catherine Cox
9 Aug 1735	New Garden PA	John Cox Jr & Mary Harlan	John & Mary Cocks, Ann, William, Samuel, Richard & Mary, Rebeckah, William, Mary Cox
5 Sep 1736	Hockessin DE	Christopher Hussey & Ann Garretson	William Cox, Harmon Cox
5 Sep 1736	Hockessin DE	John Garretson & Content Hussey	William Cox, Harmon Cox

Locations of Meeting Houses

~10 miles



- William and Ann settled in Hockessin “on Delaware”
- The Husseys, Dixons, and Garretsons were also “on Delaware”
- John, Amy, William, Richard and Thomas settled in London Grove

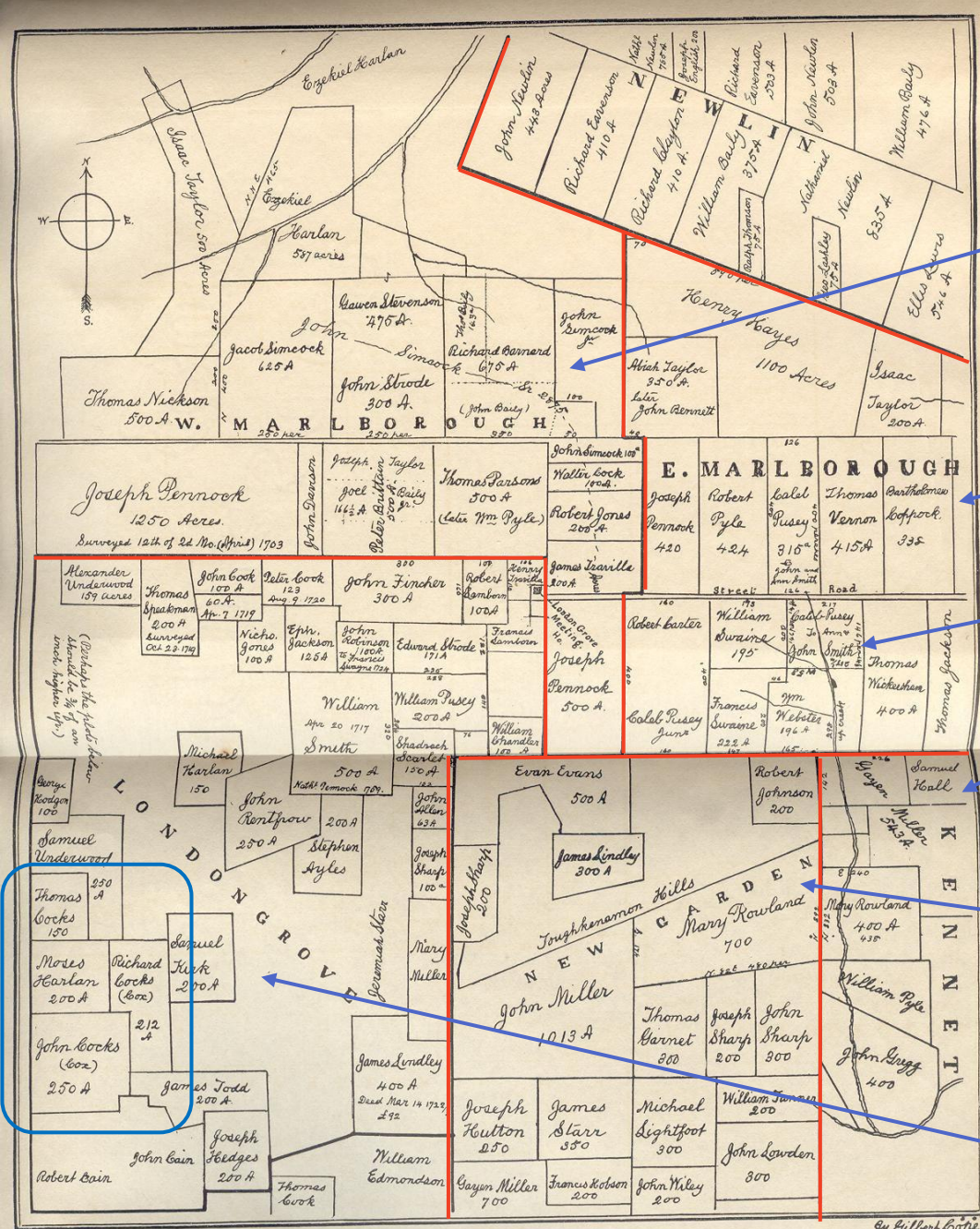
Early meetings held in Newark. As west side Brandywine was settled new meetings were established as it was a hardship to cross the Brandywine in winter

Pennsylvania Marriages

Thomas Cox/Elizabeth Fincher Marlborough (1722)
Richard Cox/Elizabeth Scarlett Chichester (1726)

Delaware Marriages

John Cox/Mary (1713?)
Ann Cox/Casparus Garretson New Castle (1713)
William Cox/Catherine Kinkey (1716)
Amy Cox/John Allen Centre (1718)



Newlin

West Marlborough

East Marlborough

In 1714 meetings for worship were held at home of John Smith one first day in Every month and every sixth day for half a year

Kennet (Kennett MM later renamed Newark MM)

Letitia Penn's part of Stenning Manor

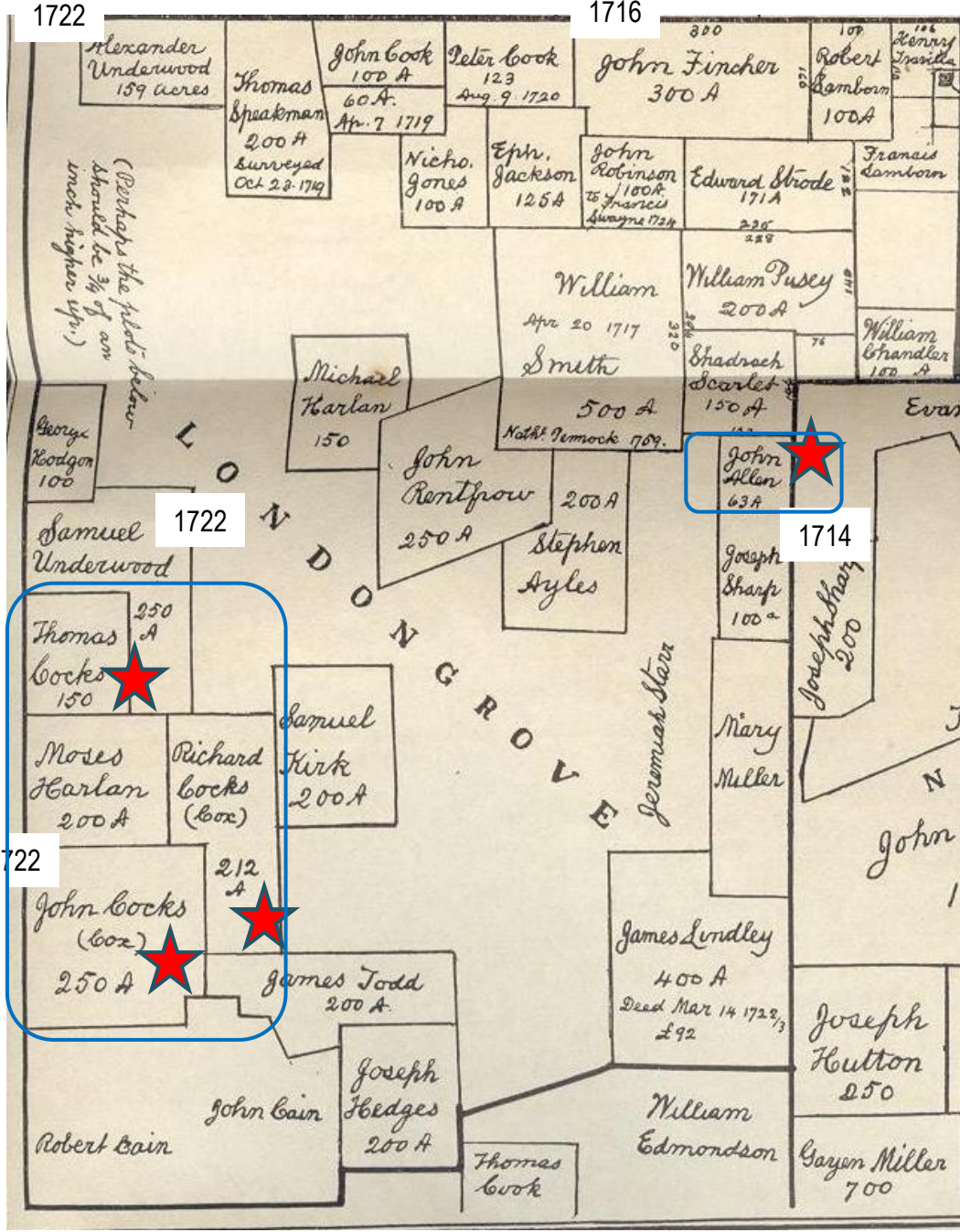
New Garden

William Penn Jr's land

London Grove

Land owned by London Company (Tobias Collet, Daniel Quare, Henry Goldney and Michael Russell)

Sands Around London Grove Meeting 1700-1730.



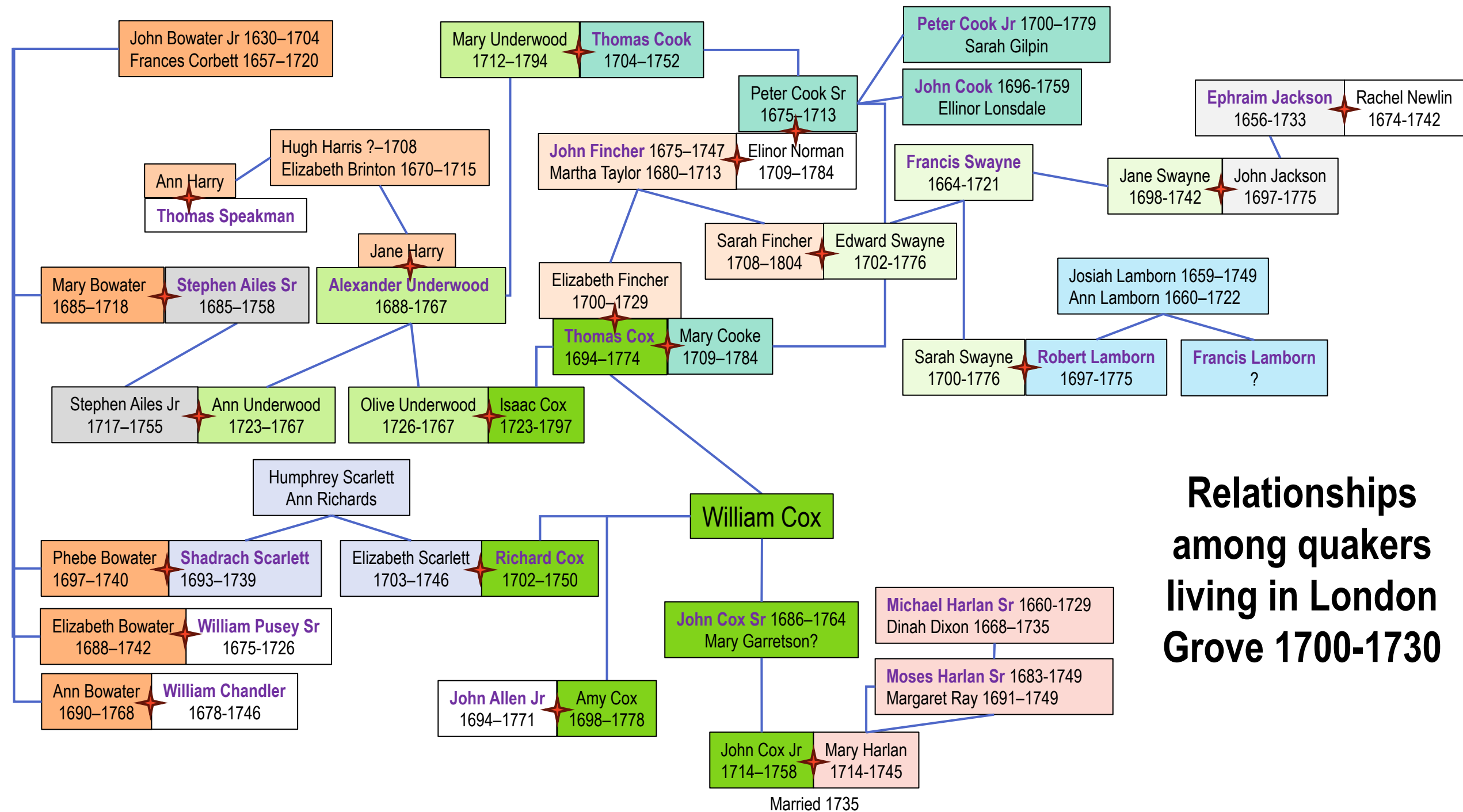
London Grove was organized in 1723, with James Lindley as constable, Joseph Sharp and Shadrack Scarlet as overseers of the poor, and John Fincher as supervisor

First Tax List of London Grove, 1724

Before that date they were taxed as of New Garden

*Wm. Pusey & land in Sadsbury..17-10	Francis Foster	4-0
*Wm. Chandler	*Alexander Underwood	9-4
*Shedrick Scarlet	*Thomas Speakman	3-0
*John Allen	*Michael Harlan	18-4
*Joseph Sharp	*Michael Harlan, Jr.	2-4
*Jeremiah Star	*John Cook	4-8
*James Lindley	*John Jackson	5-9
*James Todd	*Francis Swain	3-8
Joseph Hedge	*John Fincher	8-6
*Robert Cain	*Robert Lamborn	3-8
*John Cox	*John Holton	4-0
*John Cane	*Richard Tranter	6-8
*Richard Cox	*Steven Ailes	7-4
*Moses Harland	Richard Bennet	3-0
Thomas Hill	*Jonathan Fincher	3-0
*Thomas Cox	John Spencer	3-0
*Thomas Underwood	Benjamin Underwood	3-6
*John Wickersham	Daniel MackClister	2-6
Daniel Hammond	*Peter Cook	2-8
William Robe	William	
*Joseph Jackson	Joseph Garnett	1-8

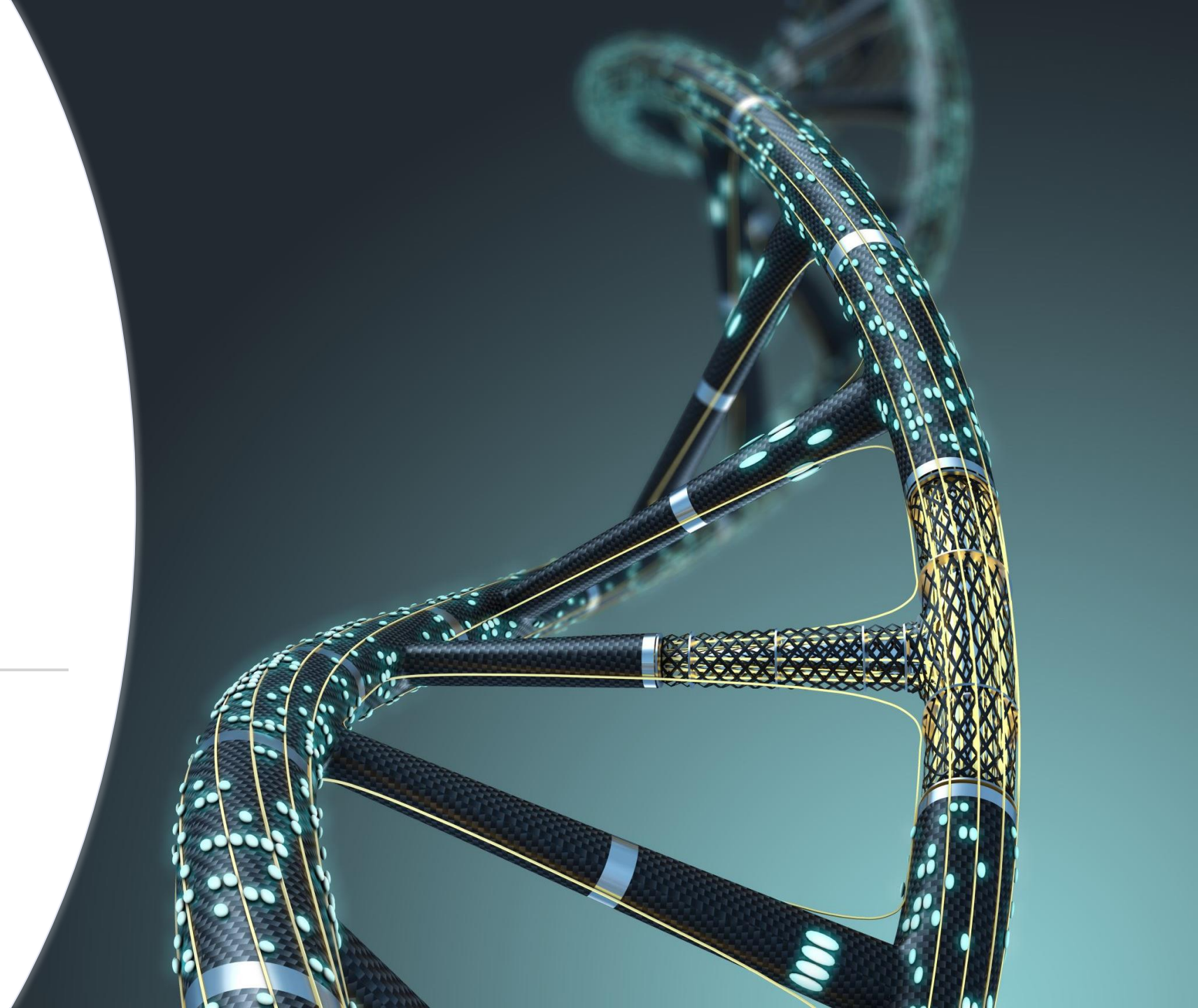
1700-1730 lands around London Grove meeting by Gilbert Cope 1914



Relationships among quakers living in London Grove 1700-1730



Tips for Research



Studying Distant Ancestors

- Search for names in deeds, wills, etc.
(<https://ident.familysearch.org/identity/login/?state=https://www.familysearch.org/search/full-text>)
 - Who are their neighbors?
 - When do they move? Who else moved at the same time?
- Search through Quaker marriage records
 - Who did they marry? Where did they marry?
 - Who were their parents and where were they from
 - Who witnessed their marriage?
- Books and magazines at the Internet Archive (<https://archive.org/>). Search based on
 - places they lived (esp. at county level)
 - family names (self, spouse, mother)
- Focus on sources that cite the source of the information they present
- Keep track of dates when county lines changed.
- Make sure to study siblings, aunts and uncles....indirect ancestors!