

Name: Kamelija Madacki-Todorović

E-mail: kamelija.madacki@ssst.edu.ba

1. RESEARCH INTEREST

I have spent eleven years working for ICMP (International Commission on Missing Persons), as a DNA Analyst within Forensic Laboratory Division working primarily isolating and analyzing of challenge biological material, reference and problematic bone samples.

I possess wide range of interest in Medicine starting from Forensic genetics, Human genetics, Molecular Biology, Microbiology, Hematology, and Immunology.

2. EDUCATION

Faculty of Natural Sciences and Mathematics, Sarajevo, BiH.

Biology study, Master of Genetics 2016-2017.

Faculty of Health Studies, Sarajevo, Medical study

Medical Laboratory Diagnostics

Graduate Eng. of Medical Laboratory Diagnostics

3. WORK EXPERIENCE

Title: Teaching Assistant

Institution, Address: Sarajevo School of Science and Technology, Hrasnička cesta 3a, Sarajevo, BiH (SSST-Medical School).

October 2015-present

Activities: Med.Biology/Med.Genetics, Immunology Teaching Assistant

Title: DNA Analyst / Expert Advisor

Institution, Address: Federation Ministry of Internal Affairs Administration of Federal Police Sarajevo, Center for Informatics and Forensic Support, Department for Biological Analysis

May 2015 –to July 2015

Activities: DNA extraction from all biological samples, Quantification of DNA, DNA amplification/PCR, PCR set up, Genotyping of samples, profile analyses/Gene mapper, Capillary electrophoresis.

Title: DNA Analyst

Institution, Address: International Commission on Missing Persons-ICMP, Alipašina 45 a, Sarajevo, BiH.(ICMP)

June 2004-Feb-2015

Activities: DNA extraction from all biological samples, Quantification of DNA, DNA amplification/PCR ,PCR set up, Purification of samples, Genotyping of samples, profile analyses, Review and analysis of the DNA report, Analysis of the sequenced DNA fragments analyzing sequences, completing and presenting the results in a visually acceptable format, which is the STR DNA profile of an individual.

Title: Administrative/Logistics Assistant, Sarajevo

Jun 1996—Mar 2002 Catholic Relief Services (CRS)

Activities: providing the general administrative and logistical support to CRS' employees working in the main and field offices.

Title: Laboratory technician

Mar 1993 – May 1996

Institution, Microbiological lab, Koševo Clinic, Sarajevo, BiH.

Activities: Taking all biological material for testing, processing of biological materials for various medical analysis: bacteriological, parasitological, immunological, using all medical equipment.

At the department for culture media for microbiology institutes: the preparation of culture media, sterilization and storage; biological materials. Seeding, cultivation of microorganisms (aerobic and anaerobic), obtaining pure cultures. Identification of microorganisms, determination of susceptibility to antimicrobial agents etc.

4. TEACHING EXPERIENCE

Title: Teaching Assistant Institution, Address: Sarajevo School of Science and Technology, Hrasnička cesta 3a, Sarajevo, BiH.

October 2015-present

Activities: Laboratory exercise Med.Biology/Med.Genetics, Immunology Teaching Assistant

- Preparation and performance of laboratory exercises
- Consultation with students

Title: Teaching Biology professor, Address: Gymnasium SSST -Sarajevo School of Science and Technology, Sarajevo, BiH.

April 2018-present

5. PROFESSIONAL DEVELOPMENT

My career started with my Medical background working in Microbiological laboratory in Clinical Center Koševo, Sarajevo after which I moved to work for International organization CRS, SKF, and ICMP where I have gained valuable experience.

Eleven years I have spent working for ICMP (International Commission on Missing Persons), as a DNA Analyst within Forensic Laboratory Division working primarily isolating and analyzing of challenge biological material, reference and problematic bone samples.

I have successfully participated in external test, research, and development.

I possess variety of knowledge and skills working with different environment as well as professional commitment to improve and grow.

I was involved in the external proficiency tests provided by German DNA Profiling (GEDNAP) and in Interlaboratory Comparison Relationship Testing Workshops organized by International Society for Forensic Genetics (ISFG), English Speaking Working Group (ESWG).

The German DNA profiling group blind trial system, referees as GEDNAP, was established in 1989 and originally set up as the German speaking working group of the European DNA profiling group.

I performed the role of trainer, assessor and coach, providing training on QIAmp DNA Micro Kit DNA Extraction and Analysis, Genotyping and Submission of DNA Profiles.

Right now I am obtaining position of Teaching Assistant (Med.Biology, Med.Genetics and Immunology), and I am involved in teaching as Professor in Gymnasium SSST, Sarajevo.

6. FUNDED PROJECTS

Project: „Analysis and mapping of polluted areas and types of environmental pollution in Hadžići and its effect on pollution residing there“, supported by Council of Ministers of Bosnia and Herzegovina, October, 2016-October, 2017, Grant Nr.: 0-02-2-212/16-34.

7. PUBLICATIONS

Co-Author of a peer-reviewed journal article published in the Croatian Medical Journal, p-ISSN 0353-9504 and e-ISSN 1332-8166 “Variant allele’s triallelic patterns and point mutations observed in a nuclear short tandem repeat typing of populations in Bosnia and Serbia”. Croat Med J 2007, 48:494-502.

a) Original scientific papers

Huel RL, Bašić L, Madacki-Todorović K, Smajlović L, Eminović I, Berbić I, Miloš A, Parsons TJ. Variant alleles, triallelic patterns, and point mutations observed in nuclear short tandem repeat typing of populations in Bosnia and Serbia. Croatian medical journal. 2007 Aug; 48(4):494.

b) Conferences, presentations, abstracts, proceedings

- Attendance at the “Genetic Identity”, 8 th STR Promega Working Group Meeting, Porto, Portugal, October 2006.
- Forensic Data Management System (fDMS), Training Session October 2008.
- “Train the trainer”, an Introductory Program Course, March 2009.
- Attendance at the 6 th International Society for Applied Biological Science (ISABS) Conference on Human Genome Project Based Applications in Forensic Science, Anthropology and Individualized Medicine, June 2009, Split, Croatia.
- Attendance at the “Overview of DNA Analysis Trends and Developments” Presentation- December 2009.
- Attendance at “General Concepts of Y-STR and mtDNA Analysis” Presentation, January 2010.
- Programming of 9700 Thermal Cyclers for PCR and Denaturation-Practical Session, January 2010.

- Quality Assurance and Accreditation, Interactive Workshop, November 2010.
- Attendance at the “Introduction to the AMPFISTR MiniFiler PCR Amplification Kit” Presentation, March 2012.
- Attendance at the “Introduction to the HaploID Genetics, mtHVplus HaploArray Multiplex System” Presentation, November 2012.
- Introduction to Lineage markers, Workshop, August 2013.
- Attendance at the “Introduction to the Promega PowerPlex 21 System” Presentation, November, 2013.

- *FLOW CYTOMETRY MINI CONGRESS, Labena Group, April, Split 2018.*

- *Author of a poster presented at the 6 th ISABS Conference on Human Genome Project Based Applications in Forensic Science, Anthropology and Individualized Medicine, June 2009, Split, Croatia. “Mutation frequencies of STR loci observed in a large number of kinship calculations”.*

- *Co-author of a poster presented at the 6th ISABS Conference on Human Genome Project Based Applications in Forensic Science, Anthropology and Individualized Medicine, June 2009, Split, Croatia. “Unusually large variant alleles observed in a Philippine population.”*