CURRICULUM VITAE
CHIARA SACCARDO

PERSONAL INFORMATION

Name: CHIARA
Surname: SACCARDO
E-mail: chiara.saccardo@univr.it
Phone: +39 3497021566
Nationality: Italian
Date of Birth: 27/01/1998
Place of Birth: Schio (Vi)
Tax Code: SCCCHR98A67I531C

EDUCATION AND TRAINING

01 OCTOBER 2023 – TO DATE
PH.D.
Ph.D. student in Nanoscience and Advanced Technologies, Forensic Science curriculum, at University of Verona, Department of Diagnostics and Public Health

OCTOBER 12, 2022
MASTER'S DEGREE IN MOLECULAR AND MEDICAL BIOTECHNOLOGY
University of Verona
Experimental Thesis: "Identification of the ABCB1 gene's genetic variants potentially predisposing to antibiotic resistance", supervised by Prof. Stefania Turrina at the Forensic Genetics Laboratory, Legal Medicine Section, Department of Diagnostic and Public Health
Final grade: 110/110 with honors

OCTOBER 23, 2020
BACHELOR'S DEGREE IN BIOTECHNOLOGY
University of Ferrara
Thesis: "Preparation of vaccines and preventive efficacy of the bivalent HPV vaccine", supervised by Prof. Giovanni Gabutti at the Hygiene and Preventive Medicine Section, Department of Clinical and Experimental Medicine
Final grade: 103/110

JULY 4, 2017
SECONDARY SCHOOL DIPLOMA
Scientific High School "N. Tron" Schio (Vi) Scientific track with second language (German)
Grade: 82/100

WORK EXPERIENCE

FROM DECEMBER 1, 2022, TO SEPTEMBER 30, 2023

WINNER OF POST-GRADUATE RESEARCH SCHOLARSHIP

Project "Validation of typing using NGS technology of STRs and SNPs markers located on autosomal and gonosomal chromosomes usable in Forensic Genetics and acquisition of population data"
Forensic Genetics Laboratory - Legal Medicine Section, Department of Diagnostic and Public Health, University of Verona.

FROM OCTOBER 6TH TO NOVEMBER 30TH, 2022

VOLUNTARY ATTENDEE

Forensic Genetics Laboratory - Forensic Medicine Section, Department of Diagnostics and Public Health, University of Verona.

FROM DECEMBER 1ST, 2021 TO SEPTEMBER 30TH, 2022

TRAINEE/INTERN

Forensic Genetics Laboratory - Forensic Medicine Section, Department of Diagnostics and Public Health, University of Verona.

PERSONAL SKILLS AND COMPETENCES

FORENSIC GENETICS

- DNA extraction from biological samples (blood, saliva, biopsy tissues embedded in paraffin, and fixed in formalin)
- DNA quantification using manual techniques (agarose gel/UV transilluminator) and instrumental techniques (Qubit fluorometer and Real-Time PCR HID software v1.2)
- PCR amplification of short tandem repeats (STRs) and single nucleotide polymorphisms (SNPs) autosomal and gonosomal markers
- Typing of autosomal and gonosomal STRs/SNPs markers using Capillary Electrophoresis (CE) technique with ABI Prism 3130 genetic analyzer with GeneMapper ID-X v.1.2 data analysis software and SeqStudio for HID with GeneMapper ID-X v.1.6 data analysis software; and with Massively Parallel Sequencing (MPS) technique with MiSeq FGx Forensic Genomics System sequencer
- Typing of SNPs markers using Real-Time PCR/TaqMan probe technique with ABI Prism 7500 Real-Time PCR system
- Application of computerized biostatistical calculations for the determination of biostatistical parameters related to the analysis of population genetic data (allele and genotype frequencies, Hardy-Weinberg equilibrium, heterozygosity, discrimination power, random match probability, prior and posterior exclusion power, likelihood ratio, odds ratio determination, and confidence interval).
- Application of computerized biostatistical calculations (Familias V.3.3.1) for the determination of paternity index/probability of paternity in biological paternity tests and parentage reports.

• Use of software such as Integrative Genomics Viewer (IGV), EMBOSS Water-Pairwise Sequence Alignment, and STRait Razor Tool V.3 for determining the chromosomal position of SNP genetic variants and analyzing FASTQ file sequence data generated with MPS technique in forensic genetics.

LANGUAGE SKILLS

NATIVE LANGUAGE: **ITALIAN**

ENGLISH:
WRITTEN: B2
SPOKEN: B2
COMPREHENSION: C1

GERMAN: German Certification level B1, GOETE-ZERTIFIKAT
WRITTEN: B1
SPOKEN: B1
COMPREHENSION: B1

ABSTRACTS AND PRESENTATIONS AT NATIONAL/INTERNATIONAL CONFERENCES

1. Soldati G., Turrina S., Ausania F., **Saccardo C**., Raniero D., De Leo D.
   Sequence Variations Detected by Massively Parallel Sequencing (MPS) on 24 Y-STRs in a Population from Northeast Italy.
   XXVIII National Congress of Italian Forensic Geneticists (Ge.F.I.). Genova (Italy), November 10-12, 2022

2. **Saccardo C.,** Turrina S., Ausania F., De Leo D.
   Evaluation of intra-locus allele and 'iso-allele' balance in multi-copy Y-STRs markers DYS385 a/b and DYF387S1 a/b
   XXIX National Congress of Italian Forensic Geneticists (Ge.F.I.). Messina (Italy), November 9-11, 2023

3. **Saccardo C**., Soldati G., Ausania F., Saccà R., De Leo D., Turrina S.
   Characterization of the 172 SNPs included in ForenSeq™ DNA Signature Prep Kit
   26th Congress of the International Academy of Legal Medicine (IALM)

4. Turrina S., **Saccardo C**., Soldati G., Turrini R., De Leo D.
   Evaluation of isoalleles and flanking region SNPs for 7 X-STRs by MPS
   26th Congress of the International Academy of Legal Medicine (IALM)

5. Soldati G., **Saccardo C**., Raniero D., De Leo D., Turrina S.
   Unveiling STRs instability in a colorectal cancer FFPE sample
   26th Congress of the International Academy of Legal Medicine (IALM)

6. Turrini R., Saccà R., **Saccardo C**., Soldati G., Turrina S.
   Unraveling the legal void: exploring the intersection between forensic autopsies and post-mortem tissue donation in Italy
   26th Congress of the International Academy of Legal Medicine (IALM)

PUBLICATIONS IN INTERNATIONAL SCIENTIFIC JOURNALS

1. Soldati G., Turrina S., **Saccardo C**., Ausania F., De Leo D.
   Internal validation study to assess the performance of SeqStudio™ for human identification
   International Journal of Legal Medicine: 2023, 137:971–980

2. Soldati G., Turrina S., **Saccardo C**., Raniero D., De Leo D.
   Can tissue deparaffinization influence the extracted DNA for forensic purposes? European Journal Of Histochemistry: 2023, 67(S1):16-17

3. Soldati G., Turrina S., Treccani M., **Saccardo C**., Ausania F., De Leo D.
   Concordance study on Y-STRs typing between SeqStudio™ genetic analyzer for HID and MiSeq™ FGx forensic genomics system
   Mol Biol Rep. 2023;10.1007/s11033-023-08808-4.

PROFESSIONAL AFFILIATIONS

2024
International Society for Forensic Genetics (ISFG)
Genetisti Forensi Italiani (Ge.F.I)

2023
Genetisti Forensi Italiani (Ge.F.I)

DICHIARAZIONE DI VERIDICITÀ
I l contenuto del presente curriculum vitae corrisponde a verità e le dichiarazioni in esso contenute vengono rese ai sensi degli artt. 46 e 47 del D. P. R. 445 / 2000 (Dichiarazione sostitutiva di certificazione e/ o sostitutiva dell'atto di notorietà).
DATI PERSONALI
Si autorizza i l trattamento dei dati personali ai sensi dell'art. 13 Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali"

Dott.ssa Chiara Saccardo