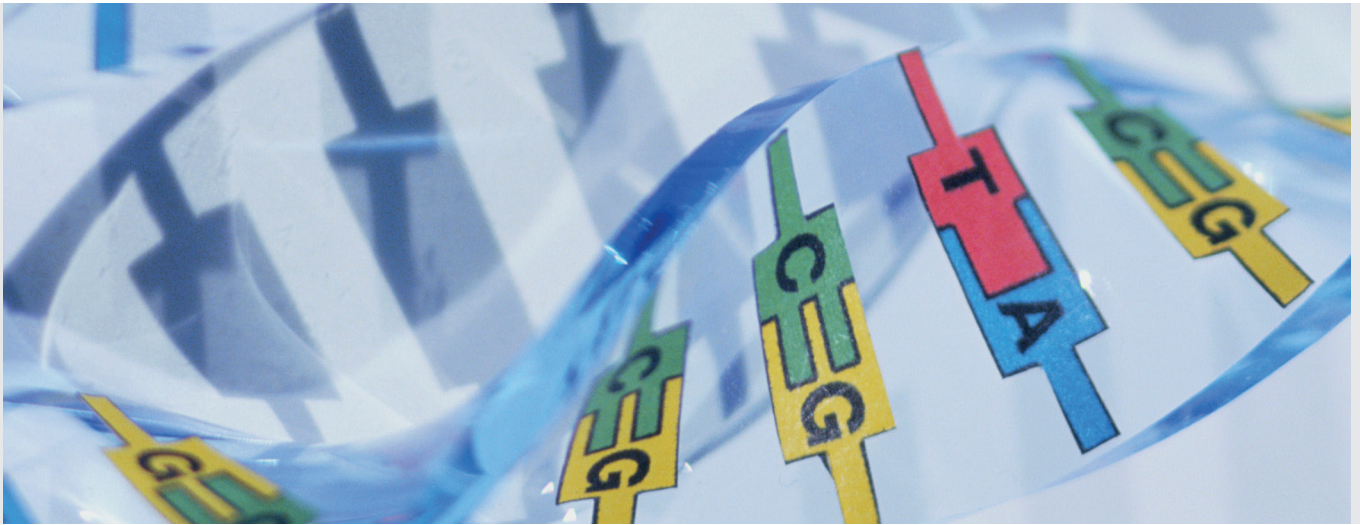


ALLST*R Database



Web-based STR Population Database
Worldwide Exchange of Allele Frequency Data
High Standard Quality Assurance

ALLST*R is an extensive allele frequency database for autosomal short tandem repeats (STRs). The basic idea of ALLST*R is to provide a tool to create a central collection of allele frequencies jointly. For this purpose, the web-based software application offers a variety of features such as adding of allele frequencies, export of existing data sets and calculation of biostatistical quality parameters. Moreover, the database provides comprehensive information about STR markers, populations, biostatistical values as well as literature references.

III Short Tandem Repeats (STRs)

STRs are short repeating nucleotide units and typical for noncoding DNA regions of all humans. These STR loci only differ in the number of repeats between individuals. Different numbers of repeats are represented by different alleles. Depending on how often a particular allele is present in a specific population, the allele frequency varies. Due to these properties, alleles with their frequencies are the foundation for all biostatistical evaluations based on genetic fragment length analysis.

„ALLST*R promote the exchange of scientific results and provide information to all scientists from areas of DNA forensics, paternity testing and molecular diagnostics.“

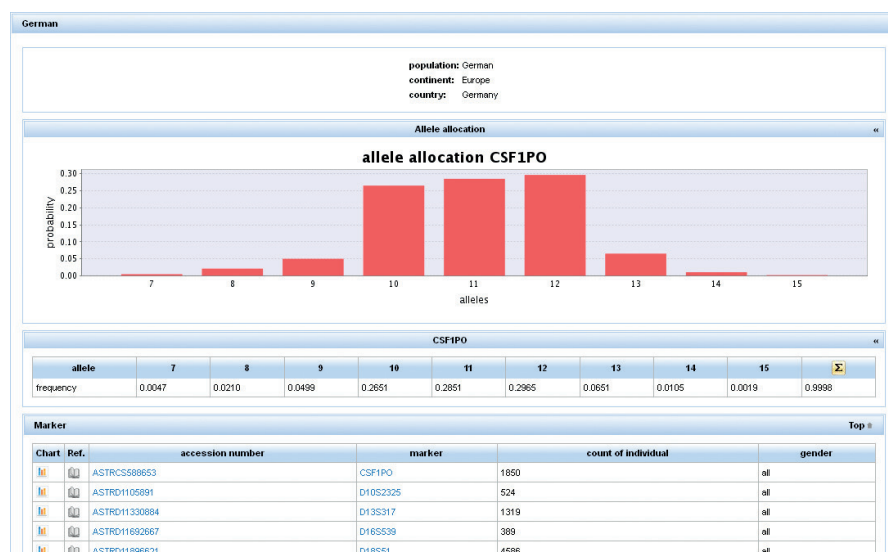
Dr Frank Götz, Executive Director Qualitytype GmbH



Database for Biological Research

III Clear Navigation

The web-based ALLST*R database provides a clear representation of allele frequency data on one single page. The information is subdivided into sections that can be expanded or collapsed in order to allow adjusting the result view as you like.



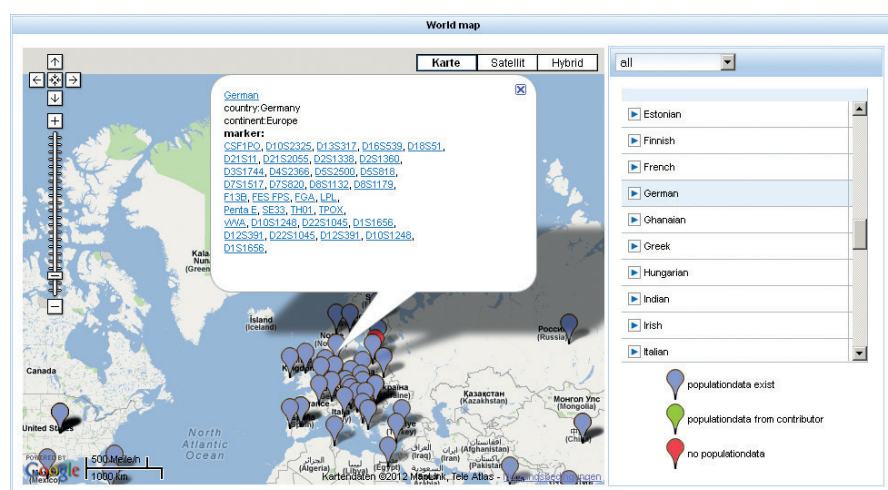
III Comprehensive Calculations

While importing your own frequency data, ALLST*R is calculating the following biostatistical parameter for each population:

- Polymorphic Information Content (PIC)
- Heterozygosity (HET)
- Homozygosity (h)
- Power of Discrimination (PD)
- Power of Exclusion (PE)
- Paternity Index (PI)
- Mean Exclusion Chance (MEC)

III Data Import and Export

The import service allows to enter allele frequency data into the ALLST*R database using an input mask or Excel import. In the process, data are checked for validity and quality parameter are calculated and displayed. To ensure high quality, all data are controlled by Qualitytype GmbH before being published. The export of datasets in Excel format is free of charge for all registered users.



III Cartographic Presentation

All populations in ALLST*R are displayed on a digital world map. This allows a fast and secure assignment of populations to a particular country or area.

III Accession Number

For a direct reference to available data in the population database, every data set receives an automatically generated unique accession number.

III Free of Charge

All information can be displayed without prior registration. In order to guarantee data security, free registration is only required for data import and export. Please register at allstr@qualitytype.de.

III More Information

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