



13 February 2023

This DNA Study is for **Branden Jarrell** reveals the **yDNA haplogroup R-L21** is his **Patrilineal or Male** line of **Daniel Jarrell** (17 December 1746 - January 10 1804) from **Culpeper, Virginia to Twilight, West Virginia** and beyond. **Daniel's** wife was **Mary "Terry" Davis** from Culpeper, Virginia (1742 or 1750 - 18 November 1820) married 7 February 1770 in Culpeper. Daniel Jarrell purchased land from my immigrant ancestor **Darby Quinn** who immigrated in 1702 at Manikin-Sabot, Virginia and through **Darby's** sons. **Brandon's Aunt La Donna Jarrell Quinn** and I match via atDNA at 11 cM | < 1% shared DNA

Branden's DNA test results were provided through the **National Genographic Project** utilizing **Geno 2 Helix technologies** specifically designed to focus on the **X and Y chromosomes** as well as the **autosomal**, or **ad-mixture** regions of human DNA.

The **Genographic Project** began in 2005 and is a research project carried out by the **National Geographic Society's scientific team** to **reveal patterns of human migration**.

National Geographic and their **Genographic Project** in partnership with **Family Tree DNA**. **GenoChip 2.0** is specifically designed for ancestry testing and includes **SNPs** from **autosomal DNA**, **X-DNA**, **Y-DNA** and **mtDNA**. The design of the new chip was a collaborative effort between **Eran Elhaik** of **Johns Hopkins**, **Spencer Wells** of

National Geographic, Family Tree DNA and Illumina, Inc. All testing was done at **FTDNA** facilities in Houston.

mtDNA or the x-chromosome (**Pink is his mother's Rumrill line**)

Branden's mtDNA genetic haplogroup is H1 and rises between 9,900 and 800 years ago also in **West Asia**. This is his mother's mtDNA.

Y-DNA or the y-chromosome (**Green is his father's Jarrell line**)

Branden's yDNA genetic Haplogroup is of the **R1b tree** and places him in the **yDNA Haplogroup R-L21** which rises between **5,500 - 12,000** years ago in **West Asia**. This is his father's yDNA and thus the yDNA of **Daniel Jarrell** and his **Fitzgerald** line of **Ireland**.

Neanderthal DNA (Final Page)

Branden's Neanderthal DNA is approximately 1.5%, slightly higher than the 1.3% average for the average tester's DNA. This match is approximately 50,000 years ago.

Autosomal DNA (**Annotated in Blue handwriting**)

Branden's atDNA rose between 500 years and 10,000 years ago. The first reference population identifies with the **Beaker Culture** in **England**, whereas his second reference population is **Dutch**. This is his ad-mixture or autosomal DNA.