

Programme

Tuesday, August 28

- 08.45 a.m. – 06.00 p.m. Weißer Saal / White Hall
Workshop 'New Technologies'
Peter Gill, Birmingham
- Session 1: Introduction - Challenges, statistical analysis**
Chair: *P. Gill, A. Carracedo*
- 08.45 – 09.15 a.m. WS 1 *P. Gill*
Utilisation of SNPs in forensic science.
What are the advantages and what are the challenges?
- 09.15 – 09.45 a.m. WS 2 *R. Reynolds* (Roche Molecular Systems)
SNP Genotyping using Megaplex PCR amplification and linear probe assays
- 09.45 – 10.15 a.m. WS 3 *C. Brenner* (Berkeley, California, USA)
Matching odds with no database and other SNP tales
- 10.15 – 10.45 a.m. Coffee Break
- Session 2: Overview of methods currently available**
Chair: *B. Brinkmann, N. Morling*
- 10.45 – 11.15 a.m. WS 4 *B. Budowle* (FBI)
Multiple Platforms for SNP Analysis
- 11.15 – 11.45 a.m. WS 5 *I. Balazs* (Lifecodes Corporation, Stamford, CT, USA)
High throughput multiplex assays for mutation detection using a Flow Sorter Fluor analyzer
- 11.45 a.m. – 12.35 p.m. WS 6 *R. Wicki* (Applied Biosystems)
The Applied Biosystems technology portfolio for high-throughput genotyping and SNP screening
- 12.35 – 01.30 p.m. Lunch Break

Session 3: Real-time detection, mass-spec

Chair: *B. Budowle, A. Sajantila*

- 01.30 – 02.00 p.m. WS 7 *N. Thelwell* (Oswel Research Products Ltd)
Real-time PCR probe systems-New Developments in Scorpion Primers
- 02.00 – 02.30 p.m. WS 8 *R. Sosnowski* (Nanogen)
Electronic Based Systems for DNA Diagnostic, Pharmacogenomic, and Human Identificatrion Applications
- 02.30 p.m. – 03.00 p.m. WS 9 *S. Hahner* (Bruker Daltonik/Saxonia, Germany)
Strategies for SNP Genotyping by Mass Spectrometry
- 03.00 p.m. – 03.30 p.m. Coffee Break

Session 4: Experience of forensic labs in SNP analysis

Chair: *P.M. Schneider, R. Sosnowski*

- 03.30 p.m. – 04.00 p.m. WS 10 *A. Sajantila* (Helsinki, Finland)
The use of SNP-typing in Forensic Medicine
- 04.00 p.m. – 04.30 p.m. WS 11 *A. Carracedo* (Santiago de Compostela, Spain)
Typing SNPs with DNA microarrays

Session 5: Panel discussion

Chair: *P. Gill*

- 04.30 p.m. – 05.30 p.m. **Topics to discuss:**
- what are the favoured methods and why ?
 - how does SNP technology fit with STR technology ?
 - what are the implications for national DNA databases ?
 - what are the outstanding problems & benefits of SNP technology ?
 - summary of workshop discussion
- 06.00 p.m. **ISFG Board Meeting**
- 07.00 – 09.00 p.m. Foyer Congress Saal / Convention Hall
Welcoming Reception and Opening of the Industrial Exhibition

- 09.00 – 10.00 a.m. Congress Saal / Convention Hall
Official Welcome and Opening of the Congress
Congress President
ISFG President
Official invited speakers

Topical Lecture: ISFG Prize Presentation

Chairperson: *A. Carracedo*

Lutz Roewer, Institut für Rechtsmedizin, Humboldt-Universität Berlin, Germany: "The use of the Y chromosome in forensic genetics-current practices and future perspectives"
- 10.00 – 10.30 a.m. Coffee Break
- 10.30 a.m. – 01.00 p.m. Congress Saal / Convention Hall
Plenary session:
DNA Micro Arrays and Methodologies
Chairpersons: *Peter Gill, Peter Schneider*
- 10.30 – 11.15 a.m. **DNA Micro Arrays**
Ronald Sosnowski, Nanogen, San Diego
- 11.15 a.m. – 12.15 p.m. Short papers
- O1 *S. Rao-Coticone, P. Collins, P. Dimsoski, C. Ganong, L. Hennessy, C. Leibel, F. Shadravan, D. Reeder*
Applications of 5-Dye Technology in Forensic DNA Typing and Analysis
- O2 *P. Gill, J. Hussain, A. Long, L. Dixon, K. Hinton, J. Hughes, G. Tully*
Rapid preparation of SNP multiplexes utilising Universal Reporter Primers, and their detection by gel electrophoresis and micro-fabricated arrays
- O3 *A-M. Divne, Å. Lundström, U. Gyllensten, M. Allen*
A novel DNA microarray system for analysis of limited forensic evidence material
- O4 *T. Fröhlich, W. Pusch, S. Hahner, T. Wenzel, M. Kostrzewa*
Automated SNP Genotyping by MALDI-TOF Mass Spectrometry
- O5 *M. Osada, M. D. Ambrose, I. Balazs*
Genotyping for SNPs using a Multiplex detection assay
- O6 *M. Lareu, B. Sobrino, C. Phillips, M. Brión, A. Carracedo*
Typing Y chromosome SNPs with DNA microarray technology

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| 12.15 – 01.00 p.m. | Poster Presentation Session (15 selected posters) |
| 01.00 – 02.00 p.m. | Lunch Break |
| 02.00 – 05.00 p.m. | Congress Saal / Convention Hall Plenary session: Differentiation of ethnic groups and population studies Chairpersons: <i>Wolfgang Mayr, Chris Tyler-Smith</i> |
| 02.00 – 02.45 p.m. | Continental and subcontinental distributions of mtDNA control region types <i>Peter Forster, Cambridge</i> |
| 02.45 – 03.30 p.m. | Poster Presentation Session (15 selected posters) |
| 03.30 – 04.00 p.m. | Coffee Break |
| 04.00 – 05.00 p.m. | Short papers |
| | O7 <i>L. Pereira, V. Macaulay, M.J. Prata, A. Amorim</i> The differential slave trade to Europe and Brazil from the western and eastern African coasts as registered in the mtDNA pool |
| | O8 <i>M. Klintschar, S. Füredi, B. Egyed, B. Reichenpfader, M. Kleiber</i> Estimating the ethnic origin of individuals using Short Tandem Repeat loci of forensic relevance |
| | O9 <i>L. Pereira, M.J. Prata, A. Amorim</i> An evaluation of the proportion of identical Y-STR haplotypes due to recurrent mutation |
| | O10 <i>M. Brión, B. Quintáns, A. González-Neira, A. Salas, M. Lareu, A. Carracedo</i> Micro-geographic patterns of highly informative Y chromosome haplotypes (using biallelic markers and STRs) in Galicia (NW Spain): forensic and anthropological implications |
| | O11 <i>D. Syndercombe Court, D. Ballard, C. Phillips, C. Robson, C. Thacker</i> Comparison of Y Chromosome Haplotypes in Three Racial Groups and the Possibility of Predicting Ethnic Origin |
| | O12 <i>B. Budowle</i> Population Studies on 17 STR Loci Routinely Used in Forensic Analyses |
| 05.15 – 07.00 p.m. | Congress Saal / Convention Hall Paternity testing commission |
| 08.00 – 09.00 p.m. | Organ Recital - St. Lamberti |

Thursday, August 30

- 09.00 a.m. – 01.00 p.m. Congress Saal / Convention Hall
Plenary session: **Y- and X-Chromosome, mtDNA**
Chairpersons: *Michael Krawczak, Peter Forster*
- 09.00 – 09.45 a.m. Y-chromosomal DNA variation and human population history
Chris Tyler-Smith, Oxford
- 09.45 – 10.45 a.m. Short papers
- O13 *K. Bender, B. Stradmann-Bellinghausen, C. Rittner, P. M. Schneider*
Genotyping of 9 STR systems in combination with 11 diallelic polymorphisms on the Y-chromosome by fragment analysis and minisequencing
- O14 *L. Gusmão, A. González-Neira, C. Alves, A. Amorim, A. Carracedo*
Y chromosome Short Tandem Repeat polymorphisms:
A comparison between humans and chimpanzees
- O15 *R. Andreassen, J. Lundsted, B. Olaisen*
Allelic diversity and mutation at the hypervariable minisatellite locus DYF155S 1 (MSY-1)
- O16 *B. Berger, H. Niederstätter, S. Köchl, M. Steinlechner, W. Parson*
Male/female DNA mixtures: a challenge for Y-STR analysis
- O17 *J. M. Butler, R. Schoske, P. M. Vallone*
Highly Multiplexed Assays for Measuring Polymorphisms on the Y-Chromosome
- O18 *A. Caglià, M. Dobosz, I. Boschi, F. Scarnicci, P. Underhill, V. L. Pascali, C. Capelli*
High resolution analysis of male genomes by the addition of eight biallelic polymorphisms to the classic 8-STR forensic haplotype
- 10.45 – 11.15 a.m. Coffee Break
- 11.15 a.m. – 12.15 p.m. Short papers
- O19 *D. Athanasiadou, B. Stradmann-Bellinghausen, C. Rittner, P. M. Schneider*
Development of a tetraplex PCR system for the genetic analysis of X-chromosomal STR loci
- O20 *K. Dewa, N. Q. Tuyen, S. Rand, C. Hohoff, B. Brinkmann*
13 Y-chromosomal STRs in a Vietnamese population

- O21 *L. Abdin, K. Dewa, S. Rand, C. Hohoff, B. Brinkmann*
Haplotype frequencies for 13 Y-chromosomal STRs in an Arab population sample from Syria
- O22 *L. Pereira, V. Macaulay, M. J. Prata, A. Amorim*
Phylogeny of the mtDNA haplogroup U6: analysis of the sequences observed in North Africa and Iberia
- O23 *M. Allen, H. Andréasson, U. Gyllensten*
A novel mt-DNA coding and D-loop analysis for forensic identification based on pyrosequencing
- O24 *S. S. Mastana, P. Fisher, P. Singh, K. Das, N. Malik, M. Das, P. Reddy, P.H. Reddy*
Mitochondrial DNA (mtDNA) variation in Indian populations

12.15 – 01.00 p.m. Poster Presentation Session (15 selected Posters)

01.00 – 02.00 p.m. Lunch Break

02.00 – 03.35 p.m. Congress Saal / Convention Hall
Plenary session:
Physical traits, Mutations/ Chimerism
Chairperson: *Walter Bär, Christian Rittner*

02.00 – 02.45 p.m. Physical traits
Eugene Healy, Southampton

02.45 – 03.35 p.m. Short papers

- O25 *B. Glock, T. Wagner, E.M. Dauber, R. B. K. Reisacher, S. Stadlbacher, D. Tröscher, S.O. Rennhofer, G. Lanzer, W.R. Mayr*
Investigation of chimerism in a healthy, adult female by means of minisatellite and microsatellite typing
- O26 *T. M. Clayton, S. M. Hill, L. A. Denton, S. E. Watson, J. L. Guest, A. J. Urquhart, P. D. Gill*
Mutations and Aneuploidies : Their prevalence and impact on forensic casework
- O27 *E. M. Dauber, W. Bär, M. Klintschar, F. Neuhuber, W. Parson, B. Glock, W.R. Mayr*
Mutation rates at twenty-three different short tandem repeat loci
- O28 *E. M. Dauber, I. Faé, S. Stadlbacher, B. Glock, D. W. M. Schwartz, W. R. Mayr*
STR-typing in a pair of chimeric twins

O29 *J. J. Yunis, E. Yunis, N. Yu, M. Kruskall, O. Clavijo, Z. Hussain, J. Knoll, J. J. Yunis, E. J. Yunis*
Identification of a phenotypically normal tetragametic chimeric fertile woman by HLA and STR typing

03.35 – 04.00 p.m.

Coffee Break

04.00 – 05.15 p.m.

ISFG Working Party Meetings:

- Italian Speaking Group
- Japanese Speaking Group
- English Speaking Group
- Spanish/Portuguese Speaking Group

05.30 – 07.00 p.m. –

Congress Saal / Convention Hall
General Assembly ISFG

Friday, August 31

09.00 a.m. – 12.00 p.m.

Congress Saal / Convention Hall

Plenary session:

Degraded DNA, Databanks

Chairpersons: *Bjørnar Olaisen, Hermann Schmitter*

09.00 – 09.45 a.m.

Degraded DNA

Hendrik Poinar, Leipzig

09.45 – 10.35 a.m.

Short papers

O30 *C. Keyser, I. Clisson, I. Gemmerich, B. Ludes B, E. Crubezy, P. H. Giscard*

Megaplex analysis of a Mongolian population from the Egyin Gol site (300 B.C.- 200 A.D.)

O31 *A. Alonso, C. Albarrán, P. Martín, P. García, O. García, L. Fernández de Simón, M. Sancho*

Multiplex-PCR of short amplicons for mtDNA sequencing from ancient DNA

O32 *V. Pimenoff, M. Hedman, A. Sajantila*

DNA identification of World War II soldiers from skeletal remains by using mtDNA SSO hybridisation assay and mtDNA sequencing

O33 *K. W. P. Miller, B. L. Brown, B. Budowle*

The Combined DNA Index System

O34 *C. Frégeau, B. Leclair, K. Bowen, R. Fournay*
The National DNA Data Bank of Canada – A Laboratory Bench
Retrospective on the First Year of Operation

10.35 – 11.00 a.m.

Coffee Break

11.00 a.m. – 12.00 p.m.

Poster Presentation Session (20 selected Posters)

12.00 – 02.00 p.m.

Lunch Break

02.00 – 03.35 p.m.

Congress Saal / Convention Hall

Plenary session:

Statistics

Chairpersons: *Nils Morling, Max Baur*

02.00 – 02.45 p.m.

Statistical issues in Y-chromosomal microsatellite haplotyping

Michael Krawczak, Cardiff

02.45 – 03.35 p.m.

Short papers

O35 *C. Toni, S. Presciuttini, N. Cerri, F. De Stefano, I. Spinetti,
C. Vecchiotti, R. Domenici*

Four unusual cases of disputed paternity evaluated by a likelihood
ratio test based on the number of alleles shared identical by state
(IBS)

O36 *I. Dalen, T. Egeland*

On the Statistical Analysis of DNA Mixture Evidence

O37 *Charles H. Brenner*

Old family secrets exposed

O38 *A. P. Dawid, J. Mortera, M. Dobosz, V. L. Pascali*

Mutations, and the probabilistic approach to incompatible paternity
tests

O39 *S. Presciuttini, B. Bramanti, S. Hummel, B. Herrmann*

Assessing relationships in an ancient skeletal collection by the
number of alleles shared identical by state (IBS) among pairs of
individuals

03.35 – 04.00 p.m.

Coffee Break

04.00 – 06.00 p.m.

Congress Saal / Convention Hall

EDNAP/ENFSI open meeting

07.00 – 11.30 a.m.

Münsterland Dinner Party

Saturday, September 1

- 09.00 a.m. – 01.00 p.m. Weißer Saal / White Hall
Forensic Casework, Free Themes and Quality Arrangement
Chairperson: *G.F. Sensabaugh*
- 09.00 – 10.30 a.m. Short papers
- O40 *P. Wiegand, M. Klintschar*
Polymerase slippage in relation to the uniformity of tetrameric repeat stretches
- O41 *L. Henke, R. Biondi, W. Branicki, B. Budowle, K. Drobnic, P. H. van Eede, H. Felske-Zech, L. Fernández de Simón, C. Gagnor, L. Garafano, C. Gehrig, M. Kaeser, C. Luckenbach, N. Malik, M. Muche, W. Parson, D. Primorac, P.M. Schneider, J. Thomson, D. Vanek*
Evaluation of the STR Typing Kit PowerPlex16 with respect to Technical Performance and Population Genetics: A Multicenter Study
- O42 *A. Kloosterman, P. Kersbergen*
Efficacy and limits of genotyping low copy number (LCN) DNA samples by multiplex PCR of STR loci
- O43 *A. Lowe, C. Murray, P. Richardson, R. Wivell, P. Gill, G. Tully, J. Whitaker*
Use of Low Copy Number (LCN) DNA in Forensic Inference
- O44 *R. van Oorschot, D. Phelan, G. Scarfo*
Are you collecting all the available DNA from touched objects?
- O45 *S.A. Harbison, S. F. Petricevic, S. K. Vintiner*
The Persistence of DNA under Fingernails Following Submersion in Water
- O46 *H. Andréasson, M. Nilsson, U. Gyllensten, M. Allen*
Real-time DNA quantification of forensic evidence materials
- O47 *I. Plate, J. Edelmann, S. Hering, E. Kuhlisch, D. Krause, R. Szibor*
Chromosome X Haplotyping in Deficiency Paternity Testing – Principles and Case Report Presentation
- O48 *E. Sørensen, S. H. Hansen, B. Eriksen, N. Morling*
Removal of PCR inhibitors with Thiopropyl Sepharose 6B from a bone from a body emerged from the sea
- 10.30 – 11.00 a.m. Coffee Break

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| 11.00 – 11.45 a.m. | Poster Presentation Session (15 selected Posters) |
| 11.45 a.m. – 12.45 p.m. | Round Table: Quality Arrangement and discussion |
| | <p>O49 <i>R. W. Allen, A. Eisenberg, C. Harrison, R. H. Walker, C.T. Young, D.L. Zeagler, R. Roby, H. F. Polesky</i> Grading of qualitative and quantitative responses in the PI proficiency survey of the College of American Pathologists for mailings in 1997-2000.</p> <p>O50 <i>C. Hallenberg, N. Morling</i> Results of the 2001 Paternity Testing Workshop of the English Speaking Working Group</p> <p>O51 <i>S. Rand, M. Schürenkamp, B. Brinkmann</i> The GEDNAP blind trial concept</p> <p>O52 <i>J. Gómez, A. Alonso, O. García, A. Carracedo</i> The proficiency testing program on DNA typing of the Spanish and Portuguese Working Group of the International Society for Forensic Genetics (GEP-ISFG)</p> |
| 01.00 p.m. | Closing Session |

GENERAL INFORMATION

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| <i>Congress</i> | 19 th International Congress ISFG |
| <i>Organizer</i> | International Society for Forensic Genetics |
| <i>Congress President</i> | <p><i>Prof. Dr. med. Dr. h.c. Bernd Brinkmann</i> Institut für Rechtsmedizin Universitätsklinikum Münster Röntgenstraße 23 D-48149 Münster Tel. ++49 (0) 251 – 83 55 160 Fax ++49 (0) 251 – 83 55 158 e-mail: ISFG@uni-muenster.de</p> |
| <i>Congress Dates</i> | 28 th August – 1 st September 2001 |
| <i>Location</i> | Halle Münsterland Congress-Centrum Albersloher Weg 32 D-48155 Münster |

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| <i>Congress Web Site</i> | http://www.ISFG2001.de.vu | |
| <i>ISFG Board and Scientific Committee</i> | <i>Angel Carracedo</i> (Spain) <i>Bjornar Olaisen</i> (Norway) <i>Wolfgang Mayr</i> (Austria) <i>Niels Morling</i> (Denmark) <i>Peter Schneider</i> (Germany) | |
| <i>Congress language</i> | English – no simultaneous translation available | |
| <i>Congress Arrangement Committee</i> | <i>Steven Rand</i> <i>Heidi Pfeiffer</i> <i>Carsten Hohoff</i> <i>Alfred Du Chesne</i> | |
| <i>Poster Exhibition</i> | from 29 th August, 9.00 a.m. – Saturday 1 st September, 01.00 p.m. | |
| <i>Congress Management and Industrial Exhibition</i> | Kongress- und MesseBüro Lentzsch GmbH Seifgrundstr. 2, D-61348 Bad Homburg Tel. ++49 (0) 6172 – 67 96 0, Fax ++49 (0) 6172 – 67 96 26 e-mail: info@kmb-lentzsch.de | |
| <i>Industrial Exhibition</i> | From 28 th until 31 st August 2001 there is an industrial exhibition at the congress venue. | |
| <i>Registration</i> | | |
| | | before 01.06.2001 from 02.06.2001 |
| | Member ISFG | DM 390,00 DM 490,00 |
| | Non-Member | DM 490,00 DM 590,00 |
| | Students | DM 100,00 DM 150,00 |
| | Reduction of fees available upon presentation of valid certification only. Day passes are not available. | |
| | Workshop 28th August | DM 100,00 |
| <i>Opening hours registration</i> | 28 th – 30 th August 2001, | 8:00 a.m. – 6:00 p.m. |
| | 31 st August 2001, | 8:00 a.m. – 5:00 p.m. |
| | 1 st September 2001, | 8:00 a.m. – 1:00 p.m. |
| <i>Social Programme</i> | Tuesday 28 th August 2001, 7:00 – 9:00 p.m. Foyer Congress Saal / Convention Hall Welcoming Reception, free of charge. Wednesday 29 th August 2001, 8:00 – 9:00 p.m. St. Lamberti, Kirchherrngasse 3, Münster Organ Recital, free of charge. Friday 31 st August 2001, 8:00 – 12:00 p.m. Mühlenhof-Freilichtmuseum Shuttle bus from Hotel Sol Inn, Hotel Dorint and Hotel Mövenpick Münsterland Dinner Party including visit of historical farm houses DM 50,00 per person | |

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| <i>Payment</i> | Preferably by Bank cheque or Credit Card as stated in the registration form. |
| <i>Confirmation of Participation</i> | Upon receipt of payment you will receive the confirmation with your name tag as well as vouchers for the social programme, if booked. Please verify receipt of all vouchers you ordered. The conference fee includes admission to all scientific sessions and the opening ceremony (excluding the workshop). |
| <i>Cancellation Policy</i> | Pre-registered participants who are unable to attend will have their fee returned if written cancellation is received by Kongress- und MesseBüro Lentzsch before July 1, 2001. After July 1, 2001, a handling fee of 50% has to be retained. After August 4, 2001, all fees (registration and social event) are non-refundable. |
| <i>Liability</i> | Both the organizers and the Kongress- und MesseBüro Lentzsch GmbH act solely as agents and are not liable for losses, accidents or damages to persons or property, of whatever origin. |

Technical Details

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| <i>Slides & digital files</i> | <p>Only slides in the size 5 x 5 cm can be accepted. Since high resolution projectors will be available, the speaker is responsible for the quality of his slides.</p> <p>Some posters will be selected for a short (2 min) oral presentation during the congress. Therefore, please prepare a slide or a digital file (Powerpoint, on an electronic storage medium i.e., diskette, ZIP medium (100 MB), CD-ROM, DVD-ROM) with essential details which can be presented if required.</p> <p>The slides must be passed to the slide check 1 hour prior to the session. Speakers have a chance to check and assort their slides in the slide check.</p> <p>Kindly note that there is no opportunity for an overhead presentation in the convention hall.</p> <p>Double projection is possible.</p> <p>After the session is finished, speakers are kindly requested to collect their slides soonest from the slide check. After the congress, the congress organisation is not responsible for the return of lost material.</p> |
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Exhibitors' List

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| Abgene Advanced Biotechnol. Ltd. | D-20097 Hamburg |
| AGOWA Gesellschaft für molekularbiologische Technologie mbH | D-12489 Berlin |
| Applied Biosystems PE Deutschland GmbH | D-64331 Weiterstadt |
| Biometra GmbH | D-37079 Göttingen |
| Biotype AG | D-01109 Dresden |
| Bruker Daltonik GmbH | D-28359 Bremen |
| CAPTAIR-ERLAS D.F.S SA | F-27104 Val de Reuil Cedex / France |
| Eurogentec Deutschland GmbH | D-50667 Köln |
| GEN-IAL GmbH | D-53840 Troisdorf |
| GENOVISION Vertriebsges. mbH | A-1030 Wien |
| MACHEREY-NAGEL GmbH & Co. KG | D-62366 Düren |
| Nanogen Europe BV | DK-2970 Horsholm / Denmark |
| Promega GmbH | D-68199 Mannheim |
| Pyrosequencing AB | SE-75228 Uppsala/Sweden |
| Qbiogene | D-69123 Heidelberg |
| QIAGEN GmbH | D-40724 Hilden |
| Schleicher & Schuell GmbH | D-37586 Dessel |

The organizers wish to express their special gratitude to Applied Biosystems GmbH for generously supporting the 19th International ISFG Congress.