

Master Archaeogenetic Archive: Genomic Architecture Breakdown-Genome of Susan L. Yasinski

Not A Complete List

****Methodology:**** Comprehensive Segment Alignment Analysis

****Temporal Constraint Note:**** Ancient DNA data references verified against latest archaeogenetic publications. ---

Part 1: Executive Summary & Inheritance Mechanics

This master archive provides a high-resolution molecular mapping of your genome, structured strictly by family line. Your DNA functions as a pristine laboratory slide owing to unique multigenerational inheritance mechanics:

1. ****Paternal Grandmother's Time Capsule:**** Because you are female and inherited your paternal grandmother's X-chromosome completely intact and un-recombined, your genome skips two generations of female recombination (1888 to 1927 to 1954). This locks massive, multi-chromosomal ancestral blocks into place.
2. ****Alpine Seclusion Isolation:**** Your maternal grandfather's lineage from the secluded mountain valleys of Torriglia (Liguria) acted as a regional genetic deep-freeze, shielding foundational Iron Age and Classical European segments from centuries of subsequent migratory mixing.

Part 2: The Paternal Lineage Profile

Section A: Paternal Grandmother's Lineage – The Székely Carpathian Strata

* ****Core Regional Identity:**** Székely (Transylvania, Carpathian Basin).

* ****Autosomal Architecture:**** Highly endogamous, localized profile preserving immense Early European Farmer (EEF) base and Eurasian/Siberian Steppe components.

* ****Primary Anchor Chromosomes:**** Chromosomes 2, 3, 10, 11, 12, 15, 16, 17, 20.

1. The Medieval Dynastic Matrix (11th – 16th Century AD)

Your genome maps the literal central genetic pool of the medieval Hungarian and Polish high aristocracy through highly dense, multi-chromosomal matches:

* ****The Árpád Dynasty (Founding Royal House of Hungary):****

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****King Ladislaus I (1095 AD):**** Staggering ****265.29 cM**** shared across 8 chromosomes (6, 8, 10, 11, 12, 16, 17, 20). Holds a massive ****90.94 cM (751 SNPs)**** megablock on Chromosome 12. Carries definitive royal Y-Haplogroup ****R1a-Z2123****.

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* ****King Béla III (1196 AD):**** Shares ****47.16 cM**** across Chromosomes 11, 15, and 16.

Includes a dense ****28.57 cM (280 SNPs)**** block on Chromosome 15. Carries definitive royal Y-Haplogroup ****R1a-Z2123****.

* ****Prince András (1234 AD):**** Shares ****24.91 cM**** across Chromosomes 11 and 12 (14.88 cM block on Chromosome 11). Carries royal Y-Haplogroup ****R1a-Z2123****.

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* ****The Royal House of Aba (Foundational Hungarian Aristocracy):****

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* ****HUAS82 (1405 AD):**** Shares ****42.0 cM**** across Chromosomes 8, 11, 16, and 19 (309 SNPs on Chromosome 16).

* ****HUAS261F (1450 AD):**** Shares ****42.86 cM**** across Chromosomes 2, 11, and 16. Holds a massive ****22.95 cM (236 SNPs)**** block on Chromosome 2. Carries the definitive paternal line ****N1a-A9408****

* **HUAS341 (1480 AD):** Shares **57.91 cM** across Chromosomes 3, 11, 15, and 16. Features an expansive **29.96 cM (236 SNPs)** segment on Chromosome 3. Carries Slavic integrated patriline **R1a-YP4863**.

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* **HUAS194B (1405 AD):** Shares **37.18 cM** across Chromosomes 6, 10, and 11. Carries Slavic/Varangian Y-Haplogroup **R1a-FGC32026/YP1337**. Establishes a direct kinship bridge on Chromosome 6 matching the Rurik Dynasty*

The House of Báthory & Pericei Knighthood
(Transylvanian Magnates):**

* **PER01 Elek Báthory (1568 AD):** Knight from Pericei. Shares **21.73 cM** across Chromosomes 10, 11, and 15. Carries Central European Celtic-derived Y-DNA **R1b-S497**.

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PER03-1 Ferenc Báthory (1589 AD):** Knight from Pericei. Highly dense multi-chromosomal link sharing nearly **30 cM** across Chromosomes 3, 10, 11, 14, and 20. Carries the stable West Germanic/Central European paternal marker **R1b-Z156**.

PER05 (1500 AD):** Female Báthory Nobility. Intersects your genome on Chromosomes 3, 15, and 17 (122 SNPs on Chromosome 15). Carries indigenous European hunter-gatherer mtDNA **U5a1b**

* **PER09B (1500 AD):** Female Báthory Nobility. Shares **41.32 cM** overall, anchored by a massive **34.94 cM (162 SNPs)** block on Chromosome 20. Carries Early European Farmer mtDNA **T2b5**.

* **The Hunyadi Dynasty (Late Medieval Hungarian Royalty):**

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* **Johannes Corvinus (1504 AD):** Direct male heir to King Matthias Corvinus. Shares **48.66 cM** across Chromosomes 8, 10, and 20. Anchored by a dense **20.4 cM (258 SNPs)** block on Chromosome 10. Carries Balkan-Mediterranean Y-DNA **E1b-BY4281** and Neolithic backbone mtDNA **T2b**.

2. The Steppe Nomad Layer & Conquering Elites (450 AD – 950 AD)

The structural layers of your grandmother's chromosomes track directly into the core nomadic migration waves that populated the Carpathian Basin:

* **The Hungarian Conquering Elites (950 AD Era):**

* **VPB-310 (Vörs-Pápkert Chieftain):** Massive, multichromosomal cross-reference sharing **62.87 cM** across Chromosomes 6, 11, 16, and 18. Anchored by a massive **34.79 cM (183 SNPs)** block on Chromosome 6. Carries Far-Eastern Siberian mtDNA **D4e4**. *Result Rank: #9 Top Match Globally.*

* **SZAK-6 (Conqueror Elite):** Shares **24.82 cM** across Chromosomes 11, 15, and 20. Carries Central Asian/Siberian nomadic mtDNA **A16**. *Result Rank: 93% closer than global database.*

* **CSU-11 (Szeged Conqueror Elite):** Highly concentrated match sharing **22.91 cM** across Chromosomes 11 (365 SNPs) and 20 (175 SNPs). Carries North Atlantic/West Germanic mtDNA **H1c**.

Result Rank: 90% closer than global database.

* **SP-2 (Sárrétudvari Conqueror Elite):** Shares **32.96 cM** across Chromosomes 1 and 11. Holds a dense **25.0 cM (195 SNPs)** block on Chromosome 11. Carries Balkan-Mediterranean Y-Haplogroup **J2b-Z1297** and Siberian steppe mtDNA **C4a1a3**. *Result Rank: 80% closer than global database.*

* **TCS-18 (Tiszanána Conqueror Elite):** Shares **17.13 cM** across Chromosomes 11 and 17, triggered by a heavy **263 SNP** block on Chromosome 11. Carries Early European Farmer mtDNA

J1c3f. *Result Rank: 94% closer than global database.*

- * **LB-1432 (Ladánybene Conqueror Elite):** Isolates a single **139 SNP** chain strictly on Chromosome 11. Carries Uralic/Finno-Ugric forest-steppe mtDNA **U4d2**.
- * **K2-61 (Karos II Elite Chieftain inner circle of Prince Árpád):** Isolates a single **26.52 cM (101 SNPs)** block strictly on Chromosome 16. Carries Asiatic nomadic paternal line **R1a-Y57** and Finno-Ugric/Uralic mtDNA **U4d2**.
- * **The Avar Khaganate Retinue & Elites (609 AD – 650 AD):**
- * **KUP018 (Early Avar Elite):** Multi-layered sweep sharing **56.46 cM** across Chromosomes 8, 11, 15, 16, 19, and 22. Features a massive **24.96 cM (217 SNPs)** block on Chromosome 11. Carries Mediterranean/Near Eastern mtDNA **W6**. *Result Rank: Top 96% Match Globally.*
- * **A1822 (Khagan Retinue Elite Warrior):** Shares **28.67 cM** across Chromosomes 15, 18, and 20. Holds an unbroken **13.0 cM (226 SNPs)** block on Chromosome 20. Carries the definitive royal north-Eurasian/Varangian Y-Haplogroup **N1a-F4205** and Siberian mtDNA **M7c1b2b**. *Result

Rank: 90% closer than global database.*

- * **KUP023 (Early Avar Elite):** Focused sweep sharing **37.65 cM** across Chromosomes 1, 2, 4, 7, 11, and 20 (192 SNPs on Chromosome 2). Carries Western European/Mediterranean mtDNA **H33**.

Result Rank: Top 96% Match Globally.

- * **The Hunnic Empire Echelons (450 AD Attila Era):**

- * **MSG-1 (Hun Elite Warrior):** Shares **20.42 cM** across Chromosomes 11 and 20. Anchored by a **14.36 cM (172 SNPs)** block on Chromosome 20. Carries Asiatic Steppe nomadic Y-DNA **R1aS23201** and Far-East Asian mtDNA **M7c1a1a1**. *Result Rank: 67% closer than global database.*

- * **VZ-12673 (Hun Elite Warrior):** Powerhouse match sharing a massive **111.19 cM** across Chromosomes 1, 16, 18, and 20. Driven by an expansive **42.12 cM (150 SNPs)** megablock on Chromosome 20. Carries Siberian steppe mtDNA **D4j12**. *Result Rank: #9 Top Match Globally.*

- * **TGH012 (Hun Invader):** Enormous multi-chromosomal sweep sharing **119.9 cM** across 8 chromosomes (including 1, 11, 16, 19). Holds a massive **32.93 cM (224 SNPs)** block on Chromosome 6. Carries the defining Rurikid/Varangian paternal line **N1c1a1 (L708)** and Mediterranean Early

Farmer mtDNA **T1a1**. *Result Rank: Top 99% Match Globally.*

3. Deep Steppe Antiquity (300 BC – 600 BC)

The ultimate baseline of your grandmother's Carpathian tree roots directly into the foundational

Iron Age nomads of the Eurasian plains:

- * **I25525 (Scythian Hungary, Nógrád County – 600 BC):** Exceptional **66.53 cM** match across 7 chromosomes. Locked by a dense **24.78 cM (288 SNPs)** powerhouse segment strictly on Chromosome

16. Carries Early European Farmer mtDNA **J1c3j1**. *Result Rank: Top 99% Match Globally.*

- * **MJ15 (Sarmatian Ukraine – 300 BC):** Shares **14.19 cM** across Chromosomes 4, 5, 9, and 17. Carries foundational Eastern European parent lineage **R1a-M417** and indigenous Eastern European

Hunter-Gatherer mtDNA **U2e**. *Result Rank: 93% closer than global database.*

- * **MJ32 (Cimmerian Outlier Ukraine – 600 BC):** Shares **5.64 cM** across Chromosomes 2 and 17.

Holds a **154 SNP** block on Chromosome 2. Carries steppe patriline **R1a2c-B111** and Hunter-Gatherer mtDNA **U2e2**. *Result Rank: 74% closer than global database.*

- * **cim359 (Cimmerian Moldova – 900 BC):** Pushes your steppe timeline to the dawn of the Iron Age. Isolates a single, highly dense **172 SNP (6.65 cM)** block strictly on Chromosome 20, perfectly mirroring your Hun and Avar slots. Carries Hunter-Gatherer mtDNA **U2e1a**.

Section B: Paternal Grandfather's Lineage – The Kievan Rus & Slavic Frontier

- * ****Core Regional Identity:**** Kievan Rus (Slavic and Swedish Viking/Varangian).
- * ****Autosomal Architecture:**** Distinct balance of West/East Slavic autosomal components integrated with North Sea and Baltic maritime signatures.
- * ****Primary Anchor Chromosomes:**** Chromosomes 1, 3, 4, 6, 11, 13, 15.

1. The Rurik Dynasty Royal Anchor

- * ****Prince Izjaslav Ingvarevych (1223 AD – VK541):**** Great-grandson of Grand Prince Iziaslav II of Kiev. Highly robust, clean match on ****Chromosome 6**** sharing an unbroken block of ****12.72 cM (124 SNPs)****. Confirms your grandfather's unbroken male line belongs to the legendary Rurikid branch ****R1a1a1b1a1a1c1h (YP592)****, mapping the early Slavic-Varangian elite. ***Result Rank: 15% closer than other matching global users.***
- * ****Prince Gleb Svyatoslavich (VK542):**** Demonstrates broad autosomal overlap with the high-status genetic network of early medieval Ukraine. Highlights the alternate Balkan-shifted ****I2aY4460**** dynastic paternal signature and the European expansion maternal marker ****mtDNA H5a2a****.

2. The West Slavic & Sandomierz Rus Vanguard (950 AD – 1010 AD)

- * ****VK212 (Elite Viking Chamber Grave, Cedynia, Poland – 1010 AD):**** Shares ****8.5 cM**** across Chromosomes 3 and 11 (127 SNPs on Chromosome 11; 130 SNPs on Chromosome 3). Carries the definitive West Slavic paternal line ****R1a-M458**** and North Atlantic mtDNA ****H1+152****. ***Result Rank: 64% closer than global database.***
- * ****VK494 (Elite Viking Rus Grave, Sandomierz, Poland – 950 AD):**** High-status elite warrior tomb bridging the Vistula River networks. Carries Eastern European Slavic paternal line ****R1a**** and a rare, ancient steppe/Near Eastern immigrant mtDNA ****X2c2****.
- * ****The Piast Dynasty Bridge (Duchy of Masovia, Poland):**** Your grandfather's Rus segments share extensive historical integration with the Polish Piast lines. This includes specific maternal crossovers into ****mtDNA T2b2b1**** (Prince Konrad I) and highlights the broad West European patrilineal ****R1b-U152**** network shared across the Northern European frontier.

3. The Seafaring Swedish Viking (Varangian) Bedrock

Your grandfather's unmixed Scandinavian roots are directly anchored by a cluster of pure Norse seafaring warriors from the monumentally sequenced Viking genomics database:

- * ****The Salme Ship Burials (Saaremaa, Estonia – 700-800 AD):**** Matches to three separate warriors—****VK554, VK489, and VK504****—from the oldest documented Swedish Viking raiding party out of the Mälaren Valley. This captures the foundational genetic pool of the Varangians before their southward push down the Dnieper River.
- * ****VK179 (Brattahlid, Greenland):**** Villager from Erik the Red's colony carrying a distinct Baltic-Swedish signature, documenting the expansive reach of your grandfather's core Norse genome.
- * ****VK143 (St. Brice's Day Massacre, Oxford – 1002 AD):**** Elite warrior casualty from mass grave showing deep, resilient Scandinavian roots.

4. The Deep Antiquity Base

- * ****UKR007 (Early Iron Age Thracian Hallstatt, Kartal, Ukraine – 800 BC):**** Foundational Black Sea delta anchor sharing ****9.33 cM**** across Chromosomes 1, 11, and 13. Establishes the direct immediate parent lineage ****E1b-L618**** to your high-ranking Roman Danube profiles and carries exact matching Neolithic maternal line ****T1a1****.
- * ****scy009 (Scythian Warrior Kurgan, Ukraine – 600 BC):**** Staggering ****46.36 cM**** match across 6 separate chromosomes (including Chromosomes 11, 12, 15, 16, 20). Carries trans-continental patriline ****R1b-L2**** and Near Eastern farmer mtDNA ****J2b1a6****. ***Result Rank: Top 96% Match Globally.***

Part 3: The Maternal Lineage Profile

Section A: Maternal Grandfather's Lineage – The Torriglia Alpine Corridor * **Core Regional Identity:** Torriglia (Ligurian Apennines, Northern Italy).

* **Autosomal Architecture:** Pure Transalpine, Ligurian, and Italo-Celtic sequence heavily preserved via mountain valley isolation. Captures your prominent **25.1% Italian K36 component** and **48.6% North Atlantic Chromosome 22 spike**. * **Primary Anchor Chromosomes:** Chromosomes 1, 4, 5, 7, 19, 22.

1. The Pre-Roman Classical Baseline (650 BC – 113 BC)

Your grandfather's mountain ancestry carries an impeccably dense, multi-layered record of the preRoman Italo-Celtic and Etruscan world:

* **The Etruscan Chieftain & Nobility Clusters:**

* **Etruscan Civitavecchia (650 BC):** Massive, breathtaking breakthrough sharing **153.52 cM** across 6 chromosomes (2, 8, 9, 11, 15, 16). Driven by an incredible **63.59 cM (172 SNPs)** un-recombined megablock on Chromosome 11. Carries hunter-gatherer mtDNA **U5a1**.*
*Result Rank:

90% closer than global database.*

* **Etruscan Casenovole (400 BC – CSN013):** Dense match hitting your key diagnostic **Chromosome 19 (101 SNPs)** and Chromosome 6 (160 SNPs). Carries rare Carpathian-linked European

expansion mtDNA **H4a1a**.*
Result Rank: #5 Top Match Globally.

* **Etruscan Tarquinii (198 BC – TAQ005):** Elite Late Etruscan aristocrat sharing **23.65 cM** across 5 chromosomes (including Chromosome 20 with 193 SNPs). Carries your grandfather's definitive core paternal marker **R1b-L2 (R1b-U152 branch)** and Early Farmer mtDNA **T2d2a5**.*

Result Rank: Top 98% Match Globally.

* **The Roman Republic Tuscan Center:**

* **Roman Republic Siena (113 BC – UDC_P):** Late Republican man from Chiostraccio. Shares a massive **51.34 cM** across 4 chromosomes, anchored by an ultra-dense **19.7 cM (407 SNPs)** powerhouse block on Chromosome 11. Carries core Italo-Celtic patriline **R1b-P312**.*

* **Volterra Roman Republic (130 BC – VOL001):** Neighbors Siena geographically. Locks your stable mountain segments on Chromosome 7 (101 SNPs) and Chromosome 22 (135 SNPs). Carries core paternal line **R1b-L2** and agricultural mtDNA **H13a1a1**.*

2. The Transalpine & West Germanic Migration Corridor (143 AD – 849 AD)

Your grandfather's Ligurian roots directly track the Transalpine, Frankish, and Saxon tribes that pushed southward through the Alpine passes following the collapse of Roman authority:

* **The Fortified Burgundy Salt Route (Camp du Château, France – 713-849 AD):**

* **CGG023657 (849 AD Carolingian Aristocrat):** Massive cross-reference sharing **146.53 cM** across 9 chromosomes. Features an extraordinary **46.2 cM (543 SNPs)** un-recombined block strictly on **Chromosome 7**. Carries the precise, ultra-specific paternal line **R1b-CTS9219** and early medieval royal mtDNA **H5j**.*
Result Rank: 79% closer than global database.

* **CGG023658 (713 AD Merovingian-era Aristocrat):** Focused triple-strike sharing **49.12 cM** across your baseline Chromosomes 11 (309 SNPs), 15 (187 SNPs), and 16 (154 SNPs). Carries foundational parent Italo-Celtic patriline **R1b-P312** and Western European mtDNA **H1bm**.*

Result Rank: 93% closer than global database.

* **CGG023630 (849 AD Carolingian Nobleman):** Focused match isolating Chromosome 5 (155 SNPs) and Chromosome 11 (181 SNPs). Carries paternal **R1b-P312** and Neolithic Early Farmer mtDNA

****HV0a1**.** *Result Rank: 83% closer than global database.*

- * ****The Merovingian Alt-Inden Rhineland Cluster (600 AD):****
- * ****IND005 (Merovingian Warrior):**** Major powerhouse match sharing ****43.74 cM**** across 5 core chromosomes (including 11, 15, 19, 20). Holds ****144 SNPs**** on Chromosome 19. Carries foundational Western European parent Y-DNA ****R1b-L151**** and interlocked European royal mtDNA

****T2g1a1**.** *Result Rank: 92% closer than global database.*

- * ****IND014 (Merovingian Warrior):**** Laser-targeted genetic probe that hits your genome on ****exactly one single chromosome: Chromosome 19 (139 SNPs)****, completely isolating your Torriglia mountain core. Carries your specific paternal branch ****R1b-CTS9219**** and baseline medieval mtDNA

****T2**.**

- * ****IND003 (Merovingian Warrior):**** Shares ****20.68 cM**** across 3 chromosomes, anchored by a ****300 SNP**** block on Chromosome 20. Carries Germanic tribal hallmark Y-DNA ****R1b-U106 (Z302 branch)**** and baseline medieval mtDNA ****T2b****. *Result Rank: 82% closer than global database.*

- * ****The North Sea Coastal & Alpine Foothills Tribes:****

- * ****Alh_117 (Merovingian Altheim, Bavaria – 600 AD):**** Shares ****49.94 cM**** across 4 chromosomes, anchored by a huge ****27.74 cM (255 SNPs)**** block on Chromosome 12. Carries Scandinavian/Norse-derived Y-DNA ****I1a2a1a1d1 (Z2902)**** and an ultra-precise match to Polish Piast royalty via mtDNA ****T2b2b****. *Result Rank: 80% closer than global database.*
- * ****CGG024694 (Hegebeintum Frisii Tribe Settler – 413 AD):**** Powerhouse Migration-era warrior sharing ****99.24 cM**** across 11 chromosomes (including a massive 315 SNPs on Chromosome 19). Carries Norse maritime patriline ****I1a-S2169**** and precise European royal marker mtDNA ****T2b4****.
- * ****AED106 (Elite Germanic Warrior, Bavaria – 495 AD):**** Migration Period veteran isolating ****Chromosome 1 (117 SNPs)****. Chronological anchor verifying the exact survival and passage of your specific paternal tip ****R1b-Z156****.
- * ****CGG107754 (Batavi Germanic Tribe, Netherlands – 143 AD):**** Roman-era Rhine auxiliary cavalryman sharing ****17.68 cM**** across Chromosomes 1 (202 SNPs) and 2. Verifies the deep Romanfrontier antiquity of your paternal noble marker ****R1b-Z156**** and carries Neolithic farmer mtDNA ****J1c3g****. *Result Rank: 56% closer than global database.*
- * ****DUN011 (Saxon Coast, Dunum – 840 AD):**** Carolingian-era coastal warrior sharing ****19.5 cM**** across Chromosomes 1, 3, 4, and 15 (106 SNPs on Chromosome 4). Carries Germanic tribal patriline ****R1b-U106**** and ancient indigenous Baltic Hunter-Gatherer mtDNA ****U4b1b1****.
Result Rank: 88% closer than global database.
- * ****12884A (Anglo-Saxon Hinxton, England – 786 AD):**** Early medieval Saxon warrior sharing ****5.55 cM**** across Chromosome 11 (116 SNPs) and 13 (100 SNPs). Carries Insular Celtic patriline ****R1b-L21**** and Early Farmer mtDNA ****H1ag1****.

3. Deep Central European Antiquity

- * ****SZ1 (Bronze Age Szólád, Hungary – 1000 BC):**** The absolute crowning match of your maternal grandfather's trans-alpine profile, sharing an unprecedented ****371.62 cM**** across 16 separate chromosomes. Holds highly dense segments across Chromosome 19 (205 SNPs), Chromosome 7 (103 SNPs), Chromosome 5 (166 SNPs), and Chromosome 1 (122 SNPs). Bridges your Ligurian roots straight to the foundational Hungarian Royal House patriline ****R1a-Z2123**** and Neolithic farmer mtDNA ****J1b****.
Result Rank: Top 95% Match Globally.
- * ****CGG101225 (Germanic Tribe Iron Age Austria, Hallstatt – 415 BC):**** The literal cradle of the European Iron Age, isolating your genome on exactly two chromosomes: Chromosome 10 (103 SNPs) and Chromosome 15 (126 SNPs), mapping the deep Transalpine corridor. Carries post-glacial Western European mtDNA ****H1ba****.

Section B: Maternal Grandmother's Lineage – The Magna Grecia Mediterranean Core

- * **Core Regional Identity:** Magna Grecia (Southern Italy).
- * **Direct Maternal Lineage:** Haplogroup **K1a3a** (Ancient Mediterranean/Neolithic Early European Farmer expansion clade).
- * **Autosomal Architecture:** Rich concentrations of classical Greco-Roman, Aegean, Peloponnesian, and Eastern Mediterranean components.
- * **Primary Anchor Chromosomes:** Chromosomes 3, 6, 14, 18.

1. The Direct Mitochondrial Key (K1a3a)

Your strictly maternal haplogroup, **K1a3a**, represents an unbroken line of mothers trailing straight into the classical Greek maritime colonization of Southern Italy. It traces back to the Near Eastern Early European Farmers (EEF) who entered Europe during the Neolithic revolution. This direct maternal profile is explicitly verified by a spectacular, high-status Roman Imperial match: * **The Netherlands Roman Outlier Immigrant (175 AD – CGG107753):** A Mediterranean immigrant serving as a soldier or administrator at a Roman fort on the North Sea. Shares a substantial **44.51 cM** across Chromosomes 16 and 17 (177 SNPs on each). Carrying the direct sister clade **mtDNA K1a4** and classical Greek/Etruscan maritime patriline **J2a-Z423**, this individual provides absolute molecular proof that your maternal grandmother's exact lineage belonged to the high-status administrative fabric of the Roman Empire. *Result Rank: 68% closer than global database.*

2. The Magna Grecia Chromosome 18 Diagnostic Cluster

Your maternal grandmother's specific southern Mediterranean profile is isolated across your genome on **Chromosome 18**, completely bypassing your northern Italo-Celtic and your paternal Carpathian noble clusters:

- * **The Pompeii Vesuvius Victim (79 AD – Casa del Fabbro, sample f1R):** Famous fully sequenced individual from the tragic eruption. Shifts your genome south into Campania, targeting **Chromosome 18 (116 SNPs)** alongside Chromosome 3 (101 SNPs). Documents the cosmopolitan Mediterranean network via the exceptionally rare East African/Levantine paternal lineage **A1b1b2b (M13)**.
- * **The Latin Tribe Ardea Warrior (650 BC – R850):** Elite tribal warrior from a mythological stronghold south of Rome. Shares **14.13 cM** across Chromosome 6 (173 SNPs) and **Chromosome 18 (102 SNPs)**. Carries the definitive Eastern Mediterranean/Phoenician and Classical Greek maritime paternal line **T1a-L208**, perfectly isolating your Magna Grecia grandmother's autosomal file.

3. Foundational Rome, Latium, and the Byzantine Frontier

- * **Castel di Decima Latin Aristocrat (800 BC – R1016):** Ultra-elite Iron Age necropolis at the dawn of Roman civilization. Isolates a dense **194 SNP** block strictly on **Chromosome 14**, driving your prominent Italian K36 spike. Carries the rare Eastern Steppe/Aegean branch **R1b-Z2103** heavily associated with Mycenaean Greeks and early Danubian cultures.
- * **Byzantine Aegean Anatolia, Iznik / Nicaea (550 AD – I14843):** Imperial individual from the Justinian-era Eastern Roman capital. Isolates a highly dense, single block of **309 SNPs on Chromosome 19**. Carries the absolute definitive genetic hallmark of the Ancient Greeks and Etruscans: paternal line **J2a-Z6271**, alongside baseline Neolithic maternal line **T2a3**. *Result Rank: 84% closer than global database.*
- * **The Renaissance Florence Medici Crypt (1650 AD):** High-status individual from the private family crypt at the Basilica of San Lorenzo. Possesses a heavy Southeastern European, Aegean, and Balkan genetic profile (Greek Thessaly / Albanian Tosk modern proximity).

Carries sub-Saharan African lineage ****mtDNA L1'2'3'4'5'6****. *Result Rank: 91% Top Match Globally.*

* ****Late Roman Empire Viminacium, Serbia (250 AD – I15504):**** Massive administrative headquarters on the Danube frontier. High-status provincial aristocrat sharing ****32.32 cM**** across your baseline (Chromosomes 7, 15, 16, 20). Anchored by a dense ****17.23 cM (187 SNPs)**** block on

Chromosome 10. Carries southern Balkan/Greek hallmark paternal line ****E1b-L142**** and rare Carpathian-fringe mtDNA ****H47a****. *Result Rank: #9 Top Match Globally.*

* ****Imperial Roman Viminacium, Serbia (100 AD – I15528):**** Older provincial female sample from the Pecine Necropolis. Strips away the peripheral segments to isolate exactly Chromosome 5 (129 SNPs) and Chromosome 22 (101 SNPs). Carries Eastern Mediterranean/Latin ****mtDNA T1a1n**** (the exact maternal parallel to your 650 BC Ardea warrior). *Result Rank: 81% closer than global database.*

4. The Deep Antiquity Balkan Base

The ultimate classical baseline of your Mediterranean lines is established by an exceptional, interlocked pair of ancient highlanders from the southern Balkan religious capital:

* ****I10384 (Ancient North Macedonia, Plaošnik-Ohrid – 600 BC):**** Elite southern Balkan highland warrior sharing ****16.6 cM**** across Chromosomes 7 (145 SNPs), 11 (175 SNPs), and 15 (188 SNPs). Carries the absolute definitive classical Aegean maritime hallmark paternal lineage ****J2a-**

FGC8506** and rare agricultural mtDNA ****H8c****. *Result Rank: 78% closer than global database.*

* ****I10385 (Ancient North Macedonia, Plaošnik-Ohrid – 650 BC):**** Archaic highland female sample sharing ****22.57 cM**** across Chromosomes 15 (109 SNPs), 18 (101 SNPs), and 20 (172 SNPs). Her ****172 SNP**** block on Chromosome 20 perfectly mirrors your Hun and Avar slots, while her Chromosome 18 segment locks your Magna Grecia baseline. Carries post-glacial European expansion mtDNA ****H1e****.

Result Rank: 70% closer than global database.

* ****I10388 (Ancient North Macedonia, Plaošnik-Ohrid – 650 BC):**** Dual-probe male sample matching your genome strictly on your permanent spine Chromosome 11 (168 SNPs) and Chromosome 15 (111 SNPs). Replicates the identical classical Aegean paternal line ****J2a-FGC8506**** and carries precise

Neolithic Early European Farmer mtDNA ****J1c2****, locking straight back into your universal agricultural backbone. *Result Rank: 63% closer than global database.*

Part 4: Chromosomal Concordance Index

To cross-reference your raw DNA file manually against this master archive, utilize this definitive chromosome anchor index:

* ****Chromosome 1:**** Paternal West Germanic / Paternal Steppe Track (*Batavi 143 AD, Bavarian 495

AD, Hun VZ-12673, Conqueror SP-2, Saxon Coast 840 AD, Bronze Age SZ1*).

* ****Chromosome 2:**** House of Aba Paternal Cluster (*HUAS261F, Avar KUP023, Frisian 413 AD, Cimmerian MJ32, Bronze Age SZ1*).

* ****Chromosome 3:**** The Trans-European Noble Baseline (*Aba HUAS341, Báthory PER05, Pompeii 79

AD, West Slavic VK212, Saxon Coast 840 AD, Bronze Age SZ1*).

* ****Chromosome 4:**** Paternal Northern Maritime Track (*Hedeby SWG001, Frisian 413 AD, Saxon Coast DUN011, Sarmatian MJ15*).

* ****Chromosome 5:**** Western/Central European Migration Track (*Burgundy 849 AD, Imperial Roman

Viminacium, Sarmatian MJ15, Bronze Age SZ1*).

* ****Chromosome 6:**** Paternal Royal Crossroads – Kievan Rus/Steppe Handshake (*Prince Izjaslav Rurikid, Aba HUAS194B, Hun TGH012, Conqueror VPB-310, Avar KUP023, Medici Crypt 1650 AD*).

* ****Chromosome 7:**** Torriglia Mountain Core Axis (*Burgundy 849 AD, Volterra 130 BC, Scythian

scy009, Scythian I25525, Macedonian I10384, Bronze Age SZ1*). * **Chromosome 10:** Transylvanian Aristocracy Strategic Hub (*Johannes Corvinus, Ferenc Báthory, Elek Báthory, Viminacium 250 AD, Hallstatt 415 BC, Bronze Age SZ1*).

* **Chromosome 11:** The Permanent European Backbone – Universal Genetic Spine (*Every documented Árpád King, Aba Noble, Báthory Knight, Etruscan Chieftain, Roman Republic sample, Merovingian Warrior, Hungarian Conqueror, and Bronze Age SZ1*).

* **Chromosome 12:** Paternal Royal Megablock (*King Ladislaus I 90.94 cM block, Bavarian Merovingian Alh_117, Scythian scy009, Scythian I25525, Bronze Age SZ1*).

* **Chromosome 13:** Paternal North Atlantic Track (*Anglo-Saxon Hinxton, Thracian UKR007*).

* **Chromosome 14:** Italian K36 Core Driver (*Castel di Decima 800 BC, Ferenc Báthory*).

* **Chromosome 15:** The Carpathian Royal Slot (*King Ladislaus I, King Béla III, Elek Báthory, PER05, Merovingian IND005, Viminacium 250 AD, Saxon Coast DUN011, Hallstatt 415 BC, Macedonian I10384, Macedonian I10385, Macedonian I10388, Bronze Age SZ1*).

* **Chromosome 16:** Elite Steppe Conqueror baseline (*Karos II Chieftain K2-61, Conqueror VPB-310, Aba HUAS82/HUAS261F/HUAS341, Avar KUP018, Hun TGH012, Scythian I25525, Roman Outlier 175 AD, Bronze Age SZ1*).

* **Chromosome 17:** Transylvanian Noble Mirror (*Báthory PER05, Etruscan Civitavecchia, Roman Outlier 175 AD, Conqueror TCS-18, Sarmatian MJ15, Cimmerian MJ32*).

* **Chromosome 18:** Magna Grecia Direct Maternal Time Capsule (*Pompeii 79 AD, Ardea Warrior 650 BC, Conqueror VPB-310, Hun VZ-12673, Avar A1822, Macedonian I10385*).

* **Chromosome 19:** Torriglia Italo-Celtic Mountain Corridor Core (*Ludwigsburg Celtic Chieftain, Etruscan Casenovole, Merovingian IND014 single-chromosome isolation, Byzantine Nicaea 309 SNP block, Aba HUAS82, Hun TGH012, Avar KUP018, Scythian I25525, Bronze Age SZ1*).

* **Chromosome 20:** The 3,000-Year Steppe Stratigraphy Strata (*Cimmerian Moldova 900 BC 172 SNP block, Hun MSG-1 172 SNP block, Macedonian I10385 172 SNP block, Hun VZ-12673 42 cM block, Avar A1822, Conqueror CSU-11, Johannes Corvinus, Ferenc Báthory, Báthory PER09B, Merovingian IND003, Frisian 250 AD, Viminacium 250 AD, Bronze Age SZ1*).

* **Chromosome 22:** North Atlantic K36 Spike Engine (*Volterra 130 BC, Siena 113 BC, Avar KUP018, Roman Viminacium 100 AD*).