B70 DNA – STR Analysis of Blood Reference Samples From Throughout the Former Yugoslavia

Izet Eminovic, PhD and Edwin F. Huffine, MS, International Commission on Missing Persons, Alipasina 45a, Sarajevo, 71000, Bosnia and Herzegovina; Nijaz Tihic, MD and Vesna Hadziavdiael, MS, International Commission on Missing Persons, Alipasina 45a, University Clinical Centre of Tuzla, Sarajevo, 71000, Bosnia and Herzegovina; Jon M. Davoren, MS and Rijad Konjhodziael, BS, International Commission on Missing Persons, Alipasina 45a, Sarajevo, 71000, Bosnia and Herzegovina*

After attending this presentation, attendees will be given an overview of the International Commission on Missing Persons (ICMP) high throughput blood testing facility.

This presentation will impact the forensic community and/or humanity by presenting the lessons learned in developing a high throughput blood STR processing lab

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The International Commission on Missing Persons in the former Yugoslavia (ICMP) has been charged with the task of identification of an estimated 30,000 – 40,000 missing persons that remained following the breakup of the former Yugoslavia. For almost all of the missing persons from the former Yugoslavia the only practical approach to begin the identification process involved DNA testing. The only feasible currently feasible approach for this was to develop DNA STR profiles from bone samples and match those to family reference blood samples.

To date ICMP has collected, processed, and databased more than 50,000 blood samples from family references. The DNA was extracted from the blood samples using the S&S ISOCARD protocol. Extracted DNA was amplified using the Promega PowerPlex 16® system and analyzed on an ABI 3100 Genetic Analyzer. Over 98% success rates were observed for the procedure when using 50% of the recommended amount of the Promega PowerPlex® 16 kit in 12.5 ìl reactions.

DNA, STR, Blood

 ** Presenting Author*