

PRELIMINARY PROGRAMME

WEDNESDAY | 17.05.2023

13.00-15.00	WORKSHOP Processing Y chromosome related casework Sascha Willuweit, Lutz Roewer
15.30-17.30	WORKSHOP Casework experience with mtDNA: reporting of evidence, haplogrouping and ancestry estimation Walther Parson
19.00-22.00	WELCOME GET-TOGETHER PARTY

THURSDAY | 18.05.2023

08.00-12.30	Registration / Poster Exhibition / Seminar/Lunch
08.30-12.30	WORKSHOP Forensic Database Advisory Board FDAB
09.00-10.00	Presentation of the report (including Ethical Challenges and Recommendations)
10.00-10.15	Short survey of participants
10.15-10:30	COFFEE BREAK
10.30-11.45	Discussion: Type of data and identifiability When should we assume vulnerability? Legacy data Data without consent What should a good informed consent form and information sheet look like? Elements of informed consent for international data sharin
11.45-12.00	Concluding remarks
12.30-13.00	PROMEGA LUNCH SEMINAR
13.15-13.45	OPENING CEREMONY
	POPULATION GENETICS I. Chairs: Lutz Roewer, Francesc Calafell
13.45-14.15	A global analysis of matches and mismatches between human genetic and linguistic histories Chiara Barbieri

14.15-14.30	The universal Y-SNP database: from a few to a lot and beyond; how to bring it all together Arwin Ralf
14.30-14.45	Combining autosomal ancestry with X and Y AIMs: the VISAGE Enhanced Tool for Appearance and Ancestry Jorge Ruiz-Ramírez
14.45-15.00	Population analysis of complete mitogenomes for 334 samples from El Salvador Francesc Calafell
15.00-15.15	Finnish Y chromosome sequencing data suggests dual paths of N1a1 into Finland Annina Preussner
15.15-15.30	Novel Y chromosomal STRs set demonstrates high resolution of male lineages in North Eurasian human populations Vadim Stepanov
15.30-15.45	Optimalization of ancient deep Y haplogroup calling Emil Nyerki
15.45-16.00	Assessment of automated tools for mitochondrial haplogroup prediction Kimberly Sturk-Andreaggi
16.00-16.15	Sequencing the Lebanese Mitogenome and Y-SNPs: Variants, Haplogrouping and Databasing Mirna Ghemrawi
16.15-16.45	COFFEE BREAK / POSTER SESSION

	HUMAN IDENTIFICATION Chairs: Marta Diepenbroek, Andreas Tillmar
16.45-17.00	Klessin 1945 - history seen through forensics' eyes Marta Diepenbroek
17.00-17.15	Haploid markers aid in the identification of victims of World War II Charissa van Kooten

17.15-17.30	Ancestry analysis of highly degraded remains to assist the identification of fallen Australian service members Elaine Cheung
17.30-17.45	Applications of massively parallel sequencing for unidentified and missing persons casework: An Australian perspective Kelly Grisdale
17.45-18.00	When a country exceeds one continent – genetic biogeographical ancestry analysis of remains found at the former Stalag II D prisoner-of-war camp Maria Szargut
18.00-18.15	Maternal Lineages of Gepids from Transylvania Alexandra Gînguță

FRIDAY | 19.05.2023

	TECHNOLOGY I. Chairs: Walther Parson, Charla Marshall
09.00-09.30	Mitochondrial DNA in the Age of SNPs Charla Marshall
09.30-09.45	MITOBOOK: A work management tool for mtDNA analysis Cibeles Serna Menor
09.45-10.00	MITOMETRICS: Studying mitochondrial heteroplasmy along hair shafts Vania Pereira
10.00-10.15	mtDNA casework through MPS using Reverse Complement PCR and DNAxs as a routine tool Natalie Weiler
10.15-10.30	MPS mitochondrial DNA mixture analysis and Haploid markers based biogeographical investigation; criminal case examples. Jord Nagel
10.30-10.45	Comparison and evaluation of commercially available whole mitochondrial genome massively parallel sequencing workflows Bethany Forsythe
10.45-10.55	Discrimination of monozygotic twins using mtDNA heteroplasmy through probe capture enrichment and massively parallel sequencing Atif Adnan
10.55-11.05	Mitochondrial DNA Sequencing from Unbuffered Formalin Fixed Tissues: A Preliminary Study Kangana Aggarwal
11.05-11.30	COFFEE BREAK / POSTER SESSION
	TECHNOLOGY II. Chairs: Sascha Willuweit, Maarten Larmuseau
11.30-11.50	Advancing forensic SNP typing: Insights from an interlaboratory study of the FORCE panel Andreas Tillmar

11.50-12.05	A combined procedure of WGA and hybrid capture-based MPS enables to genotype 1.2 K identity-informative SNPs from sub-nanogram templates Kyoung-Jin Shin
12.05-12.20	Early noninvasive prenatal paternity testing with markers designed for forensic DNA mixture resolution Diana Hall
12.20-12.30	Developmental validation of the MGIEasy Signature Identification Library Prep Kit, an all-in-one multiplex system for forensic applications Yicong Wang
12.30-13.45	LUNCH / POSTER SESSION
12.30-12.45	QIAGEN SEMINAR
	TECHNOLOGY III. Chairs: Athina Vidaki, Arwin Ralf
14.00-14.20	Epigenetic aging of the human Y-chromosome in sperm Athina Vidaki
14.20-14.35	A Y-chromosomal MSRE/MDRE multiplex assay for the detection of semen Jessica Rothe

Real Time Y Chromosome Enrichment with Nanopore Sequencing

RM Y-STRs: where do we stand and where are we heading next

Developmental validation of a high-resolution panel genotyping

639 Y chromosome SNP and InDel markers based on next-generation

Design and development of novel single multiplex system incorporating 26 rapidly mutating Y-STRs; 26 RM Yplex

14.35-14.50

14.50-15.05

15.05-15.20

15.20-15.35

Thomas Krahn

Dion Zandstra

Rashed Alghafri

sequencing Le Wang

15.35-15.50	A novel multiplex of 12 multicopy Y-STRs for forensic application Lei Shang
15.50-16.05	Postmortem prevalence of seminal stains and detectability of Y-haplotypes Viktor Poór
16.05-16.15	Uniq Typer™ Y-10 Genotyping System: Genetic Variation In Southern Africa Maria Eugenia D'Amato

16.15-16.45

COFFEE BREAK / POSTER SESSION

	STATISTICS Chairs: Amke Caliebe, Martin Zieger
16.45-17.05	The discrete Laplace method in court Martin Zieger
17.05-17.20	Weight of evidence of Y-STR matches computed with the discrete Laplace method: Impact of adding a suspect's profile to a reference database Mikkel Meyer Andersen
17.20-17.35	Haploid marker data analysis using the STRAF 2 software Alexandre Gouy
17.35-17.50	The importance of relatedness in Y chromosomal match probability Amke Caliebe
17.50-18.05	Towards probabilistic genotyping for Y-STR profiles Maarten Kruijver
18.05-18.20	Is the marker-specific average mutation rate the appropriate parameter for computations in forensics and population genetics? Nadia Pinto
18.20-18.35	Recombulator-X: a fast and user-friendly tool for estimating X chromosome recombination rates in forensic genetics Serena Aneli

20.00-24.00

SOCIAL EVENING

SATURDAY | 20.05.2023

	POPULATION GENETICS II. Chairs: Horolma Pamjav, Marcin Wozniak
09.00-09.20	Combining haploid markers with in-depth family trees to enhance investigative genetic genealogy Maarten Larmuseau
09.20-09.35	Uniparental genetic diversity of three Hungarian-speaking isolated communities in the Carpathian Basin Noémi Borbély
09.35-09.50	Comparison of Iranian and Mongolian Populations Based on Y-STR Haplotypes Using Machine Learning Methods Atefeh Joudaki
09.50-10.05	Increasing the resolution of Latin American haplogroup Q sub- lineages using massively parallel sequencing Zehra Köksal
10.05-10.15	Unraveling the history of East Marshal Street Well through ancestry inferences Filipa Simão
10.15-10.45	COFFEE BREAK / POSTER SESSION
10.45-11.00	Mitochondrial DNA analysis in the United Arab Emirates populations Reem Mheiri
11.00-11.15	Y-chromosomal landscape in Serbian population groups originating from the Balkan Peninsula Milica Mihajlovic
11.15-11.30	Unexpected findings at the Amelogenin sex test in forensic paternity/kinship analysis: insights from a 13-year case history Elena Chierto
11.30-11.45	Canine mitochondrial investigation for breed determination Federica Giangasparo

11.45-11.55

Genetic polymorphisms of 23 Y-STR loci in Romanian population Raluca Dumache

11.55-12.15

WRAP-UP DISCUSSION AND CLOSING

12.45-14.15

FAREWELL LUNCH

POSTER SESSION

PP01	Screening of highly discriminative microhaplotype markers for individual identification and mixture deconvolution in East Asian populations An-Quan Ji
PP02	Analysis of paternal and maternal lineages in Serbian Roma population Vanja Tanasic
PP04	Massively parallel sequencing of 124 SNPs of the Precision ID Identity panel in the Qatari population Waad Al-Dosari
PP05	Gender-biased ancestry and gene flow in Brazilian Quilombos Masinda Nguidi
PP06	Population data and forensic parameters for 12 X-chromosome short tandem repeats in South Africa Kgothatso Selepe
PP07	The effect of geographical database subsets for forensic applications: an mtDNA example from Mexico Martin Bodner
PP08	Estimation of mutation rates and relative differentiation rate for 30 rapidly mutating Y-STRs in Serbian father-son pairs Marija Vukovic
PP09	Analysis of determining if two male samples are from the same family Liping Yuan
PP10	Analysis of 50 Y-STRs enables nearly full discrimination between unrelated males from the African continent Chiara Della Rocca
PP11	Inter-ethnics differences in the discrimination power of Y-STRS in Iran are due to urbanization level and clan structuring Mogge Hajiesmaeil
PP12	Inferring ancestry of Second World War (WWII) victims through YHRD database search Irena Zupanič Pajnič

PP13	A Comprehensive Portrait of Y-Chromosomal Variation of Bangladeshi Populations Mahamud Hasan
PP14	The genetic paternal ancestry of South American populations Julyana Ribeiro
PP15	The role of haploid markers in the identification of war victims Irena Zupanič Pajnič
PP16	Kinship testing using X-STR linkage groups on a Tamil pedigree Sasitaran lyavoo
PP17	Genetic genealogical analysis of extensive family pedigrees using a high- density SNP data Jing Liu
PP18	Microhaplotypes for solving distant kinship relationships: a nanopore sequencing approach Jorge Ruiz-Ramírez
PP19	Age prediction from semen samples through detection of DNA methylation Lucie Kotková
PP20	Development of a DIP-STR multiplex panel for NGS analysis Laura Carrara
PP21	The power of 8 colors: next generation CE STR analysis Andrew J. Hopwood
PP22	An Automated Differential Extraction Solution for use on the Maxwell® System Stefan Kutranov
PP23	Evaluating the performance of microhaplotype markers for the analysis of DNA mixtures of up to four contributors Jorge Ruiz-Ramírez
PP24	An NGS-based Typing Panel of Human Multi-source Genetic Markers: Development and Validation Hui Sun
PP25	Revealing family secrets within identification case? Ivana Furac

PP26	Identification of tDMR-MH markers for analysis of body fluid mixtures Sang Un Park
PP27	Application of the Massive Parallel Sequencing for mtDNA control region analysis for forensic purposes, using QlAseq Targeted DNA Panel (Qiagen) Marek Kowalczyk
PP28	Analysis of mitochondrial DNA from degraded forensic samples using QIAseq Targeted DNA Panel (Qiagen) and Illumina sequencing Andrzej Sekuła
PP29	From body fluid detection to human identification: Is mtDNA the missing piece? Sara C. Zapico
PP30	An internal verification on the sequencing of mitochondrial DNA control region using Precision ID mtDNA Whole Genome Panel, Ion Chef System and Ion S5™ XL System Bing Hong Shue
PP31	mtDNA heteroplasmy detection with the iSEQ100 system (Illumina) Katarzyna Skonieczna
PP32	Mitochondrial DNA as a piece of ancestry-inferring puzzle of Second World War casualties Marcel Obal
PP33	Design and Validation of new SNaPshot assays for the most common European mitochondrial haplogroups Kristin Rath
PP34	Whole Mitochondrial DNA Sequencing for Human Identification with the PowerSeq® Whole Mito System Andrew Hopwood
PP35	1,2,3, 1000 or how many? Assessment of mitochondrial DNA copy number variation between tissues Jana Naue
PP36	Ultra-deep Illumina sequencing of PCR products amplified with different polymerases Katarzyna Skonieczna

PP37	Sequence polymorphisms of forensic Y-STRs revealed by a 68-plex in-house massively parallel sequencing panel Ke-Lai Kang
PP38	Evaluation of the MHSeqTyper47 kit for forensically challenging DNA samples Chi Zhang
PP39	Utilizing TSPY Locus Markers to Develop a Sensitive Human Sex Identification Assay Richard Li
PP40	A preliminary study on the mechanism of genotype absence at DYS449 locus Guangshu Staff Ding
PP41	The successful analysis of DNA from human nails of 5 highly decomposed bodies found in seawater: from Y-ancestry to personal identification Chiara Della Rocca
PP42	Confirmed occurrences of duplications, triplications and deletions on the Y chromosome by MPS Jana Nováčková
PP43	Validation of new multiplex SNaPshot assays for the Y-chromosomal haplogroups R1a and R1b Maria Seidel
PP44	Combination of Y-STR and autosomal DNA analysis in a case of murder Renata Jankova
PP45	Complementary Y-STR use in forensic evidence analysis Ljubica Trajkovska Pavlovska
PP46	Y-STRs of ForenSeq Marcin Woźniak



Convention Budapest Ltd.

Mr. Zsombor Papp Besnyői utca 13, H-1143 Budapest, Hungary Phone: + 36 30 996 7081 Fax: + 36 1 299 01 87 E-mail: zspapp@convention.hu

www.convention.hu

FURTHER INFORMATION: WWW.HM2023.HU