



SPLIT SUMMER SCHOOL STSS2020

COURSE: Advanced STR Mixture Interpretation: Probabilistic Genotyping Using MaSTR

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Main topics:

- challenges of complex STR mixture interpretation
- properly selecting and applying methods of calculating weight estimates for matching STR profiles
- integrating the science behind probabilistic genotyping
- using MaSTR, a probabilistic genotyping software package
- presenting the findings of MaSTR analysis in court



Programme structure:

- 5-day course
- Sample data will be provided for practice and for final presentation
- Every student gets lecture notes

Important dates:

Course dates: 15/06/2020 – 19/06/2020
Deadline for application: 01/05/2020
Payment due by: 15/05/2020
Confirmation of the course: 05/05/2020

Price of the course: 300 € (tax included)

Programme plan:

Day 1	Day 4
Review manual STR profile interpretation, including mixture profiles	Mine data and interpret results
Interpret simple and complex STR mixture profiles (GMHID software exercise)	Conduct statistical analyses
Determine reportable alleles	Write reports of findings
Estimate number of contributors	Day 5
Day 2	Assess the overall findings of the students in the class
Interpret simple and complex STR mixture profiles for a collection of samples	Compare outcomes between student groups
Determine reportable alleles	Discuss PG implementation strategies
Estimate number of contributors	
Generate text files for MaSTR analysis	Programme lecturers:
Day 3	
Training on the MaSTR software	Mitchell Holland, PhD, Professor, Biochemistry & Molecular Biology, Forensic Science Program, Penn State University
Run profile interpretation files through the software	
Training on the interpretation of MaSTR results	

