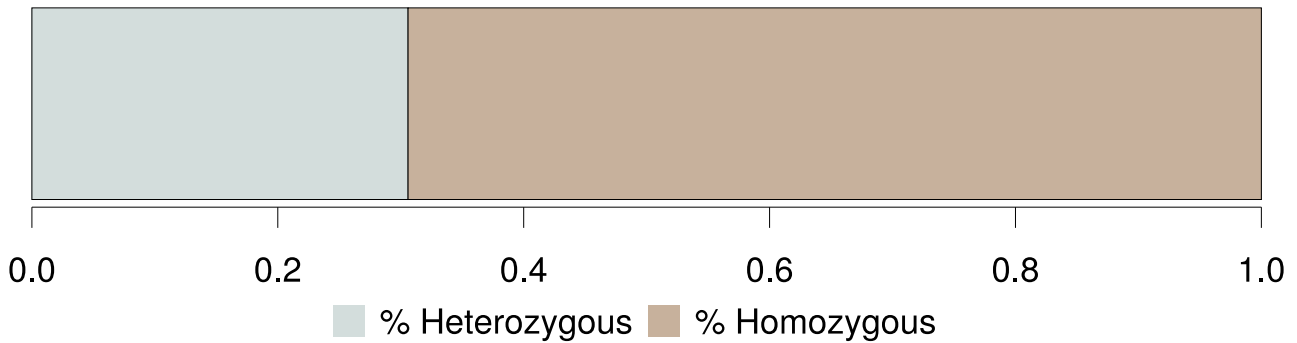


Cannatonic X

SGID 116-0002
Date Tue Aug 16 07:50:24 MDT 2016
PlateUID d2.01
PipelineMD5 79c778694f8cc5b22f326ba7f0215c01

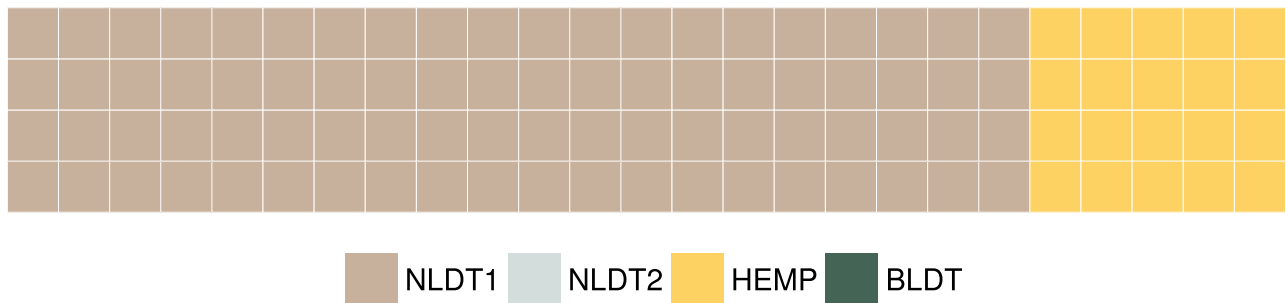
Stability

Greater genetic homozygosity leads to greater phenotypic stability which is the goal when breeding a consistently superior strain. Cannatonic X tested as 69.40 % homozygous (stable) and would be over 90% stable after 4 generations of sibling crosses.



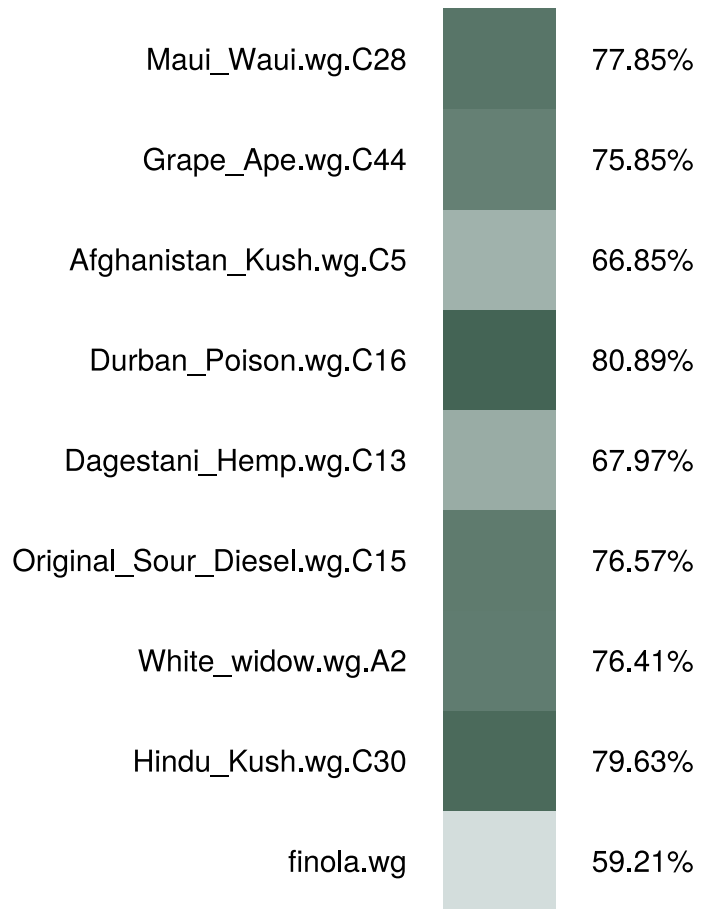
Ancestry

Ancestry is a description of how Cannatonic X partitions into the four major clades currently identified within *Cannabis*. The pedigree of Cannatonic X is 80.49 % NLDT1 (Durban Poison and Haze), 0.00 % NLDT2 (Hawaiian types), 0.00 % BLDT (Afghan types and Kushs), and 19.51 % Hemp (Carmagnola and USO-31).



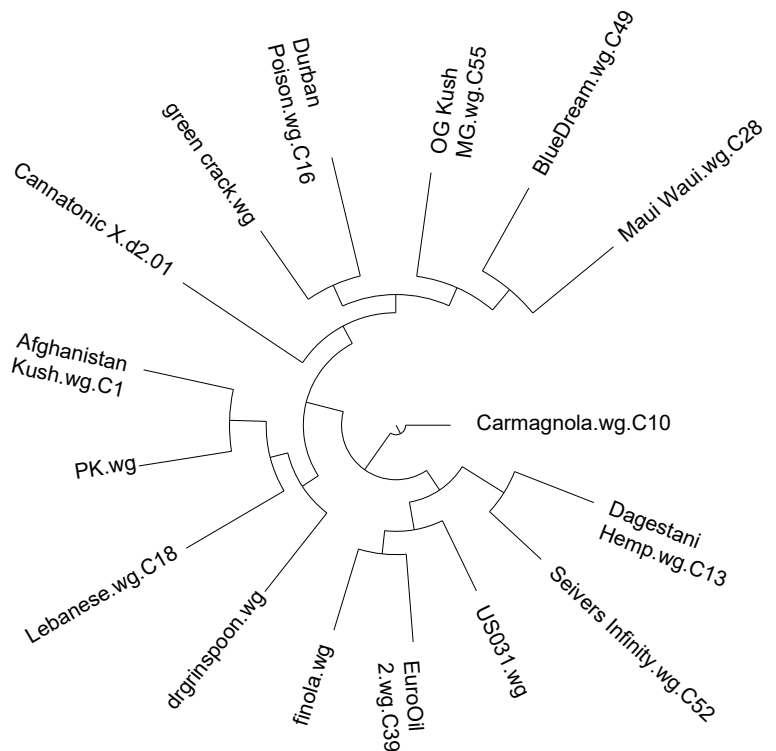
Similarity

The heat map represents how similar at the DNA level Cannatonic X is in relation those in our reference database. The most similar strains (darker) are more recently related strains.



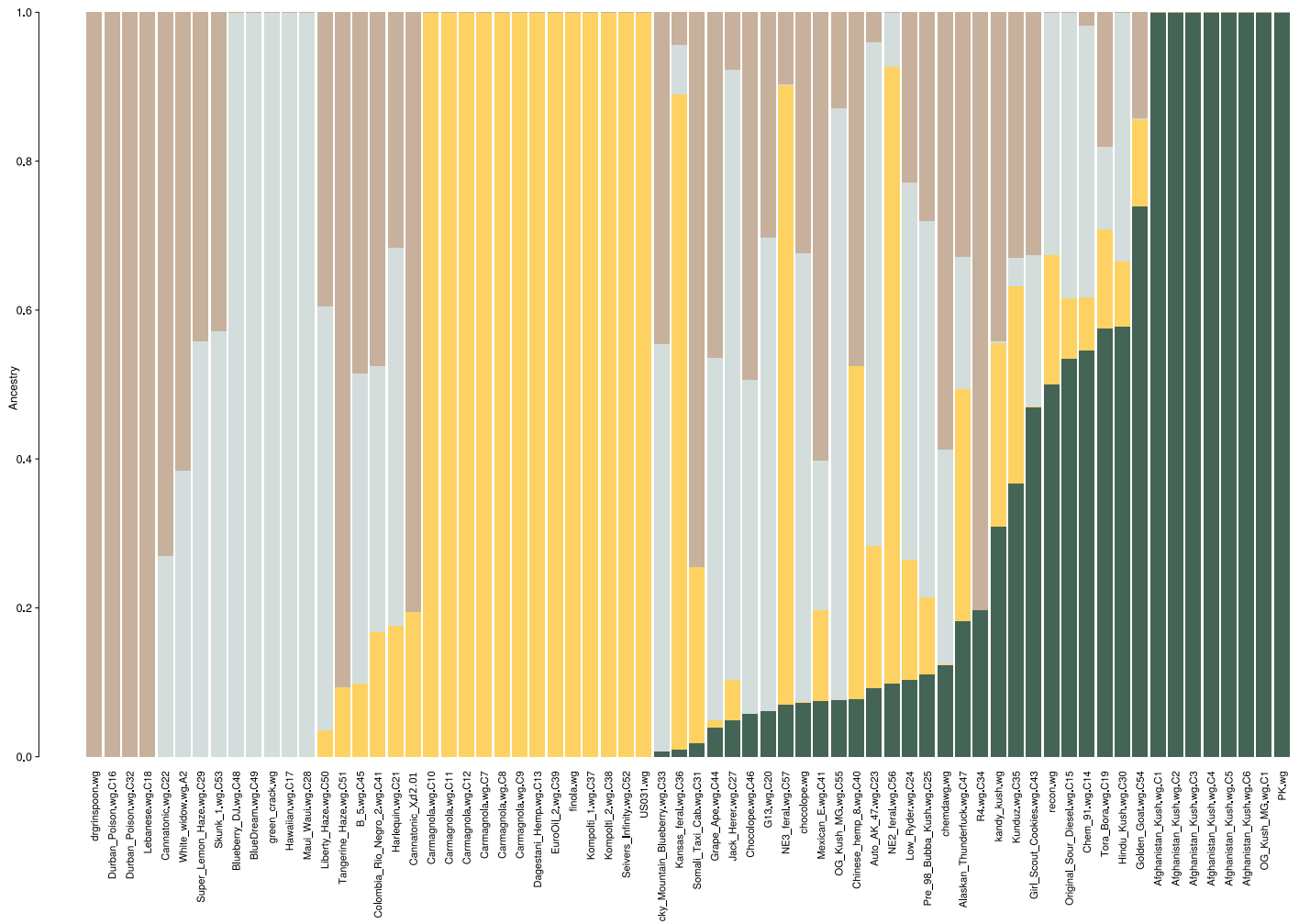
Evolution

The figure shows the closest relatives to Cannatonic X and it's most likely relation to fifteen popular and well-defined strains. Branch lengths are proportional to evolutionary distance.



Population Structure

The population structure is similar to the ancestry analyses, but shows Cannatonic X in the broader context of our reference database. Bars of a single color indicate strains with the smallest degree of admixture.



Star Chart

Cannabis is a diverse plant taxa with a complex breeding history. This star chart illustrates hybridization events leading to the modern strains. Evolutionary distance is measured outwards from the inside of the star. Connections between rays indicate the degree of hybridization between lines.

