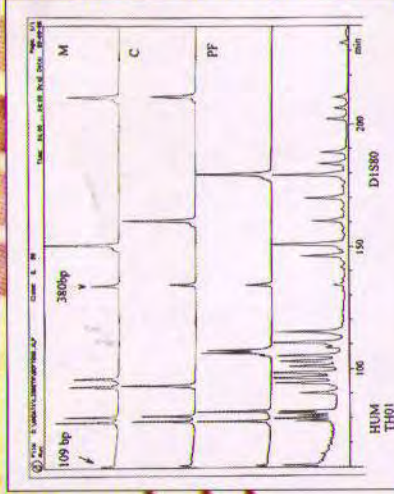


Pharmacia Biotech set the standard in temperature-controlled electrophoresis



PCR fragments from mother (M), child (C) and putative father (F) for HUMTH01 (79-83 min), ACTB P2 (90-115 min) DIS80 (145-234 min) simultaneously analysed using ALF™ DNA Analysis System.  
Two internal size markers at 109 bp and 380 bp are marked with arrows. Courtesy of A. Lango, A. M. Ekdal, L. Nyberg, Dr. B. Lindblom, State Institute of Forensic Serology University Hospital, 58185 Linköping, Sweden.



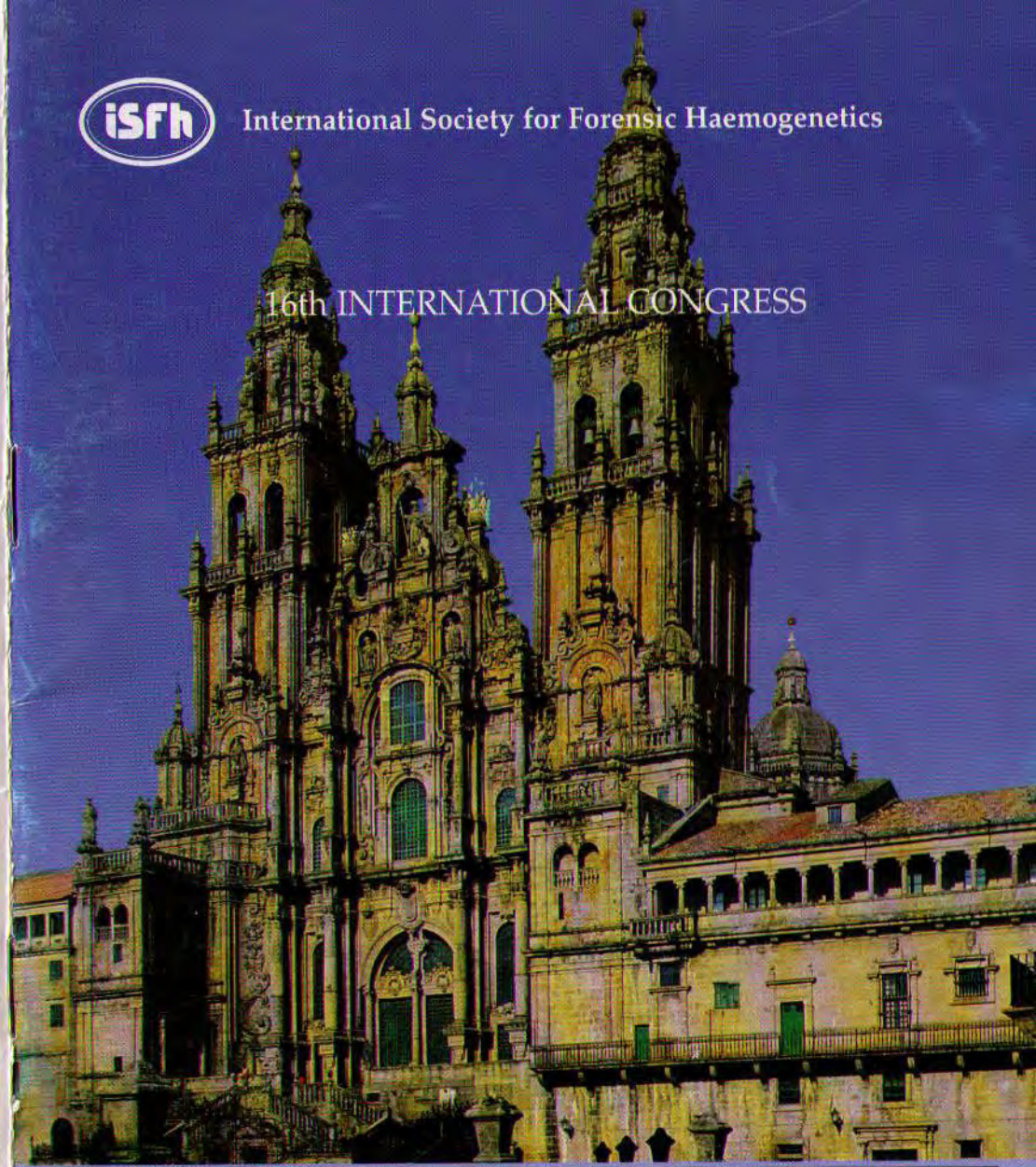
Mitochondrial D-loop solid-phase sequencing from hair shaft and hair root sample using ALF DNA Analysis System. Sample provided by Dr. Uwe Schleenbecker BKA, Bundeskriminalamt, Wiesbaden, Germany.

**ALF™ DNA Analysis System temperature controlled for accuracy and reproducibility**

Background: High-resolution DNA electrophoresis using Multiphor™ II System, CleanGel™ and Silver Staining Kit. Example shows data on RAPD analysis, gel provided by Birgit Jäger, Abteilung für Biologische Sicherheit, TÜV, Freiburg, Germany.



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International Society for Forensic Haemogenetics

16th INTERNATIONAL CONGRESS

*Final Programme*

GALLAECIA  
FVLGET

500 ANOS  
DA UNIVERSIDADE  
DE SANTIAGO  
DE COMPOSTELA  
11495 10951

Santiago de Compostela, Spain  
September 12-16, 1995





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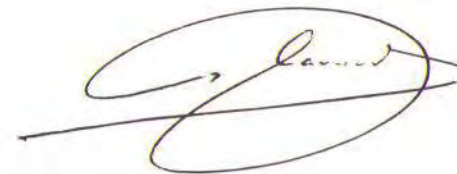
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*Dear friends,*

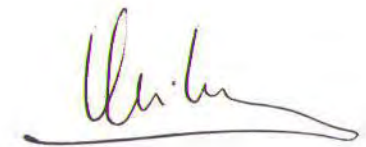
*Welcome to the 16th Congress of the International Society for Forensic Haemogenetics. It is fitting that the first meeting of the ISFH to be held in Spain is in Santiago de Compostela, a city that has been a place of cultural exchange and international cooperation between countries for many centuries. It is our hope that each of you will have the opportunity to enjoy its atmosphere and that the forensic geneticist of the world continue working together in their efforts towards better justice.*

*Our sincere warm welcome to you all*



*The Congress President*

*Prof. Angel Carracedo*



*The Chairman  
of the Organizing Committee  
Prof. Luis Concheiro*

## CONGRESS LOCATION

The Congress will take place at the School of Medicine (Facultad de Medicina, C/ San Francisco, 15705 Santiago de Compostela, Galicia, Spain).

## CONGRESS LANGUAGE

The official language of the Meeting is English. No simultaneous translation will be available.

## IDENTIFICATION BADGE

Participants are kindly requested to wear their name badge throughout the Congress in order to obtain admittance to all congress activities.

## SCIENTIFIC PROGRAMME

All congress sessions will be held in the main room (Salón de Actos).

### **Oral presentations**

Speaking time is 12 minutes with three minutes for discussion. Authors are requested to arrange their own slides into carousals 15 minutes before the beginning of the session in which their presentation is to be made.

### **Poster presentations**

A permanent poster exhibition is displayed. The posters are numbered by abstract number.

The authors are kindly requested to use the form they will find hung on the area reserved for their own poster.

The authors will be available for discussion during the poster discussion.

For any request, please contact the Registration Desk.

## SATELLITE MEETINGS

Scheduled on Tuesday 12th September 1995 (see the congress plan in the middle of the present book).

## ISFH WORKING GROUP MEETINGS AND ISFH ASSEMBLY

Scheduled for the afternoons of Wednesday 13th and Thursday 14th September, respectively.

## PROCEEDINGS

The authors of the accepted abstracts are requested to submit their final manuscript ready for publication, upon arrival at the Registration Desk. The manuscripts will be reviewed and their acceptance will be announced as soon as possible. To ensure rapid publication no manuscripts shall be accepted after the end of the Congress.

The volume 6 of "Advances in Forensic Haemogenetics" (Springer-Verlag) will be sent by post, after the Congress, to all participants having paid the regular registration fee (excluding students, technicians, accompanying members and one day participants).

Full members of the Society also will receive a copy of the Proceedings even if they do not attend the Congress.



## 13th Wednesday

## OPENING CEREMONY

9.00 Opening of Congress

## SESSION A: Mitochondrial DNA

Chairman: W. Bär

## Lecture:

9.30 MITOCHONDRIAL DNA VARIATION IN ANCIENT AND MODERN HUMANS  
Hagelberg E.

## Oral communications:

10.00 A TWO STAGE STRATEGY FOR AUTOMATED ANALYSIS OF MITOCHONDRIAL DNA.  
Sullivan K.M., Tully G., Alliston-Greiner R., Hopwood A. and Gill P.X 10.15 MITOCHONDRIAL DNA TYPING USING SEQUENCE-SPECIFIC OLIGONUCLEOTIDE PROBES.  
Reynolds R., Clark E., Marschak T., Varlaro J. and Rubin S.X 10.30 MIXING AND THERMIC TREATMENT OF MITOCHONDRIAL PCR FRAGMENTS REVEAL SEQUENCE DIFFERENCES BY HETERODUPLEX FORMATION- A RAPID METHOD FOR FORENSIC IDENTITY TESTING.  
Szibor R., Plate I., Kirches E. and Krause D.

10.45 GENETIC ANALYSIS OF SINGLE HAIR SHAFTS BY AUTOMATED SEQUENCE ANALYSIS OF THE MITOCHONDRIAL D-LOOP REGION.

Decorte R., Jehaes E., Xiao F.-X. and Cassiman J.-J.

11.00 MITOCHONDRIAL HVR1 POLYMORPHISM IN ITALY.

d'Aloja E., Boschi I., Moschetti A., Dobosz M., Pascali V.L. and Fiori A.

11.15 MITOCHONDRIAL D-LOOP SEQUENCE ANALYSIS FROM A SINGLE SPERM: A CASE REPORT.  
Schmidt W., Holtz J. and Olek K.

11.30 Break

## SESSION B: DNA sequencing data

Chairman: P.Gill

## Lecture:

12.00 THE STR APPROACH (POSSIBILITIES AND LIMITATIONS).  
Brinkmann B.

## Oral communications:

12.30 SEQUENCE ANALYSIS OF POLYMORPHIC SHORT TANDEM REPEAT LOCI USED IN MULTIPLEX PCR DNA PROFILING SYSTEMS.  
Barber M.D. and Parkin B.H.12.45 ANALYSIS OF SEQUENCE VARIATIONS IN THE ALLELES FROM THREE STR LOCI.  
Perlee L. and Balazs I.

13.00 AMPFLP-TYPING FOR THE HUMCD4 STR POLYMORPHISM IN AN AUSTRIAN CAUCASOID POPULATION SAMPLE: SEQUENCE DATA AND ALLELE DISTRIBUTION.

Glock B., Schwartz D.W.M., Dauber E.M., Schwartz-Jungl E.M. and Mayr W.R.

13.15 TYPING OF THE HUMVWA MICROSATELLITE POLYMORPHISM: ALLELE FREQUENCIES AND SEQUENCING DATA.

Schwartz D.W.M., Dauber E.M., Glock B. and Mayr W.R.

13.30 SEQUENCING AND SIZE DETERMINATION OF THE D1S80 INTERALLELE.  
Fukushima H., Harashima N., Katsuyama Y., Ota M., Liu C. and Hama Y.

13.45 Break

## SESSION C. Statistics

Chairman: M. Baur

## Lecture:

15.30 STATISTICAL ANALYSIS OF STR DATA.  
Evet I.W.

## Oral communications:

16.00 THE USE OF LIKELIHOOD RATIOS IN REPORTING DIFFICULT FORENSIC CASES.  
Monahan D.L., Cordiner S.J. and Buckleton J.S.16.15 IDENTIFICATION FROM BIOLOGICAL STAINS: PROBABILITY OF IDENTITY OR KINSHIP.  
Hummel K., Bär W. and Fukshansky N.16.30 DECISION-MAKING IN PATERNITY DIAGNOSTICS USING SLPs. (EVALUATION BASED ON A THREE-YEAR MATERIAL).  
Olaisen B. and Stenersen M.16.45 PROBABLE RACE OF A STAIN DONOR.  
Breener C.H.

17.00 Break

## POSTER SESSION

## 17.15 Poster discussion

## A. Mitochondrial DNA

Chairman: K. Sullivan

AP 1 mtDNA SEQUENCES IN NORWEGIAN SAAMIS AND OTHER NORWEGIANS.  
Dupuy B.M. and Olaisen B.AP 2 MITOCHONDRIAL DNA QUANTIFICATION IN ANIMAL HAIR BY SLOT-BLOTTING.  
Fridez F. and Coquoz R.AP 3 DETECTION OF SEQUENCE VARIANTS IN HYPERVARIABLE SEGMENTS OF MITOCHONDRIAL DNA IN THE ASIAN POPULATION.  
Honda K., Nakatome M., Islam M.N., ZawTun, Bai H., Ogura Y., Kuroki H., Yamazaki M., Terada M., Misawa S. and Wakasugi C.AP 4 FORENSIC VALIDATION ON THE INTEGRITY OF MATERNAL INHERITANCE OF THE MITOCHONDRIAL DNA.  
Schmidt W. and Olek K.AP 5 ROUTINE MITOCHONDRIAL DNA IDENTIFICATION.  
Tesson C., Penaud A., Le Roux M.G., Millassaud A., Guibert V., Moisan J.P. and Pascal O.

## B. Sequencing data

Chairman: W. Bär

BP 1 ANALYSIS OF THE SHORT TANDEM REPEAT POLYMORPHISM D18S51: ALLELE FREQUENCIES AND SEQUENCE STUDIES.  
Berschick P. and Reinhold J.



- BP 2 AUTOMATED SEQUENCE BASED HLA TYPING NEW TOOLS AND TECHNIQUES IN FORENSIC SCIENCES.  
Björkstén L., Degerman M. and Bielefeld M.
- BP 3 INVESTIGATION OF THE STR HUMLIPOI IN AUSTRIAN CAUCASOID INDIVIDUALS: SEQUENCE DATA AND ALLELE FREQUENCIES.  
Glock B., Schwartz D.W.M., Dauber E.M., Schwartz-Jungl E.M. and Mayr W.R.
- BP 4 D12S391: A HIGHLY USEFUL STR FOR FORENSIC PURPOSES.  
Lareu M.V., Barros F., Salas A., Pestoni C., Muñoz I., Rodriguez-Calvo M.S. and Carracedo A.
- BP 5 DNA SEQUENCE ANALYSIS OF PCR AMPLIFIED PRODUCTS OF MCT118 LOCUS IN JAPANESE DNA SAMPLES.  
Sekiguchi K., Sakai I., Mizuno N., Yoshida K., Kasai K., Sato H. and Seta S.

**C. Biostatistics**

Chairman: W. Mayr

- CP 1 SEDNA: A COMPUTER PROGRAM FOR SEMIPARAMETRIC ESTIMATION OF DENSITIES AND MATCH PROBABILITIES IN DNA FORENSIC IDENTIFICATION AND PATERNITY CASES.  
Alonso D., Cao R., Carracedo A. and Valverde E.
- CP 2 DNA PCR POLYMORPHISMS IN PATERNITY TEST PROTOCOLS. A BIOSTATISTICAL APPROACH.  
Domenici R., Fornaciari S., Nardone M., Rocchi A., Spinetti I., Venturi M. and Bargagna M.
- CP 3 A CLASSICAL EXCLUSION IN A PATERNITY CASE WHERE THE W VALUE IS 99.999%: EVIDENCE FOR A MUTATION IN THE HAPTOGLOBINE SYSTEM.  
Klitschar M.
- CP 4 POPULATION AND PATERNITY CALCULATIONS - COMPARING THREE SOUTH AFRICAN POPULATIONS.  
Kriel J., Halliday L. and du Toit E.

**18.15 ISFH Working Group Meetings**

English speaking Group	Room 7
German speaking Group	Salón de Actos
Italian speaking Group	Room 3
Japanese speaking Group	Salón de Grados
French speaking Group	Room 9
Spanish and Portuguese speaking Group	Room 5

21.00 *Concert: Capela Compostelana (San Martin Pinaro Church)***14th Thursday****SESSION D: DNA polymorphisms**

Chairman: B. Olaisen

**Lecture:**

- 9.00 DNA POLYMORPHISMS AND THEIR APPLICATION TO HUMAN IDENTITY TESTING.  
Budowle B.

**Oral communications:**

- 9.30 SELECTION OF STR LOCI FOR FORENSIC IDENTIFICATION SYSTEMS.  
Urquhart A.J., Oldroyd N.J., Downes T., Barber M., Kimpton C.P. and Gill P.D.
- 9.45 PCR TYPING OF ALU ELEMENTS - MOLECULAR GENETICS AND FORENSIC APPLICATION.  
Schneider P.M., Esdar C., Rittner G., Batzer M.A. and Rittner C.
- 10.00 AN INVESTIGATION OF VARIATION IN THE SIZING OF SHORT TANDEM REPEAT LOCI.  
Syndercombe Court D., Phillips C., Thomson J. and Lincoln P.
- 10.15 VARIABILITY AND SEGREGATION OF Y CHROMOSOME HAPLOTYPES DEFINED BY 8 POLYMORPHIC SHORT TANDEM REPEATS (STR).  
Roewer L., Kayser M., de Knijff P., Nagy M. and Krawczak M.
- 10.30 CORRESPONDING REPEATS IN STRs AND INTERNAL STANDARD IN FRAGMENT ANALYSIS.  
Dupuy B.M. and Olaisen B.
- 10.45 INTERPRETATION GUIDELINES FOR FLUORESCENT AUTOMATED DETECTION OF STRs: DEFINING THE ALLELE AND THE LIMITS OF DETECTION.  
Fourney R.M., Frégeau C.J., Bowen J.H., Bowen K.L., Shutler G.G., Elliot J.C., Roussy P.D. and Carmody G.R.
- 11.00 Break
- 11.30 STR MATCH CRITERIA: AN EVALUATION OF THE PRECISION AND MEASUREMENT WINDOW FOR STR LOCI USING INTERNAL MOLECULAR WEIGHT STANDARDS AND AUTOMATED FLUORESCENT DETECTION.  
Fourney R.M., Frégeau C.J., Bowen K.L., Shutler G.G., Elliot J.C., Klevan L., Hartley J., Hu A. and Carmody G.R.
- 11.45 FORENSIC VALIDATION OF THE STRs D8S320 AND AR: CONSTRUCTION OF ALLELIC LADDERS AND POPULATION GENETICS.  
Huber P., Schmidt W. and Holtz J.
- 12.00 ESTABLISHING OF A HIGHLY DISCRIMINATING PENTAPLEX PCR-SYSTEM FOR DETECTION OF PCR-FRAGMENTS IN SILVERSTAINED POLYACRYLAMIDE GELS.  
Haas H. and Weiler G.
- 12.15 APPLICATION OF AUTOMATED FLUORESCENCE DETECTION OF A PCR STR QUADRUPLEX ANALYSIS SYSTEM TO FORENSIC CASEWORK.  
Newall P., Monaghan B., Laird J. and Murray W.
- 12.30 MULTIPLEX AMPLIFICATIONS AND AUTOMATED FLUORESCENT TYPING OF SHORT TANDEM REPEAT (STR) LOCI: THE FRENCH EXPERIENCE.  
Rousselet F., Pfitzinger H. and Mangin P.
- 12.45 A TETRAPLEX PCR SYSTEM FOR THE ANALYSIS OF PATERNITY CASES.  
Seidl C., Jäger O. and Seifried E.
- 13.00 DEVELOPMENT AND APPLICATIONS OF HIGH THROUGHPUT MULTIPLEX STR SYSTEMS.  
Schumm J., Sprecher C., Lins A. and Micka K.



- 13.15 PROPERTIES OF AN STR MULTIPLEX MARKER SYSTEM SUITABLE FOR PATERNITY AND FORENSIC DETERMINATIONS.  
Neuweiler J., Perlee L., Venturini J. and Balazs I.

13.30 Break

### SESSION E: Forensic applications

Chairman: B. Budowle

#### Lecture:

- 15.30 AUTOMATED SHORT TANDEM REPEAT (STR) ANALYSIS AND THE NATIONAL UK DNA DATABASE.  
Gill P., Kimpton C., Urquhart A., Oldroyd N., Watson S., Millican E. and Frazier R.

#### Oral communications:

- 16.00 IDENTIFICATION THROUGH GENETIC TYPING OF THE VICTIMS OF THE SECT OF THE SOLAR TEMPLE (CHEIRY-SALVAN, SWITZERLAND).  
Brandt-Casadevall C., Dimo-Simonin N. and Krompecher T.
- 16.15 DETERMINATION OF SEX AND KINSHIP IN MASS GRAVE SKELETONS BY DNA (PCR) ANALYSIS ON ANCIENT BONES.  
Alt K.W., Kuntze K., Demir K., Huckenbeck W. and Pichler S.
- 16.30 DESIGN OF NOVEL OLIGONUCLEOTIDE PROBES FOR SEX DETERMINATION AND ITS FORENSIC APPLICATION.  
Kobayashi R., Iizuka N. and Itoh Y.
- 16.45 PCR CASEWORK EXPERIENCES WITH A MULTIPLEX STR SYSTEM.  
Greenhalgh M.J.
- 17.00 MULTIPLEXED DNA MARKERS FROM CIGARETTE BUTTS IN FORENSIC CASEWORK.  
De Stefano F., Bruni G., Casarino L., Costa M.G. and Mannucci A.
- 17.15 Break

### POSTER SESSION

#### 17.30 Poster discussion

#### D. DNA polymorphisms

Chairmen: V. Pascali and N. Morling

- DP 1 ANALYSIS OF D1580 VNTR ALLELE POLYMORPHISM AND ASSOCIATION WITH A NEARBY FLANKING SEQUENCE POLYMORPHISM IN TWO SPANISH POPULATIONS.  
Albarrán C., García O., Alonso A., Martín P. and Sancho M.
- DP 2 SOMATIC INSTABILITY IN CANCER AT SEVEN TETRAMERIC STR LOCI USED IN FORENSIC GENETICS.  
Alonso A., Martín P., Albarrán C., Guzmán A., Aguilera B., Oliva H. and Sancho M.
- DP 3 NULL ALLELES DETECTION IN LOCI D1S7, D7S21 AND D12S11.  
Alonso S., Castro A., Fernández-Fernández I., García-Orad A., Tamayo G. and M. de Pancorbo M.
- DP 4 A FLANKING POLYMORPHISM MAY INFLUENCE MEIOTIC INSTABILITY LOCUS D7S22 (g3).  
Andreassen R. and Olaisen B.
- X DP 5 THE APPROACH OF USING RANDOM PRIMING FOR SMALL FORENSIC DNA-SAMPLES.  
Baasner A., Prinz M. and Schmitt C.

- DP 6 USE OF A PCR TRIPLEX SYSTEM FOR DNA TYPING OF FORENSIC SAMPLES.  
Baird M.L., Galbreath L., Cunningham R. and Lastella J.
- DP 7 EVALUATION OF NEW STR LOCI FOR FORENSIC DNA TYPING.  
Coquoz R.
- DP 8 AUTOMATED PROFILING OF MULTIPLEXED DNA MARKERS, AND ITALIAN DATABASE OF FOUR CO-AMPLIFIED STRs LOCI.  
De Stefano F., Casarino L., Mannucci A., Costa M.G. and Bruni G.
- X DP 9 MICROBIAL DNA CHALLENGE STUDIES OF PCR-BASED SYSTEMS USED IN FORENSIC GENETICS.  
Fernández-Rodríguez A., Alonso A., Albarrán C., Martín P., Iturralde M.J., Montesino M. and Sancho M.
- DP10 SOME CRITICAL COMMENTS AND EXPERIMENTAL CALCULATIONS USED AS VALIDATION STANDARDS IN THE IMPLEMENTATION OF RFLP ANALYSIS.  
Flores I.C., Repetto G. and Sanz P.
- X DP11 ANALYSIS OF SOMATIC MUTATIONS AT SHORT TANDEM REPEAT LOCI.  
Hoff-Olsen P., Meling G.I. and Olaisen B.
- DP12 SIMPLE AND RAPID DUPLEX PCR FOR FORENSIC AND PATERNITY TESTING.  
Lalu K. and Lukka M.
- DP13 GENETIC STUDIES OF A STR AT THE UGB LOCUS. PRELIMINARY RESULTS.  
Leyenda P. and Caeiro B.
- DP14 TUMOR INOCULATION BETWEEN TWO UNRELATED HUMAN INDIVIDUALS: STR ANALYSIS OF PARAFFIN-EMBEDDED TISSUE SECTION.  
Luckenbach C., Gärtner H., Seidl C. and Ritter H.
- DP15 MOLECULAR PHENOTYPING OF TWO TRINUCLEOTIDE REPEATS (D5S373 AND XT00444). EXPERIMENTAL CONDITIONS.  
Luis J.R. and Caeiro B.
- DP16 DEVELOPMENT AND OPTIMISATION OF A HIGHLY DISCRIMINATING MULTIPLEX PCR SYSTEM SUITABLE FOR FORENSIC IDENTIFICATION.  
Oldroyd N.J., Urquhart A.J., Kimpton C.P., Watson S.K., Millican E.S., Sparkes R.L., Frazier R.R.E. and Gill P.D.
- DP17 ANALYSIS OF 12 SHORT TANDEM REPEATS IN BIOLOGICAL EVIDENCES.  
Pelotti S., Mantovani V., Bragliani M., Degli Esposti P., Collina E. and Pappalardo G.
- DP18 MANUAL DNA TYPING VIA THE SHORT TANDEM REPEATS (STRs): KW 426, TH AND HTPO.  
Pörtl R., Luckenbach C. and Ritter H.
- DP19 A MULTIPLEX AMPLIFICATION APPROACH FOR SIMULTANEOUS TYPING OF FIVE LOCI DNA OF ANCIENT BASQUE POPULATIONS.  
Prieto L., Arroyo E., Pérez-Pérez A., Asperilla C., Arenal I., Turbón D. and Ruiz de la Cuesta J.M.
- DP20 TRIPLEX PCR OF THREE STR LOCI WITH NON-OVERLAPPING ALLELE SIZES.  
Rostedt I. and Lukka M.
- DP21 VISUALIZATION OF EPIGENETIC TOXICOLOGICAL DNA CHANGES.  
Sawaguchi T., Wang X. and Sawaguchi A.
- DP22 THE 3' HYPERVARIABLE VNTR-LOCUS APO B: THREE DIFFERENT ANALYSING METHODS REVEALING DIFFERENT ALLELES AND LARGE FAMILY STUDIES.  
Sedlmayr S., Pörtl R., Luckenbach C. and Ritter H.
- DP23 AUTOMATED FLUORESCENT PCR BASED ANALYSIS OF THE STR POLYMORPHISM AT LOCUS D8S639 AND AT THE CYP19 GENE.  
Seidl C., Jäger O., Kilp M. and Seifried E.



- DP24 MUTATIONS OF D2S44 AND D4S139 ALLELES AND PRESENCE OF TWO-FRAGMENT ALLELES FOR D4S139.  
Vandenberghé A., Mommers N., Peeters I., Vandenbroeck M. and Muylle L.
- DP25 NON-AUTOMATIC MULTIPLEX ANALYSIS AND DETECTION STR-LOCI: HPRTB, FABP, CD4, F13A01, CYAR04, AND LIPOL.  
Weispfenning R., Luckenbach C. and Ritter H.
- DP26 DNA ANALYSIS OF POLYMORPHISM IN DRUG OR XENOBIOTIC METABOLISM.  
Yamada M., Sato M., Ushiyama I., Yamada Y., Nishimura A. and Nishi K.
- DP27 MULTIPLEX PCR WITH THREE SHORT TANDEM REPEATS IN FORENSIC CASEWORKS.  
Verheesen M. and Holtz J.

## E. Forensic applications

Chairman: P. Lincoln

- EP 1 DNA POLYMORPHISMS IN DENTAL PULP: EFFECT OF ENVIRONMENTAL FACTORS.  
Alvarez García A., Muñoz I., Pestoni C., Lareu M.V., Rodríguez-Calvo M.S., Barros F. and Carracedo A.
- EP 2 IDENTIFICATION OF HUMAN REMAINS USING DNA AMPLIFICATION (PCR).  
Andradas J., López J., García E., Cámara T. and Prieto L.
- EP 3 THE SO-CALLED ALCOHOL-BLOOD-SAMPLE IDENTITY EXPERTISE.  
Bonte W. and Huckenbeck W.
- EP 4 APPLICATION OF THE STR ANDROGEN RECEPTOR (HUMARA) POLYMORPHISM TO PATERNITY CASES.  
Caenazzo L., Ponzano E., Crestani C., Bonan G. and Cortivo P.
- EP 5 MULTIPLEX ANALYSIS OF LOCI HUMTH01, TPOX AND CSF1PO IN FORENSIC SAMPLES.  
Castro A., Fernández-Fernández I., Alonso S., García-Orad A., Tamayo G. and M. de Pancorbo M.
- EP 6 A FIVE MINUTE PROCEDURE FOR EXTRACTION OF GENOMIC DNA FROM WHOLE BLOOD, SEMEN AND FORENSIC STAINS FOR PCR.  
Dissing J., Rudbeck L. and Marcher H.
- EP 7 FALSE RESULTS IN THE HLA-DQ $\alpha$  TYPING: TWO CASES REPORTED.  
Fattorini P., Malusa N., Cossutta F., Florian F., Altamura B.M., Furlan G. and Graziosi G.
- EP 8 USE OF PCR FOR FORENSIC DNA ANALYSIS IN HAIRS, SALIVA AND CIGARETTE ENDS.  
Fernández R., Ramírez E., Crespillo M., Luque J. A., García P. and Valverde J.L.
- EP 9 PCR-DNA TYPING FROM BEAR SAMPLES.  
Garofano L., Lago G., Zanon C., Bruno M., Carresi P., Zignale G., Gino S. and Torre C.
- EP10 PCR-BASED DNA ANALYSES OF EPIDERMAL CELLS FOUND ON ADHESIVE TAPE.  
Garofano L., Lago G., Zanon C., Virgili A., D'Errico G., Vespi G., Gino S. and Torre C.
- EP11 DETERMINATION OF SEX IN DENTAL PULP USING PCR.  
Gremo A., Martínez M.A., Sanchez J. and Landete C.
- EP12 USE OF PCR IN FORENSIC CASEWORK IN THE AREA OF BERLIN.  
Herrmann S., Bläß G., Jauert B.
- EP13 THE NEVERENDING STORY: A NEW TSAREVITCH?  
Huckenbeck W., Bonte W., Hees V. and Alt K.W.
- EP14 INFLUENCE OF MEDIAEVAL CLOTHES COLOUR PIGMENTS ON DNA EXTRACTION AND AMPLIFICATION.  
Keyser C., Montagnon D., Ludes B., Crubezy E., Cardon D., Walton Rogers P., Wouters J. and Mangin P.

- EP15 INDIVIDUALIZATION OF A DISMEMBERED BODY BY A BOMB.  
Kondo T., Schneider V., Ohshima T. and Pöche H.
- EP16 FORENSIC INVESTIGATIONS AFTER SEXUAL ABUSE OF SEVERAL INFANTS.  
Kreike J. and Tauscher O.
- EP17 SEX DETERMINATION ON ANCIENT BONES BY DNA (PCR) ANALYSIS.  
Kuntze K., Huckenbeck W., Alt K.W. and Bonte W.
- EP18 IDENTIFICATION OF THE SKELETAL REMAINS OF TWO 12-YEARS-OLD BODIES BY NUCLEAR DNA POLYMORPHISMS ANALYSIS.  
Martín P., Alonso A., Albarrán C. and Sancho M.
- EP19 IDENTIFICATION IN VESTIGES FROM DIVERSE BIOLOGICAL SOURCES USING DUPLEX AMPLIFICATION OF SHORT TANDEM REPEAT LOCI.  
Martínez M.A., San José S., Rojas A. and Gremo A.
- EP20 A RARE PATERNITY CASE, EXHIBITING MULTIPLE MUTATIONS BY ANALYSIS OF VNTR LOCI.  
Seidl C., Grigorean R., Jäger O., Teixidor D., Kilp M., Rabold U., Brüggemann B., Seifried E. and Zang K.D.
- EP21 THREE INTRIGUING BODY IDENTIFICATION CASES.  
Mevåg B., Jacobsen S. and Olaisen B.
- EP22 FORENSIC DNA-TYPING IN THE SPANISH POLICE USING VNTRs SINGLE LOCUS PROBES.  
Rivas E., Vicente M.T., Gamella C., González J.L. and Andradas J.
- EP23 PCR TYPING OF DNA EXTRACTED FROM EPIDERMAL PARTICLES WON BY SCRATCHING.  
Sanchez-Hanke M., Augustin C., Püschel K., Wiegand P. and Brinkmann B.
- EP24 EFFECT OF VARIOUS SUBSTRATA AND AMBIENT TEMPERATURE ON MCT118 AND HLA-DQ $\alpha$  TYPINGS OF BLOODSTAINS SAMPLES.  
Sakai I., Sekiguti K., Mizuno N., Yoshida K., Kasai K. and Seta S.
- EP25 PCR GENOTYPING IN DENTAL PULP FROM OLD HUMAN SKELETAL REMAINS AND FIRE VICTIMS.  
Sanz P., Prieto V. and Andres M.I.
- EP26 ABO GENOTYPING OF THE SUSPECTS USING THE SPERM DNA.  
Sasaki M. and Shiono H.
- EP27 PCR-BASED ANALYSIS FOR THE IDENTIFICATION OF VICTIMS OF ALLEGED "MUTI" MURDERS.  
Schalsphoff T., Gersie W., Scoltz H.J., Knobel G.J., Fosseus C.B. and du Toit E.D.
- EP28 THE MC KEMY CASE: A UNIQUE RAPE AND MURDER CASE.  
Schneider H. R.
- EP30 FORENSIC IDENTIFICATION USING DNA RECOVERED FROM SALIVA ON HUMAN SKIN.  
Sweet D.J., Lorente J.A., Lorente M., Valenzuela A. and Villanueva E.
- EP31 ANALYSIS OF STR LOCI IN OLD BLOOD STAINS USING AUTOMATED AND MANUAL GENOTYPING SYSTEMS.  
Thomson J., Phillips C., Summerfield O., Beckett D. and Lincoln P.
- EP32 MICROSATELLITE DNA POLYMORPHISM ANALYSIS IN A CASE OF ILLEGAL CATTLE PURCHASE.  
Beamonte D., Valverde E., Guerra A., Ruiz B. and Alemany J.
- EP33 DISASTER VICTIMS IDENTIFICATION BY THE DNA TECHNOLOGY ON DENTAL PULP.  
Marcotte A., Hoste B., Fays M., De Valck E. and Leriche A.

18.30 ISFH Assembly

Salón de Actos

20.00 *Traditional open air festival (Robleda de Santa Susana)*



## 15th Friday

**SESSION F: Methodology**

Chairman: J. Robertson

**Lecture:**

9.00 LONG PCR: EXPANDING APPLICATIONS WITH A NOVEL TECHNIQUE.

Hübscher U.

**Oral communications:**

9.30 FLUORESCENCE-BASED TYPING OF SHORT TANDEM REPEAT LOCI AND THE D1S80 VNTR USING CAPILLARY ELECTROPHORESIS.

Robertson J.M. and Wenz M.

9.45 RAPID SEX-TYPING BY FLUORESCENT BASED PCR OF THE X-Y HOMOLOGOUS AMELOGENIN GENE AND ANALYSIS BY CGE.

Kloosterman A.D., Schans van der M.J., Janssen H.J.T. and Everaets F.M.

10.00 VNTR AND STR CHARACTERIZATION BY CAPILLARY ELECTROPHORESIS.

Oste C.C. and Merel P.

10.15 HETERODUPLEX ANALYSIS IS A RAPID METHOD FOR DETECTION OF SUBALLELES CAUSED BY MIXED LENGTH AND SEQUENCE VARIABILITY IN STR SYSTEMS.

Szibor R., Plate I. and Krause D.

10.30 USE OF CDP-STAR IN A FAST AND HIGHLY SENSITIVE CHEMILUMINESCENT DETECTION PROCEDURE FOR VNTR LOCI WITH NEUTRAL OR CHARGED MEMBRANES.

Leary S., Victor J. and Balazs I.

10.45 EVALUATION OF PRIMER EXTENSION PREAMPLIFICATION (PEP) IN FORENSIC STUDIES.

Itoh Y. and Kobayashi R.

11.00 SEQUENTIAL MULTIPLEX AMPLIFICATION (SMA) UTILITY IN CASES WITH MINIMAL AMOUNTS OF DNA.

Lorente M., Lorente J.A., Alvarez J.C., Budowle B. and Villanueva E.

11.15 EVALUATION OF HEREDITARY DISTANCE BY RESTRICTION LANDMARK GENOMIC SCANNING (RLGS).

Sawaguchi T., Wang X., Okazaki Y., Nakamura S., Ohue O., Hayashizaki Y. and Sawaguchi A.

11.30 Break

**SESSION G: Conventional markers**

Chairman: H. Polesky

**Lecture:**

12.00 THE PI SYSTEM: GENETIC VARIATION, FORENSIC APPLICATION AND CLINICAL ASPECTS.

Weidinger S.

**Oral communications:**

12.30 A PARENTAGE TESTING STUDY REVEALING A POSSIBLE DELETION AT THE PLG LOCUS.

Polesky H., Mount M., Seim S. and Wiessner L.

12.45 DETECTION OF THE ABO, GC, ACP AND HLA-DQ( POLIMORPHISMS AT THE DNA LEVEL USING PCR AND SSCP.

Dissing J. and Christiansen D.

13.00 NUCLEOTIDE CHANGES IN VARIOUS VARIANTS OF THE COAGULATION FACTOR XIII A SUBUNIT GENE.

Henke J., Suzuki K., Henke L., Szekelyi M., Tsuji H., Ito S., Mizoi Y. and Matsumoto H.

13.15 NOVEL POLYMORPHISMS IN THE CODING SEQUENCE OF THE COAGULATION FACTOR XIII A SUBUNIT GENE.

Suzuki K., Ishimoto G., Fukunaga T., Iwata M., Henke J., Uchida A., Miyazaki T., Mizoi Y. and Matsumoto H.

13.30 ABO GENOTYPING WITH PCR.

Schacker U. and Zapata M.

13.45 Break

**SESSION H: Population Genetics**

Chairman: N. Mörling

**Lecture:**

15.30 STATISTICAL ISSUES IN DNA PROFILING.

Weir B.S.

**Oral communications:**

16.00 POPULATION GENETICS OF D1S80, HUMVWA31A AND HUMF13A1 FROM PORTUGAL AND GOA (INDIA).

Geada H., Espinheira R., Ribeiro T. and Reys L.

16.15 GENETIC SUBSTRUCTURE AT THE STR LOCI HUMTH01 AND HUMVWA IN HAN POPULATIONS, CHINA.

Hou Y. and Walter H.

16.30 COLLABORATIVE STUDY ON THE POLYMORPHISM OF THE D1S80 LOCUS IN THE ITALIAN POPULATION.

Graziosi G.

16.45 Break

**POSTER SESSION**17.00 **Poster discussion****F. Methodology**

Chairman: R. Reynolds

FP 1 DETECTION OF SINGLE BASE CHANGES IN PCR-AMPLIFIED DNA USING DOUBLE STRAND CONFORMATION POLYMORPHISMS (DSCP).

Barros F., Rodriguez-Calvo M.S., Muñoz I., Pestoni C., Lareu M.V. and Carracedo A.

FP 2 HIGH ACCURATE AUTOMATED FRAGMENT ANALYSIS.

Bielefeld M., Rundgren A. and Castenius P.

FP 3 EVALUATION OF HYBRIDISATION EQUIPMENT FOR USE WITH NON ISOTOPICALLY LABELLED PROBES.

Childs W.P. and Rysiecki G.

FP 4 CDP-STAR AS A CHEMILUMINESCENT SUBSTRATE FOR USE WITH ALCALINE PHOSPHATASE LABELLED PROBES.

Childs W.P., Rysiecki G. and Elsmore P.

FP 5 SIMPLE AND RAPID TYPING OF STRs ON AN AUTOMATED DNA SEQUENCER.

Decorte R. and Cassiman J.-J.

FP 6 A MODIFICATION TO THE "CHELEX" DNA EXTRACTION METHOD FOR CASEWORK SAMPLES.

Greenhalgh M.J.



- FP 7 VALIDATION OF THE APPLIED BIOSYSTEMS PRISM 377 AUTOMATED SEQUENCER FOR FORENSIC ANALYSIS.  
Millican E.S. and Frazier R.R.E.
- FP 8 APPLICATION OF HLA-DR TYPING BY PCR-SSP TO FORENSIC SAMPLES.  
Ota M., Katsuyama Y., Hama Y., Harashima N., Liu C. and Fukushima H.
- FP 9 RAPID, NON-RADIOACTIVE DNA TYPING OF HLA-DRB AND -DPB LOCI FROM SINGLE HAIRS.  
Pelotti S., Mantovani V., Collina E., Bragliani M. and Pappalardo G.
- FP10 THE MVR-PCR APPROACH FOR THE TYPING OF THE MS32 LOCUS: USEFULNESS AND TECHNICAL PROBLEMS.  
Rodriguez-Calvo M.S., Bellas S., Barros F., Muñoz I., Pestoni C., Lareu M.V. and Carracedo A.
- FP11 INTRODUCTION OF TWO NEW ELECTROPHORESIS GEL SYSTEMS FOR SCREENING AND HIGH RESOLUTION IDENTIFICATION OF STRs UNDER NATIVE CONDITIONS.  
Schickle H.P. and Westermeier R.
- FP12 OLIGO-AP PROBES AND CHEMILUMINESCENCE. SENSIBILITY FOR STAINS ANALYSIS.  
Teyssier A.
- FP13 DETECTION OF STR LOCI USING AUTOMATED DNA ANALYZERS.  
Walsh P.S. and Lazaruk K.
- FP14 AUTOMATION OF DNA SAMPLE PREPARATION FOR RFLP AND PCR USING THE FTA DNA COLLECTION SYSTEM, ORAL SWABS, AND THE ROSYS LABORATORY WORKSTATION.  
Williams P.E., Seim S., Wiessner L., Stover P., Polesky H., Heath E. and Hammer L.
- FP15 STR TYPING WITHOUT DNA EXTRACTION USING AN INFRARED-BASED NON-RADIOACTIVE AUTOMATED DNA SEQUENCER.  
Roy R., Steffens D.L., Gartside B.O., Jang G.Y. and Brumbaugh J.A.

### G. Conventional markers

Chairman: J. Dissing

- GP 1 INDICATION FOR A SILENT ALLELE OF PROPERDIN FACTOR B POLYMORPHISM (BF\*Q0) IN A PATERNITY CASE.  
Domenici R., Fornaciari S., Nardone M., Spinetti I., Rocchi A., Venturi M. and Bargagna M.
- GP 2 MOLECULAR GENETIC DIFFERENTIATION OF DUARTE-1 AND DUARTE-2 VARIANTS OF GALACTOSE-1-PHOSPHATE URIDYL TRANSFERASE.  
Gathof B.S., Podskarbi T., Kleinlein B., Patsoura A., Gresser U. and Shin Y.S.
- GP 3 PRELIMINARY STUDIES ON THE POPULATION SUBSTRUCTURE FOR CIR PROTEIN IN CHINESE POPULATIONS.  
Gou Q., Jin Z., Hou Y., Wu J., Xu Y. and Wu M.
- GP 4 A STUDY OF POLYMORPHISM OF ANITHTHROMBIN III AT THE LEVEL OF BOTH PROTEIN AND DNA IN A CHINESE POPULATION.  
Gou Q., Hou Y., Zhang Y. and Wu M.
- GP 5 GENETIC POLYMORPHISMS OF ALPHA-1-ANTITRYPSIN AND GROUP-SPECIFIC COMPONENT IN SPANISH GYPSY POPULATION.  
Guisán A., López-Abadía I., Ruiz de la Cuesta J.M. and Bandrés F.
- GP 6 STUDIES ON BLOOD GENETIC MARKERS IN SOME MONGOLOID POPULATIONS OF EASTERN SIBERIA.  
Ishimoto G., Suzuki K., Matsumoto H., Wiebe V.P. and Valentina V.
- GP 7 PI SUBTYPING IN DENTAL PULPS.  
Kido A. and Oya M.

- GP 8 GC SUBTYPING IN SERUM AND SEMEN AFTER NEURAMINIDASE TREATMENT.  
Kido A., Oya M. and Hara M.
- GP 9 SIMULTANEOUS FOCUSING OF PGM AND ACP PHENOTYPES USING MINIATURIZED GELS AND 3-ELECTRODE TECHNIQUE.  
Krause D. and Kuchheuser W.
- GP10 ABO GENOTYPING BY MS-PCR.  
Lee J.C.I., Tsai L.C., Chen C.H. and Chang J.G.
- GP11 GENOTYPING OF ABO BLOOD GROUP SYSTEM BY POLYMERASE CHAIN REACTION IN MUMMIES DISCOVERED AT TAKLAMAKAN DESERT IN 1912.  
Ohshima T., Kondo T., Lin Z., Minamino T. and Sun R.
- GP12 PLATELET AND NEUTROPHIL ALLOANTIGEN TYPING USING SEQUENCE-SPECIFIC PRIMER PCR AMPLIFICATION.  
Phillips C., Lincoln P.J. and Annan T.
- GP13 FREQUENCY DATA OF 11 CONVENTIONAL PROTEIN GENETIC MARKERS IN THE RESIDENT POPULATION OF MADRID (SPAIN).  
Rojas A., San José S., Arroyo E., Asperilla C., Gremo A., Iglesia M., López-Abadía I., Martínez M., Bandrés F., Prieto L. and Ruiz de la Cuesta J.M.
- GP14 PLASMA PROTEIN MARKERS IN S. TOMÉ AND PRINCIPE.  
Santos M.F., Amorim A., Manco L. and Trovoada M.J.
- GP15 DETECTION OF A SILENT GC ALLELE IN A DANISH MOTHER AND CHILD.  
Thymann M., Hansen H.E. and Dissing J.
- GP16 ABH-RELATED ANTIGENS PARTICIPATE IN THE SPERMATOGENESIS OF CAT AND RAT.  
Ushiyama I., Yamada M., Kane M., Yamamoto Y., Nishimura A. and Nishi K.
- GP17 SPECIES IDENTIFICATION BY ANALYSIS OF THE GENES FOR ABO BLOOD GROUP.  
Yamada M., Ushiyama I., Sato M., Ueyama H., Ohkubo I., Nishimura A. and Nishi K.

### Population genetics

Chairman: B. Olaisen

- HP 1 DNA FINGERPRINTING IN BALEARIC POPULATIONS.  
Albala I., Picornell A., Castro J.A. and Ramon M.M.
- HP 2 HLA-DQA1 AND D1S80 IN THE POPULATION OF VALENCIA (SE SPAIN).  
Aler M., Lareu M.V., Verdú F., Pestoni C. and Gisbert M.S.
- HP 3 GENE FREQUENCIES OF HUMAN POPULATIONS ALONG PYRENEAN CHAIN.  
Aluja M.P., Nogués R.M., Sevín A. and Larrouy G.
- HP 4 MULTIPLEX PCR AND AUTOMATED FLUORESCENCE DETECTION OF FOUR TETRAMERIC STRs IN AN WEST-AUSTRIAN POPULATION.  
Ambach E., Parson W., Zehethofer K. and Niederstätter H.
- HP 5 POPULATION AND FORMAL GENETICS OF THE STRs TPO, TH01 AND VWFA31/A IN NORTH PORTUGAL.  
Amorim A., Gusmão L. and Prata M.J.
- HP 6 POPULATION GENETICS OF THREE STRs: TH01, CSF1PO AND TPOX IN SOUTHERN SPAIN.  
Andres M.I., Prieto V., Flores I.C. and Sanz P.
- HP 7 FREQUENCY MULTIVARIATE ANALYSIS OF LDLR, GYPA, HBG, D7S8 AND GC LOCI IN 12 DIFFERENT POPULATIONS.  
Arroyo E., Asperilla C., Prieto L., Herrera M. and Ruiz de la Cuesta J.M.
- HP 8 WORLDWIDE DISTRIBUTION OF D1S80 POLYMORPHISM. COMPARISON OF GENETIC DISTANCES AND CLUSTER ANALYSIS.  
Asperilla C., Arroyo E., Prieto L. and Ruiz de la Cuesta J.M.



SEPTEMBER 1995	MORNING		AFTERNOON		
12 <sup>th</sup> Tuesday			16.00-18.00: Satellite Meetings 18.00: Registration 20.00: Get-together party		
	1st Session	2nd Session	1st Session	2nd Session	
13 <sup>th</sup> Wednesday	9.00-9.30 Opening ceremony	12.00-13.45 Session B DNA Sequencing data	15.30-17.00 Session C Biostatistics	17.15-18.15 Poster discussion	18.15-19.00 ISFH working parties
	9.30-11.30 Session A Mitochondrial DNA				
14 <sup>th</sup> Thursday	9.00-11.00 Session D DNA polymorphisms	11.30-13.30 DNA polymorphisms	15.30-17.15 Session E Forensic applications	17.30-18.30 Poster discussion	18.30-19.30 ISFH Assembly
15 <sup>th</sup> Friday	9.00-11.30 Session F Methodology	12.00-13.45 Session G Conventional markers	15.30-16.45 Session H Population genetics	17.00-18.00 Poster discussion	
16 <sup>th</sup> Saturday	9.00-11.30 Session I Standardization. Ethics	12.00-13.00 Poster Discussion			



- HP 9 ALLELE FREQUENCY DISTRIBUTIONS OF 3 STR-LOCI IN A POPULATION SAMPLE FROM NORTHERN GERMANY.  
Augustin C., Sanchez-Hanke M. and Püschel K.
- HP10 ALLELE FREQUENCY DISTRIBUTION OF FIVE STRs LOCI HUMARA HUMPLA2A, VS17T, vWF AND F13B IN THE SPANISH POPULATION.  
Cabrero C., Díez A., Valverde E. and Alemany J.
- HP11 DETERMINATION OF THE ALLELE AND GENOTYPE FREQUENCIES OF LOCI HLA-DQA1, LDLR, GYPA, HBGG, D7S8 AND GC IN BOGOTA-COLOMBIA.  
Castillo M., Paredes M., Peñuela C., Bustos I., Jiménez M. and Galindo A.
- HP12 ALLELE DISTRIBUTION OF THE AMPLITYPE PM COAMPLIFICATION SYSTEM IN A POPULATION OF NORTHERN ITALY.  
Cerri N., Mignola R. and De Ferrari F.
- HP13 CHARACTERIZATION OF YNZ22 LOCUS FOR FORENSIC PURPOSES, ALLELE AND GENOTYPE FREQUENCIES IN A POPULATION OF NORTHERN ITALY.  
Cerri N., Pivetti S. and De Ferrari F.
- HP14 D1S80 POPULATION DATA IN NORTH-EAST OF SPAIN.  
Crespillo M., Luque J.A., Fernández R.M., García P., Ramírez E. and Valverde J.L.
- HP15 POPULATION STUDY FOR THE HLA-DQA1, LDLR, GYPA, HBGG, D7S8 AND GC LOCI IN NORTH-EAST OF SPAIN.  
Crespillo M., Luque J.A., García P., Ramírez E., Fernández R.M. and Valverde J.L.
- HP16 ALLELE FREQUENCIES OF FOUR STRs (HUMTH01, HUMVWA31, HUMF13A01, HUMFESF5) IN NORTH-EAST SPAIN.  
Crespillo M., Luque J.A., Ramírez E., García P., Fernández R.M. and Valverde J.L.
- HP17 GERMAN DATA ON THE LOCI LOW-DENSITY-LIPOPROTEIN RECEPTOR, GLYCOPHORIN A, HEMOGLOBIN (G), D7S8, GROUP-SPECIFIC COMPONENT AND HLA-DQ(.  
Huckenbeck W., Scheil H.G., Cremer U., Makuch D., Eiermann T.H., Kuntze K. and Bonte W.
- HP18 ALLELE FREQUENCIES OF VWA31A, FESF5, FXIII A1 AND D21S11 IN AN ITALIAN POPULATION SAMPLE.  
Dobosz M., Pescarmona M., Moschetti A., Cagliá A., d'Aloja E., Grimaldi L. and Pascali V.L.
- HP19 ANALYSIS OF THE APO B AND F8VWF ALLELE FREQUENCIES IN THE CROATIAN POPULATION.  
Drmic I., Andelinovic S., Galavotti R., Definis Gojanovic M., Primorac D. and Pignatti P.F.
- HP20 STR ANALYSIS - HUMTH01 AND HUMFESF5 FOR FORENSIC APPLICATION.  
Espinheira R., Ribeiro T., Geadá H. and Reys L.
- HP21 PROFILING THE NORTH-EAST ITALIAN POPULATION BY FOUR HIGHLY POLYMORPHIC PROBES.  
Fattorini P., Florian F., Tafuro S., Cossutta F., Altamura B.M. and Graziosi G.
- HP22 ALLELE FREQUENCIES OF HLA-DQ(, LDLR, GYPA, HBGG, D7S8 AND GC IN THE RESIDENT AND AUTOCHTHONOUS POPULATIONS OF THE BASQUE COUNTRY.  
García O., Martín P., Budowle B., Albarrán C. and Alonso A.
- HP23 STUDY OF HUMACTBP2 STR POLYMORPHISM, PERFORMED BY PCR AND AUTOMATED LASER FLUORESCENCE (ALF) SEQUENCER.  
Gené M., Huguet E., Luna M., Moreno P., Lareu M.V. and Carracedo A.
- HP24 AYMARA AND QUECHUA AMERINDIAN POPULATIONS CHARACTERIZED BY HUMTH01 AND vWA STR POLYMORPHISMS.  
Gené M., Huguet E., Moreno P., Fuentes M., Corbella J. and Mezquita J.

- HP25 SUITABILITY OF THE HUMTH01, CD4, AND vWA STR POLYMORPHISMS FOR LEGAL MEDICINE INVESTIGATIONS IN THE POPULATION OF CATALONIA (NORTH-EAST SPAIN).  
Gené M., Huguet E., Moreno P., Sánchez C., Corbella J. and Mezquita J.
- HP26 POPULATION AND FORMAL GENETICS OF THE STR SYSTEM MBP-LOCUS B-IN NORTH PORTUGAL.  
Gusmão L., Prata M.J. and Amorim A.
- HP27 ALLELE FREQUENCY DISTRIBUTIONS OF FIVE LOCI (LDLR, GYPA, HBGG, D7S8 AND GC) IN A JAPANESE POPULATION.  
Hara M., Kido A., Saito K., Takada A., Yabe K., Murai T. and Watanabe H.
- HP28 FREQUENCY DATA ON THE LOCI LDLR, GYPA, HBGG, D7S8 AND GC IN A POPULATION RESIDENT IN MADRID CITY (SPAIN).  
Herrera M., Asperilla C., Aumente M.A., Prieto L., Arroyo E. and Ruiz de la Cuesta J.M.
- HP29 GERMAN DATA ON THE PCR BASED LOCI HUMVWA, HUMFES, HUMTH01, HUMF13B AND D1S80.  
Huckenbeck W., Scheil H.-G., West S., Demir K., Kanja J., Kaiser A., Hees V., Meyer W., Alt K.W., Scholten D., Stancu V. and Bonte W.
- HP30 D1S80 ALLELES IN WIELKOPOLSKA POPULATION (POLAND).  
Jaroszewski J., Schütte U., Schurenkamp M. and Rand S.
- HP31 A STUDY ON THE SHORT TANDEM REPEAT SYSTEM ACTBP2 (SE33) IN AN AUSTRIAN POPULATION SAMPLE USING NON-DENATURING ELECTROPHORESIS AND A SEQUENCED ALLELIC LADDER.  
Klitschar M. and Crevenna R.
- HP32 HLADQA1 ALLELE FREQUENCIES IN THE WORLD USING A BILOT TO VISUALISE ALLELES AND POPULATIONS SIMULTANEOUSLY.  
Kloosterman A.D., Sjerps M., Eerhart J.T.H.M. and Dimo N.
- HP33 EFFICIENCY OF 6 STR-SYSTEMS, HLADQ( AND THE POLYMARKER SYSTEM (PM) IN PATERNITY TESTING.  
Kratzer A. and Bär W.
- HP34 SWISS POPULATION DATA FOR THE STR SYSTEMS HumVWA, HumF13A1 AND HumFES.  
Kratzer A. and Bär W.
- HP35 STUDIES ON THE HUMTH01 AND HUMVWA POLYMORPHISMS IN A SOUTH WEST GERMAN POPULATION.  
Leim K., Degenhartt S., Reichert W. and Mattern R.
- HP36 SPANISH POPULATION DATA ON SEVEN LOCI (D1S80, D17S5, HUMTH01, HUMVWA, ACTBP2, D21S11 AND DQA1): EQUILIBRIUM AND INDEPENDENCE.  
Lorente M., Lorente J.A., Alvarez J.C., Budowle B. and Villanueva E.
- HP37 TWO HIGHLY POLYMORPHIC VNTR-LOCI D5S11 (LH1) AND D4S139 (PH30): ANALYSIS, FORMAL AND POPULATION GENETIC DATA.  
Luckenbach C., Mainka M., Jung J., Almeida V. and Ritter H.
- HP38 ALLELE FREQUENCY DISTRIBUTION OF FIVE VNTR LOCUS AND PATERNITY TESTING IN NORTH-EAST OF SPAIN.  
Luque J.A., García P., Fernández R.M., Crespillo M., Ramírez E. and Valverde J.L.
- HP39 POPULATION GENETICS OF TWO AMP-FLPs (D1S80 AND D17S30) IN NORTH INDIAN POPULATIONS.  
Mastana S.S.
- HP40 SPANISH POPULATION DATA ON 13 PCR-BASED SYSTEMS.  
Martín P., Alonso A., Budowle B., Albarrán C., García O. and Sancho M.



- HP41 ALLELE FREQUENCIES OF D1S80, LDLR, GYPA, D7S8, GC, HBGG AND SE 33 IN POLISH POPULATION SAMPLE.  
Miscicka-Sliwka D., Sliwka K., Syroczyńska A., Grzybowski T., Baranowska B. and Berent J.A.
- HP42 HAPLOTYPE FREQUENCIES OF TWO STRs OF THE CHROMOSOME 8q (D8S344 AND D8S323).  
Mourelto S., Dios S. and Caeiro B.
- HP43 JAPANESE POPULATION DATA ON SIX STR LOCI.  
Nagai A., Yamada S., Watanabe Y., Bunai Y. and Ohya I.
- HP44 FORENSIC APPLICATION OF STR POLYMORPHIC MARKERS.  
Nakamura S., Sawaguchi T. and Sawaguchi A.
- HP45 POPULATION STUDIES OF TWO AMPFLP'S AND TWO STRs SYSTEMS IN A NORTH POLISH POPULATION.  
Pawlowski R., Welz A., Maciejewska A. and Paszkowska R.
- HP46 ALLELE FREQUENCY DISTRIBUTION OF 15 PCR-BASED DNA POLYMORPHISMS IN THE POPULATION OF GALICIA (NW SPAIN).  
Pestoni C., Garcia Rivero A., Bellas S., Lareu M.V., Rodriguez-Calvo M.S., Barros F., Muñoz I. and Carracedo A.
- HP47 THE ALLELIC DISTRIBUTION OF 5 STRs SYSTEMS IN A NORTH ITALIAN POPULATION.  
Piccinini A., Rand S. and Brinkmann B.
- HP48 POPULATION STUDY OF 3 STR LOCI IN THE NORTH OF PORTUGAL.  
Pinheiro M.F., Pontes M.L., Gené M., Huguet E. and Pinto da Costa J.
- HP49 POPULATION GENETICS OF THE STRs TPO, TH01 AND VWFA31/A IN S.TOMÉ E PRÍNCIPE.  
Prata M.J., Amorim A., Gusmão L. and Trovoada M.J.
- HP50 AUTOMATED ANALYSIS OF 5 STR LOCI: ALLELE FREQUENCIES AND FAMILY STUDIES IN THE GERMAN POPULATION.  
Reinhold J. and Arnold J.
- HP51 SOUTHERN SPAIN POPULATION FREQUENCIES OF THE LOCI LDLR, GYPA, HBGG, D7S8 AND GC. A COMPARISON BETWEEN ANDALUSIAN AND CANARY ISLANDS FREQUENCIES.  
Prieto V., Andres M.L., Flores I.C. and Sanz P.
- HP52 ALLELE FREQUENCY DISTRIBUTION OF D2S44, D12S11, D7S21, D7S22 AND D5S43 LOCI IN SOUTHERN SPAIN.  
Repetto G., Flores I.C. and Sanz P.
- HP53 HLA-DQA1 POLYMORPHISM IN TWO PORTUGUESE POPULATION SAMPLES FROM LISBON AND THE SOUTH OF PORTUGAL.  
Santos S.M., Sinões F., Armada A., Clemente A. and Correia M.C.
- HP54 D1S80 LOCUS POLYMORPHISM IN A POPULATION SAMPLE FROM LISBON.  
Santos S.M., Sinões F., Armada A., Clemente A. and Correia M.C.
- HP55 PCR-AMPLIFLIP TYPING OF THE D21S11 MICROSATELLITE POLYMORPHISM: ALLELE FREQUENCIES IN THE AUSTRIAN POPULATION.  
Schwartz D.W.M., Dauber E.M., Glock B. and Mayr W.R.
- HP56 TYPING FOR THE HUMFES/FPS SHORT TANDEM REPEAT POLYMORPHISM IN AN AUSTRIAN CAUCASOID POPULATION SAMPLE.  
Schwartz D.W.M., Glock B., Dauber E.M., Schwartz-Jungl E.M. and Mayr W.R.
- HP57 ANALYSIS OF THE STR POLYMORPHISM VWA AND FES: ALLELE FREQUENCY AND FAMILY STUDIES IN AN ITALIAN POPULATION SAMPLE.  
Ponzano E., Caenazzo L., Crestani C., Bonan G. and Cortivo P.

- HP58 ANALYSIS OF THE SHORT TANDEM REPEAT POLYMORPHISM D21S11 IN GERMAN CAUCASIANS.  
Seidl C., Jäger O. and Seifried E.
- HP59 POPULATION DATA OF THE VNTR LOCI D10S28, D4S139, D16S309 AND D5S110 IN GERMAN CAUCASIANS.  
Seidl C., Rabold U., Brüggemann B., Kilp M., Teixidor D. and Seifried E.
- HP60 A POPULATION STUDY OF 5 PCR GENETIC MARKERS LDLR, GYPA, HBGG, D7S8 AND GC IN ITALY.  
Tagliabracci A., Buscemi L., Cucurachi N., Mencarelli R., Giorgetti R. and Ferrara S.D.
- HP61 ALLELE FREQUENCIES OF THE HUMFES/FPS SYSTEM NORTHERN AND CENTRAL ITALY.  
Tagliabracci A., Paoli M., Rodriguez D., Buscemi L., Cucurachi N., Ferrara S.D., Previderè C., Peloso G., Riva A., Pierucci G., Domenici R., Fornaciari S., Spinetti Y., Nardone M. and Bargagna M.
- HP62 ANALYSIS OF THE Y-LINKED LOCUS Y27H39, FREQUENCY DISTRIBUTION IN SOUTH BAVARIAN AND APPLICATION TO PATERNITY TESTING.  
Weichhold G.M., Keil W. and Bayer B.
- HP63 STUDIES ON THE HUMACTBP/SE33 POLYMORPHISM IN A SOUTH BAVARIAN POPULATION.  
Weichhold G.M., Keil W. and Bayer B.
- HP64 HUNGARIAN POPULATION DATA FOR 11 PCR-BASED POLYMORPHISMS.  
Woller J., Füredi S. and Pádár Z.
- HP65 ALLELE FREQUENCY DISTRIBUTION OF THE STR SYSTEM ACBP2 (SE33) IN A POPULATION OF PORTUGAL (CENTRAL AREA).  
Souto L. and Vide M.C.
- HP66 ALLELE FREQUENCIES IN 4 STR'S FOR A POPULATION OF PORTUGAL (CENTRAL AREA).  
Souto L., Vieira D.N., Corte-Real F. and Vide M.C.
- HP67 DNA PROFILING: A GENETIC STUDY OF TWO VNTR LOCI IN THE EAST MIDLANDS.  
Stinton V.J. and Mastana S.S.

18.15 European DNA Profiling Group (EDNAP) meeting

21.00 *Social Dinner (Hostal de los Reyes Católicos)*



**16th Saturday****SESSION I: Standardization. Ethics**

Chairman: R.Walker

**Lecture:**

- 9.00 ETHICAL AND LEGAL ASPECTS.  
Grisolia S.

**Oral communications:**

- 9.30 THE DEVELOPMENT OF QUALITY ASSURANCE MEASURES IN FORENSIC DNA TYPING.  
Presley L.A. and Mudd J.
- 9.45 THE AMERICAN ASSOCIATION OF BLOOD BANKS INSPECTION AND ACCREDITATION PROGRAM FOR PARENTAGE TESTING LABORATORIES.  
Walker R.H.
- 10.00 THE PARENTAGE TESTING PROFICIENCY SURVEY PROGRAM OF THE COLLEGE OF AMERICAN PATHOLOGISTS.  
Harrison C., Endean D., Morris J., Polesky H., Roby R. and Walker R.
- 10.15 PARENTAGE TESTING SURVEY PROGRAM OF THE COLLEGE OF AMERICAN PATHOLOGISTS: RED CELL ANTIGENS, SERUM PROTEINS AND RED CELL ENZYMES TESTING RESULTS.  
Polesky H., Endean D., Harrison C., Morris J., Roby R. and Walker R.
- 10.30 PARENTAGE TESTING SURVEY PROGRAM THE COLLEGE OF AMERICAN PATHOLOGISTS: RFLP RESULTS.  
Endean D., Harrison C., Morris J., Polesky H., Roby R. and Walker R.
- 10.45 A REVIEW OF THE PATERNITY TESTING WORKSHOP OF THE ENGLISH SPEAKING WORKING GROUP.  
Syndercombe Court D. and Lincoln P. (for the English Speaking Working Group)
- 11.00 DNA LEGISLATION IN THE NETHERLANDS.  
Janssen H.J.T. and Kloosterman A.D.
- 11.15 SCIENCE AND CONSCIENCE: REGULATION OR GUIDELINES FOR FORENSIC HAEMOGENETICS?  
Lorente M., Lorente J.A. and Villanueva E.

11.30 Break

**POSTER SESSION**12.00 **Poster discussion****I: Standardization. Ethics**

Chairman: B. Brinkmann

- IP 1 REPORT ON THE THIRD EDNAP STR EXERCISE.  
Andersen J. et al.
- IP 2 HUMTH01 ALLELE FREQUENCIES IN ITALY - REPORT OF THE GEFI COLLABORATIVE STUDY.  
d'Aloja E. and Domenici R.
- IP 3 LEGAL AND DEONTOLOGICAL ASPECTS OF INCIDENTAL PATERNITY EXCLUSION IN GENETIC COUNSELLING.  
De Stefano F., Montolivo A., Mandich P., Casarino L., Bellone E., Costa M.G., Mannucci A. and Bruni G.

- IP 4 A REVIEW OF THE COLLABORATIVE EXERCISES OF THE SPANISH AND PORTUGUESE IFSH WORKING GROUP.  
Gomez J. and Carracedo A. (for the Spanish and Portuguese Working Group of the ISFH).
- IP 5 COMPATIBILITY OF RFLP RESULTS BETWEEN LABORATORIES: AABB/CAP SURVEY DATA.  
Harrison C., Allen R., Endean D., Morris J., Polesky H., Roby R. and Walker R.
- IP 6 PROFICIENCY TESTING IN FORENSIC DNA ANALYSIS.  
Riordan A.S., Parker M. and Rysiecki G.
- IP 7 PARENTAGE TESTING SURVEY PROGRAM OF THE COLLEGE OF AMERICAN PATHOLOGISTS: DNA POLYMORPHISMS BY PCR TECHNIQUE.  
Roby R., Polesky H., Allen R., Endean D., Harrison C., Morris J. and Walker R.
- IP 8 THE FORENSIC IDENTITY PROFICIENCY SURVEY PROGRAM OF THE COLLEGE OF AMERICAN PATHOLOGISTS.  
Roby R.K., Walker R.H., Brown J.R., Froede R.C., Kuo M., Mudd J.L., Narveson S., Reeder D.J., Singer R.L. and Weedn V.W.

13.00 **Closing ceremony**



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<b>HOTEL</b>	<b>Double room</b>	<b>Single room</b>
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