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Congress Secretariat

International Conference Service
Holbergs plass 3 A
N-0196 Oslo, Norway
Phone: (+47) 22 11 21 90
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Dear friends,

Welcome to The 17th ISFH Congress and to Oslo

The biannual meetings of our Society are an important event for all of us working in the field of forensic genetics. The opportunity to meet friends and colleagues, to exchange experience and learn from each other, is an inspiration in our daily work and essential for the future development of forensic genetics. It is therefore our hope that this year's meeting will be as fruitful and rewarding as previous meetings have been. In addition, we also hope that you will find the opportunity to visit some of Oslo's many attractions during your visit.

We wish you an enjoyable stay in Oslo.

Congress President

Bjørnar Olaisen

Chairperson

of the Organizing Committee

Brita Teige

GENERAL INFORMATION

CONGRESS LOCATION
Radisson SAS Scandinavia Hotel
Holbergsgate 30
N-0166 Oslo, Norway
Phone: (+47) 22 11 30 00
Fax: (+47) 22 11 30 17

CONGRESS LANGUAGE
The official language is English. No simultaneous translation will be available.

CONGRESS SECRETARIAT / REGISTRATION
The Secretariat is situated in the Congress Foyer and has the following opening hours:

- Tuesday 2 September 12.00 - 18.00
- Wednesday 3 September 08.00 - 18.00
- Thursday 4 September 08.30 - 18.00
- Friday 5 September 08.30 - 18.00
- Saturday 6 September 08.30 - 13.30

The Secretariat has the following telephone and facsimile numbers:
- Telephone +47 22 36 05 32
- Facsimile +47 22 36 01 29

MESSAGES
Incoming messages for delegates will be posted on the Message Board in the registration area / Congress Secretariat, and should be picked up there. We will not have an announcement service for messages. Please check the Message Board regularly.

PRE-PAID HOTEL DEPOSIT
Pre-paid deposits (net of all bank charges) will be deducted from your hotel bill upon departure from Oslo. If International Conferences Service has to invoice you after your departure from Oslo, an additional administration fee will be added.

SMOKING
The Norwegian government has made rules regarding smoking in most public areas. Please inquire and respect the signs.

SPEAKERS' READY ROOM
You will find a speakers' ready room behind the Congress Secretariat.

OPENING HOURS
Banks
Most banks are open during the following hours:
- Weekdays except Thursdays 08.15 - 15.30
- Thursday 08.15 - 17.00
- Saturday and Sunday closed

at the airport:
- Weekdays 06.30-20.00
- Saturday 08.30-18.00
- Sunday 07.00-20.00
GENERAL INFORMATION

Pharmacies
Weekdays 08.30 - 17.00 / 21.00
Saturday 10.00 - 14.00

Shops / shopping centres
Monday, Tuesday, Wednesday and Friday 09.00 - 17.00 / 20.00
Thursday 09.00 - 16.00 / 20.00
Saturday 09.00 - 14.00 / 18.00

LUNCH
If you have ordered lunch (s), you will find your lunch coupon (s) in the delegate envelope. Please contact the Congress Secretariat if you would like to buy lunch coupons. The lunches will be served in Restaurant Holberg, Radisson SAS Scandinavia Hotel.

IDENTIFICATION BADGE
All participants and accompanying persons are kindly requested to wear their identification badge during the entire meeting. The identification badge serves as admittance card to Congress activities.

ORAL PRESENTATIONS
Sessions are held in the Plenary Session Room (Scandinaviassenen) in the Congress Foyer. Oral presentations (free papers) are restricted to 12 minutes, including discussion. The speakers are requested to arrange their slides in the carousel at least 15 minutes before the beginning of the session of their presentation. For this purpose, please go to the Speakers' Ready Room.

POSTER PRESENTATIONS
Posters are displayed permanently. The posters are numbered by abstract number. Please find the board for your poster. Means for mounting are available in the poster room. The authors will be available for discussion during their respective poster sessions. For any further requests, please contact the Congress Secretariat.

THE ISFH ASSEMBLY
1800-1900 Thursday 4 September
Room: Scandinaviassenen

THE ISFH WORKING PARTIES' MEETINGS
1730-1830 Wednesday 3 September
English Speaking Working Group Room: Scandinaviassenen, Oslo
Japanese Speaking Working Group Room: Meetingroom 1
Italian Speaking Working Group Room: Scandinaviassenen, Copenhagen
Spanish and Portuguese Speaking Working Group Room: Scandinaviassenen, Stockholm
French Speaking Working Group Room: Norgessuitene, Skagerak

EDNAP MEETING
1700-1800 Friday 5 September
Room: Scandinaviassenen

USERS' FORUM
1630-1800 Thursday 4 September Room: Scandinaviassenen
1700-1800 Friday 5 September Room: Scandinaviassenen
PE Applied Biosystems: The Use of Integrated Fluorescent Systems for STR Analysis
DYNAL A.S: Automated DNA Isolation

COMMERCIAL EXHIBITION AND COMPANIES ADVERTISING
Dynal A.S
The Forensic Science Services
Hitachi Software
Cellmark Diagnostics
PE Applied Biosystems
Pharos Biotech
Promega
Springer Verlag
Osawa
University Diagnostic / LGC
The Humana Press Inc.

PROCEEDINGS
Authors of accepted abstracts are requested to submit their final manuscripts at the Registration Desk upon arrival. The manuscripts will be subjected to a review, and their acceptance will be announced as soon as possible. To ensure rapid publication, manuscripts will not be accepted after the end of the Congress.

ISFH members, both participants and non-participants, have received former Proceedings (Advances in Forensic Haemogenetics) from the ISFH Congresses free of charge. The ISFH finances have, however, lately deteriorated (cf. letter to the members from the ISFH president), and the ISFH has not yet decided upon the question regarding the payment for this year's proceedings (Volume 7 of Advances in Forensic Haemogenetics). Proceedings will, however, be sent free of charge to Congress participants who have paid the registration fee for non-members.
WEDNESDAY 3 SEPTEMBER

OPENING CEREMONY
09.00 Opening of the Congress

Representatives:
Ministry of Justice and the Police, State Secretary Ingunn Yssen.
Ministry of Children and Family Affairs, Political Adviser Frode Berge.
Oslo Police Department, Chief of Polices Ingelin Kilgrensen.
University Of Oslo, Dean of Medical Faculty Jon Dale.
ISFH, President Bjarnar Olaisen.
Organizing Committee, Chairperson Brita Teige.

SESSION A: METHODOLOGY
Chairperson: Peter Gibb

Lecture:
09.30 FORENSIC GENETICS TOWARDS THE END OF A MILLENNIUM
B. Brinkmann

Posters: 10.30-12.00

AP 1 HIGH PERFORMACE LIQUID CHROMATOGRAPHY (HPLC) DETECTION OF PCR INHIBITORS IN 18 SAMPLES OF ANCIENT DNA

AP 2 EVALUATION OF TWO GENEPRINT™ FLUORESCENT STR MULTIPLEX SYSTEMS IN PATERNITY CASE WORK USING THE ABI 310 GENETIC ANALYZER
P.H. van Eede, E.P.M. Stoltenberg, G.G. de Lange

AP 3 D1S50 TYPING IN CASEWORK: A SIMPLE STRATEGY TO DISTINGUISH NON-SPECIFIC MICROBIAL PCR PRODUCTS FROM HUMAN ALLELES

AP 4 D1S50 SUBTYPING WITH PCR-RFLP METHOD USING ECORII
A. Arakura, N. Harashima, C. Liu, M. Ota, Y. Katsuyama, K. Takayanagi, H. Fukushita

AP 5 A SIMPLE FOLDABLE CARDBOARD BOX FOR THE DRYING AND STORAGE OF BIOLOGICAL MATERIAL RECOVERED ON COTTON SWABS
M. Hochmeister, O. Rudin, A. Eisenberg, R. Nagy, C. Gehrig, R. Dinmerhofer

AP 6 OPTIMIZATION OF NESTED PCR OF THE HV1 REGION IN HUMAN MITOCHONDRIAL DNA USING THE AMPLITAQ GOLD™ ENZYME
K. Heidbrink, M.-L. Wiklund, S. Holmgren

AP 7 UNIVERSAL METHOD OF HYPERSENSITIVE NESTED PCR TOWARD FORENSIC DNA TYPING
K. Honda, M. Nakatome, T. Tun, M. Sakurada, S. Misawa

AP 8 USING D3S1358 FOR QUANTIFICATION OF DNA AMENABLE TO PCR AND FOR GENOTYPE SCREENING
A. Kohlner, A. Beckman, S. Holmgren

AP 9 ANALYSIS OF STRs BY CAPILLARY ELECTROPHORESIS
J.A. Luque, M. Crespo, E. Ramírez, R.M. Fernández, J.L. Valverde

AP 10 IMPROVEMENT IN MITOCHONDRIAL DNA ANALYSIS

AP 11 VALIDATION OF FESFPS AND F13A01 TYPING USING CAPILLARY ELECTROPHORESIS
P. Sanz, V. Prieto, M.J. Andres

AP 12 HIGH THROUGHPUT SILVER STAIN MULTIPLEX STR ANALYSES

AP 13 AUTOMATED FLUORESCENT DETECTION OF 8-LOCUS AND 4-LOCUS STR MULTIPLEXES

AP 14 CAPILLARY-GEI ELECTROPHORESIS (CEG). STUDIES ON ACCURACY AND REPRODUCIBILITY IN DNA SIZING AND SEQUENCING
A. Taiglbracch, L. Busse, F. Bianchi, C. Sassaroli, D. Rodriguez

AP 15 SIMULTANEOUS DETECTION OF ABO GENOTYPES AND AN X-STR
Z. Tug, M. Nakatome, M. Sakurada, K. Honda

AP 16 INFRARED FLUORESCENCE DETECTION GENETIC MARKERS FROM FORENSIC SAMPLES
R. Roy, D.L. Steffens

AP 17 DETECTION OF AZOOSPERMIC SEMEN WITH A NEW RAPID STRIP-TEST FOR PSA AND DNA PROFILING OF THESE SAMPLES BY THE PCR TECHNOLOGY
R. Hosta, N. Verlinden, D. Leonard, A. Marcotte

Oral communications:
12.00 RAPID DNA GENOTYPING ON CAPILLARY ARRAY ELECTROPHORESIS CHIPS
P. Simpson, A. Woode, T. Thorson, G.E. Sensaberg, R.A. Mathies

12.12 DETECTION OF A DNA SEQUENCE BY SURFACE ENHANCED RESONANCE RAMAN SCATTERING OF A MODIFIED DNA PROBE
D. Graham, W.E. Smith, A.M.T. Linacre, N.D. Watton, P.C. White

12.24 DETERMINATION OF THE MTDNA CONTENT IN A HUMAN HAIR BY USING A QUANTITATIVE PCR ASSAY
R. Decorte, A. Gissem, E. Jelles, J.-J. Cassiman

12.36 SEPARATION OF SPERM AND VAGINAL CELLS FROM POSTCOITAL SWABS USING FLUORESCENCE ACTIVATED CELLSORTING (FACS) FOR FORENSIC PURPOSES
M. Klingsch, W. Scholl, D. Strunk, I. Oreskovic, S. Kraker, P. Pürsten

12.48 SEQUENCING OF ALLELES IN THE AMPFISTR PCR AMPLIFICATION KITS
K.D.A. Lazzini, J. Wallin, P.S. Walsh

SESSION B: FORENSIC APPLICATION
Chairperson: Patrick Lincoln

Lecture:
14.30 CAPILLARY ELECTROPHORESIS IN FORENSIC CASEWORK
Badowie, B.

Oral Communications:
15.15 RAPID mDNA TYPING USING IMMUNIZED SEQUENCE-SPECIFIC OLIGONUCLEOTIDE PROBES: ADVANTAGES AND LIMITATIONS

15.27 A STRATEGY FOR mDNA ANALYSIS OF HAIR SHAFTS IN PRACTICAL CASEWORK: RE-SSCP
M.V. Larue, A. Salas, F. Barros, M.S. Rodriguez-Calvo, A. Carracedo
BP 16 MINIMAL AMOUNTS OF DNA: IMPROVING THE RESULTS OF THE ANALYSIS IN FORENSIC CASEWORK
M. Lorente, J.A. Lorente, C. Entraiga, J.C. Alvarez, M.R. Wilson, B. Budowle, E. Villanueva

BP 17 DANDRUFF AS A SOURCE OF DNA: VALIDATION STUDIES
M. Lorente, J.A. Lorente, C. Entraiga, J.C. Alvarez, E. Villanueva, B. Budowle

BP 18 RAPID MATERNITY EXCLUSION OF SKELETAL REMAINS BY mtDNA MINISEQUENCING
A. Mennucci, S. Verdiani, F. de Stefano, L. Casarino, M.G. Costa, M. Canale

BP 19 STR ANALYSIS OF SEMEN CONTAINED IN VAGINAL SWABS AND POCKET IOITAL SAMPLES
V. Marchetti, W. Kell, O. Weichhold, B. Bayer

BP 20 FORENSIC APPLICATION OF HUMAN DNA QUANTITATION KIT: SPECIES IDENTIFICATION AND DNA QUANTITATION IN DENTAL PULP
R. Mukoyama, H. Ohlguo, T. Komuro, H. Mukoyama

BP 21 DNA MICROSATELLITE POLYMORPHISMS AND THE SYRINGE EXCHANGE PROGRAMME FOR AIDS PREVENTION
C. Menoyo, E. Lamiuk, D. Zulakia, A. Castro, I. Fernandez-Fernandez, M. de Pancorbo M

BP 22 NEWBORN GENETIC IDENTIFICATION: MICROSEATELLITE DNA AS AN ALTERNATIVE TO FOOTPRINTING

BP 23 HYPERVARIABLE MITOCHONDRIAL DNA SEQUENCES ANALYSIS OF VARIOUS SAMPLES IN A FORENSIC CASEWORK
E. Brignon, H. Fritzinger

BP 24 HUMAN SEX DETERMINATION FOR FORENSIC PURPOSES: COMPARISON OF DIFFERENT METHODS
E. Ponzano, L. Caenazzo, P. Cortivo

BP 25 DRUG ABUSE DEATHS: DNA INDIVIDUALISATION OF TRACKS OF BLOOD FROM HYPODERMAL SYRINGES
V. Prada, M. Andres, P. Senn, M. Repetto

BP 26 RECOVERY OF HIGH QUALITY DNA FROM 500-YEAR-OLD SKELETAL REMAINS FOR FORENSIC DNA TYPING
M. Sakurada, M. Nakatome, Z. Tan, K. Honda

BP 27 DNA TYPING FROM HUMAN DENTINE
M. Garcia, W. Reichert, R. Meller

BP 28 FORENSIC VIEW FOR GENETIC PROFILES AFTER BONE MARROW TRANSPLANTS
M.J. Anjos, L. Soito, M. Carvalho, A. Martinho, P. Santos, O. Simoes, H. Brida-Coimbra, D.N. Vizina, M.C. Ved

BP 30 SHOR TANDEM REPEAT ANALYSIS TO MONITOR CHIMERISM AFTER BONE-MARROW TRANSPLANTATION
J. Hasskamp, D. Syndercombe Court, C.P. Phillips, S.M. Kelsey, A.C. Newland

BP 31 DNA TYPING OF EPITHELIAL CELLS
P. Wiegand, M. Kleber

BP 32 DETECTION AND QUANTITATION OF THE AGE-DEPENDENT 4977 BP DELETION OF HUMAN MITOCHONDRIAL DNA
N. van Wurm, C. Meissner, B. Schimmels, M. Ohmiek

BP 33 INDIVIDUALIZATION OF URINE SAMPLES IN DOING CONTROL BY STEROID PROFILING AND PCR BASED DNA ANALYSIS
P. Bensch, H. Geyer
## Programme

<table>
<thead>
<tr>
<th>Tuesday 2 September</th>
<th>Wednesday 3 September</th>
<th>Thursday 4 September</th>
<th>Friday 5 September</th>
<th>Saturday 6 September</th>
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<tbody>
<tr>
<td><strong>Topic of the day:</strong> Methodology and Forensic Applications</td>
<td><strong>Topic of the day:</strong> Polymorphisms</td>
<td><strong>Topic of the day:</strong> Our Maternal and Paternal Heritage - Forensic and Anthropological Applications</td>
<td><strong>Topic of the day:</strong> Quality, Statistics and Ethical Standards</td>
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<td>0900-0930 Opening ceremony</td>
<td>0900-1030 Oral presentations CO 1 - 7</td>
<td>0900-1000 Oral presentations EO 1 - 5</td>
<td>0900-1030 Round Table Conference: Quality, Efficiency, Safety, Commercialism - is there a conflict?</td>
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<td>0930-1030 Bernhard Brinkmann Forensic Genetics towards the End of a Millennium</td>
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<td>1200-1800 Registration</td>
<td>1200-1300 Sir Alec J. Jeffreys Spontaneous and Induced Mutation in the Human Genome</td>
<td>1200-1300 Svante Pääbo Mitochondrial DNA Variation as Means to Reconstruct Population History</td>
<td>1200-1300 Oral presentations GO 1 - 5</td>
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<td>1200-1300 Oral presentations AO 1 - 5</td>
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<td>1300-1430 Lunch</td>
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<td>1300-1305 Closing remarks: B.Olaussen</td>
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<td>1430-1515 Bruce Budowle: Capillary Electrophoresis in Forensic Casework</td>
<td>1430-1630 Oral presentations DO 1 - 8</td>
<td>1430-1515 Lutz Roewer The Y Chromosome: Forensic Analysis and Evolutionary Aspects</td>
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<td>1515-1630 Oral presentations BO 1 - 6</td>
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<td>1630-1800 Coffee break, exhibition and poster session BP 1 - 41</td>
<td>1630-1800 Coffee break, exhibition and poster session DP 1 - 56</td>
<td>1615-1800 Coffee break, exhibition and poster session FP 1 - 13</td>
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<td>1800 Reception Oslo City Hall</td>
<td>1800-1930 ISFH working parties</td>
<td>1700-1800 Users’ Forum Dynal</td>
<td>1700-1800 EDMAP</td>
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<td>1730-1830 ISFH Assembly</td>
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<td>1830 Departure with buses from the congress hotel Maritime evening</td>
<td>Evening free</td>
<td>1900 Departure with buses from the congress hotel Norwegian Night</td>
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**SESSION C: POLYMORPHISMS**
Chairperson: George Sensabaugh

**Oral Communications:**

09.00 STRUCTURE AND GENE FREQUENCY DISTRIBUTION OF LOCUS D16S543 (WGH12) IN THE JAPANESE POPULATION
M. Ota, Y. Katawase, C.Y. Liu, A. Arakura, K. Takayanagi, H. Fukushima

09.12 THE DEVELOPMENT OF A THIRD GENERATION STR MULTIPLEX SYSTEM
S. Watanabe, T. Ohtsu, T. Kose, J. Evans, P. Gill

09.24 MULTIPLEX ANALYSIS AND FORENSIC VALIDATION OF FOUR NEW TETRAMERIC STRS
E. Naoki, R. Makigawa, M. Dobosz, Y. Takase, S. Pascoli

09.36 DEVELOPMENT AND VALIDATION OF THE AmpFISTR PROFILER KIT FOR STRS
P.S. Walsh, J. Watanabe, C. Holt, K. Lazaruk

09.48 ORIGIN AND DISPERSAL OF EXTRAORDINARY ALLELES AT THE DYS390 MICROSATellite
E. Meyer, M. Kayser, R. Rolf, B. Brinkmann

10.00 FURTHER EXPLORING OF NEW STRS OF INTEREST FOR FORENSIC GENETIC ANALYSIS
M.V. Larue, S. Barra, A. Salas, M.S. Rodriguez-Calvo, C. Pestoni, A. Carracedo

10.12 SEQUENCE STRUCTURE OF THE D8S130 LOCUS: A NEW STR IN FORENSIC SCIENCE
M. Verheeschen, A. Jung, A. Baasner, B. Medea

**Posters: 10.30-12.00**

**CP 1** DNA ANALYSES OF ABO BLOOD GROUP VARIANTS, A3, Aend AND BM
Y. Ishii, N. Iizuka, R. Kobayashi

**CP 2** AHSG PHENOTYPING IN DENTAL PULPS
A. Kido, R. Susukida, M. Oya

**CP 3** A NOVEL APPROACH FOR ABO BLOOD GROUP GENETIC SUBTYING AND THE ALLELE FREQUENCY DISTRIBUTION IN A HUNGARIAN ROMAN SCIENCE POPULATION GROUP
Z. Kozma, M. Yamada, A. Nishimura, I. Balintczaky, K. Nishi

**CP 4** THE EXPRESSION OF LEWIS ANTIGENS AND CARBOHYDRATE CHAINS IN HUMAN BRAIN
A. Nishimura, I. Uchide, Y. Yamamoto, M. Ohita, M. Nagatomo, M. Yamada, K. Nishi

**CP 5** TWO GENETIC VARIANTS, ISEHARA-1 AND 2, OF a1-ANTICHYMOTRYPsin
M. Osawa, T. Tsuchiya, T. Sato, T. Takei

**CP 6** PI SUBTYING WITH CAPILLARY ELECTROPHORESIS
A. Pahl, W. Blum, H.H. Hoppe

**CP 7** ABO GENOTYPING WITH A FLOURESCENCE DETECTION SYSTEM
A. Pahl, H.H. Hoppe

**CP 8** ANALYSIS OF ABO TYPES USING A PANEL OF SEQUENCE-SPECIFIC OLIGONUCLEOTIDE PROBES
R. Reynolds, M. Alvarado, R. Shehinity, G. Zangerl, M. Grow

**CP 9** EVALUATION AND APPLICATION OF HIGHLY INFORMATIVE AND SENSITIVE HLA-DRB1 AND DPB1-INO-LIPA TYING SYSTEMS IN FORENSIC PRACTICE
SESSION D: POLYMORPHISMS

Lecture:
Chairperson: Lotte Henke

12.00 Spontaneous and Induced Mutation in the Human Genome
   A.J. Jeffreys

Oral Communications:
Chairperson: Bruce Budowle

14.30 MVR ANALYSIS OF THE HRA51 MINISATELLITE: A NEW POLYMORPHISM OF MEDICAL, ANTHROPOLOGICAL AND FORENSIC INTEREST
   A. Vega, F. Barros, M.V. Lareu, A. Salas, M.S. Rodriguez-Calvo, A. Carracedo

14.45 SEPARATION OF MVRPCR LOCUS D15S18 BY CAPILLARY ELECTROPHORESIS
   A. Aitkenal, N. Watson

15.00 A MODEL SYSTEM IN YEAST FOR THE STUDY OF MUTATIONAL MECHANISMS OPERATING AT HUMAN MINISATELLITES

15.15 REPEAT ARRAY VARIATION IN D7S22 ALLELES REVEALED BY ALLELE SPECIFIC MVR-PCR
   R. Andreassen, B. Olaisen

15.30 ALLELIC DIVERSITY IN THE VARIABLE NUMBER OF TANDEM REPEAT MARKER D2S44 (YNH24) SHOWN BY MULTI-VARIANT REPEAT MAPPING
   G. H elmund, L. Engdahl, M. Marttila, B. Lindblom

15.45 RECOMBINATION AS A MECHANISM FOR SEQUENCE DIVERSITIES IN THE ABC1 GENES: POPULATION DIFFERENCE IN THE OCCURRENCE OF THE RECOMBINANTS AND EVIDENCE FOR GENE CONVERSION

18.00 DETECTION OF DE NOVO MUTATION IN THE GC SYSTEM BY DNA SEQUENCE ANALYSIS
   S. Wedeweg, I. Yuasa, M. Schröder, A.G. Gathof

Posters: 16.30-18.00

DP 1 ALLELE FREQUENCY DISTRIBUTION OF D3S1358 AND FGA LOCI IN A SOUTHERN SPAIN POPULATION
   M.J. Andreu, V. Prieto, I. Flores, P. Sanz

DP 2 FORENSIC VALIDATION, POPULATION DATA, AND AUTOLOMATED ALLELE DETECTION OF THE CO-AMPLIFIED STR LOCUS D3S1358, WVA AND FGA
   M. Benecke, M. Steak, C. Schmidt

DP 3 PCR-NUCLEAR DNA POLYMORPHISMS IN AN ALPIN SWISS VILLAGE. COMPARISON WITH EUROPEAN POPULATIONS
   C. Brandl-Casadevall, W. Schelfhahn, N. Dimo-Simonin, P. Margerin

DP 4 ALLELE FREQUENCIES OF THE STR LOCI HUMFGA IN AN ITALIAN POPULATION

DP 5 GENETIC STUDIES OF THE NUCLEOTIDE REPEAT CYP19
   B. Castro, J.R. Lus, S. Dic

DP 6 TWO STRs IN A POPULATION OF NORTHERN ITALY: PHENOTYPES AND ALLELE FREQUENCIES
   N. Cardi, F. Zorzì, F. de Ferrari

DP 7 FRENCH POPULATION DATA OF FIVE VNTR LOCI
   K. Crainis, V. Khallaf, C. Doucet, L. Fournier, A. Haertig

DP 8 POPULATION GENETICS OF 14 STRs: VW, TH01, TPOX, CF17PO, D53S18, D15S17, D7S80, D16S539, F13A01, FESFPS, F13A, LPL, D26S158 AND FGA IN THE POMERANIA-KUJAWY REGION OF POLAND

DP 9 SEQUENCING AND POPULATION DATA OF A SHORT TANDEM REPEAT LOCUS IN THE HUMAN ALPHA FIBRINOGEN GENE (HUMFGA) IN AN AUSTRIAN POPULATION SAMPLE
   E.M. Dauber, B. Glock, D.W.M. Schwartz, W.R. Mayr

DP 10 TPOX, VWA31A, HUMTH01, CYP19, D53S17, D8S123, D8S344, D8S345: AN STR DATABASE FOR A WEST AFRICAN POPULATION
   G. Dias, J.R. Lus, B. Castro

DP 11 DNA-FINGERPRINTING WITH MULTI-LOCUS PROBES M1Z13, 33, 15 AND CAC/TGTS, THE FREQUENCIES OF POLYMORPHIC FRAGMENTS IN THE SAMPLE OF POLISH POPULATION
   T. Dobosz, H. Juszczak, B. Switek

DP 12 ALLELE FREQUENCIES OF FOUR STR POLYMORPHISMS IN AN ITALIAN POPULATION SAMPLE
   M. Dobosz, A. Cania, R. Mavignoli, I. Boschi

DP 13 ALLELE FREQUENCIES DISTRIBUTION OF THREE STRs LOCI (F13B, CSF1PO, CD4) IN TUSCANY (ITALY)
   R. Domenicali, R. Bibbiani, S. Fornaciari, M. Nardone, A. Rocchi, S. Spinetti, M. Bargagna

DP 14 NEW ALLELES OF D12S391 STR LOCI
   T. Ribeiro, R.M. Brito, R. Espinha, H. Geada

DP 15 ALLELE FREQUENCIES (HUMWA; HUMTH01 AND HUMFES; FPS) IN A POPULATION SAMPLE OF SOUTH WEST-GERMANY
   R. Feuster, B. Blomer, W. Pflug, J. Schnee-Griesser, S. Uh

DP 16 ALLELE FREQUENCY DISTRIBUTION OF 7 STR LOCII IN THE BASQUE COUNTRY AUTOCYSTHONOUS POPULATION
   O. Garcia, P. Martin, C. Albarran, A. Alonso

DP 17 DUPLEX STR ANALYSIS OF D19S253 AND D18S51 IN A PORTUGUESE POPULATION SAMPLE
   T. Ribeiro, R.M. Brito, R. Espinha, H. Geada

DP 18 SARDINIAN POPULATION DATA ON STR LOCI HUMTH01
   S. Grusa, C. Carcassi, L. Floris, F. Paribello, S. LaI, R. Demontis, F. Alba, S. Montaldo, L. Contu

DP 19 AUSTRIAN POPULATION DATA ON THE POLYMORPHIC STR LOCI DYS19 AND HUMF135S

DP 20 GENETIC PROFILING OF S-MIGUEL ISLAND (AZORES)
   M.J. Prata, L. Guimarães, P. Mota, D. Silva, A. Amorim

DP 21 DISTRIBUTION OF FXIIIa SUBTYPES IN JAPANESE AND IN CHINESE
   A. Kito, M. Oya

DP 22 A STUDY ON FIVE SHORT TANDEM REPEAT SYSTEMS IN A YEMENITAN POPULATION SAMPLE
   M. Knöchel, N. Al Hammad

DP 23 ALLELE FREQUENCIES AND SEQUENCE STUDIES OF A HIGHLY VARIABLE SHORT TANDEM REPEAT AT THE D17S975 LOCUS
   M. Knöchel, B. Glock, E.M. Dauber, W.R. Mayr

DP 24 POPULATION GENETIC STUDY FOR THE STR LOCI D21S11 AND HUMFIBRA ANALYSED BY USING A FLUORESCENT BASED COMPLIFICATION AND AUTOMATED DETECTION
DP 25 ALLELE FREQUENCIES OF D3S1358 AND FGA IN A CENTRAL SPANISH POPULATION
P. Martín, O. Garcia, A. Alonso, C. Albarrán, M. Sancho

DP 26 PYRENEAN POPULATION DATA ON 3 TETRAMERIC SHORT TANDEM REPEAT LOCI: HUMTH01, TPOX AND CSF1PO-DERIVED USING A STR MULTIPLEX SYSTEM
B. Martínez-Jarreta, C. Palazón, M. Alcaraz, E. Roche, E. Belocac, M. Castellano, Y. Casalot

DP 27 D3S1359 AND D5S1179: ANALYSIS AND ALLELE FREQUENCIES IN A SOUTH GERMAN POPULATION
E. Mombiewski, C. Luckenbach, H. Ritter

DP 28 ALLELE FREQUENCIES AND SEQUENCE DATA OF THE STR LOCUS D1S554 IN A JAPANESE POPULATION
A. Nogai, Y. Hatahara, S. Yamada, Y. Buhan, T. Nakamura, H. Ohya

DP 29 DETECTION OF VNTR AND SEQUENCE VARIANTS OF THE HUMAN DOPAMINE D4 RECEPTOR GENE (DRD4) IN THE JAPANESE AND MONGOLIAN POPULATION
M. Nakatomi, Z. Tani, H. Sakurada, K. Honda

DP 30 COMPLEX STRs (ACTBP2, D21S111 AND FIBRA/FGA) IN TWO SPANISH POPULATIONS: NEW INTERMEDIATE ALLELES AND POPULATION GENETIC PECULIARITIES IN ACTBP2
C. Pestoni, J. López-Gómez, M. Aler, M.V. Lareu, M.S. Rodriguez-Calvo, A. Carracedo

DP 31 HUMTH01, HUMWA31A, AND ZAP01 VNTR-PCR LOCI FREQUENCIES STUDIED IN SAHARAUI SAMPLE POPULATION (WEST SAHARA NATIVE POPULATION)
M. Gené, M.F. Pinheiro, M. Luna, J. Corbella, P. Moreno, E. Huguet

DP 32 ANNIBON ISLAND POPULATION (EQUATORIAL GUINEA) CHARACTERISED BY THREE VNTR-PCR POLYMORPHISMS

DP 33 VALIDATION OF A FREQUENCY DATABASE FOR TWO STR LOCI (CD4 AND D125391)
M.F. Pinheiro, M.L. Pontes, E. Huguet, M. Gené, J. Pinto da Costa

DP 34 AUTOMATED TYPING OF 4 TETRAMERIC STR: A NORTH OF PORTUGAL DATABASE
M.L. Pontes, M.F. Pinheiro, E. Huguet, M. Gené, J. Pinto da Costa

DP 35 POPULATION GENETICS OF THE F13A1 STR POLYMORPHISM IN NORTH PORTUGAL AND S. TOME E PRINCIPE
C. Miranda, M.J. Prato, A. Amorim

DP 36 ANALYSIS OF THREE STRs (HUMCD4, HUMCSF1PO, HUMTPOX) IN FORENSIC SAMPLES AND PATERNITY TESTS
U. Ricketts, F. Goft, A. Sereni, C. Biondi, M.L. Giovannucci Uzzelli

DP 37 YNZ22 POPULATION DATA IN THE TUSCAN POPULATION (CENTRAL ITALY)
U. Ricketts, C. Biondi, M.L. Giovannucci Uzzelli

DP 38 STR DATABASE FROM ARGENTINA: STATISTICAL COMPARISON WITH OTHER CAUCASIAN DATABASES
A. Sala, G. Penacino, N. Iannucci, D. Corach

DP 39 STR SYSTEM D8S1132: GENETIC DATA OF TWO GERMAN POPULATION SAMPLES
H.R. Schneider, P. Wiegand, M. Schüñenkamp, M. Kleber

DP 40 FLUORESCENCE BASED MULTIPLEX ANALYSIS OF THE STR POLYMORPHISM FIBRA, VWFA31 AND D18S51 IN GERMAN CAUCASID INDIVIDUALS
C. Seidi, S. Müller, M. Klip, E. Sefried

DP 41 SEQUENCE ANALYSIS AND ALLELE FREQUENCIES OF STR LOCI D19S248 AND D11S489 IN GERMAN CAUCASIANS
C. Seidi, S. Müller, E. Sefried

DP 42 GENETIC VARIATION AT 6 STR LOCI IN THE JAPANESE POPULATION
K. Yoshiko, H. Kashi, H. Sato, C.H. Brenneke, O.F. Beckman

DP 43 POPULATION AND SEGREGATION DATA ON THE MULTIPLEX SYSTEM (THO1, VWA, FES, F13A1) FROM CENTRAL PORTUGAL
L. Sousa, A. Amorim, M.C. Víde

DP 44 POPULATION STUDY OF THE HUMWWA, HUMTH01, HUMFES AND HUMF13A1 STR POLYMORPHISMS IN THE SOUTH-WEST OF SPAIN

DP 45 AN ITALIAN COLLABORATIVE STUDY ON HUMFES/F8S LOCUS (GEF PROJECT ANCONA 2). ALLELE AND PHENOTYPE FREQUENCIES
F. de Stefano, S. Preustluti

DP 46 ALLELE FREQUENCY OF THE HUMVWA31 LOCUS IN ITALY, REPORT OF THE GEFI COLLABORATIVE STUDY "ANCONA 1"
A. Tegiandriti, S. Preustluti

DP 47 GENETICS OF THE D12S591 STR LOCUS IN THE CHINESE, THAI AND GERMAN POPULATIONS
W. Yang, R. Zhang, X. Zhang, H. Ritter, P.M. Schneider

DP 48 CD4, CYP19, FABP2 AND LPL: ANALYSIS, SEQUENCING AND FREQUENCY DATA
R. Wellsteiner, C. Luckenbach, H. Ritter

DP 49 POPULATION DATA ON THE LOCI HLA-DQA1, LDUR, GYPA, HBGG, D7S8, GC AND D8S51 IN A HUNGARIAN ROMANY POPULATION
J. Woller, B. Budowle, M. Angyal, S. Füredi, Z. Pádár

DP 50 A STUDY OF SEQUENCE POLYMORPHISM IN HUMAN ALPHA FIBRINOGEN GENE IN POMERANIA-KUYAWY REGION OF POLAND. IDENTIFICATION OF TWO ALLELES PREVIOUSLY REPORTED TO BE ABSENT IN CAUCASIANS
D. Machnik-Siwicka, M. Wozniak, T. Gorywowski, J. Gorny

DP 51 POPULATION GENETIC COMPARISON OF DNA POLYMORPHISM IN DRUG METABOLIZING ENZYME
M. Yamada, Z. Kozma, A. Nishimura, K. Nishi

DP 52 GENETIC ANALYSIS OF NINE STR LOCi IN JAPANESE USING MULTIPLEX PCR AND CAPILLARY ELECTROPHORESIS

DP 53 POPULATION GENETIC STUDY USING THE AMF/P STR BLUE™ TYPING-KIT
R. Zehnder

DP 54 COMPARISONS OF ALLELE FREQUENCIES IN THREE HYPERPOLYMORPHIC STRS BETWEEN NORWEGIAN SAMIBS AND THE MAIN POPULATION
R. Munive, T. Godde-Dahl, B. Olaosen

DP 55 UK CAUCASIAN DATABASES FOR THE SHORT TANDEM REPEAT LOCI D12S511, HUMFIBRA AND D8S5179
C. Phillips, D. Syndercombe Court, N. Tamaki

DP 56 PATTERNs OF HAPLOTYPE VARIATION AT THE D18S50 LOCUS AND A FLANKING SEQUENCE POLYMORPHISM IN AFRICAN AND NON-AFRICAN POPULATIONS
SCIENTIFIC PROGRAMME

SESSION E: MITOCHONDRIAL AND Y-CHROMOSOME GENETICS
Chairperson: Bernd Brinkmann

Oral Communications:
09.00 MV8 ANALYSIS OF THE MSY1 MINISATELLITE
J.L. Soto, S. Bellas, M. Brion, M.V. Larue, A. Carracedo, M.S. Rodriguez-Calvo

09.15 ALLERME FREQUENCIES AND HAPLOTYPES OF EIGHT HUMAN Y-STR; A COMPARISON BETWEEN SARDINIAN AND CONTINENTAL ITALIAN SAMPLES
A. Caglio, M. Dobosz, I. Boschi, A. Friori, V.L. Pascali

09.30 Y-SPECIFIC STR IN FORENSIC CASEWORK: VALIDATION STUDIES

09.45 Y-CHROMOSOME STR HAPLOTYPES: CONSTRUCTION OF ALLERIC LADDERS, SEQUENCING DATA AND POPULATION DATA FROM GALICIA (NW SPAIN)

10.00 GEOGRAPHIC CLUSTERING OF HAPLOTYPES OF THE HUMAN DYS389 TETRANUCLEOTIDE REPEAT LOCUS
B. Roll, E. Meyer, P. de Knijff, B. Brinkmann

Posters: 10.00-12.00

EP 1 SOMATIC INSTABILITY IN GaSTRIC TUMORS AT STREs USED IN FORENSIC GENETICS
F. Silva, A. Aparming, L. Gusmão

EP 2 DURING A RAPE INVESTIGATION THE SUSPECT WAS FOUND TO BE HETEROPLASMIC IN HUMWAS51A
R. Ansell, A. Khidr

EP 3 WHY NOT USE MV8 IN FORENSIC CASEWORK? FORENSIC USEFULNESS OF MV8 VARIATION AT THE MS32 AND MS31 LOCIS
S. Bellas, J.L. Soto, M. Brion, M.V. Larue, A. Carracedo, M.S. Rodriguez-Calvo

EP 4 TWO DISCRIMINATORY MULTIPLEX STR SYSTEMS FOR FORENSIC IDENTIFICATION: VALIDATION AND CANADIAN CASEWORK EXPERIENCE WITH AUTOMATED FLUORESCENT TECHNOLOGIES
C.J. Frégeau, K.L. Bowen, R.M. Fournier

EP 5 ANALYSIS OF MANUAL AND AUTOMATED ALLELE-TYPING OF THE STR-LOCUS SE 53
A. Kabiner, C. Luckenbach, H. Ritter

EP 6 INCREASING OF INFORMATIVENESS OF THE HIGH MICROVARIATION STR SYSTEMS WITHOUT SEQUENCING
D. Micisciak-Sliwka, T. Gmybowki, J. Czarny, M. Wozniak

EP 7 INVESTIGATION OF MICROVARIANTS FROM THE REGION D18S80
H. Hase-Fochtner, G. Weller

EP 8 A NOVEL GENETIC POLYMORPHISM OF HUMAN CHOLECYSTOKININ GENE AND RELATIONSHIP TO ALCOHOL DEPENDENCY
S. Harada, T. Okubo, S. Zhang

EP 9 SOMATIC MUTATION SPECTRA OF THE HYPERPOLYMORPHIC MICROSATELLITES HUMA072P2, D1S1554 AND HUMAPA011
S. Hefte-Olesen, S. Jacobsen, M. Stenersen, G.J. Melling, B. Olsbye

EP 10 A NEW "-3" TYPE VARIANT ALLELE IN THE STR LOCUS HUMTHO1: ALLELE 6.3 FOUND IN A HUNGARIAN CAUCASIAN INDIVIDUAL
Z. Kozma, A. Nagyi, M. Yamada, J. Sárádó, A. Nishimura, I. Ohsya, I. Beolváry, K. Nishi

EP 11 MOLECULAR ANALYSIS OF A MUTATION GENERATED AT THE HUMHPR1 TB (AGAT)n LOCUS

EP 12 SCREENING CYSTIC FIBROSIS DELETION AF508 IN TWO ANCIENT BASQUE POPULATIONS
I. Prieto, F. Arroyo-Pardo, J. Garcia-Bour, A. Pérez Pérez, J. Arenal, E. García Poveda, J.M. Ruiz de la Cuesta, D. Turbón

EP 13 THE STR-MARKER D8S347: SEQUENCING DATA, SEPARATION WITH DIFFERENT DYE-COLOURS, ALLELE FREQUENCIES
R. Pöltl, C. Luckenbach, H. Ritter

EP 14 THE STR MARKER FGA: SEQUENCING DATA, ALLELE FREQUENCIES
R. Pöltl, C. Luckenbach, H. Ritter

EP 15 SEQUENCING DATA OF THE MITOCHONDRIAL DNA CONTROL REGION FROM MOTHER AND CHILD SAMPLES
J. Hürne, H. Pfeifer, S. Rand, B. Brinkmann

EP 16 DNA MUTATIONS IN D-LOOP OF SIDS VICTIMS
S.H. Opedal, A.A. Vede, A.K. Slavo, T. Egeland, T.O. Rognam

EP 17 SEVERAL STR MARKERS AND THEIR GENETIC INSTABILITIES IN SOME RELATED DISEASES
M. Sasaki, M. Ishikawa, S. Fujimoto, H. Shioho

EP 18 POPULATION AND FAMILY STUDIES OF THE SEQUENCE POLYMORPHISM AT LOCUS D8S393 REVEALS COMPLEX REPEAT PATTERNS
G. Seif, O. Jäger, E. Seifried

EP 19 STR ALLELE SIZE VARIATION DUE TO DYE LABELLING STRATEGIES
M. Carvalho, L. Sothe, M.J. Anjos, D.N. Vieira, M.C. Vide

EP 20 ANALYSIS OF BAND SHIFT IN THE TYPING OF THREE BASE-PAIR REPEAT ALLELES IN THE SHORT TANDEM REPEAT LOCUS D12S391
C.P. Phillips, J. Hasekamp, D. Sparkscombe Court

EP 21 DNA-SEQUENCING OF AN ALLELE LADDER COMPRISING AAAG REPEATS
H. Martens, A. Langs, G. Holmlund, L. Engdahl, S. Nordbø, B. Lindbom

EP 22 REGIONAL ASSIGNMENT OF THE ACTBP2 LOCUS TO THE LONG ARM OF CHROMOSOME 5, AND CONFIRMATION OF D8S110 TO THE SHORT ARM OF CHROMOSOME 5
M. Stenersen, T. Gerdes-Dahl Jr, C.B. van der Hagen, P.A. Andreassen, B. Olsbye

EP 23 FORENSIC CASEWORK EXPERIENCE WITH AmpliSTR PROFILER™
M. Richard, P. Newall, W. Murray

SESSION F: MITOCHONDRIAL AND Y CHROMOSOME
Chairperson: Angel Carracedo

Lecture:
14.30 The Y Chromosome: Forensic Analysis and Evolutionary Aspects
L. Rowe

Oral Communications:
15.15 REPEAT STRUCTURE OF THE Y-CHROMOSOMAL STR LOCI DYS385 AND FREQUENCY STUDIES IN THE GERMAN, CHINESE, AND THAI POPULATIONS
P.M. Schneider, S. Meuser, W. Weis, C. Ritter

15.27 POPULATION GENETIC STUDY OF NINE Y-CHROMOSOME SPECIFIC STR-LOCI IN DUTCH CAUCASIANS
A.D. Koesteerman, M. Pouwles, H.J.T. Janssen, P. Desselaar
FRIDAY 6 SEPTEMBER

15.39 CHROMOSOME Y ANALYSIS IN PATERNITY TESTING: EXPERIENCES AND RECOMMENDATIONS
M. Kejevic, C. Krüger, M. Nagy, G. Geerick, P. de Knijff, L. Roeper

16.30 mtDNA ANALYSIS OF THE GALICIAN POPULATION: CORRELATION OF HISTORICAL AND GENETIC DATA
A. Sáenz, M.V. Larena, A. Vega, M.S. Rodríguez-Calvo, F. Barros, A. Carracedo

Posters: 16.15-18.00

FP 1 MITOCHONDRIAL DNA TYPING OF THE HYPERVARIABLE REGIONS I AND II (HVRI AND HVRII) IN A WESTERN GERMAN POPULATION (RHINE AREA)
A. Reissner, A. Junge, B. Maders

FP 2 HVRII MT DNA POLYMORPHISM ANALYSIS IN ITALIANS
I. Boschi, C. Capelli, D. Hall, E. d'Alcoa

FP 3 ANALYSIS OF MITOCHONDRIAL DNA: EXPERIENCE WITH A FAMILY
M. Crespolo, J.A. Luque, R. Fernández, E. Ramírez, J.L. Valverde

FP 4 COMPARATIVE INVESTIGATION OF THE STR POLYMORPHISM AT LOCUS D12S397 IN AN AUSTRIAN POPULATION SAMPLE: ADDITIONAL SEQUENCE DATA AND ALLELE DISTRIBUTION

FP 5 Y-CHROMOSOMAL STR SYSTEMS: APPLICATION OF A TRIPLEX-PCR IN FORENSIC STAIN ANALYSIS
M. Hidding, M. Staak, C. Schmitt

FP 6 POPULATION STUDIES OF THE Y-CHROMOSOME SPECIFIC POLYMORPHISMS DYS391, DYS393 AND DYS395 IN A WESTERN GERMAN POPULATION (RHINE AREA)
A. Junge, B. Maders

FP 7 POPULATION GENETICS OF THE TWO Y-STRS DYS 19 AND DYS 330 IN WEST SAXONIA (GERMANY)
R. Lessig, J. Edelmann

FP 8 NORTH ITALIAN POPULATION GENETIC DATA FOR THE Y STR SYSTEMS DYS19, DYS390, DYS392 AND THEIR POSSIBLE APPLICATION TO FORENSIC ROUTINE CASEWORK
F. Ghiotto, F. Betti, A. Piccinini

FP 9 STUDIES ON 7 AUTOSOMAL AND 5 Y-CHROMOSOMAL STR LOC IN A SOUTH-SOUTH GERMAN POPULATION
S. Deperthoud, K. Leimb, S. Kersch, W. Rechert, R. Mattner

FP 10 ANALYSIS OF THE Y-CHROMOSOME: THE Y-27H39 POLYMORPHISM IN A SAMPLE OF TUSCANY (CENTRAL ITALY)
U. Ricci, F. Vieri, B. Scaresulli, P. Knüsel, M.L. Giovannucci Uzielli

FP 11 POPULATION GENETICS OF THE Y-CHROMOSOMAL ALU REPEAT INSERTION POLYMORPHISM DYS267 (YAP)
L. Zhang, W. Waywath, C. Rittner, P.M. Schneider

FP 12 POPULATION DATABASES OF DYS19 AND DYS395 IN 160 NORWEGIANS
B.M. Dupuy, A. Gjerst, B. Oldsens

FP 13 METHAMPHETAMINE AND DNA TOPOLOGY
T. Sawaguchi, A. Sawaguchi

SATURDAY 6 SEPTEMBER

10.30-12.00

GP 1 TOWARDS THE ESTABLISHMENT OF A FRATERNITY INDEX IN FORENSIC IDENTIFICATION CASES
I.C. Flores, M.L. Andres, V. Prieto, P. Sanz

GP 2 CREATION OF A PCR-BASED POLYMORPHISMS DATABANK OF MEDICO-LEGAL INTEREST
E. Arroyo-Pardo, M.A. Ocaña, M. Arroyo, J.M. Ruiz de la Cuesta

GP 3 MIXED STAIN CALCULATOR
C.H. Streimer

GP 4 A STATISTICAL ANALYSIS BY MEANS LINEAR MODEL ON ITALIAN STRS POPULATION DATA
N. Cerri, A. Decarli, F. Zorzi, F. de Ferrari

GP 5 IMPROVING EFFICIENCY AND RELIABILITY BY MEANS OF A COMBINED LABORATORY/OFFICE MANAGEMENT SYSTEM
L. Henke, H. Grossnik, G. Conrad, J. Conrad, J. Henke

GP 6 SCREENING FOR SERIAL RAPE CASES AMONG UNSOLVED CRIMES IN SWEDEN
K. Heim, B. Beckman, A. Jangblad

GP 7 THE DISTRIBUTION OF SSTRS (ACTBP2) ALLELES IN A NORTH-RHINE WESTPHALIAN POPULATION SAMPLE AND THE DILEMMA OF APPROPRIATE SAMPLE SIZE
G. Molsberger, S. West, W. Huckenbeck, H.-G. Schill, K. Kuntze, G. Blüns

GP 8 POLYMORPHIC ALU INSERTIONS AND POPULATION GENETIC HETEROGENITY
M. de Pancrazio, M. López, A. Castro, I. Fernández-Fernández, A. García-Orell, G. Antunez de Mayolo, A. Antunez de Mayolo, P. Antunez de Mayolo, R.J. Herrera

Oral Communications:

12.00 NEW DEVELOPMENTS IN THE UK NATIONAL DNA DATABASE - IMPLICATIONS FOR THE LABORATORY AND THE CRIMINAL JUSTICE SYSTEM
P. Gill, R. Sparkes, R. Frazier, S. Watson, A. Urquhart

12.12 NATIONAL CASEWORK AND NATIONAL DNA DATA BASE: THE ROYAL CANADIAN MOUNTED POLICE PERSPECTIVE

12.24 PCR SYSTEMS USED BY LABORATORIES PARTICIPATING IN THE ABB/CAP PARENTAGE TESTING PROGRAM

12.36 SCORING SYSTEMS FOR DNA TESTING RESULTS FROM A PARENTAGE TESTING PROFICIENCY PROGRAM

12.48 THE EVOLUTION AND IMPACT OF THE UNITED STATES DNA ADVISORY BOARD FORENSIC DNA TESTING STANDARDS
L.A. Pressey