

# THE 28<sup>th</sup> CONGRESS OF THE INTERNATIONAL SOCIETY FOR FORENSIC GENETICS

9 - 13<sup>th</sup> SEPTEMBER 2019, PRAGUE, CZECH REPUBLIC, PRAGUE CONGRESS CENTRE



## PRE-CONGRESS WORKSHOP

### FW3 – Population analysis of forensic DNA data using Snipper and STRUCTURE

**Organisers:** Christopher Phillips & Leonor Gusmao

**Type:** Full Day Workshop, Hands-on

**Date & Time:** Monday, 9 September (14:00-18:00), Tuesday, 10 September (9:00-13:00)

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This workshop will cover the preparation of reference population data and forensic profile data for analysis with Snipper-based Bayes likelihood ratio tests and Principal Component Analysis; and STRUCTURE-based genetic cluster analysis. Such tests are gaining increasing interest as a way to estimate the possible bio-geographical ancestry of DNA recovered from forensic samples.

Students will run all three analyses with autosomal STR and SNP genotypes generated from both capillary electrophoresis and massively parallel sequencing assays typing established forensic panels. STRUCTURE tests of medium-scale population data will be run 'overnight' between the pm and am sessions of the workshop, which is divided across two half-days. Students will be required to pre-install STRUCTURE software and allow their laptops to run STRUCTURE in the background overnight. Students are invited to bring their own data, which could be analysed during the workshop.

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