

# ISFG Pre-congress workshop

## Forensic Genetic Genealogy

Monday, 9th september 2024

### Description

The aim of this workshop is to give a comprehensive introduction to Forensic Investigative Genetic Genealogy (FIGG). We will explore its history and legal aspects, along with a review of methods for SNP profiling and relationship inference. We will provide insights into genealogy DNA databases and tools for interpreting genetic matches. Theoretical presentations will be mixed with hands-on exercises. For latest updates and further information visit the website

<https://familias.name/ISFG2024> where links to presentations and exercises will be posted.

### Content

The workshop will focus on the following topics:

- *Overview of FIGG*: A general introduction to FIGG and its evolution, overview of case types, legal and ethical aspects.
- *Establishment of SNP Profiles*: Learn about methods to generate SNP profiles. This includes whole genome sequencing, hybridization capture techniques, microarray, and PCR amplicon sequencing.
- *Relationship Inference and Matching*: Gain understanding in the underlying methods of inferring relationships and matching from the SNP data.
- *Genealogy*: Insights into the genealogy DNA databases, tools, and sources for pedigree building, and interpreting genetic matches.

### Objectives:

By workshop end, participants will:

- Understand F/IGG methodologies and workflows.
- Develop SNP profiling skills and relationship inference techniques.
- Enhance genealogical abilities to navigate databases effectively.
- Gain insights into legal and ethical considerations in F/IGG.

Reasons to Attend:

- Gain practical skills for real-world F/IGG applications.
- Network with others working with IGG
- Contribute to solving cold cases

Participant Requirements:

- Bring laptops or tablets for interactive exercises. No software downloads needed; materials provided during sessions.