

Goodrich Surname DNA Project

Volume 2, Issue 1, page 1

Goodrich Family Association

April 25, 2023

Table of Contents

Foreword Review.....	1
Y-SNP Next-Generation-Sequencing (NGS) Results (Y-DNA Haplogroup E from 2014-2023).....	2
Y-SNP Next-Generation-Sequencing (NGS) Results (Y-DNA Haplogroups E, I, J, R from 2014-2023).....	3
Y-STR Y1-Y67 Results (Y-DNA Haplogroup E from 2005-2023)	4
Y-STR Y1-Y67 Results (Y-DNA Haplogroups I, J, R from 2005-2023)	5
Y-STR Y68-Y111 Results (Y-DNA Haplogroup E and Y-DNA Haplogroups I, J, R from 2011-2023).....	6
Felsham, Suffolk, England Goodrich in Y-DNA Haplogroup E-V13.....	7
Potential Interplay of (E-Z5018+, E-Z16242+) and E-Z5018+, E-L17+) in Iberian Auxiliary Units	8
Mitochondrial (mt-DNA) Kits and mt-DNA Haplogroups (2005-2023)	9
Autosomal (at-DNA) Family Finder Kits (2010-2023)	10

*Visit our website at: www.goodrichfamilyassoc.org
 *Archived past issues: <http://www.goodrichfamilyassoc.org/Newsletters/>

Goodrich Surname DNA Project Managers

Steve Goodrich, Ph.D.	DNA Project Technical Manager	sdjgoodrich@gmail.com
Matt Goodrich	DNA Project Co-Manager and Webmaster	webmaster@goodrichfamilyassoc.org

– Foreword Review

~Manager

The Goodrich Surname DNA Project has: 90 Y-STR kits, 57 mt-DNA kits, 92 Family Finder kits, and 44 total FTDNA, FGC, and YSEQ Y-SNP kits. Highlights of the Y-SNP testing of Felsham, Suffolk, England Goodrich Y-descendants in 2022-2023 to date include:

- Another E-Z16242* kit from the vicinity of ancient Armenia appeared recently on FTDNA; this time from Azerbaijan. Kit not yet on YFull.
- Another Y-descendant of the immigrant Thomas-1 Goodrich tested, revealing diagnostic Thomas-1 Goodrich SNPs FGC45642, FGC45647.
- Y-descendants of William-3 Goodrich and Benjamin-3 Goodrich (William-2) share FGC61652; the diagnostic William-2 Goodrich SNP.
- A Y-descendant of Thomas-3 Goodrich (Ephraim-2, William-1) tested, and is now the third Y111 Y-STR modal kit with G-18 and G-118.

In the displays for Y-SNP testing of Y-DNA Haplogroup E (page 2) and Haplogroups I, J, R (page 3):

- When kits share SNP mutations, this is indicated by SNP-group color-coded “+ +”, etc.
- When a kit does not have or share an SNP mutation, this is indicated by “-”

- There is only one kit for a Y-descendant of **John-2 Goodrich**; son of William-1 Goodrich, so it is not possible to determine what the unique Y-SNP(s) of this line are.
 - However, he shares with all Y-descendants of Ensign William-1 Goodrich: F1449, FGC19305, FGC19307, FGC19308.
 - Y-descendants of **William-1 Goodrich/Goodridge** of Watertown, MA and **Thomas-1 Goodrich** of Old Rappahannock VA do not share these 4 Y-SNPs.
 - It is not possible to determine what their unique Y-SNP mutations are until at least two or more of the Y-descendants of each immigrant have tested.
 - All Y-descendants of Felsham, Suffolk, England Goodrich who have tested share **L1019** and **36 other Y-SNPs** not seen outside of Felsham Goodrich so far.
- **FGC45647** has been found (2023) in Y-descendants of Edward-4, Edward-3, Charles-2, **Thomas-1 Goodrich of Tappahannock (Old Rappahannock), Virginia**.
- **FGC61652** has been found (2023) in Y-descendants of **William-2 Goodrich**; son of Ensign William-1 Goodrich.
- FGC14559 has been found in Y-descendants of **Ephraim-2 Goodrich**; son of Ensign William-1 Goodrich.
- A21920 has been found in Y-descendants of **David-2 Goodrich**; son of Ensign William-1 Goodrich.
- FGC86595 has been found in two Y-descendants of **David-3 Goodrich**; son of David-2 Goodrich; son of Ensign William-1 Goodrich

Next-Generation-Sequencing (NGS) Y-SNP Results (Y-DNA Haplogroups E, I, J, R from 2014-2023)

Y-DNA HAPLOGROUP (YHG)-E SHARED SNPs	YHG - E	Kit	A0-T	A1	A1b	BT	CT	DE	E	E-P147	E-P177	E-M215	E-M35
	Goodrich	YF17489	+	+	+	+	+	+	+	+	+	+	+
	Portugal	YF65750	+	+	+	+	+	+	+	+	+	+	+
	Portugal	YF74404	+	+	+	+	+	+	+	+	+	+	+
	Portugal	HG01107	+	+	+	+	+	+	+	+	+	+	+
	Armenia	546372	+	+	+	+	+	+	+	+	+	+	+
	G-30	95498	+	+	+	+	+	+	+	+	+	+	+
	YHG - E	Kit	E-V68	E-M78	E-Z1919	E-L618	E-V13	E-Z1057	E-CTS5856	E-BY3880	E-Z5018	E-Z16242	
	Goodrich	89943	+	+	+	+	+	+	+	+	+	+	+
	Portugal	YF65750	+	+	+	+	+	+	+	+	+	+	+
	Portugal	YF74404	+	+	+	+	+	+	+	+	+	+	+
Portugal	HG01107	+	+	+	+	+	+	+	+	+	+	+	
Armenia	546372	+	+	+	+	+	+	+	+	+	+	+	

YHG-I SHARED SNPs	YHG - I	Kit	A0-T	A1	A1b	BT	CT	CF	F	GHIJK	HIJK	IJK	IJ	I	I1	I-DF29	Haplogroup E ~Age Analog	
	G-73	332466	+	+	+	+	+	+	+	+	+	+	+	+	+	+		(E-M35)
	G-36	N35214	+	+	+	+	+	+	+	+	+	+	+	+	+			
	G-28	114808	+	+	+	+	+	+	+	+	+	+	+	+				
	G-64	281654	+	+	+	+	+	+	+	+	+	+	+	+	+	(E-M215)		
YHG-I UNIQUE SNPs	G-73	332466	I-Z58	I-Z59	I-CTS8647	I-A11141	I-A14694											
	G-36	N35214	I-Z17954	I-Z17943	I-S2315	I-Z17928	I-Z17928a	I-S2320	I-Z17926									
	G-64	281654	I2	I-L460	I-M436	I-M223	I-Y3259	I-CTS616	I-Y3721	I-M284	I-L1195	I-L126	I-FGC20063					
			I-Y4171	I-Y4142	I-Y4751	I-4752	I-Y4750	I-Y5673	I-FGC20067	I-BY66686								

YHG-J SHARED SNPs	YHG - J	Kit	A0-T	A1	A1b	BT	CT	CF	F	GHIJK	HIJK	IJK	IJ	J	J2	(E-M35)
	G-90	380928	+	+	+	+	+	+	+	+	+	+	+	+	+	
	G-24	109235	+	+	+	+	+	+	+	+	+	+	+	+	+	
	G-112	B170423	+	+	+	+	+	+	+	+	+	+	+	+	+	
YHG-J UNIQUE SNPs	G-90	380928	J-M410	J-PF4610	J-L26	J-PF5087	J-PF5160	J-L24	J-Y22662	J-L25	J-PF4888	J-PF5366	J-L264	J-FGC41825		
	G-112	B170423	J1	J-Z2215	J-Z2217	J-L620	J-PF4816	J-L136	J-P58	J-Z643	J-Z1865	J-Z1853	J-Z2331	J-Z2324		
			J-Z2317	J-Z2313	J-YSC0000234	J-Z1884	J-FGC12834	J-PF4876	J-PF4867	J-L829	J-CTS2572	J-Y132415	J-Z29667			

YHG-R SHARED SNPs	YHG - R	Kit	A0-T	A1	A1b	BT	CT	CF	F	GHIJK	HIJK	IJK				
	G-131	174396	+	+	+	+	+	+	+	+	+	+				
	G-144	141217	+	+	+	+	+	+	+	+	+	+				
	G-138	181160	+	+	+	+	+	+	+	+	+	+				
	G-98	B108606	+	+	+	+	+	+	+	+	+	+				
	YHG - R	Kit	K	K2	K2b	P	P1	P-P337	P-P226	R	R-Y482	R1				
	G-131	174396	+	+	+	+	+	+	+	+	+	+				
	G-144	141217	+	+	+	+	+	+	+	+	+	+				
	G-138	181160	+	+	+	+	+	+	+	+	+	+				
	G-98	B108606	+	+	+	+	+	+	+	+	+	+				
	YHG - R	Kit	R1b	R-L754	R-L389	R-P297	R-M269	R-L23	R-L51	R-L52	R-L151	R-P312	R-S461	R-L21	R-DF13	R-Z253
	G-131	174396	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	G-144	141217	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	G-138	181160	+	+	+	+	+	+	+	+	+	+	+	+	+	+
YHG-R UNIQUE SNPs	G-98	B108606	R1a	R-M459	R-M198											
	G-131	174396	R-FGC3268	R-FGC3222	R-BY181473	R-BY181407	R-BY188511	R-FT24855								
	G-144	141217	R-Z2534	R-Z2185	R-Z2186	R-Z2183	R-CTS9881	R-Z18123	R-CTS9251	R-CTS4296	R-FGC32679	R-A2076	R-A2073	R-FT96557		
	G-138	181160	R-L371	R-FGC30633	R-FGC73637											

The Y-SNP mutations furthest right can be used to place kits with unknown Goodrich ancestry using Y-SNP mutations found in proven Goodrich Y-descendants:

- All of the Y-SNP kits in Y-DNA Haplogroups E, I, J, R share the Y-SNP mutations A0-T, A1, A1b, BT, CT.
- Y-SNP kits in Y-DNA Haplogroups I, J, R also share the Y-SNP mutations CF, F, GHIJK, HIJK, IJK.
- Y-SNP kits in Y-DNA Haplogroups I, J also share the Y-SNP mutation IJ.
- All other major ancient branches in Y-DNA Haplogroups E, I, J, R are unique, and of course all unique Y-SNP mutations for each kit are unique.

Tested Haplogroups are obtained using Y-SNP testing; **Expected Haplogroups** are only estimates based on Y-STR testing, with greater refinement if more Y-STRs are tested.

GFA ID	TEST KIT	HAPLOGROUP TESTED EXPECTED	Y-DNA STRIPS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
			DY393	DY390	DY391	DY386a	DY386b	DY383b	DY383c	DY389	DY392	DY385b	DY385c	DY385d	DY385e	DY385f	DY385g	DY385h	DY385i	DY385j	DY385k	DY385l	DY385m	DY385n	DY385o	DY385p	DY385q	DY385r	DY385s	DY385t	DY385u	DY385v	DY385w	DY385x	DY385y	DY385z	DY385aa	DY385ab	DY385ac	DY385ad	DY385ae	DY385af	DY385ag	DY385ah	DY385ai	DY385aj	DY385ak	DY385al	DY385am	DY385an	DY385ao	DY385ap	DY385aq	DY385ar	DY385as	DY385at	DY385au	DY385av	DY385aw	DY385ax	DY385ay	DY385az	DY385ba	DY385bb	DY385bc	DY385bd	DY385be	DY385bf	DY385bg	DY385bh	DY385bi	DY385bj	DY385bk	DY385bl	DY385bm	DY385bn	DY385bo	DY385bp	DY385bq	DY385br	DY385bs	DY385bt	DY385bu	DY385bv	DY385bw	DY385bx	DY385by	DY385bz	DY385ca	DY385cb	DY385cc	DY385cd	DY385ce	DY385cf	DY385cg	DY385ch	DY385ci	DY385cj	DY385ck	DY385cl	DY385cm	DY385cn	DY385co	DY385cp	DY385cq	DY385cr	DY385cs	DY385ct	DY385cu	DY385cv	DY385cw	DY385cx	DY385cy	DY385cz	DY385da	DY385db	DY385dc	DY385dd	DY385de	DY385df	DY385dg	DY385dh	DY385di	DY385dj	DY385dk	DY385dl	DY385dm	DY385dn	DY385do	DY385dp	DY385dq	DY385dr	DY385ds	DY385dt	DY385du	DY385dv	DY385dw	DY385dx	DY385dy	DY385dz	DY385ea	DY385eb	DY385ec	DY385ed	DY385ee	DY385ef	DY385eg	DY385eh	DY385ei	DY385ej	DY385ek	DY385el	DY385em	DY385en	DY385eo	DY385ep	DY385eq	DY385er	DY385es	DY385et	DY385eu	DY385ev	DY385ew	DY385ex	DY385ey	DY385ez	DY385fa	DY385fb	DY385fc	DY385fd	DY385fe	DY385ff	DY385fg	DY385fh	DY385fi	DY385fj	DY385fk	DY385fl	DY385fm	DY385fn	DY385fo	DY385fp	DY385fq	DY385fr	DY385fs	DY385ft	DY385fu	DY385fv	DY385fw	DY385fx	DY385fy	DY385fz	DY385ga	DY385gb	DY385gc	DY385gd	DY385ge	DY385gf	DY385gg	DY385gh	DY385gi	DY385gj	DY385gk	DY385gl	DY385gm	DY385gn	DY385go	DY385gp	DY385gq	DY385gr	DY385gs	DY385gt	DY385gu	DY385gv	DY385gw	DY385gx	DY385gy	DY385gz	DY385ha	DY385hb	DY385hc	DY385hd	DY385he	DY385hf	DY385hg	DY385hi	DY385hj	DY385hk	DY385hl	DY385hm	DY385hn	DY385ho	DY385hp	DY385hq	DY385hr	DY385hs	DY385ht	DY385hu	DY385hv	DY385hw	DY385hx	DY385hy	DY385hz	DY385ia	DY385ib	DY385ic	DY385id	DY385ie	DY385if	DY385ig	DY385ih	DY385ii	DY385ij	DY385ik	DY385il	DY385im	DY385in	DY385io	DY385ip	DY385iq	DY385ir	DY385is	DY385it	DY385iu	DY385iv	DY385iw	DY385ix	DY385iy	DY385iz	DY385ja	DY385jb	DY385jc	DY385jd	DY385je	DY385jf	DY385jg	DY385jh	DY385ji	DY385jj	DY385jk	DY385jl	DY385jm	DY385jn	DY385jo	DY385jp	DY385jq	DY385jr	DY385js	DY385jt	DY385ju	DY385jv	DY385jw	DY385jx	DY385jy	DY385jz	DY385ka	DY385kb	DY385kc	DY385kd	DY385ke	DY385kf	DY385kg	DY385kh	DY385ki	DY385kj	DY385kk	DY385kl	DY385km	DY385kn	DY385ko	DY385kp	DY385kq	DY385kr	DY385ks	DY385kt	DY385ku	DY385kv	DY385kw	DY385kx	DY385ky	DY385kz	DY385la	DY385lb	DY385lc	DY385ld	DY385le	DY385lf	DY385lg	DY385lh	DY385li	DY385lj	DY385lk	DY385ll	DY385lm	DY385ln	DY385lo	DY385lp	DY385lq	DY385lr	DY385ls	DY385lt	DY385lu	DY385lv	DY385lw	DY385lx	DY385ly	DY385lz	DY385ma	DY385mb	DY385mc	DY385md	DY385me	DY385mf	DY385mg	DY385mh	DY385mi	DY385mj	DY385mk	DY385ml	DY385mm	DY385mn	DY385mo	DY385mp	DY385mq	DY385mr	DY385ms	DY385mt	DY385mu	DY385mv	DY385mw	DY385mx	DY385my	DY385mz	DY385na	DY385nb	DY385nc	DY385nd	DY385ne	DY385nf	DY385ng	DY385nh	DY385ni	DY385nj	DY385nk	DY385nl	DY385nm	DY385nn	DY385no	DY385np	DY385nq	DY385nr	DY385ns	DY385nt	DY385nu	DY385nv	DY385nw	DY385nx	DY385ny	DY385nz	DY385oa	DY385ob	DY385oc	DY385od	DY385oe	DY385of	DY385og	DY385oh	DY385oi	DY385oj	DY385ok	DY385ol	DY385om	DY385on	DY385oo	DY385op	DY385oq	DY385or	DY385os	DY385ot	DY385ou	DY385ov	DY385ow	DY385ox	DY385oy	DY385oz	DY385pa	DY385pb	DY385pc	DY385pd	DY385pe	DY385pf	DY385pg	DY385ph	DY385pi	DY385pj	DY385pk	DY385pl	DY385pm	DY385pn	DY385po	DY385pp	DY385pq	DY385pr	DY385ps	DY385pt	DY385pu	DY385pv	DY385pw	DY385px	DY385py	DY385pz	DY385qa	DY385qb	DY385qc	DY385qd	DY385qe	DY385qf	DY385qg	DY385qh	DY385qi	DY385qj	DY385qk	DY385ql	DY385qm	DY385qn	DY385qo	DY385qp	DY385qq	DY385qr	DY385qs	DY385qt	DY385qu	DY385qv	DY385qw	DY385qx	DY385qy	DY385qz	DY385ra	DY385rb	DY385rc	DY385rd	DY385re	DY385rf	DY385rg	DY385rh	DY385ri	DY385rj	DY385rk	DY385rl	DY385rm	DY385rn	DY385ro	DY385rp	DY385rq	DY385rr	DY385rs	DY385rt	DY385ru	DY385rv	DY385rw	DY385rx	DY385ry	DY385rz	DY385sa	DY385sb	DY385sc	DY385sd	DY385se	DY385sf	DY385sg	DY385sh	DY385si	DY385sj	DY385sk	DY385sl	DY385sm	DY385sn	DY385so	DY385sp	DY385sq	DY385sr	DY385ss	DY385st	DY385su	DY385sv	DY385sw	DY385sx	DY385sy	DY385sz	DY385ta	DY385tb	DY385tc	DY385td	DY385te	DY385tf	DY385tg	DY385th	DY385ti	DY385tj	DY385tk	DY385tl	DY385tm	DY385tn	DY385to	DY385tp	DY385tq	DY385tr	DY385ts	DY385tt	DY385tu	DY385tv	DY385tw	DY385tx	DY385ty	DY385tz	DY385ua	DY385ub	DY385uc	DY385ud	DY385ue	DY385uf	DY385ug	DY385uh	DY385ui	DY385uj	DY385uk	DY385ul	DY385um	DY385un	DY385uo	DY385up	DY385uq	DY385ur	DY385us	DY385ut	DY385uu	DY385uv	DY385uw	DY385ux	DY385uy	DY385uz	DY385va	DY385vb	DY385vc	DY385vd	DY385ve	DY385vf	DY385vg	DY385vh	DY385vi	DY385vj	DY385vk	DY385vl	DY385vm	DY385vn	DY385vo	DY385vp	DY385vq	DY385vr	DY385vs	DY385vt	DY385vu	DY385vv	DY385vw	DY385vx	DY385vy	DY385vz	DY385wa	DY385wb	DY385wc	DY385wd	DY385we	DY385wf	DY385wg	DY385wh	DY385wi	DY385wj	DY385wk	DY385wl	DY385wm	DY385wn	DY385wo	DY385wp	DY385wq	DY385wr	DY385ws	DY385wt	DY385wu	DY385wv	DY385wz	DY385xa	DY385xb	DY385xc	DY385xd	DY385xe	DY385xf	DY385xg	DY385xh	DY385xi	DY385xj	DY385xk	DY385xl	DY385xm	DY385xn	DY385xo	DY385xp	DY385xq	DY385xr	DY385xs	DY385xt	DY385xu	DY385xv	DY385xw	DY385xx	DY385xy	DY385xz	DY385ya	DY385yb	DY385yc	DY385yd	DY385ye	DY385yf	DY385yg	DY385yh	DY385yi	DY385yj	DY385yk	DY385yl	DY385ym	DY385yn	DY385yo	DY385yp	DY385yq	DY385yr	DY385ys	DY385yt	DY385yu	DY385yv	DY385yw	DY385yx	DY385yy	DY385yz	DY385za	DY385zb	DY385zc	DY385zd	DY385ze	DY385zf	DY385zg	DY385zh	DY385zi	DY385zj	DY385zk	DY385zl	DY385zm	DY385zn	DY385zo	DY385zp	DY385zq	DY385zr	DY385zs	DY385zt	DY385zu	DY385zv	DY385zw	DY385zx	DY385zy	DY385zz																																																																																																																
	GOODRICK	HAPLOGROUP I1	13	23	14	10	14	14	11	14	11	12	11	28	15	8	9	8	11	23	16	20	29	12	14	16	16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

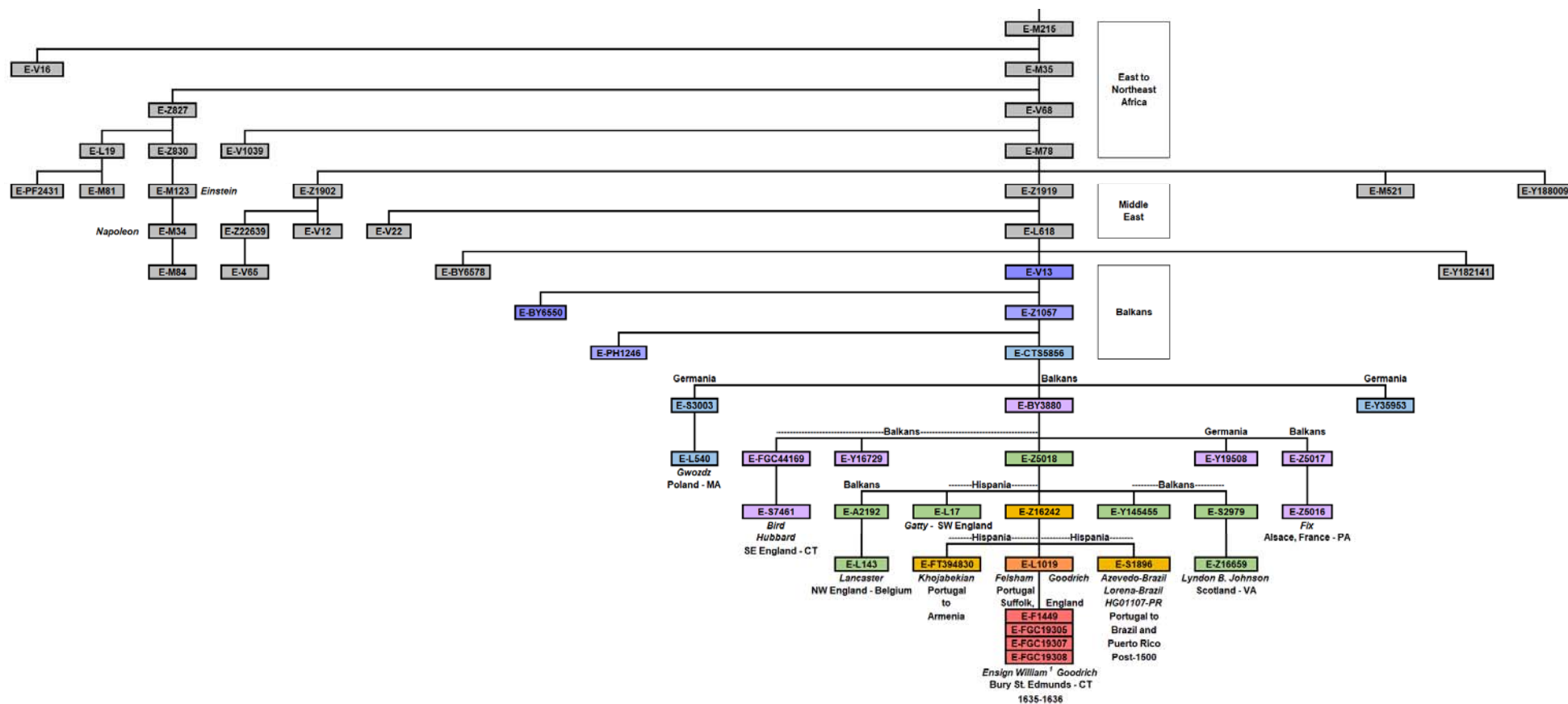
Tested Haplogroups are obtained using Y-SNP testing; **Expected Haplogroups** are only estimates based on Y-STR testing, with greater refinement if more Y-STRs are tested.

Y-STR Y68-Y111 Results

GFA ID	TEST KIT	HAPLOGROUP TESTED EXPECTED	Y-DNA STRIPS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			DY8710	DY8468	DY8440	DY8440	DY8440	DY8714	DY8716	DY8717	DY8505	DY8506	DY8448	DY8449	DY8522	DY8444	DY8533	DY8536	DY8537	DY8538	DY8442	DY8443	Y-GA7A.10	DY8463	DY8464	Y-GAAT.1B07	DY8528	DY8712	DY8593	DY8560	DY8532	DY8534	DY8535	DY8536	DY8537	DY8538	DY8444	DY8445	DY8446	DY8447	DY8448	DY8449	DY8450	DY8451	DY8452	DY8453	DY8454	DY8455	DY8456	DY8457	DY8458	DY8459	DY8460	DY8461	DY8462	DY8463	DY8464	DY8465	DY8466	DY8467	DY8468	DY8469	DY8470	DY8471	DY8472	DY8473	DY8474	DY8475	DY8476	DY8477	DY8478	DY8479	DY8480	DY8481	DY8482	DY8483	DY8484	DY8485	DY8486	DY8487	DY8488	DY8489	DY8490	DY8491	DY8492	DY8493	DY8494	DY8495	DY8496	DY8497	DY8498	DY8499	DY8500	DY8501	DY8502	DY8503	DY8504	DY8505	DY8506	DY8507	DY8508	DY8509	DY8510	DY8511	DY8512	DY8513	DY8514	DY8515	DY8516	DY8517	DY8518	DY8519	DY8520	DY8521	DY8522	DY8523	DY8524	DY8525	DY8526	DY8527	DY8528	DY8529	DY8530	DY8531	DY8532	DY8533	DY8534	DY8535	DY8536	DY8537	DY8538	DY8539	DY8540	DY8541	DY8542	DY8543	DY8544	DY8545	DY8546	DY8547	DY8548	DY8549	DY8550	DY8551	DY8552	DY8553	DY8554	DY8555	DY8556	DY8557	DY8558	DY8559	DY8560	DY8561	DY8562	DY8563	DY8564	DY8565	DY8566	DY8567	DY8568	DY8569	DY8570	DY8571	DY8572	DY8573	DY8574	DY8575	DY8576	DY8577	DY8578	DY8579	DY8580	DY8581	DY8582	DY8583	DY8584	DY8585	DY8586	DY8587	DY8588	DY8589	DY8590	DY8591	DY8592	DY8593	DY8594	DY8595	DY8596	DY8597	DY8598	DY8599	DY8600	DY8601	DY8602	DY8603	DY8604	DY8605	DY8606	DY8607	DY8608	DY8609	DY8610	DY8611	DY8612	DY8613	DY8614	DY8615	DY8616	DY8617	DY8618	DY8619	DY8620	DY8621	DY8622	DY8623	DY8624	DY8625	DY8626	DY8627	DY8628	DY8629	DY8630	DY8631	DY8632	DY8633	DY8634	DY8635	DY8636	DY8637	DY8638	DY8639	DY8640	DY8641	DY8642	DY8643	DY8644	DY8645	DY8646	DY8647	DY8648	DY8649	DY8650	DY8651	DY8652	DY8653	DY8654	DY8655	DY8656	DY8657	DY8658	DY8659	DY8660	DY8661	DY8662	DY8663	DY8664	DY8665	DY8666	DY8667	DY8668	DY8669	DY8670	DY8671	DY8672	DY8673	DY8674	DY8675	DY8676	DY8677	DY8678	DY8679	DY8680	DY8681	DY8682	DY8683	DY8684	DY8685	DY8686	DY8687	DY8688	DY8689	DY8690	DY8691	DY8692	DY8693	DY8694	DY8695	DY8696	DY8697	DY8698	DY8699	DY8700	DY8701	DY8702	DY8703	DY8704	DY8705	DY8706	DY8707	DY8708	DY8709	DY8710	DY8711	DY8712	DY8713	DY8714	DY8715	DY8716	DY8717	DY8718	DY8719	DY8720	DY8721	DY8722	DY8723	DY8724	DY8725	DY8726	DY8727	DY8728	DY8729	DY8730	DY8731	DY8732	DY8733	DY8734	DY8735	DY8736	DY8737	DY8738	DY8739	DY8740	DY8741	DY8742	DY8743	DY8744	DY8745	DY8746	DY8747	DY8748	DY8749	DY8750	DY8751	DY8752	DY8753	DY8754	DY8755	DY8756	DY8757	DY8758	DY8759	DY8760	DY8761	DY8762	DY8763	DY8764	DY8765	DY8766	DY8767	DY8768	DY8769	DY8770	DY8771	DY8772	DY8773	DY8774	DY8775	DY8776	DY8777	DY8778	DY8779	DY8780	DY8781	DY8782	DY8783	DY8784	DY8785	DY8786	DY8787	DY8788	DY8789	DY8790	DY8791	DY8792	DY8793	DY8794	DY8795	DY8796	DY8797	DY8798	DY8799	DY8800	DY8801	DY8802	DY8803	DY8804	DY8805	DY8806	DY8807	DY8808	DY8809	DY8810	DY8811	DY8812	DY8813	DY8814	DY8815	DY8816	DY8817	DY8818	DY8819	DY8820	DY8821	DY8822	DY8823	DY8824	DY8825	DY8826	DY8827	DY8828	DY8829	DY8830	DY8831	DY8832	DY8833	DY8834	DY8835	DY8836	DY8837	DY8838	DY8839	DY8840	DY8841	DY8842	DY8843	DY8844	DY8845	DY8846	DY8847	DY8848	DY8849	DY8850	DY8851	DY8852	DY8853	DY8854	DY8855	DY8856	DY8857	DY8858	DY8859	DY8860	DY8861	DY8862	DY8863	DY8864	DY8865	DY8866	DY8867	DY8868	DY8869	DY8870	DY8871	DY8872	DY8873	DY8874	DY8875	DY8876	DY8877	DY8878	DY8879	DY8880	DY8881	DY8882	DY8883	DY8884	DY8885	DY8886	DY8887	DY8888	DY8889	DY8890	DY8891	DY8892	DY8893	DY8894	DY8895	DY8896	DY8897	DY8898	DY8899	DY8900	DY8901	DY8902	DY8903	DY8904	DY8905	DY8906	DY8907	DY8908	DY8909	DY8910	DY8911	DY8912	DY8913	DY8914	DY8915	DY8916	DY8917	DY8918	DY8919	DY8920	DY8921	DY8922	DY8923	DY8924	DY8925	DY8926	DY8927	DY8928	DY8929	DY8930	DY8931	DY8932	DY8933	DY8934	DY8935	DY8936	DY8937	DY8938	DY8939	DY8940	DY8941	DY8942	DY8943	DY8944	DY8945	DY8946	DY8947	DY8948	DY8949	DY8950	DY8951	DY8952	DY8953	DY8954	DY8955	DY8956	DY8957	DY8958	DY8959	DY8960	DY8961	DY8962	DY8963	DY8964	DY8965	DY8966	DY8967	DY8968	DY8969	DY8970	DY8971	DY8972	DY8973	DY8974	DY8975	DY8976	DY8977	DY8978	DY8979	DY8980	DY8981	DY8982	DY8983	DY8984	DY8985	DY8986	DY8987	DY8988	DY8989	DY8990	DY8991	DY8992	DY8993	DY8994	DY8995	DY8996	DY8997	DY8998	DY8999	DY9000	DY9001	DY9002	DY9003	DY9004	DY9005	DY9006	DY9007	DY9008	DY9009	DY9010	DY9011	DY9012	DY9013	DY9014	DY9015	DY9016	DY9017	DY9018	DY9019	DY9020	DY9021	DY9022	DY9023	DY9024	DY9025	DY9026	DY9027	DY9028	DY9029	DY9030	DY9031	DY9032	DY9033	DY9034	DY9035	DY9036	DY9037	DY9038	DY9039	DY9040	DY9041	DY9042	DY9043	DY9044	DY9045	DY9046	DY9047	DY9048	DY9049	DY9050	DY9051	DY9052	DY9053	DY9054	DY9055	DY9056	DY9057	DY9058	DY9059	DY9060	DY9061	DY9062	DY9063	DY9064	DY9065	DY9066	DY9067	DY9068	DY9069	DY9070	DY9071	DY9072	DY9073	DY9074	DY9075	DY9076	DY9077	DY9078	DY9079	DY9080	DY9081	DY9082	DY9083	DY9084	DY9085	DY9086	DY9087	DY9088	DY9089	DY9090	DY9091	DY9092	DY9093	DY9094	DY9095	DY9096	DY9097	DY9098	DY9099	DY9100	DY9101	DY9102	DY9103	DY9104	DY9105	DY9106	DY9107	DY9108	DY9109	DY9110	DY9111	DY9112	DY9113	DY9114	DY9115	DY9116	DY9117	DY9118	DY9119	DY9120	DY9121	DY9122	DY9123	DY9124	DY9125	DY9126	DY9127	DY9128	DY9129	DY9130	DY9131	DY9132	DY9133	DY9134	DY9135	DY9136	DY9137	DY9138	DY9139	DY9140	DY9141	DY9142	DY9143	DY9144	DY9145	DY9146	DY9147	DY9148	DY9149	DY9150	DY9151	DY9152	DY9153	DY9154	DY9155	DY9156	DY9157	DY9158	DY9159	DY9160	DY9161	DY9162	DY9163	DY9164	DY9165	DY9166	DY9167	DY9168	DY9169	DY9170	DY9171	DY9172	DY9173	DY9174	DY9175	DY9176	DY9177	DY9178	DY9179	DY9180	DY9181	DY9182	DY9183	DY9184	DY9185	DY9186	DY9187	DY9188	DY9189	DY9190	DY9191	DY9192	DY9193	DY9194	DY9195	DY9196	DY9197	DY9198	DY9199	DY9200	DY9201	DY9202	DY9203	DY9204	DY9205	DY9206	DY9207	DY9208	DY9209	DY9210	DY9211	DY9212	DY9213	DY9214	DY9215	DY9216	DY9217	DY9218	DY9219	DY9220	DY9221	DY9222	DY9223	DY9224	DY9225	DY9226	DY9227	DY9228	DY9229	DY9230	DY9231	DY9232	DY9233	DY9234	DY9235	DY9236	DY9237	DY9238	DY9239	DY9240	DY9241	DY9242	DY9243	DY9244	DY9245	DY9246	DY9247	DY9248	DY9249	DY9250	DY9251	DY9252	DY9253	DY9254	DY9255	DY9256	DY9257	DY9258	DY9259	DY9260	DY9261	DY9262	DY9263	DY9264	DY9265	DY9266	DY9267	DY9268	DY9269	DY9270	DY9271	DY9272	DY9273	DY9274	DY9275	DY9276	DY9277	DY9278	DY9279	DY9280	DY9281	DY9282	DY9283	DY9284	DY9285	DY9286	DY9287	DY9288	DY9289	DY9290	DY9291	DY9292	DY9293	DY9294	DY9295	DY9296	DY9297	DY9298	DY9299	DY9300	DY9301	DY9302	DY9303	DY9304	DY9305	DY9306	DY9307	DY9308	DY9309	DY9310	DY9311	DY9312	DY9313	DY9314	DY9315	DY9316	DY9317	DY9318	DY9319	DY9320	DY9321	DY9322	DY9323	DY9324	DY9325	DY9326	DY9327	DY9328	DY9329	DY9330	DY9331	DY9332	DY9333	DY9334	DY9335	DY9336	DY9337	DY9338	DY9339	DY9340	DY9341	DY9342	DY9343	DY9344	DY9345	DY9346	DY9347	DY9348	DY9349	DY9350	DY9351	DY9352	DY9353	DY9354	DY9355	DY9356	DY9357	DY9358	DY9359	DY9360	DY9361	DY9362	DY9363	DY9364	DY9365	DY9366	DY9367	DY9368	DY9369	DY9370	DY9371	DY9372	DY9373	DY9374	DY9375	DY9376	DY9377	DY9378	DY9379	DY9380	DY9381	DY9382	DY9383	DY9384	DY9385	DY9386	DY9387	DY9388	DY9389	DY9390	DY9391	DY9392	DY9393	DY9394	DY9395	DY9396	DY9397	DY9398	DY9399	DY9400	DY9401	DY9402	DY9403	DY9404	DY9405	DY9406	DY9407	DY9408	DY9409	DY9410	DY9411	DY9412	DY9413	DY9414	DY9415	DY9416	DY9417	DY9418	DY9419	DY9420	DY9421	DY9422	DY9423	DY9424	DY9425	DY9426	DY9427	DY9428	DY9429	DY9430	DY9431	DY9432	DY9433	DY9434	DY9435	DY9436	DY9437	DY9438	DY9439	DY9440	DY9441	DY9442	DY9443	DY9444	DY9445	DY9446	DY9447	DY9448	DY9449	DY9450	DY9451	DY9452	DY9453	DY9454	DY9455	DY9456	DY9457	DY9458	DY9459	DY9460	DY9461	DY9462	DY9463	DY9464	DY9465	DY9466	DY9467	DY9468	DY9469	DY9470	DY9471	DY9472	DY9473	DY9474	DY9475	DY9476	DY9477	DY9478	DY9479	DY9480	DY9481	DY9482	DY9483	DY9484	DY9485	DY9486	DY9487	DY9488	DY9489	DY9490	DY9491	DY9492	DY9493	DY9494	DY9495	DY9496	DY9497	DY9498	DY9499	DY9500	DY9501	DY9502	DY9503	DY9504	DY9505	DY9506	DY9507	DY9508	DY9509	DY9510	DY9511	DY9512	DY9513	DY9514	DY9515	DY9516	DY9517	DY9518	DY9519	DY9520	DY9521	DY9522	DY9523	DY9524	DY9525	DY9526	DY9527	DY9528	DY9529	DY9530	DY9531	DY9532	DY9533	DY9534	DY9535	DY9536	DY9537	DY9538	DY9539	DY9540	DY9541	DY9542	DY9543	DY9544	DY9545	DY9546	DY9547	DY9548	DY9549	DY9550	DY9551	DY9552	DY9553	DY9554	DY9555	DY9556	DY9557	DY9558	DY9559	DY9560	DY9561	DY9562	DY9563	DY9564	DY9565	DY9566	DY9567	DY9568	DY9569	DY9570	DY9571	DY9572	DY9573	DY9574	DY9575	DY9576	DY9577	DY9578	DY9579	DY9580	DY9581	DY9582	DY9583	DY9584	DY9585	DY9586	DY9587	DY9588	DY9589	DY9590	DY9591	DY9592	DY9593	DY9594	DY9595	DY9596	DY9597	DY9598	DY9599	DY9600	DY9601	DY9602	DY9603	DY9604	DY9605	DY9606	DY9607	DY9608	DY9609	DY9610	DY9611	DY9612	DY9613	DY9614	DY9615	DY9616	DY9617	DY9618	DY9619	DY9620	DY9621	DY9622	DY9623	DY9624	DY9625	DY9626	DY9627	DY9628	DY9629	DY9630	DY9631	DY9632	DY9633	DY9634	DY9635	DY9636	DY9637	DY9638

Y68-Y111 Haplogroup E (2011-2023)

GFA ID	TEST KIT	HAPLOGROUP TESTED EXPECTED	Y-DNA17-1807	Y-DNA18-1807	Y-DNA19-1807	Y-DNA20-1807	Y-DNA21-1807	Y-DNA22-1807	Y-DNA23-1807	Y-DNA24-1807	Y-DNA25-1807	Y-DNA26-1807	Y-DNA27-1807	Y-DNA28-1807	Y-DNA29-1807	Y-DNA30-1807	Y-DNA31-1807	Y-DNA32-1807	Y-DNA33-1807	Y-DNA34-1807	Y-DNA35-1807	Y-DNA36-1807	Y-DNA37-1807	Y-DNA38-1807	Y-DNA39-1807	Y-DNA40-1807	Y-DNA41-1807	Y-DNA42-1807	Y-DNA43-1807	Y-DNA44-1807	Y-DNA45-1807	Y-DNA46-1807	Y-DNA47-1807	Y-DNA48-1807	Y-DNA49-1807	Y-DNA50-1807	Y-DNA51-1807	Y-DNA52-1807	Y-DNA53-1807	Y-DNA54-1807	Y-DNA55-1807	Y-DNA56-1807	Y-DNA57-1807	Y-DNA58-1807	Y-DNA59-1807	Y-DNA60-1807	Y-DNA61-1807	Y-DNA62-1807	Y-DNA63-1807	Y-DNA64-1807	Y-DNA65-1807	Y-DNA66-1807	Y-DNA67-1807	Y-DNA68-1807	Y-DNA69-1807	Y-DNA70-1807	Y-DNA71-1807	Y-DNA72-1807	Y-DNA73-1807	Y-DNA74-1807	Y-DNA75-1807	Y-DNA76-1807	Y-DNA77-1807	Y-DNA78-1807	Y-DNA79-1807	Y-DNA80-1807	Y-DNA81-1807	Y-DNA82-1807	Y-DNA83-1807	Y-DNA84-1807	Y-DNA85-1807	Y-DNA86-1807	Y-DNA87-1807	Y-DNA88-1807	Y-DNA89-1807	Y-DNA90-1807	Y-DNA91-1807	Y-DNA92-1807	Y-DNA93-1807	Y-DNA94-1807	Y-DNA95-1807	Y-DNA96-1807	Y-DNA97-1807	Y-DNA98-1807	Y-DNA99-1807	Y-DNA100-1807																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	GUTRIDGE	HAPLOGROUP I1	32	12	8	17	12	26	27	19	11	12	11	13	11	9	11	11	10	12	12	31	11	12	21	16	11	10	23	16	19	11	23	17	13	15	25	12	23	18	12	15	18	9	13	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																



Potential Interplay of (E-Z5018+, E-L17+) and (E-Z5018+, E-Z16242+) in Iberian Auxiliary Units
(1973 Ph.D. Dissertation of Prof. Margaret Roxan (1924-2003), Volume 1)

ID	Y-DNA HAPLOGROUP	Y-SNP TEST KIT STATED ORIGINS	PLAUSIBLE AUXILIARY UNIT	RAISED
7	E-Z5018, E-Z16242	Armenia to Georgia	<i>Ala II Ulpia Auriana</i>	Raetia
5	E-Z5018, E-Z16242	Armenia to Georgia	<i>Ala I Hispanorum Auriana</i>	Hispania
ID	Y-DNA HAPLOGROUP	Y-SNP TEST KIT STATED ORIGINS	POSSIBLE AUXILIARY UNIT	RAISED
2	E-Z5018, E-L17	Romania (Vlach) to Poland	<i>Ala I Hispanorum</i>	Hispania
4	E-Z5018, E-Z16242	Portugal to Brazil, Puerto Rico	<i>Cohors II Galica</i>	Hispania
6	E-Z5018, E-Z16242	Portugal to Brazil, Puerto Rico	<i>Ala I Hispanorum Asturum</i>	Asturia
3	E-Z5018, E-Z16242	Felsham, Suffolk, England Goodrich	<i>Ala I Hispanorum Asturum</i>	Asturia
1	E-Z5018, E-Z16242	Felsham, Suffolk, England Goodrich	<i>Ala II Asturum</i>	Asturia
6	E-Z5018, E-Z16242	Felsham, Suffolk, England Goodrich	<i>Ala I Hispanorum Vettonum</i>	Lusitania

ID	Y-DNA HAPLOGROUP	WHERE FORMED AND LATER STATIONED	POTENTIAL FUTURE Y-SNP GEOGRAPHIC / DIPLOMA ATTESTATION INDICATOR	Pages
7	E-Z5018, E-Z16242	By Trajan from (5); Cappadocia; Trajan invaded Armenia 114 AD	This is the only known Iberian auxiliary unit deployed to Armenia (114 AD)	111-114
5	E-Z5018, E-Z16242	Germania, Aquincum-Pannonia, Noricum, Raetia	Armenia Post-Z16242 if shared SNPs also found in Hungary, Switzerland, Slovenia, Germany	101-110
ID	Y-DNA HAPLOGROUP	WHERE FORMED AND LATER STATIONED	POTENTIAL FUTURE Y-SNP GEOGRAPHIC / DIPLOMA ATTESTATION INDICATOR	Pages
2	E-Z5018, E-L17	Trier-Germania, Aquincum-Pannonia; Trajan's Dacian Wars 101 AD, 105 AD	E-L17 has already been found in SW Germany, southern Romania	124-144
4	E-Z5018, E-Z16242	Permanent garrison at Rosina de Vidriales near Legio VII Gemini in Leon, NW Spain	If Brazil, Puerto Rico Post-Z16242 shared SNPs are found in Iberia, Brazil, Puerto Rico only	*Reference
6	E-Z5018, E-Z16242	Spain; to East Anglia, Britannia after Boudican Revolt 61 AD (Ixworth?); then Chester, UK	If Brazil, Puerto Rico Post-Z16242 shared SNPs are found in Iberia, UK only	320-333
3	E-Z5018, E-Z16242	Spain; to East Anglia, Britannia after Boudican Revolt 61 AD (Ixworth?); then Chester, UK	If Felsham Goodrich Post-Z16242 shared SNPs are found in Iberia, UK only	320-333
1	E-Z5018, E-Z16242	Spain; Germania; Pannonia with (2), (5) near Legio IX Hispana; to Britannia ~75 AD	If Felsham Goodrich Post-Z16242 shared SNPs are also found in Germany, Hungary, UK	334-341
6	E-Z5018, E-Z16242	Portugal; Germania; invasion of Britannia in 43 AD; East Anglia, then Bath-Somerset, UK	If Felsham Goodrich Post-Z16242 shared SNPs are also found in Germany, UK	489-496

Possible Roman Military Auxiliary Units in which E-Z16242+ and E-L17+ Y-ancestors may have served:

“The Auxilia of the Roman Army Raised in the Iberian Peninsula,” Volume 1, Ph.D. dissertation, Margaret Roxan (1973); pages indicated in the table above in the far-right column:
<https://discovery.ucl.ac.uk/id/eprint/1318033/>

*Reference for Unit 4, *Cohors II Galica*: History of the Roman Legions (2015), auxiliary units attached to Legio VII Gemina in Hispania from 75 AD, pages 544-546:
<https://play.google.com/books/reader?id=OLQ2CwAAQBAJ&pg=GBS.PT546>

Mitochondrial (mt-DNA) Kits and mt-DNA Haplogroups (2005-2023)

GFA ID	Kit Number	mtDNA Haplogroup
G-145	224081	A2ah
G-147	567759	D
G-19	N4557	H
G-25	108769	H
G-38	N74283	H
G-41	183387	H
G-79	367652	H
G-87	411480	H
G-157	980609	H1cf
G-88	N140052	H1n-T146C!
G-70	325912	H1-T16189C!
G-21	93719	H1u1
G-144	141217	H26a1
G-107	389349	H27
G-106	B158231	H31
G-138	181160	H4a1a3
G-95	N107161	H55b
G-100	336189	H5a1b
G-54	212594	H5a1d
G-36	N35214	H5c
G-58	234311	H69
G-148	N77044	H6a1b3a
G-97	491926	I
G-124	845281	I
G-18	89943	J1c3c
G-128	865298	J1c3c
G-129	866085	J1c3c
G-67	270600	J1c3e1
G-131	174396	J2a1a1a2
G-77	349005	J2a1a1b
G-91	391503	J2a1a1b
G-130	755653	K1a11a1
G-123	447034	K1a1b2a1a
G-73	332466	K1a2a1
G-112	B170423	K1a3a2
G-119	721368	K1a4a1
G-43	N18663	L0a1
G-146	224082	L2
G-61	256692	L2a1a2c
G-66	105967	L3e
G-141	522376	T1a1k
G-93	308010	T2b
G-135	B421400	T2b5a
G-90	380928	U2e2a1a
G-64	281654	U4a1a
G-45	189808	U5
G-83	390961	U5
G-22	N7076	U5
G-96	B79136	U5a1a1-T152C!
G-101	520264	U5a2a1d
G-47	189707	U5a2-C16294T
G-120	788392	U5b2a1a1d
G-29	117958	V
G-127	864918	V
G-27	N59540	V
G-34	N68941	V3a
G-68	297350	W5a1a1

Autosomal (at-DNA) Family Finder Kits (2005-2023)

GFA ID	Family Finder Kit
G-7	48628
G-17	N41657
G-18	89943
G-19	N4557
G-20	97658
G-27	N59540
G-28	114808
G-29	117958
G-36	N35214
G-46	190464
G-47	189707
G-51	196109
G-53	208514
G-57	225395
G-58	234311
G-60	249123
G-62	280817
G-64	281654
G-66	105967
G-68	297350
G-70	325912
G-71	323619
G-73	332466
G-76	353472
G-77	349005
G-78	B18637
G-79	367652
G-80	393517
G-81	B32128
G-82	387519
G-83	390961
G-88	N140052
G-90	380928
G-92	419879
G-93	308010
G-94	443588
G-95	N107161
G-96	B79136
G-97	491926
G-98	B108606
G-99	522009
G-100	336189
G-101	520264
G-102	552105
G-103	569864
G-104	B141815

GFA ID	Family Finder Kit
G-106	B158231
G-107	389349
G-108	B89395
G-109	593190
G-110	649078
G-111	659391
G-112	B170423
G-113	679586
G-115	708100
G-116	725466
G-117	B232890
G-118	B236680
G-119	721368
G-120	788392
G-121	B293764
G-122	B330944
G-123	447034
G-124	845281
G-125	B338380
G-126	B383043
G-127	864918
G-128	865298
G-129	866085
G-130	755653
G-131	174396
G-132	N202634
G-133	B211481
G-134	MK36543
G-135	B421400
G-138	181160
G-140	904923
G-141	522376
G-143	B665886
G-144	141217
G-145	224081
G-146	224082
G-147	567759
G-148	IN77044
G-149	MK73279
G-150	MK73278
G-151	B759394
G-152	958215
G-153	B330570
G-154	968807
G-158	989586
G-159	B895446