

# ISFG Pre-congress workshop

## *Y-Chromosome Analysis and Statistics*

Tuesday September 10<sup>th</sup> 2024

In 2020, the recommendations of the DNA Commission of the ISFG for the interpretation of Y-STR findings were published, and in 2022 SWGDAM approved the *Interpretation Guidelines for Y-chromosome STR typing*. The core of these recommendations are model-based methods for determining the frequency of a haplotype by means of the online available YHRD database. Using case studies from everyday forensic work, we demonstrate how a trace/reference match can be evaluated and give examples for formulating the hypotheses and the likelihood ratios in the report. The mutation model on which the Discrete Laplace method is based will be presented in detail.

The workshop also provides practical and theoretical knowledge for the application of the *Mixture* and the *Kinship* tools both available from the YHRD. We invite forensic experts, practitioners and researchers to attend this workshop.