

PROGRAM AND ABSTRACT BOOK

ISFG 2016 ESWG

INTERNATIONAL SOCIETY FOR FORENSIC GENETICS
ENGLISH SPEAKING WORKING GROUP

BUDAPEST, HUNGARY | **31 AUGUST - 03 SEPTEMBER 2016**
NOVOTEL BUDAPEST CENTRUM*****
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BOI
ISZKI BUDAPESTI ORVOSZAKÉRTŐI INTÉZET
DNS Laboratórium

PROGRAM

WEDNESDAY

31ST OF AUGUST, 2016

19:00

GET TOGETHER - OPENING COCKTAIL

THURSDAY

1ST OF SEPTEMBER, 2016

09:00-09:30 WELCOME

09:00-09:15

Welcome to Budapest

Dr. Judit Szekér (patron)

Network of Forensic Science Institutes, Budapest, Hungary

09:15-09:30

Introduction to program

Dr. Horolma Pamjav

09:30-10:15 INVITED SPEAKER

New technologies an introduction

Prof. Niels Morling

Section of Forensic Genetics, Department of Forensic Medicine, Faculty of Health and Medical Sciences, University of Copenhagen

10:15-10:45 COFFEE BREAK

10:45-12:25 STR SEQUENCE VARIATION

Chairs: *Prof. Niels Morling, Dr. Denise Syndercombe Court*

10:45-11:05

Sequencing of 58 STRs using the Illumina® ForenSeq™ workflow and analysis of the data with the STRinNGS v.1.1 software

Christian Hussing, Christina Huber, Rajmonda Bytyci, Helle Smidt Mogensen, Claus Børsting, Niels Morling

Section of Forensic Genetics, Department of Forensic Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

11:05-11:25

Sequence variations in the short tandem repeat SE33 discovered by next generation sequencing

Eszter Rockenbauer, Line Møller, Claus Børsting, Niels Morling

Section of Forensic Genetics, Department of Forensic Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

- 11:25-11:45 **Assessing the usefulness of sequence-specific allele frequencies across different populations using Massively Parallel Sequencing**
Laurence Devesse¹, David Ballard¹, Nicola Oldroyd Clark², Denise Syndercombe Court¹
¹King's College London, London, United Kingdom
²Illumina, Chesterford, United Kingdom
- 11:45-12:05 **Autosomal STR Variations Reveal Genetic Heterogeneity in the Mon-Khmer Speaking Group of Northern Thailand**
Dr. Antónia Völgyi¹, Jatupol Kampuansai², Wibhu Kutanan³, Daoroong Kangwanpong², Horolma Pamjav¹
¹DNA Laboratory, Institute of Forensic Medicine, Network of Forensic Science Institutes, Budapest, Hungary
²Department of Biology, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand
³Department of Biology, Faculty of Science, Khon Kaen University, Khon Kaen, Thailand
- 12:05-12:25 **Next generation sequencing and STR mutation rates - is sequence knowledge helpful?**
Federica Giangasparo, David Ballard, Laurence Devesse, Denise Syndercombe Court
 King's College London, London, United Kingdom
- 12:25-13:30 LUNCH**
- 13:30-16:50 POPULATION GENETICS**
 Chairs: *Dr. Horolma Pamjav, Ass. Prof. Gunilla Holmlund*
- 13:30-13:50 **Using relatives to find criminals in the Hungarian offender database**
Dr. Daniel Kling¹, Dr. Sándor Füredi²
¹Norwegian Institute of Public Health, Division of Forensic Services, Oslo, Norway
²Department of Genetics, Hungarian Institute for Forensic Sciences, Budapest, Hungary
- 13:50-14:10 **Statistical and population genetics issues of two Hungarian datasets from the aspect of DNA evidence interpretation**
Dr. Zoltán Szabolcsi, Zsuzsa Farkas, Andrea Borbély, Gusztáv Bárány, Dániel Varga, Attila Heinrich, Antónia Völgyi, Horolma Pamjav
 DNA Lab, Institute of Forensic Medicine, Network of Forensic Science Institutes, Budapest, Hungary
- 14:10-14:30 **Forensic and Population Genetic Investigations on the Turkish Cypriots from Cyprus**
Dr. Cemal Gurkan
 Turkish Cypriot DNA Laboratory, Nicosia, Cyprus

- 14:30-14:50 **Allele frequency distribution for 15 STR loci among 7 islands in Indonesia and the genetic relationship in the world**
Prof. Toshimichi Yamamoto¹, Hajime Asai¹, Yuuji Hiroshige¹, Takashi Yoshimoto¹, Aya Takada², Masaaki Hara², Akira Ishii¹, Tuntas Dhanardhono³
¹Department of Legal Medicine and Bioethics, Nagoya University, Nagoya, Japan
²Department of Forensic Medicine, Saitama Medical University, Iruma-gun, Japan
³Forensic and Legal Medicine, Diponegoro University, Semarang, Indonesia

14:50-15:20 COFFEE BREAK

- 15:20-15:40 **Analysis of next generation sequencing data of 11 STRs in 208 Somalis using the STRinNGS v1.0 software**
Eszter Rockenbauer, Anders Buchard, Susanne Lunøe Friis, Johanna Manninen, Claus Børsting, Niels Morling
Section of Forensic Genetics, Department of Forensic Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark
- 15:40-16:00 **Evaluation of the DNA identification efforts for the victims and body parts from the terrorist attacks at Zaventem Airport and the Brussels subway station (Belgium)**
Prof. Ronny Decorte^{1,2}, Wim Van De Voorde^{3,2}, Nancy Vanderheyden¹, Joke Wuestenbergs³, Wim Develter³, Wouter Van Den Bogaert³, Bram Bekaert^{3,2}
¹UZ Leuven, Department of Forensic Medicine, Laboratory of Forensic Genetics, Leuven, Belgium
²KU Leuven, Department of Imaging & Pathology, Leuven, Belgium
³UZ Leuven, Department of Forensic Medicine, Leuven, Belgium
- 16:00-16:20 **Forensic DNA Phenotyping: prediction of complex appearance traits with autosomal SNP markers**
Gusztáv Bárány, Ágnes Erős, Andrea Windbrechtinger, Zsuzsanna Farkas, Attila Heinrich, Antónia Völgyi, Horolma Pamjav
DNA Lab, Institute of Forensic Medicine, Network of Forensic Science Institutes, Budapest, Hungary
- 16:20-16:50 **Promega: Innovation, Science & Quality**
Stefan Kutranov
Promega

19:00- INVITED SPEAKERS' DINNER

FRIDAY

2ND OF SEPTEMBER, 2016

09:00-11:40 MARKERS IN RELATIONSHIP TESTING

Chairs: *Dr. Daniel Kling, Ass. Prof. Andreas Tillmar*

09:00-09:20 Validation of the HID-Ion Ampliseq™ Identity Panel for relationship testing and reflections on the first 10 months of experience with MPS in real case

Dr. Anders Buchard, Marie-Louise Kampmann, Claus Børsting, Niels Morling
Section of Forensic Genetics, Department of Forensic Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

09:20-09:40 Increasing the power in paternity and relationship testing utilizing massive parallel sequencing for the analysis of a large SNP panel

Dr. Andreas Tillmar, Ida Grandell
Department of Forensic Genetics and Forensic Toxicology, National Board of Forensic Medicine, Linköping, Sweden

09:40-10:00 Kinship testing with (many) more markers

Maarten Kruijver
VU University, Amsterdam, The Netherlands

10:00-10:20 Effect of genetic inconsistencies on duo parentage testing using CORDIS Plus DNA marker system

Dr. Vladislav Zavarin, Yevgeniy Krassotkin, Svetlana Vinogradova, Viktoria Smirnova, Andrei Semikhodskii
LLC Medical Genomics, Tver, Russian Federation

10:20-10:50 COFFEE BREAK

10:50-11:10 Assessment of the ForenSeq NGS typing system in relationship casework

Dr. David Ballard, Immy Riethorst, Laurence Devesse,
Denise Syndercombe Court
King's College London, United Kingdom

11:10-11:20 Short Case Presentation: Non-exclusion paternity case presenting with 3 genetic inconsistencies solved by massively parallel sequencing

Laurence Devesse
King's College London, United Kingdom

11:20-11:40 X chromosome investigation to resolve the genetic relationship in family members separated by several generations

Dr. Balázs Egyed¹, Tibor Varkonyi², Akos Kertesz³, Flora Fodor⁴

¹Synlab GenoID DNA Laboratory, Budapest, Hungary

²Hungarian Society for Family History Research, Budapest, Hungary

³Synlab GenoID DNA Laboratory, Budapest, Hungary

⁴Synlab GenoID Molecular Diagnostic Laboratory, Budapest, Hungary

11:40-12:20 LUNCH

12:20-14:00 ASSESMENT OF RESULTS

Chairs: Prof. Ronny Decorte, Prof. Klaas Slooten

12:20-12:40 Identifying common donors in DNA mixtures

Prof. Dr. Klaas Slooten

Netherlands Forensic Institute, The Hague, The Netherlands

12:40-13:10 Summarizing the results from the ESWG 2016 paper challenge

Dr. Daniel Kling

Norwegian Institute of Public Health, Division of Forensic Services, Oslo, Norway

13:10-13:30 Quality Assurance (QA) of the Biostatistical Workflow in Forensic Genetic Casework

Ass. Prof. Andreas Tillmar

Department of Forensic Genetics and Forensic Toxicology, National Board of Forensic Medicine, Linköping, Sweden

13:30-14:00 New ChrX- and SNP-Assays for use in kinship analysis

Carole Peel¹, A. Prochnow¹, M. Bussmann¹, A. Tillmar², M. Scherer¹

¹QIAGEN GmbH, Hilden, Deutschland

²Department of Forensic Genetics and Forensic Toxicology, Linköping, Schweden

14:00-14:30 COFFEE BREAK

14:30 ESWG MEETING

19:00 BANQUET DINNER IN DOMONYVÖLGY

SATURDAY

3RD OF SEPTEMBER, 2016

07:00-10:00 BREAKFAST

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