



- A** CONGRESS SITE  
**B** S. MARCO SQUARE  
**1** \*\*\*\*\* Excelsior  
**2** \*\*\*\*\* Des Bains  
**3** \*\*\*\*\* Biasutti  
**4** \*\*\*\*\* Londra Palace  
**5** \*\*\*\*\* Villa Mabapa

- 6** \*\*\*\*\* Boulevard  
**7** \*\*\* Atlanta  
**8** \*\*\* Centrale  
**9** \*\*\* La Meridiana  
**10** \*\*\* Rigel  
**11** \*\* Cristallo  
**12** \*\* Reiter

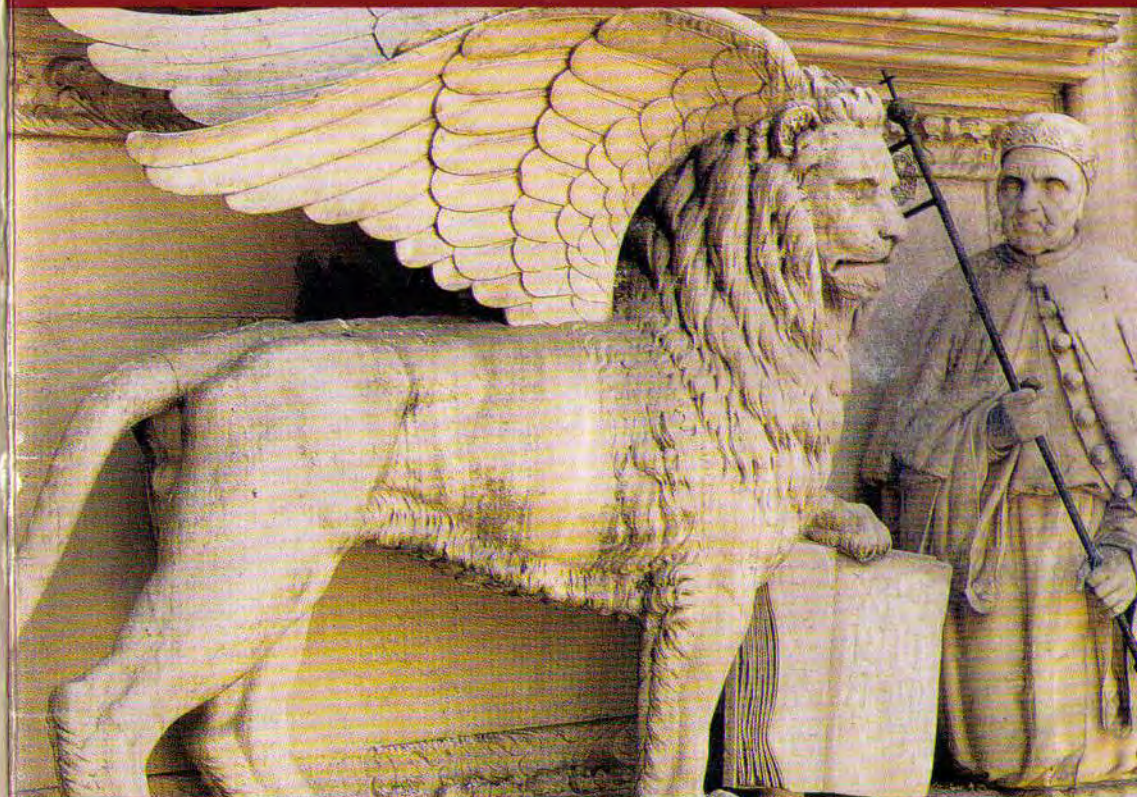
OFFICIAL CARRIER

**Alitalia**



International Society of Forensic Haemogenetics

15th INTERNATIONAL CONGRESS



*Final programme*

Venezia, 13 - 15 October 1993  
 Palazzo del Cinema  
 Lido di Venezia

## ISFH BOARD (1991-1993)

|                                        |          |           |
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## SCIENTIFIC COMMITTEE

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| Walter   | BÄR       |
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## ORGANIZING COMMITTEE

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*Dear Colleagues,*

*We are happy to welcome you in Venice, in October 1993, at the 15th International Congress of the ISFH.*

*We are grateful to the ISFH Board and Assembly to have selected Italy for our biennial meeting and we hope the result of our efforts will be up to the expectations of the international scientific community.*

*We deeply feel the responsibility of continuing the series of the successful ISFH Congresses and we count on the collaboration and understanding of all our friends.*

*Venice has much to offer to all its visitors, from Italy and abroad. Its role in the world's culture is not only a heritage of independence and tolerance, but goes on as a message of international cooperation between countries of all continents. We warmly hope that all Congress participants will be able to enjoy its magic atmosphere, and that Venice will bring good luck to our Society.*

*Welcome in Venezia!*

The Congress President

*(Prof. Angelo Fiori)*

The President  
of the Organizing Committee  
*(Prof. Umberto Rossi)*

**CONGRESS VENUE**

The Congress will take place at the Palazzo del Cinema, Lido di Venezia. The centre of Venice is only 15' by boat from the Lido.

**OFFICIAL LANGUAGE**

English. No simultaneous translation will be available.

**IDENTIFICATION BADGE**

Please always wear your badge as it will be necessary in order to obtain admittance to all congress activities.

**SCIENTIFIC PROGRAMME**

All congress sessions will be held in the main room (Sala Grande).

**SATELLITE MEETINGS**

Scheduled on Tuesday 12th October 1993 (see the congress plan in the middle of the present book).

**POSTERS**

A permanent poster exhibition is displayed.

The Authors are kindly requested to use the form they will find hung on the area reserved for their own poster. Please, use bi-adhesive tape or pins.

For any request please contact the Registration Desk.

**SLIDE CENTRE**

Speakers are requested to take their slides to the Slide Centre at least 1 hour before the session starts.

**PROCEEDINGS**

The Authors of the accepted abstracts are requested to submit their final manuscripts, ready for publication, upon arrival at the registration desk. To ensure rapid publication no manuscripts shall be accepted after the end of the Congress.

The Proceedings will be sent by post, after the Congress, to all Congress participants having paid the regular registration fee (excluding students, technicians, accompanying members, and one day participants).

**OPENING CEREMONY AND OPENING LECTURE**

Chairman: *Fiori A.*

- 9.00 Opening ceremony
- 9.30 History and geography of human genes  
*PIAZZA A.*
- 10.10 Break

**1. GENETIC TYPING AND HUMAN RIGHTS**

Chairman: *Lincoln P.J.*

Lecture:

- 11.00 DNA - A human rights profile  
*THORNTON P.*

Oral communications:

- 11.40 The association of individual sociodemographic factors with paternity test results  
*WALKER R., COFFEY M., KODALI R.*
- 11.50 Results of an investigation to identify the putative remains of the Romanov family  
*GILL P., SULLIVAN K., KIMPTON C., IVANOV P., PIÉRCY R., BENSON N.*
- 12.00 The expert's evidence and the judge's evaluation of all information in court decisions  
*HUMMEL K.*

- 12.20 Break

**2. MOLECULAR BIOLOGY OF CLASSICAL MARKERS**

Chairmen: *Bütler R. - Matsumoto H.*

Lectures:

- 14.00 Molecular analysis of classical human red cell markers  
*HOPKINSON D.A.*
- 14.30 The molecular genetics of HLA  
*MAYR W.R.*
- 15.00 A new look at old friends: the molecular biology of the protein markers  
*SENSABAUGH G.F.*
- 15.30 The molecular basis of the «red cell» acid phosphatase polymorphism  
*DISSING J.*

- 16.00 Break

**3. QUALITY CONTROL AND QUALITY ASSURANCE**

Chairman: *Brinkmann B.*

Lecture:

- 16.30 Quality assessment as an essential tool for the achievement of total quality  
*STIVALA J.F.A.*

Oral communication:

- 17.15 Quality control of paternity investigations in Scandinavia  
*LINDBLÖM B., MORLING N., OLAISEN B.*

- 17.25 End of session

#### 4. DNA METHODOLOGY: PRESENT AND FUTURE TRENDS

Chairman: *Bär W.*

##### Lecture:

- 9.00 DNA sequence analysis by oligonucleotide hybridisation  
SOUTHERN E.M.

##### Oral communications:

- 9.40 Simultaneous analysis of STR and VNTR polymorphisms  
LANGÖ A., EKDAHL A.M., NYBERG L., LINDBLOM B.
- 9.50 Streamlining VNTR analysis. A fast procedure for non isotopic DNA profiling  
BALAZS I., NEUWEILER J., KOWALSKI K., VICTOR J.
- 10.00 Nonradioactive approach to type DNA by minisatellite variant repeats  
HINNEY A., LUCKENBACH C., DÜRR C., RODEWYK S., PÖTLT R., RITTER H.
- 10.10 Minisatellites of the Y chromosome  
FATTORINI P., FLORIAN F., VATTA M., COSSUTTA F., ALTAMURA B., GRAZIOSI G.
- 10.20 Anomalous electrophoretic behaviour of HUMACTBP2 (SE33)  
LAREU M., PHILLIPS C., PESTONI C., BARROS F., MUÑOZ J., CARRACEDO A.
- 10.30 Break

#### 5. DNA POLYMORPHISMS IN PATERNITY TESTING

Chairman: *Morling N.*

##### Oral communications:

- 11.00 Paternity testing by oligonucleotide DNA fingerprinting: a multi-center study proving reliability and validity  
BÖHM L., KRAWCZAK M., SCHMIDTKE J.
- 11.10 Population genetic studies of five short tandem repeat loci (STRs): efficiency in paternity testing  
PAI A.P., JACKSON T., PAPIHA S.S.
- 11.20 Application of a Y-linked tetranucleotide repeat polymorphism to paternity cases  
TRABETTI E., CASARTELLI A., PIGNATTI P.F.
- 11.30 Clarification of a paternity case with the mother, two children and the mother of the putative father  
VAN HUFFEL V., ROUGER P., MAYR W.R.
- 11.40 Analysis of the locus D1S80: frequency distribution in North-East England and application to paternity testing  
PAPIHA S.S., THYMANN M.
- 11.50 An unusual case of failed vasectomy confirmed by DNA profiling techniques  
THOMSON J.A., LINCOLN P.J., MORTIMER Ph.
- 12.00 Development and validation of buccal swab collection methods for DNA testing for paternity testing  
BEVER R.A., CREACY S.D., DE GUGLIELMO M.A.
- 12.10 Break

#### 6. DNA POLYMORPHISMS IN CRIMINAL INVESTIGATION

Chairman: *Budowle B.*

##### Lecture:

- 14.00 DNA markers, validation studies, and population genetic inferences for forensic analysis  
BUDOWLE B.

##### Oral communications:

- 14.40 Evaluation of Amp-FLP markers and summary of PCR-based forensic casework  
DE GUGLIELMO M.A., RADER J.M., BEVER R.A.
- 14.50 Investigation of vaginal cell/sperm mixtures from microscopical slides  
WIEGAND P., SCHÜRENKAMP M., BRINKMANN B.
- 15.00 Genetic typing by PCR of saliva from stamps and envelopes: application to threatening letters  
ALLEN M., SALDEEN T., GYLLENSTEN U.
- 15.10 Dealing with human remains sampled in disaster areas. The case of the Israeli Embassy explosion occurred in Buenos Aires  
CORACH D., PENACINO G., GUINTELLER Ch., JUST J., SOTELO A.
- 15.20 Break

#### 15.45-17.00 WORKING PARTIES

English speaking Group  
German speaking Group  
Italian speaking Group  
Japanese speaking Group  
Spanish speaking Group

Sala Volpi  
Sala Grande  
First Floor  
First Floor  
Sala Frau

#### 17.00-18.30 ISFH ASSEMBLY

Sala Grande

**7. PCR METHODOLOGY***Chairman: Gill P.***Oral communications:**

- 9.00** Automated DNA profiling employing "multiplex" amplification of short tandem repeat loci  
KIMPTON C., GILL P., URQUHART A., WALTON A., ADAMS M., WATSON S., MILLICAN E., HOLDAWAY D.
- 9.10** Validation of the Amplitype® PM coamplification system for use on forensic casework samples  
FILDES N., ALAVAREN M., VARLARO J., REYNOLDS R.
- 9.20** An evaluation of automated fluorescent PCR-based DNA typing  
FOURNEY R., ELLIOTT J., BOWEN K., FRÉGEAU C.
- 9.30** Comparison of manual and automated detection for STRs analysis  
MONTAGNA P., PEZZA A.L., TAVANO S., SPINELLA A.
- 9.40** Evaluation of native and denaturing polyacrylamide gel electrophoresis for short tandem repeat analysis  
ROBERTSON J.M.
- 9.50** Analysis of the short tandem repeat polymorphism SE 33: a new high resolution separation of SE 33 alleles by means of direct blotting electrophoresis (DBE)  
BERSCHICK P., HENKE L., HENKE J.
- 10.00** Analysis of the COL2A1 polymorphism in a small *PAN troglodytes* population  
D'ALOJA E., DESTRO-BISOL G., MEREU U., DOBOSZ M., PASCALI V.L., FIORI A.
- 10.10** DNA sex test: a new rapid and quantitative forensic approach using amelogenin gene based fluorescent PCR  
MANNUCCI A., SULLIVAN K.M., IVANOV P.L., KIMPTON C.P., GILL P.
- 10.20** DNA typing on single hair. Recent possibilities based on a new extraction method  
PIZZAMIGLIO M., VIRGLI A., VESPI G., D'ERRICO G., VECCHIO C., GAROFANO L.
- 10.30** Extraction and PCR amplification of DNA from hair shafts  
MÖLLER A., BRINKMANN B.
- 10.40** Break

**8. DNA SEQUENCING***Chairman: Fourney R.M.***Lecture:**

- 11.10** The identification of human remains using mitochondrial DNA sequencing  
HOLLAND M.A., ROBY R.K., FISHER D.L., RUDERMAN J., BRYSON C.K., LOFTS R.S.

**Oral communications:**

- 11.50** Sequencing alleles from AMP-FLP and STR loci. The ultimate DNA typing  
PERLEE L., BALAZS I.
- 12.00** Evidence for a germline mutation at 3'HVR COL2A1 locus - Segregation analysis and sequence data  
DOBOSZ M., D'ALOJA E., MOSCETTI A., PESCARMONA M., BOSCHI I., PASCALI V.L.

- 12.10** Isolation of a (ATTTTN positive locus by cloning, PCR cycle sequencing and nonradioactive direct blotting electrophoresis  
DÜRR C., HINNEY A., LUCKENBACH C., RITTER H.
- 12.20** A novel HLA-DOB1 allele: evidence for gene conversion event promoted by x-like sequence at DOB1 locus  
CONGI A.M., CUCCA F., LAMPIS R., FRAU F., DE VIRGILIIS S.
- 12.30** PCR VNTR systems in non-human primates  
MEYER E., RAND S.
- 12.40** PI\*<sup>M</sup>palermo: a new deficient alpha-1-antitrypsin allele detected by DNA sequence analysis in two families  
WEIDINGER S., FABER J.P., SCHWARZFISCHER F.
- 12.50** Molecular basis for polymorphism of the A subunit of coagulation factor XIII  
SUZUKI K., ITO S., IWATA M., MATSUMOTO H., MIZOI Y.
- 13.00** Break

**9. POPULATION STUDIES AND BIOSTATISTICS (1)***Chairman: Baur M.P.***Lecture:**

- 14.30** Population substructure, hypervariable DNA polymorphisms, and their implications in forensic applications of genetics  
CHAKRABORTHY R., JIN L.

**Oral communications:**

- 15.10** The paternity index, population heterogeneity, and the product rule  
MORRIS J.W.
- 15.35** Break

**10. POPULATION STUDIES AND BIOSTATISTICS (2)***Chairman: Chakraborty R.***Oral communications:**

- 16.05** An Italian collaborative study on the HLA-DQA1 locus allele frequencies (Garda 2 project of the Gruppo Ematologi Forensi Italiani - G.E.F.I.)  
PRESCIUTTINI S., DE STEFANO F.
- 16.15** Estimation of genetic distance between subpopulations using DNA profiling data from crime investigations  
GREENHALGH M.J., BUFFERY C.M.
- 16.25** Semiparametric density estimation with applications to DNA profiling  
CAO R., CARRACEDO A., VALVERDE E.
- 16.35** Bioassay of kinship using VNTR alleles. A strategy for analyzing subpopulations  
OLAISEN B., STENERSEN M., GEDDE-DAHL T.
- 16.45** Analysis by PCR/oligonucleotide typing of HLA class II alleles in a variety of human populations  
ERLICH H., BUGAWAN T.L., APPLE R., TITUS E., CASTRO R., MOONSAMY P., BEGOVICH A.
- 16.55** Evaluation of the product rule  
BRENNER Ch.
- 17.05** End of session

### 1. GENETIC TYPING AND HUMAN RIGHTS

- PO1 Ethical considerations about unexpected facts disclosed during genetic link studies  
SALARU N.N.R., BARROS M.A.V.R., RUBINSTEIN S.S.

### 2. MOLECULAR BIOLOGY OF CLASSICAL MARKERS

- PO2 Genetic typing of human red cell acid phosphatase (ACP1) at the DNA level  
AYER LAZARUK K.D., SENSABAUGH G.F.
- PO3 Molecular analysis of esterase D polymorphism  
TSUCHIDA S., FUKUI E., HINOHARA H., IKEMOTO S.

### 3. QUALITY CONTROL AND QUALITY ASSURANCE

- PO4 Comparison of the use of DNA-profiling and classical markers in criminal casework  
ERIKSEN B., SVENSMARK O., DISSING J., THYMAN M.
- PO5 Fluorescent based typing of two short tandem repeat loci in a Swedish population sample and reproducibility of fragment size estimates  
HOLGERSSON S., KARLSSON J., KIHLENGREN A., ROSÉN B., SAVOLAINEN P.
- PO6 Restriction fragment length polymorphism: image analysis and molecular weight calculation with a scanner-based computer system  
LUCKENBACH C., LUCKENBACH A., RITTER H.
- PO7 Quality control: interlaboratory comparison of RFLP-results  
SVENSMARK O., ERIKSEN B.
- PO8 An optimised chemiluminescent detection system: is it compatible with data generated using  $^{32}\text{P}$  and a different ladder?  
THOMSON J.A., SYNDERCOMBE-COURT Y.D.

### 4. DNA METHODOLOGY: PRESENT AND FUTURE TRENDS

- PO9 Genetic typing of forensic samples with mixed genotypes using allele specific amplification  
ALLEN M., SALDEEN T., GYLLENSTEN U.
- PO10 Evaluation of the tris-glycine/tris-chloride discontinuous buffer system for the electrophoretic analysis of VNTR and STR loci  
ALONSO A., MARTIN P., ALBARRAN C., SANCHO M.

- PO11 DNA fingerprinting with dig-labelled probes 33.15 and 33.6 in population from the Basque country  
ALONSO S., CASTRO A., FERNÁNDEZ-FERNÁNDEZ I., BARBERO C., GARCÍA-ORAD A., ARIZTI P., TAMAYO G., M. DE PANCORBO M.
- PO12 Use of chemiluminescent labeled probes for forensic and paternity determinations  
BAIRD M., BALAZS I.
- PO13 Three VNTR and Y-chromosome identification from biological stains  
CAENAZZO L., CRESTANI C., GREGGIO N.A., PONZANO E., BONAN G., CORTIVO P.
- PO14 Application of the capillary DNA chromatography in the paternity testing using APOB amplified alleles  
CAPON F., NOVELLI G., DALLAPICCOLA B.
- PO15 Analysis of D1S80 locus polymorphism in Basque country population by capillary polymerase chain reaction  
CASTRO A., FERNÁNDEZ-FERNÁNDEZ I., ALONSO S., BARBERO C., GARCÍA-ORAD A., ARIZTI P., PORTUONDO M., TAMAYO G., M. DE PANCORBO M.
- PO16 Automated laser fluorescent analysis of amplified fragment length polymorphism's and short tandem repeats  
DOBOSZ M., PASCALI V.L., BOSCHI I., D'ALOJA E., FIORI A.
- PO17 Methods for the evaluation of C-bands heteromorphism in human chromosomes by means of image processing (I.P.)  
ESPOSITO M., GRAMMATICO P., QUAREMBA G., PAGANO C., MORRONE E., DEL PORTO G., ROMANO C.
- PO18 Studies on sex-determination with different Y-specific probes after quantifying human genomic DNA with the slot blot hybridization method  
HAAS H., HOFMANN W., WEILER G.
- PO19 Typing human DNA using capillary electrophoresis  
HOLLAND M.M., TURNI L.A., DELRIO S., MARINO M., LOFTS R.S., FISHER D.L., WILLIAMS P.L.
- PO20 Behaviour of transformation of genetic markers in recipients after BMT  
IKEMOTO S., TSUCHIDA S., FUKUI E., KAJI E., IWAMOTO S., AMEMIYA Y., KATO K., MIURA Y., AKUTSU M.
- PO21 Comparison of DNA-extraction methods from compact bone tissue  
LALU K., KARHUNEN P.J., SAJANTILA A.
- PO22 Evaluation of chemiluminescent detection methods for incorporation into the RFLP procedure used by the FBI Laboratory  
LINDSEY J., BUDOWLE B.

- PO23 DNA profiling of bloodstains on carpeting - Methods of purification, restriction and detection  
LÖTTERLE J., HANTSCHER M.
- PO24 DNA-extraction for PCR: phenol-chloroform vs. chelex - a comparative study  
SCHNEE-GRIESE J., LINDER S.
- PO25 Simple and rapid typing for VNTR polymorphisms using high resolution electrophoresis of PCR-products on rehydratable polyacrylamide gels  
SCHWARTZ D.W.M., JUNGL E.M., MAYR W.R.
- PO26 DNA typing of subtypes of the A subunit of coagulation factor XIII by PCR-RFLPs  
SUZUKI K., ITO S., UCHIDA A., MIYAZAKI T., MATSUMOTO H., MIZOI Y.
- PO27 Two different mechanisms are involved in the polymorphism showed by the locus D2S44  
VALVERDE E., CABRERO C., DIEZ A., RODR-GUEZ-CALVO M.S., ALEMANY J., CARRACEDO A.

## 5. DNA POLYMORPHISMS IN PATERNITY TESTING

- PO28 Parentage testing using six-loci VNTR system in a Russian population  
CHISTYAKOV D.A., EFREMOV I.A., NOSIKOV V.V.
- PO29 Application of conventional and DNA polymorphism to paternity cases  
CRESTANI C., CAENAZZO L., PONZANO E., BONAN G., CORTIVO P.
- PO30 DNA typing - Strategies in paternity and forensic casework  
DU TOIT E.D., ARENDESE B., REAVIS S., JACOBS M., ROUSSEAU J.
- PO31 Parentage control in cattle by genotyping microsatellites  
GLOWATZKI M.-L., FRIES R.
- PO32 Paternity testing with DNA systems: application of D1S80 phenotyping to Danish paternity cases analysed with five VNTR single locus systems  
HANSEN H.E., THYMAN M.
- PO33 PCR polymorphisms compared to other genetic markers in the paternity testing  
HUGUET E., GENÉ M., MEDALLO J., SÁNCHEZ GARCÍA C., CORBELLA J., MEZQUITA J.
- PO34 Case report of a disputed paternity with no biological sample from the putative father  
LÓPEZ-ABADÍA I., MARTÍNEZ M.A., GREMO A., RUIZ DE LA CUESTA J.M.
- PO35 Paternity testing of endangered species of birds by DNA fingerprinting and AP-PCR  
MÁTHÉ J., EISENMANN C., WEYLAND G., SEITZ A.

- PO36 Characterization of three microsatellites and their application in paternity testing  
MOLTENI E., LA FACE F., SIRCHIA S., COLUCCI G.
- PO37 Paternity testing in Italy using minisatellite variant repeat MVR  
NOVELLI G., LO CICERO S., TORRENTE I., FUCCI P., DALLAPICCOLA B.
- PO38 Different DNA profiling systems: comparative study for paternity testing  
OVCHINNIKOV I., MOLAKA Y., SHLENSKY A., ROGAEV E.
- PO39 PCR-based analysis of HLA-DQ, D1S80 and APO B loci in paternity testing  
REINHOLD J., ARNOLD J.
- PO40 Proving paternity using formalin-fixed, paraffin embedded tissue samples from a deceased father  
SAJANTILA A., LUKKA M.
- PO41 DNA-fingerprinting - Is it possible to use only this method in solving paternity cases? - View after several years of experience  
SCHACKER U., ZAPATA M., ZAPATA M.
- PO42 Application of single-locus probes in cases of disputed paternity. The usefulness of the combination of HLA and DNA  
SEIDL C., RABOLD U., BRÜGGEMANN B., KILP M., TEIXIDOR D., SEIFRIED E.
- PO43 Expertise report in disputed paternity cases with two or more children  
SIMÕES A.L., SALARU N.N.R.
- PO44 Diagnosis of incest using DNA of child and mother  
WENK R.E., CHIAFARI F.A., HOUTZ T., BROOKS M.

## 6. DNA POLYMORPHISMS IN CRIMINAL INVESTIGATION

- PO45 Casework experience with single locus DNA probes and chemiluminescent detection in Spain  
ALBARRÁN C., ALONSO A., MARTÍN P., SANCHO M.
- PO46 DNA analysis of human blood recovered from explosion debris  
BILOUS P.T., GOULDEN R.J.
- PO47 Genetic identification from dental pulp by using DNA amplification (PCR)  
CERRI N., MIGNOLA M., PAGANELLI C., DE FERRARI F.
- PO48 The degradation of VNTR polymorphic sites in various biological specimens when subjected to different temperature conditions  
DRAGO G.A., THOMSON J.A., LINCOLN P.J.

|                               |                                                                                                  |                                                               |                                                                       |                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------|
| OCTOBER<br>1993               |                                                                                                  |                                                               |                                                                       |                                                                  |
| 12 <sup>th</sup><br>Tuesday   | 11.00 - 17.00: DNA Commission<br>14.30 - 17.30: English speaking Group - Paternity workshop      |                                                               | First Floor<br>Sala Volpi                                             |                                                                  |
|                               | MORNING                                                                                          |                                                               |                                                                       | AFTERNOON                                                        |
| 13 <sup>th</sup><br>Wednesday | 1st Session                                                                                      | 2nd Session                                                   | 1st Session                                                           | 2nd Session                                                      |
|                               | 9.00 - 9.30<br>Opening ceremony                                                                  | 11.00 - 12.20<br><br>1. Genetic typing<br>and human rights    | 14.00 - 16.00<br><br>2. Molecular biology<br>of classical markers     | 16.30 - 17.25<br><br>3. Quality control and<br>quality assurance |
|                               | 9.30 - 10.10<br>Opening lecture                                                                  |                                                               |                                                                       |                                                                  |
| 14 <sup>th</sup><br>Thursday  | 9.00 - 10.30<br>4. DNA methodology:<br>present and future<br>trends                              | 11.00 - 12.10<br>5. DNA polymorphisms<br>in paternity testing | 14.00 - 15.20<br>6. DNA polymorphisms<br>in criminal<br>investigation | 15.45 - 17.00<br>ISFH working parties                            |
|                               |                                                                                                  |                                                               |                                                                       | 17.00 - 18.30<br>ISFH Assembly                                   |
| 15 <sup>th</sup><br>Friday    | 9.00 - 10.40<br>7. PCR methodology                                                               | 11.10 - 13.00<br>8. DNA sequencing                            | 14.30 - 15.35<br>9. Population studies<br>and biostatistics (1)       | 11. Conventional<br>genetic markers<br><br>(posters)             |
|                               |                                                                                                  |                                                               | 16.05 - 17.05<br>10. Population studies<br>and biostatistics (2)      |                                                                  |
| 16 <sup>th</sup><br>Saturday  | ESTM COURSE: Fondazione LEVI - Venezia<br>Basic methods and criteria for paternity investigation |                                                               |                                                                       |                                                                  |
| 17 <sup>th</sup><br>Sunday    | ESTM COURSE                                                                                      |                                                               |                                                                       |                                                                  |

- PO49 About a case of DNA analysis from some latent blood stains on overalls found in a river  
GAROFANO L., PIZZAMIGLIO M., VECCHIO C., D'ERRICO G., VIRGILI A., SPINELLA A.
- PO50 Forensic DNA-typing in the Netherlands using VNTR Single Locus Probes  
KLOOSTERMAN A.D., JANSSEN H.J.T.
- PO51 The use of DNA profiling to aid the identification of the victims of an aircraft crash  
MAGUIRE C.N.
- PO52 Post-mortem molecular identification. Biological kinship established by DNA analysis  
PENACINO G., CORACH D.
- PO53 Application of PCR technique for the characterization of human bones  
PREVIDERÉ C., PELOSO G.
- PO54 Use of PCR for forensic analysis of DNA in cigarette ends  
SANZ P., PRIETO V.
- PO55 Quantitation of mixed chimerism in blood and bone marrow  
SIMON C., LÖLIGER C.-C., KÜHNLE P.
- PO56 PCR amplification of DNA from old blood stains  
SPINELLA A., BIONDO R., GAROFANO L., QUARESIMA A., PELLEGRINI D.
- PO57 Blood group typing and PCR-analysis in stored blood samples  
TUTSCH-BAUER E., WEICHHOLD G., JOSEPHI E.

## 7. PCR METHODOLOGY

- PO58 Genetic studies of an Amp-FLP at the vWF locus and its application to individualisation  
CAEIRO B., LUIS J., LISTE I.
- PO59 HLA-DQA1 typing by DNA amplification of single human hair  
CAENAZZO L., CRESTANI C., PONZANO E., BONAN G., CORTIVO P.
- PO60 PCR DNA typing of washed stains  
COQUOZ R.
- PO61 Comparison of different methods for HLA-DQA1 typing  
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- PO131 Haptoglobin subtypes in several populations of Spain  
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- PO132 Gc, Tf and PI polymorphisms in Madeira Island (Portugal) - PI\*S allele and paternity testing  
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- PO133 Genetic polymorphism of antithrombin III in a Chinese population  
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- PO134 Two cases of duplication of the 1F and 1A2 genes in the vitamin D-binding protein (GC) system  
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- PO135 ABO blood grouping of old bloodstains by reverse passive agglutination with monoclonal anti-A,-B antibodies  
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- PO136 Transferrin subtyping in human organ tissues  
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- PO137 Allele distribution of inter-alpha-trypsin-inhibitor (ITI) in several East European populations  
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- PO138 Genetic diversity in Sri Lanka: some implications on paternity testing  
MASTANA S.S., JAYASEKARA R., PAPIHA S.S.
- PO139 Human inter-alpha-trypsin inhibitor (ITI) silent allele found in a case of disputed paternity  
NAKAYASHIKI N., TOKIWA K., KUMAGAI R., KATSURA S.
- PO140 Lectin and immuno histochemistry on mucous substances of the taste buds and lingual glands in some mammals  
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- PO141 Immunization of thalassaemic patients against the AG system  
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- PO142 PI (alpha-1-antitrypsin) subtypes in NW Portugal  
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- PO143 Comparative lectin and immuno histochemistry on antigen expression in blood group A1 and A2 individuals  
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- PO144 Orosomucoid phenotyping using monoclonal antibodies  
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- PO146 Study of rapid determination of ABO blood group in bloodstains by the improved Dot-ELISA with monoclonal antibodies  
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- PO147 Vestigation on the distribution of properdin factor B phenotype frequencies in human sera in the area of Beijing and the study on determination in bloodstains  
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**"Basic methods and criteria for paternity investigation"****Venezia, 16-17 October 1993**

After the Congress a one and a half day course, organized by Wolfgang Mayr and Umberto Rossi, will be run under the responsibility of the ESTM (European School of Transfusion Medicine).

**COURSE VENUE**

The course will take place at Fondazione LEVI - Calle Giustinian, Venezia. From the Lido the Fondazione can be reached by ferryboat n. 1 (stop at Accademia boat stop).

**LESSONS TIMETABLE (total = 10 hours)**

Saturday 16: 9-12 a.m.; 2-5 p.m.

Sunday 17: 9 a.m.-1 p.m.

**REGISTRATION CONTRIBUTION**

Registrant to ISFH Congress Lit. 180.000

Non-registrant Lit. 220.000

**PROGRAMME**

An introduction to paternity testing

*Patrick J. LINCOLN*

Alloantigenic polymorphisms of blood cells and plasma proteins in paternity testing

*Wolfgang R. MAYR*

Electrophoretically defined polymorphisms of blood cells and plasma proteins in paternity testing

*Gunther GESERICK*

Application of DNA restriction fragment length polymorphisms to paternity investigation

*Gerda G. DE LANGE*

Fluorescence based DNA segment analysis in forensic science

*Peter GILL*

Microsatellites: methods of analysis and application to a protocol of parenthood investigation

*Vincenzo L. PASCALI*

PCR analysis in paternity testing

*Steve RAND*

Biostatistical evaluation of DNA polymorphisms and PCR results in paternity cases

*Max P. BAUR*

Ethnic differences and DNA fingerprinting

*Alberto PIAZZA*

Concluding remarks: the impact of research and practice of paternity investigation on the scientific development of related disciplines

*Umberto ROSSI*

**For information and registration please call at the Registration Desk of the Congress within Thursday 14th October.**

**TUESDAY, OCTOBER 12**

**18.00** Welcome concert at the Palazzo del Cinema

The programme will include Baroque music played by the instrumental orchestra "QUODLIBET".

**19.00** «Ombreta» party. A friendly welcome with an "ombreta" (this is how Venetians call a glass of wine).

**THURSDAY, OCTOBER 14**

**20.30** Social dinner at Hotel Des Bains

(ticket available at the cost of Italian Lit. 110.000)

For information and reservation please call at the Registration Desk.

**ACCOMPANYING PERSONS PROGRAMME**

The meeting point for the accompanying persons programme is located at the Registration Desk of the Congress, 20' before the scheduled departure.

**WEDNESDAY, OCTOBER 13**

**14.00-17.30** Guided tour of Venezia city center.

**THURSDAY, OCTOBER 14**

**08.50-13.00** Half day excursion by boat to the Islands of Burano, Murano and Torcello.

**FRIDAY, OCTOBER 15**

**08.20-13.00** Half day bus tour to the famous Venetian villas along the river Brenta.

## ACCOMODATION

Please contact the Registration Desk for questions concerning hotel accomodation.

The official hotel list is reported in the back cover page.

| HOTEL   | Double room | Single room | Double room Single use |
|---------|-------------|-------------|------------------------|
| 5 stars | 335.000     | 250.000     | 300.000                |
| 4 stars | 260.000     | 180.000     | 230.000                |
| 3 stars | 180.000     | 120.000     | 155.000                |
| 2 stars | 125.000     | 85.000      | 105.000                |

## CATERING

Due to organising reasons, the service of catering announced in the preliminary programme (at the cost of Lit. 40.000 per lunch) will be activated at a reduced price in a different form, consisting of daily coupons at the cost of Lit. 25.000, to be purchased together for the 3 days at the Registration Desk at the beginning of the Congress.

To ensure a rapid and efficient service, the Registration Desk will provide coupons during Tuesday 12th and Wednesday 13th.

Congress participants having paid lunch coupons in advance (through the accomodation form) will be refunded the difference at the Registration Desk.

For payments made by credit card, only the correct amount has been charged.

*We gratefully acknowledge financial support for the Congress from the following companies:*

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