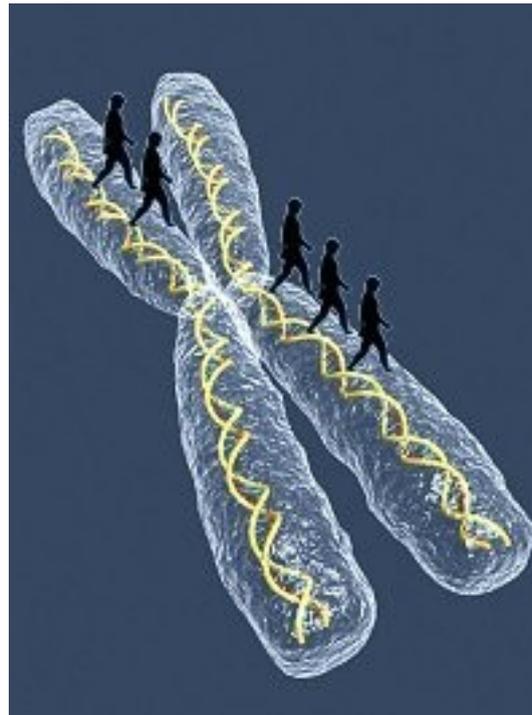


Walk Through The Y Project



*FTDNA Conference 2009
Houston TX*

Dipl.- Ing. Thomas Krahn

Walk On The Y Concept:

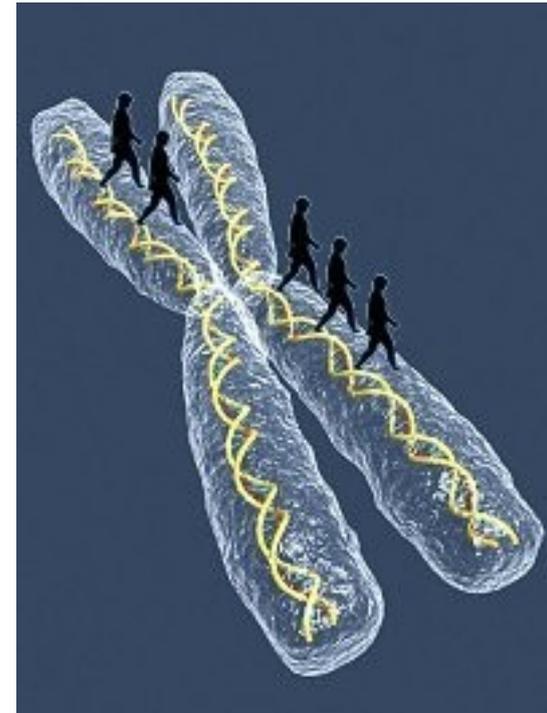
- Lab picks a ~50,000 bp contig of Y DNA
- Lab verifies quality and reliability by sequencing an own reference

- Region and lab reference results are published
- Region is offered to public

- Customers order 50 kb contigs

- Lab runs sequences and returns results
- Results contain FASTA sequences, and differences tables
- Individual electropherograms may be ordered electronically

- Some month later the individual ~500 bp segments can be ordered

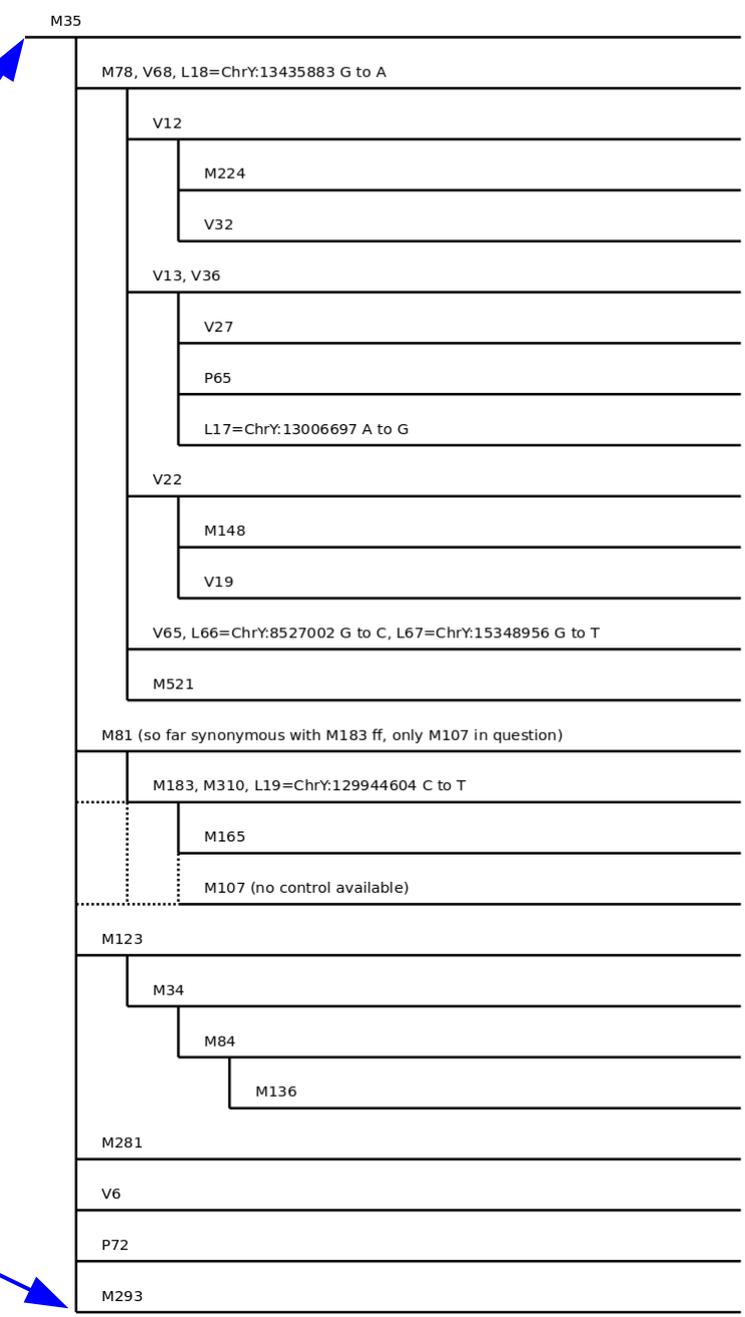
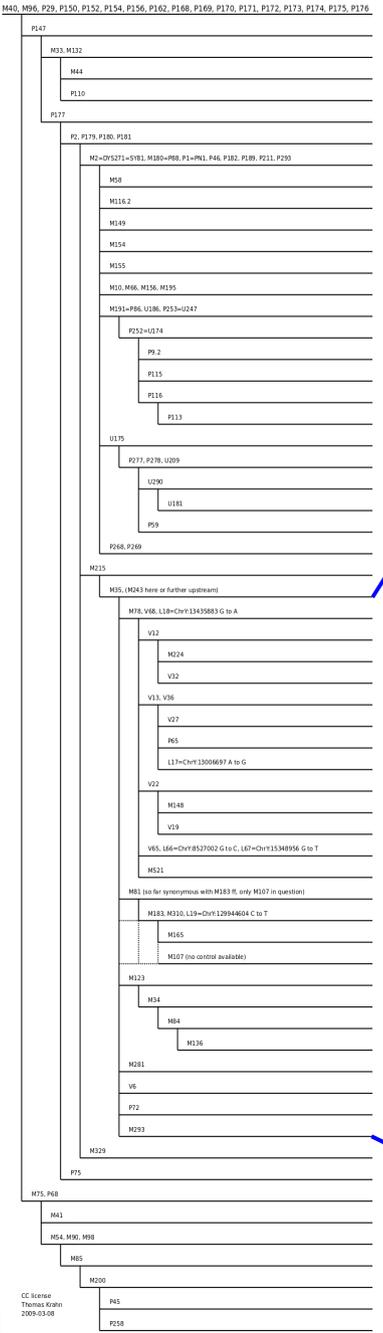




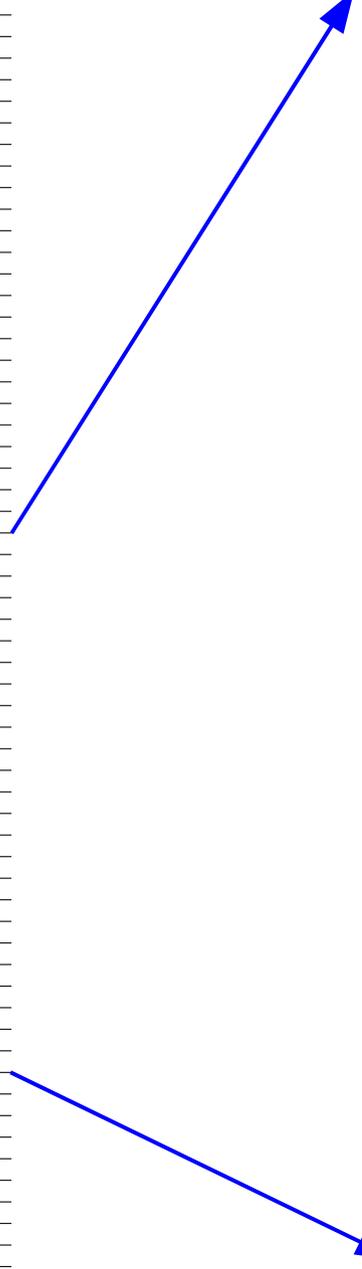
GRC Number	Haplogroup
GRC002094	E-V12
GRC002502	E-V22
GRC002560	E-V13
GRC002589	E-M84
GRC004063	E-M34
GRC006041	E-V65
GRC009684	E-M123
GRC011200	E-M183
GRC012859	E-M183
GRC000833	E-V13

Working Draft Of The Y Chromosome Tree Below E-M35

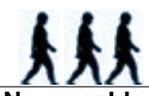
Working Draft Of The Y Chromosome Tree Below E-M40



Haplogroup E

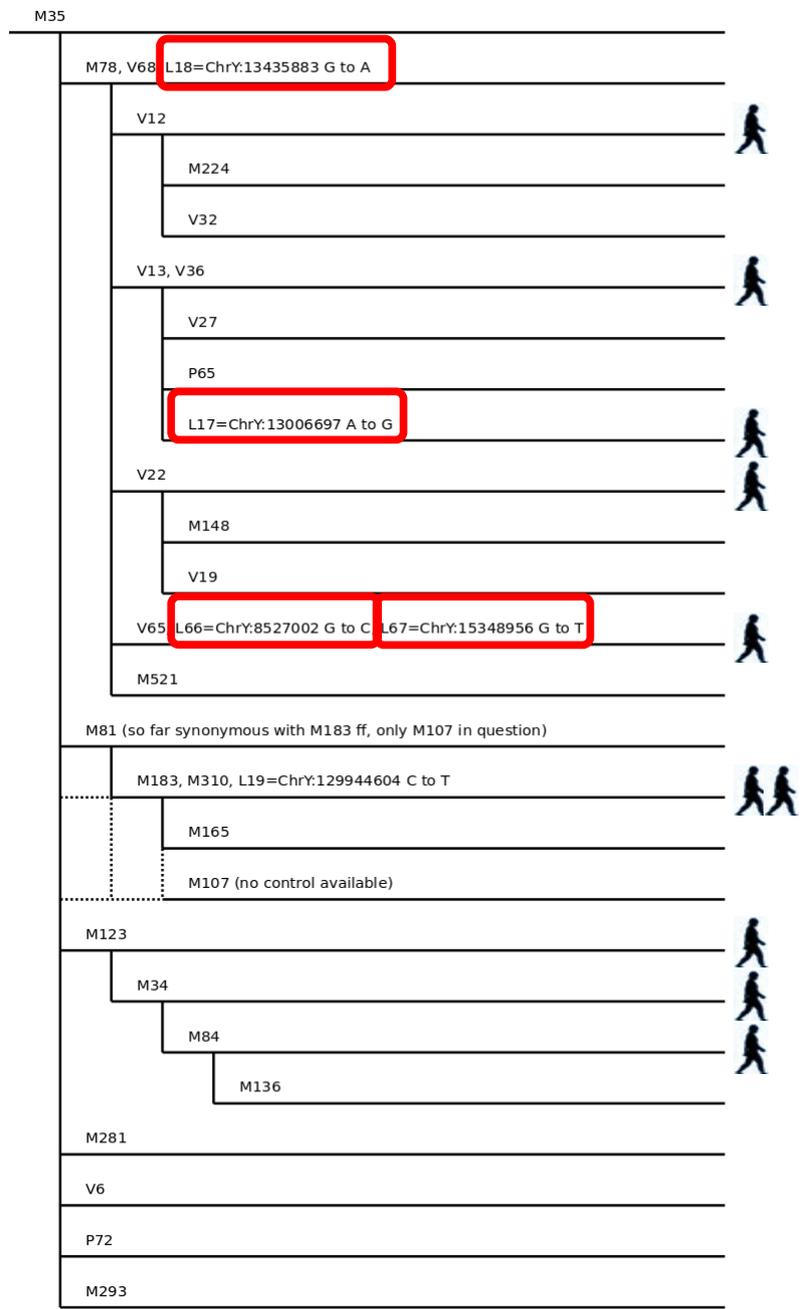


Results



GRC Number	Haplogroup	bp sequenced	Total markers scored	Previously un-described markers found	New usable SNPs	Private SNPs found
GRC002094	E-V12	68785	443	11	1	0
GRC002502	E-V22	45934	316	2	2	1?
GRC002560	E-V13	58240	385	7	2	1
GRC002589	E-M84	68535	465	8	0	0
GRC004063	E-M34	60821	385	6	0	0
GRC006041	E-V65	34991	172	6	3	2?
GRC009684	E-M123	60900	365	5	1	0
GRC011200	E-M183	62287	404	3	1	0
GRC012859	E-M183	59255	402	1	1	0
GRC000833	E-V13	66745	424	3	1	0

Working Draft Of The Y Chromosome Tree Below E-M35



Goals

Sequencing of 3 plates of 96 Y chromosome PCR segments each.

We're sequencing in the forward- and in the reverse direction.

Average number of total unique bases on the ChrY will exceed 100 kB.

No re-runs (unless sample failed completely or < 50 kB).

Segments can be considered as randomly chosen regions on the Y chromosome which are unlikely to recombine.

All known derived SNPs and all differences to the HUGO reference sequence will be scored.

Participants can opt for public presentation of their results. This decision cannot be reversed.

If a new SNP is found the participant can decide if FTDNA makes it public. This decision cannot be reversed.

Only public markers will be available to order as single SNPs from the advanced orders page.

FTDNA will try to submit new public SNPs to NCBI (for a rs number). We can't give a warranty that they will be accepted.

If a new marker gets published by a customer all involved GRC laboratory personal must be added as co-authors.

Each participant must add all previous Y-STR / and Y-SNP results to his application.

Please indicate the testing company for non-FTDNA results.

Collective submission of similar participants by group is strongly encouraged.

FTDNA reserves the right to limit the number of participants according to our production capacity.

The GRC laboratory director decides if- and when an application will be accepted based on the scientific importance.

Public groups of well selected individuals will be preferred. This decision cannot be disputed.

Cost: **US\$ 750** per participant.

Turnaround time: 6 weeks after fresh swabs have been received at FTDNA.