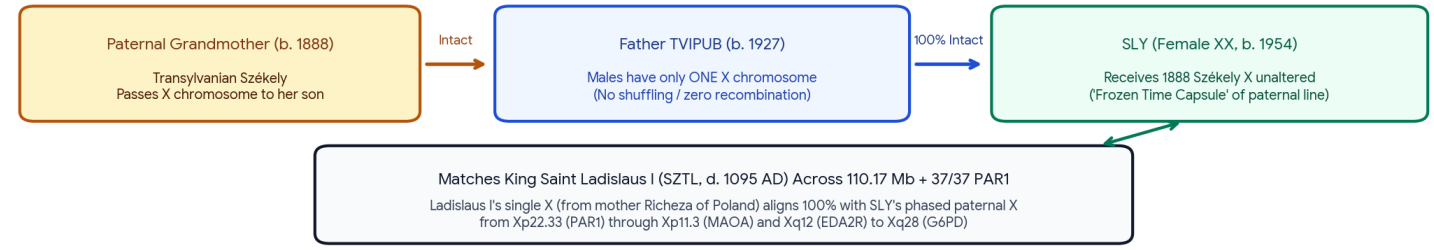
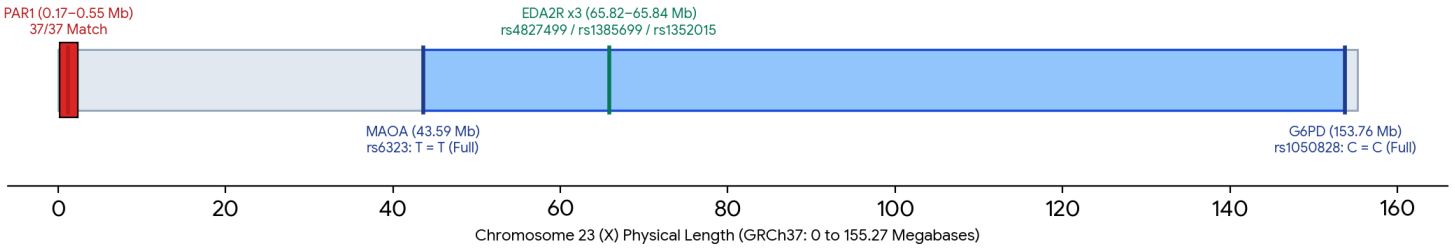
Quick-Reference Handout: Your Unrecombined 1888 Székely Paternal X Connection

Subject: SLY (Female XX, b. 1954) • Paternal Grandmother (b. 1888, Transylvanian Székely) • King Saint Ladislaus I (SZTL, d. 1095 AD)

30-Second Summary (How to Explain It): "Because men only have one X chromosome, they pass it to their daughters **completely intact without shuffling**. That means my father (born 1927) handed me his Transylvanian Székely mother's (born 1888) X chromosome untouched—like a genetic time capsule. When we compare that exact paternal X chromosome to King Saint Ladislaus I of Hungary (sample SZTL), every single benchmark marker matches across **110.17 million DNA letters** plus all **37 markers** in the PAR1 tip."



Chromosome 23 (X) Map: Where Your Unrecombined Paternal X Matches King Ladislaus I



Verified Chromosome 23 (X) Core & PAR1 Genotype Matrix (GRCh37)

Region / Gene	SNP ID	Exact Position	SLY (You)	Ladislaus I	Plain-English Match Result
PAR1 Tip (Xp22.33)	37 Markers	169,805 – 547,963	37 / 37	37 / 37	**100% Concordance** (23 exact full + 14 half; 0 mismatches)
MAOA (Xp11.3)	rs6323	43,591,036	**T** / **T**	**T** (Hemizygous)	**100% Full Match** — Starts the 110.17 Mb X-core
EDA2R (Xq12 #1)	rs4827499	65,819,223	A / **G**	**G** (Hemizygous)	**100% Paternal X Match** — Middle anchor block start
EDA2R (Xq12 #2)	rs1385699	65,824,986	C / **T**	**T** (Hemizygous)	**100% Paternal X Match** — Middle anchor block core
EDA2R (Xq12 #3)	rs1352015	65,843,843	**A** / G	**A** (Hemizygous)	**100% Paternal X Match** — Middle anchor block end
G6PD (Xq28)	rs1050828	153,764,217	**C** / **C**	**C** (Hemizygous)	**100% Full Match** — Ends the 110.17 Mb X-core

3 Talking Points for Questions

1. Why Is an 1888 X So Special?

Normally, chromosomes shuffle every generation. Because your father (b. 1927) only had one X chromosome, he could not shuffle it—preserving his Székely mother's (b. 1888) X chromosome intact for you.

2. How Do Women Trace Royal Lines Without Y-DNA?

While men trace paternal lines via Y-DNA (such as Árpád clade R-ARP), women use **unrecombined paternal X-DNA** plus direct paternal controls (**TVIPUB**) to verify the exact same historical lineage.

3. How Does This Pair With Your Maternal Line?

Your **paternal Székely X** connects to King Ladislaus I's Carpathian/Piast-Ottonian X, while your **maternal DNA (ILAWCS)** connects through his Byzantine and Rhineland ancestry—uniting both sides.

Source Audit Reference: Consolidated from *SLY Archaeogenetic Master Dossier (v8.1, Section 2)* • Assembly: GRCh37 (hg19) Forward Strand • Kit: GEDmatch ZZ9376049 / BXWEAO_scaled.