



Conference Schedule - Sunday

Registration Desk Open
8:00 am - 6:00 pm

9:00 - 10:30 am	Course 1 E103 Genetics 101: Practical advances in clinical genetic testing	Course 2 E102 Maternal screening: Advances, refinements and the future of maternal screening	
10:30 - 11:00 am	Networking and Beverage Break		
11:30 am - 12:00 pm	Course 1 Genetics 101: Practical advances in clinical genetic testing (continued)		Networking and Beverage Break
12:00 - 1:00 pm			Course 2 Maternal screening: Advances, refinements and the future of maternal screening (continued)
1:00 - 2:00 pm	Lunch on your own See Page 10 for restaurants.		
2:00 - 3:30 pm	Course 3 E102 Non-invasive prenatal diagnosis using cell free fetal nucleic acids: Laboratory aspects and clinical implementation	Course 4 E103 Prenatal ultrasound update	Course 5 E108 Fetal therapy: Fetal cardiac interventions
3:30 - 4:00 pm	Networking and Beverage Break		
4:00 - 6:00 pm	Course 3 Non-invasive prenatal diagnosis using cell free fetal nucleic acids: Laboratory aspects and clinical implementation (continued)	Course 4 Prenatal ultrasound update (continued)	Course 5 Fetal therapy: Fetal cardiac interventions (continued)



Monday, 12 July 2010

Registration Desk Open
7:00 am - 6:00 pm

	Forum		8:00 - 9:30 am Poster One Set-up Ruby Lounge
8:30 - 10:15 am	<p style="text-align: center;">Opening Plenary Session</p> <p style="text-align: center;">Featuring Keynote Speaker, Lord Naren Patel <i>Genomics medicine: The future</i></p>		
	<p style="text-align: center;">Controversies in Prenatal Diagnosis One</p> <p style="text-align: center;">Is stem cell therapy ready for human fetuses?</p>		9:30 am - 5:00 pm Poster One and Exhibits available for viewing in Forum Lounge and Ruby Lounge
10:15 - 10:45 am	<p style="text-align: center;">Networking and Beverage Break Forum Lounge and Ruby Lounge</p>		
	Forum	E104 - 107	
10:45 am - 12:45 pm	<p style="text-align: center;">Session 1</p> <p style="text-align: center;">Fetal therapy: Surgical approach</p>	<p style="text-align: center;">Session 2</p> <p style="text-align: center;">Ethical issues in prenatal diagnosis</p>	
12:45 - 2:15 pm	<p style="text-align: center;">Poster Lunch One</p> <p style="text-align: center;">Networking with Posters and Exhibitors Forum Lounge and Ruby Lounge</p>		
	Forum	E104 - 107	
2:15 - 4:30 pm	<p style="text-align: center;">Session 3</p> <p style="text-align: center;">Preimplantation genetic diagnosis</p>	<p style="text-align: center;">Session 4</p> <p style="text-align: center;">Fetal imaging and anomalies</p>	
4:30 - 5:00 pm	<p style="text-align: center;">Networking and Beverage Break Forum Lounge and Ruby Lounge</p>		
	Forum		
5:00 - 6:00 pm	<p style="text-align: center;">Controversies in Prenatal Diagnosis Two</p> <p style="text-align: center;">Down syndrome screening: Is ultrasound better than cell-free nucleic acids in maternal blood?</p>		
6:30 - 8:30 pm	<p>Welcome Reception at the Strandzuid "Party Beach" (adjacent to the RAI) See Page 13 for details.</p>		



Tuesday, 13 July 2010

Registration Desk Open
7:00 am - 6:00 pm

8:30 - 9:30 am	Forum		8:00 - 9:30 am Poster Two Set-Up Ruby Lounge	
	Controversies in Prenatal Diagnosis Three Is conventional analysis (karyotyping and FISH) necessary in the post array CGH era?			
9:30 - 10:00 am	Networking and Beverage Break Forum Lounge and Ruby Lounge		9:30 am - 4:30 pm Poster Two and Exhibits available for viewing in Forum Lounge and Ruby Lounge	
	Forum	E104 - 107		
10:00 am - 12:30 pm	Session 5 Fetal cells and cell-free nucleic acids in maternal circulation	Session 6 Stem cells and early development		
12:30 - 2:00 pm	Poster Lunch Two Networking with Posters and Exhibitors Forum Lounge and Ruby Lounge Federation of National Societies Meeting <i>National Society Presidents and Representatives invited (E104 - 107)</i>			
	Forum	E104 - 107		
2:00 - 4:00 pm	Session 7 Molecular and classical cytogenetics (Part 1)	Session 8 Prenatal screening for fetal anomalies (Part 1)		
4:00 - 4:30 pm	Networking and Beverage Break Forum Lounge and Ruby Lounge			
	Forum	E104 - 107		
4:30 - 5:30 pm	Session 9 Molecular and classical cytogenetics (Part 2)	Session 10 Prenatal screening for fetal anomalies (Part 2)		4:30 - 6:00 pm Poster Two Removal Ruby Lounge



Wednesday, 14 July 2010

Registration Desk Open
7:00 am - 5:00 pm

8:00 - 9:00 am	Special Interest Group Meetings Rooms E102 - E108 Coffee and Tea provided See Page 17 for details.	8:00 am - 4:45 pm Exhibits available for viewing in Forum Lounge
	Forum	
9:00 - 10:00 am	Controversies in Prenatal Diagnosis Four Does industry sponsorship accelerate or hinder the pace of research?	
10:00 - 10:30 am	Networking and Beverage Break Forum Lounge and Ruby Lounge	
	Forum	
10:30 am -12:25 pm	Session 11 Genome wide analysis in prenatal diagnosis	
12:25 - 1:00 pm	Presentation of the 2008 and 2009 Malcolm Ferguson-Smith awards	
1:00 - 1:45 pm	Networking Lunch - Forum Lounge	
	Forum	
1:45 - 2:30 pm	General Business Meeting ISPD Members and Prospective Members Welcome	
2:30 - 4:45 pm	Session 12 Fetal therapy: Innovative non-surgical approach	



Sunday, 11 July 2010 - Preconference Courses

9:00 am - 1:00 pm (includes 30 min break) **E103**

Course 1

Genetics 101: Practical advances in clinical genetic testing

Course Organizer: Diana Bianchi (USA)

A case-based approach to genetic diagnostics in 2010: Laurie Demmer (USA)

Introduction to DNA microarrays: Lisa Shaffer, PhD (USA)

What's new with the 'diagnosis' in preimplantation genetic diagnosis: Joyce Harper (UK)

Current and future recommendations regarding pre-conceptual and prenatal screening for single gene disorders: Yuval Yaron (Israel)

9:00 am - 1:00 pm (includes 30 min break) **E102**

Course 2

Maternal screening: Advances, refinements and the future of maternal screening

Course Organizers: Tak Yeung Leung (Hong Kong), Peter Benn (USA) and Peter Schielen (Netherlands)

Session 1

Guidelines and standards for screening: Peter Benn (USA)

QC and QA for NT, other ultrasound and serum markers: Mark Evans (USA)

New serum markers for aneuploidy, NTD and other fetal abnormalities: Wendy Koster (Netherlands)

Diagnosis of rare disorders identified through screening: Richard Choy (Hong Kong)

Session 2

Screening of preeclampsia: Howard Cuckle, MD (UK)

Repeat measures and highly correlated markers: David Wright (UK)

Will noninvasive prenatal diagnosis replace screening? Tak Yeung Leung (Hong Kong)

1:00 - 2:00 PM

Lunch on Your Own

Dining Near the RAI

Strandzuid, located behind the RAI, between Halls 7 and 8. Exit Building E, turn left and proceed straight ahead toward the canal.

Brasserie Amsterdam, attached to the RAI, is 200 meters from Entrance E near Entrance L of the RAI.

2:00 - 6:00 pm (includes 30 min break) **E102**

Course 3

Noninvasive prenatal diagnosis using cell free fetal nucleic acids: Laboratory aspects and clinical implementation

Course Organizer: Lyn Chitty (UK)

Introduction and Welcome: Lyn Chitty (UK)

Noninvasive prenatal diagnosis using cell free fetal nucleic - technical aspects: Bernhard Zimmerman (USA)

Optimising extraction of cfDNA: Martin Horlitz, (Germany)

Noninvasive prenatal diagnosis for RH, Kell and other blood types: Ellen van der Schoot (Netherlands)

Noninvasive prenatal diagnosis for genetic conditions - current clinical practice: Lyn Chitty (UK)

Noninvasive prenatal diagnosis of aneuploidy: Technical considerations: Rossa Chiu (Hong Kong)

Direct-to-consumer testing using cell-free nucleic acids in maternal blood: Diana Bianchi (USA)

2:00 - 6:00 pm (includes 30 min break) **E103**

Course 4

Prenatal Ultrasound Update

Course Organizers:

Anthony Odibo (USA) and Antoni Borrell (Spain)

Introduction: Antoni Borrell (Spain)

First trimester ultrasound: Beyond aneuploidy screening? C.M. Bilardo (Netherlands)

Role of second-trimester ultrasound in an era of universal first trimester screening: Anthony Odibo (USA)

Update on 3-D ultrasound in fetal cardiac evaluation: Monique Haak (Netherlands)

2:00 - 6:00 pm (includes 30 min break) **E108**

Course 5

Fetal Therapy: Fetal Cardiac Interventions

Course Organizers:

Dick Oepkes (Netherlands) and Roland Devlieger (Belgium)

Why fetal cardiac interventions? Anita J. Moon-Grady (USA)

The Boston experience: Louise Wilkins-Haug (USA)

The Linz experience: Wolfgang Arzt

Other centers' experience (Toronto, Buenos Aires, San Francisco, others)

In utero intervention for fetal cardiac anomalies
Fetal balloon valvuloplasty since 2000: Experience of the world's largest centers

Expert forum, short introductory presentation and discussion round table



Monday, 12 July 2010

8:30 - 9:15 am

Forum

Opening Plenary Session

Welcome from ISPD President, Diana Bianchi (USA)

Keynote Presentation

Genomics medicine: The future, Lord Naren Patel (UK)

9:15 - 10:15 am

Forum

**Controversies in Prenatal Diagnosis One
Is stem cell therapy ready for human fetuses?**

Moderator: Karen Sermon (Belgium)

FOR: Magnus Westgren (Sweden)

AGAINST: Christine Mummery (Netherlands)

10:15 - 10:45 am

Forum Lounge and Ruby Lounge

Networking and Beverage Break with Posters and Exhibitors

10:45 am - 12:45 pm

Forum

10:45 am - 12:45 pm

E104 - 107

Session 1: Fetal Therapy: Surgical approach

Moderators: Jan Deprest (Belgium) and Annemieke Middeldorp (Netherlands)

10:45 - 11:05 am

Prenatal treatment for congenital bladder neck obstruction: Is there a role? Mark Kilby (UK)

11:05 - 11:25 am

New and/or improved aspects of fetal surgery: François Luks (USA)

Abstract Presentations**1-1 11:25 - 11:40 am***In vitro* and *in vivo* studies of lentiviral-mediated gene transfer in fetal sheep trachea: Luc Joyeux (France)**1-2 11:40 - 11:55 am**

Pre-operative predictors of death in twin-twin transfusion syndrome treated with laser ablation of placental anastomoses: Daniel Skupski (USA)

1-3 11:55 am - 12:10 pm

Efficacy of OK-432 pleurodesis in fetal chylothorax: Ming Chen (Taiwan)

1-4 12:10 - 12:25 pm

Impact of early versus late tracheal occlusion: A nitrofen rat model for congenital diaphragmatic hernia: Veronika Beck (Belgium)

1-5 12:25 - 12:40 pm

Remifentanyl and fetal stress hormone changes during intrauterine transfusions: A randomised double blind placebo-controlled trial: Phebe Adama van Scheltema (Netherlands)

Session 2: Ethical issues in prenatal diagnosis

Moderators: Florencia Petracchi (Argentina) and Sigrid Sterckx (Belgium)

10:45 - 11:05 am

Recent advances in personal genome testing: Cecile Janssens (Netherlands)

11:05 - 11:25 am

Ethical dilemmas: When will total genome analysis play a role in prenatal diagnoses? Guido de Wert (Netherlands)

Abstract Presentations**2-1 11:25 - 11:40 am**

Non-invasive prenatal genetic testing: A study of public attitudes: Susan Kelly (UK)

2-2 11:40 - 11:55 am

Prospective comparison of array-based copy number analysis (array) to karyotyping for prenatal diagnosis: Counseling aspects: Ronald Wapner (USA)

2-3 11:55 - 12:10 pm

A survey to explore what women want to know about their baby's chromosomes during pregnancy: Marleen Susman (Australia)

2-4 12:10 - 12:25 pm

Parents' perspective of unexpected fetal sex chromosomal aneuploidy: Jacqueline Pieters (Netherlands)

2-5 12:25 - 12:40 pm

Patients' preferences for rapid aneuploidy detection (RAD) and karyotyping in prenatal diagnosis: Elisabeth Boormans (Netherlands)



Monday, 12 July 2010

12:45 - 2:15 pm

Forum Lounge & Ruby Lounge

Poster Lunch One: Networking with Posters and Exhibitors
See Page 22 for poster listings.

2:15 - 4:30 pm

Forum

2:15 - 4:30 pm

E104 - 107

Session 3: Preimplantation genetic diagnosis

Moderators: Joyce Harper (UK) and Inge Liebaers (Belgium)

2:15 - 2:35 pm

Update on PGD for chromosomal abnormalities: Carmen Rubio (Spain)

2:35 - 2:55 pm

PGD for monogenic diseases: Update on technologies, indications and outcomes: Martine De Rycke (Belgium)

Abstract Presentations

3-1 2:55 - 3:10 pm

Preimplantation diagnosis of monogenic diseases in GENNET: Martina Putzova (Czech Republic)

3-2 3:10 - 3:25 pm

Rapid prenatal diagnosis of sickle cell and thalassaemia by pyrosequencing: John Old (UK)

3-3 3:25 - 3:40 pm

Multiplex ligation-dependent probe amplification: Useful tool for prenatal diagnosis of steroid sulfatase deficiency: Sylvie Langlois (Canada)

3-4 3:40 - 3:55 pm

Use of array CGH on single lymphoblastoid cells towards noninvasive prenatal diagnosis of chromosomal abnormalities: Ignatia Van den Veyver (USA)

3-5 3:55 - 4:10 pm

Cytogenetic abnormalities detected by G-banding and aCGH in POC specimens at a national reference laboratory: Boris Wang (USA)

3-6 4:10 - 4:25 pm

MLPA for rapidly distinguishing between unique sequence positive and negative marker chromosomes: Diane Van Opstal (Netherlands)

Session 4: Fetal imaging and anomalies

Moderators: John Van Vugt (Netherlands) and Douglas Wilson (Canada)

2:15 - 2:35 pm

What is the best fetal imaging technique to diagnose skeletal dysplasias? Deborah Krakow (USA)

2:35 - 2:55 pm

3D ultrasound in obstetrics: Lessons learned and the way forward: Karim Kalache (Germany)

Abstract Presentations

4-1 2:55 - 3:10 pm

New aids to the prenatal diagnosis of skeletal dysplasias: Asma Khalil (UK)

4-2 3:10 - 3:25 pm

Light scattering spectroscopic signatures reliably distinguish fetal from adult nucleated red blood cells: Lev Perelman (USA)

4-3 3:25 - 3:40 pm

The NT chip: Current status: Eugene Pergament (USA)

4-4 3:40 - 3:55 pm

Assessing inter-examiner agreement in diagnosing cardiac defects by telemedicine using four-dimensional ultrasound: Chantal Tromp (Netherlands)

4-5 3:55 - 4:10 pm

Mono-chorionic twins discordant for congenital heart disease: A referral center's experience and possible patho-physiologic mechanisms: Fayeza AlRais (UAE)

4-6 4:10 - 4:25 pm

Fetal cerebral blood flow in congenital diaphragmatic hernia: Jan Deprest (Belgium)

4:30 - 5:00 pm

Forum Lounge & Ruby Lounge

Networking and Beverage Break with Posters and Exhibitors



Monday, 12 July 2010

5:00 - 6:00 pm

Forum

Controversies in Prenatal Diagnosis Two

Down syndrome screening: Is ultrasound better than cell-free nucleic acids in maternal blood?

Moderator: Jan van Lith (Netherlands)

FOR ULTRASOUND: Beryl Benacerraf (USA)

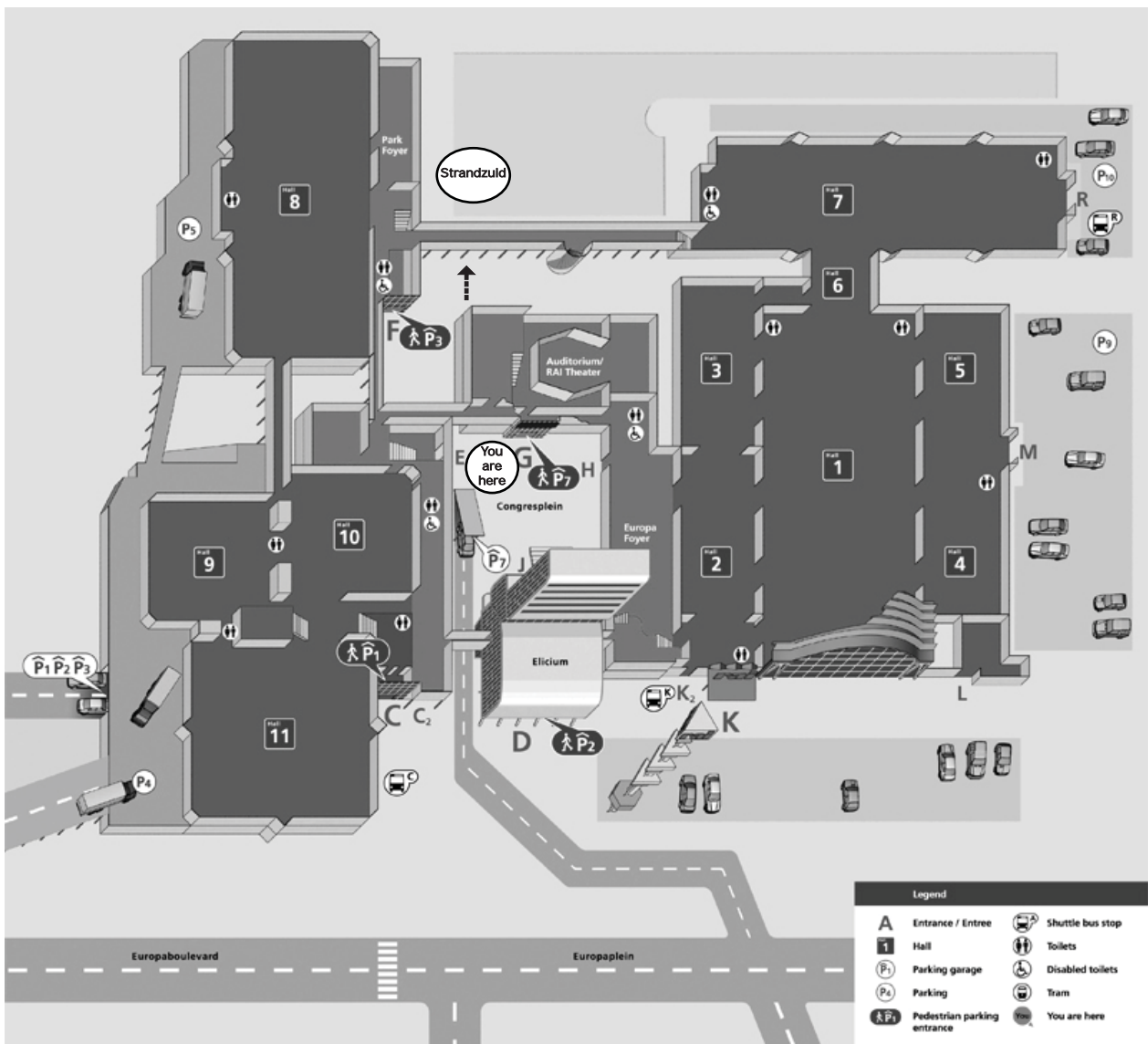
FOR NUCLEIC ACIDS: Simcha Yagel (Israel)

6:30 - 8:30 pm

Welcome Reception at the Strandzuid "Party Beach"

Strandzuid is located behind the RAI, between Halls 7 and 8. Exit Building E, turn left and proceed straight ahead toward the canal.

Light hors d'oeuvres will be served and a cash bar will be available.





Tuesday, 13 July 2010

8:30 - 9:30 am

Forum

Controversies in Prenatal Diagnosis Three

Is conventional analysis (karyotyping and FISH) necessary in the post array CGH era?

Moderator: The-Hung Bui (Sweden)

FOR: Lisa Shaffer (USA)

AGAINST: Orsetta Zuffardi (Italy)

9:30 - 10:00 am

Forum Lounge & Ruby Lounge

Networking and Beverage Break with Posters and Exhibitors

10:00 am - 12:30 pm

Forum

10:00 am - 12:30 pm

E104 - 107

Session 5: Fetal cells and cell-free nucleic acids in maternal circulation

Moderators: Dennis Lo (Hong Kong) and Agathe Go (Netherlands)

10:00 - 10:20 am

DNA or RNA: Which is better for noninvasive diagnosis of aneuploidy? Dennis Lo (Hong Kong)

10:20 - 10:40 am

Non-invasive aneuploidy detection using methylation-sensitive amplification and microarray analysis: Stephen Brown (USA)

Abstract Presentations

5-1 10:40 - 10:55 am

Novel insights into the pathogenesis of common aneuploidies using genomic analysis of amniotic fluid mRNA: Keiko Koide (USA)

5-2 10:55 - 11:10 am

Maternal cytotoxic T-cell responses to fetal antigens during and after pregnancy: David Lissauer (UK)

5-3 11:10 - 11:25 am

Epigenetic-genetic chromosome dosage approach for fetal trisomy 21 diagnosis using an autosomal genetic reference marker: Yu K. Tong (Hong Kong)

5-4 11:25 - 11:40 am

Non-invasive prenatal diagnosis of fetal sex: Impact on clinical practice, costs and cost-effectiveness: Melissa Hill (UK)

5-5 11:40 - 11:55 am

Systematic search for placental microRNA markers in maternal plasma: Macy M.S. Heung (Hong Kong)

5-6 11:55 am - 12:10 pm

Neonatal saliva: A noninvasive source of information regarding global developmental gene expression: Jill Maron (USA)

5-7 12:10 - 12:25 pm

Prediction of preeclampsia by cellular mRNA in the blood of pregnant women at 15-20 weeks: Akihiko Sekizawa (Japan)

Session 6: Stem cells and early development

Moderators: Sicco Scherjon (Netherlands) and Karen Sermon (Belgium)

10:00 - 10:20 am

Cell (pre)-destiny in the human preimplantation embryo and implications for IVF and PGD: Hilde Van de Velde (Belgium)

10:20 - 10:40 am

The role of germline and early embryo DNA methylation dynamics in normal fetal development: Jacquetta Trasler (Canada)

Abstract Presentations

6-1 10:40 - 10:55 am

Embryonic stem cells and induced pluripotent stem cells: models to study early events in neurodevelopment: Victor Rafuse (Canada)

6-2 10:55 - 11:10 am

Temporal and developmental variation in the occurrence of mitotic errors in human preimplantation embryos: Eleni Mantikou (Netherlands)

6-3 11:10 - 11:25 am

Fetal cells in murine maternal lung with well-defined characteristics and preferential location: pregnancy-associated progenitor cells? Kirby Johnson (USA)

6-4 11:25 - 11:40 am

Structural analysis of the placental epigenome at its maternal interface: David Peters (USA)

6-5 11:40 - 11:55 am

iPS cell therapy of genetic diseases following prenatal diagnosis: Y. W. Kan (USA)

6-6 11:55 am - 12:10 pm

Detection of submicroscopic-chromosomal abnormalities in fetuses with increased nuchal translucency but normal karyotyping using array-CGH: Tak Yeung Leung (Hong Kong)



Tuesday, 13 July 2010

12:30 - 2:00 pm

Forum Lounge & Ruby Lounge

Poster Lunch Two: Networking with Posters and Exhibitors
See Page 24 for poster listings.

Federation of National Societies Meeting (E104 - 107)*National Society Presidents and Representatives invited.*

An inaugural meeting of national and regional societies for prenatal diagnosis or allied organizations. All registrants are welcome to participate, as official representatives or just to learn more about plans as they develop.

2:00 - 4:00 pm

Forum 2:00 - 4:00 pm

E104 - 107

Session 7: Molecular and classical cytogenetics (Part 1)

Moderators: Martin Breuning (Netherlands) and Christine de Die- Smulders (Netherlands)

2:00 - 2:20 pm

CNVs and structural rearrangements in the human genome: Charles Lee (USA)

2:20 - 2:40 pm

Array CGH in prenatal diagnosis: Joris Vermeesch (Belgium)

Abstract Presentations**7-1 2:40 - 2:55 pm**

Chromosomal anomaly spectrum in recurrent miscarriages with normal parental karyotype: Mònica Martínez-Terrón (Spain)

7-2 2:55 - 3:10 pm

BACs OnBeads™ for rapid detection of fetal microdeletions and aneuploidies: Validation study on prenatal samples: Francesca Grati (Italy)

7-3 3:10 - 3:25 pm

Molecular karyotyping of prenatal samples using oligonucleotide-based array CGH: A technical feasibility study: Christel Eckmann-Scholz (Germany)

7-4 3:25 - 3:40 pm

Antibiotic prophylaxis before second-trimester genetic amniocentesis (APGA): A single-centre open randomised controlled trial: Pietro Cignini (Italy)

7-5 3:40 - 3:55 pm

Clinical validity of karyotyping for the diagnosis of genomic imbalance following array comparative genomic hybridization: Jean Gekas (Canada)

Session 8: Prenatal screening for fetal anomalies (Part 1)

Moderators: Aubrey Milunsky (USA) and Kevin Spencer (UK)

2:00 - 2:20 pm

Fetus-specific risk estimation in twins: Howard Cuckle (UK)

2:20 - 2:40 pm

What can the first trimester scan tell us? Douglas Wilson (Canada)

Abstract Presentations**8-1 2:40 - 2:55 pm**

3-D ultrasound of the fetal ear and fetal trisomies 18 and 21: New screening method: Norman Ginsberg (USA)

8-2 2:55 - 3:10 pm

Incidence of live born children with Down syndrome in the tidewater region 1994 - 2009: Steven Warsof (USA)

8-3 3:10 - 3:25 pm

Stability of first trimester screening markers for fetal chromosomal anomalies in dried blood spots: Nicholas Cowans (UK)

8-4 3:25 - 3:40 pm

Use of fetal nuchal translucency in the first trimester to predict single-gene disorders: Marta Arigita (Spain)

8-5 3:40 - 3:55 pm

Nuchal translucency quality review: Comparison of different methods for ongoing audit: Antoni Borrell (Spain)

4:00 - 4:30 pm

Forum Lounge & Ruby Lounge

Networking and Beverage Break with Posters and Exhibitors



Tuesday, 13 July 2010

4:30 - 5:30 pm

Forum

4:30 - 5:30 pm

E104 - 107

Session 9: Molecular and classical cytogenetics (Part 2)

Moderators:

Sylvie Langlois (Canada) and Joris Vermeesch (Belgium)

Abstract Presentations

9-1 4:30 - 4:45 pm

De novo SMCs detected on 123.304 prenatal diagnoses: Chromosomal distribution and characterization combining molecular-cytogenetics approaches: Francesca Malvestiti (Italy)

9-2 4:45 - 5:00 pm

A bead array approach for rapid, cost-effective, high throughput detection of fetal microdeletions and aneuploidies: Susan Gross (USA)

9-3 5:00 - 5:15 pm

Prenatal molecular cytogenetic analysis should be performed on mesenchymal core rather than on cytotrophoblast cells: Robert Saura (France)

9-4 5:15 - 5:30 pm

Retrospective analysis of prenatal samples with sonographic anomalies using genome-wide BAC array CGH: Simona De Toffol (Italy)

Session 10: Prenatal screening for fetal anomalies (Part 2)

Moderators:

Howard Cuckle (UK) and Jan Van Lith (Netherlands)

Abstract Presentations

10-1 4:30 - 4:45 pm

Cost-effectiveness and missed significant chromosome abnormalities of rapid-testing versus karyotyping in Down syndrome screening programs: David van den Berg (Netherlands)

10-2 4:45 - 5:00 pm

The effect of oral antidiabetic agents on maternal serum alpha-fetoprotein levels in diabetic pregnancies: Nicole Sprawka (USA)

10-3 5:00 - 5:15 pm

Differential proteomics analysis of amniotic fluid in pregnancies of increased nuchal translucency with normal karyotype: S.W. Steven Shaw (Taiwan)

10-4 5:15 - 5:30 pm

Previous miscarriage as a risk factor for Down syndrome: Florencia Petracchi (Argentina)

6:00 - 7:00 pm

E102



Workshop Sponsored by PerkinElmer

PerkinElmer's novel multiplexed bead-based assay for targeted molecular diagnostics

Speakers:

Dr. Francesca Grati, TOMA, Advanced Biomedical Assays

Dr. José A. Horcajadas, iGenomix

R&D Director Mack Schermer from PerkinElmer.

Session chaired by Dr. Lisa Shaffer from Signature Genomics Laboratories, a PerkinElmer company.

This workshop is sponsored by PerkinElmer as an exhibitor ancillary event. This does not imply endorsement or support by ISPD of the event, organizer or products/services presented.



Wednesday, 14 July 2010

8:00 - 9:00 am

First Floor

Special Interest Group Meetings

Laboratory Techniques - E103

The mission of the Laboratory Techniques Special Interest Group is to advance the art and science of all aspects of the various laboratory techniques in use in fetal diagnosis, including validation and implementation of new techniques, and the ethical and psychosocial issues that accompany them. The group preconference course has been organized, dealing with fetal nucleic acids in the maternal plasma. During the meeting we will discuss future plans and meetings proposals.

Prenatal Maternal Screening - E102

The Prenatal Maternal Screening Special Interest Group aims to foster and encourage the provision of clinically useful and scientifically valid prenatal screening and encourage the development and provision of prenatal screening for clinically serious genetic disorders, other congenital malformations or disorders, and pregnancy complications.

Fetal Ultrasound - E104

The Fetal Ultrasound Special Interest Group will discuss and review suggestions on how to improve future preconference courses related to ultrasound. In addition, the group will review avenues of increasing the awareness of *Prenatal Diagnosis* as a journal dedicated to improving knowledge and developments involving obstetrical ultrasound.

Invasive Procedures - E108

The Invasive Procedures SIG is meant to serve as a forum for clinicians and investigators to share experiences and ideas and to develop personal and professional relationships among health care professionals whose interests and expertise is focused on the performance of invasive prenatal techniques. After introductions at the meeting, we will encourage a discussion concerning the current state of invasive prenatal diagnosis, including the procedures performed, the timing of such procedures, and the characterization of pre-procedure counseling as well as the availability of post-procedure interventions. Afterwards, a discussion will be led that will assess the future of invasive procedures given the recent advances in fetal cell/DNA/RNA in maternal serum technologies. Finally, any opportunities for collaborative investigations among the members will be considered.

Fetal Therapy - E107

The Fetal Therapy Special Interest Group aims to openly discuss hot topics in this field, including but not limited to: centralisation, learning curve, teaching and quality control of fetal surgery procedures, new developments, the future of fetal therapy, international collaboration, networks, and ISPD committee and preparations for the ISPD 2012 Conference.

9:00 - 10:00 am

Forum

Controversies in Prenatal Diagnosis Four

Does industry sponsorship accelerate or hinder the pace of research?

Moderator: Andre van Steirteghem (Belgium)

FOR: Gajus Worthington (USA)

AGAINST: Sigrid Sterckx (Belgium)

10:00 - 10:30 am

Forum Lounge

Networking and Beverage Break with Exhibitors



Wednesday, 14 July 2010

10:30 am - 12:25 pm

Forum

Session 11: Genome wide analysis in prenatal diagnosis

Moderator: Diana Bianchi (USA)

Abstract Presentations

12-6 10:30 - 10:45 am

Prospective blinded comparison of microarray-based copy number analysis to karyotyping for prenatal diagnosis:
Technical aspects: Ronald Wapner (USA)

11-1 10:45 - 11:00 am

CNV atlas of human development: A tool for clinical interpretation of CNVs in prenatal diagnosis:
Ronald Wapner (USA)

Invited Speakers

11:00 - 11:20 am

Preeclampsia: Kenneth Ward (USA)

11:20 - 11:40 am

Preterm birth: Craig Pennell (Australia)

Abstract Presentations

11-2 11:40 - 11:55 am

The supplementary value of array-CGH diagnostics in intrauterine fetal death: Katelijne Bouman (Netherlands)

11-3 11:55 am - 12:10 pm

Genome wide 250k SNP array analysis for diagnosing pregnancies with ultrasound anomalies:
Brigitte Faas (Netherlands)

11-5 12:10 - 12:25 pm

Routine use of prenatal array CGH in the clinical laboratory: Our experience with 664 cases:
Amy Breman (USA)

12:25 am - 1:00 pm

Forum

Presentation of the 2008 and 2009 Malcolm Ferguson-Smith Awards

Congratulations to the winners of the 2008 and 2009 Malcolm Ferguson-Smith awards! Presented by John Wiley & Sons, Ltd.

2008 winner:

Dr. Olivier Picone (France) "Comparison between ultrasound and magnetic resonance imaging in assessment of fetal cytomegalovirus infection"

2009 winner:

Dr. Tianjiao Chu (United States) "A microarray-based approach for the identification of epigenetic biomarkers for the noninvasive diagnosis of fetal disease" (Dr. David Peters will accept the award on behalf of Dr. Chu.)

1:00 - 1:45 pm

Forum Lounge

Networking Lunch with Exhibitors

1:45 - 2:30 pm

Forum

General Business Meeting

ISPD Members and Prospective Members Welcome, See Page 20 for meeting agenda.



Wednesday, 14 July 2010

2:30 - 4:45 pm

Forum

Session 12: Fetal therapy: Innovative non-surgical approach

Moderator: Dick Oepkes (Netherlands)

2:30 - 2:50 pm

The genomic approach: Donald Peebles (UK)

2:50 - 3:10 pm

The stem cell approach: Nick Fisk (Australia)

Abstract Presentations

12-1 3:10 - 3:25 pm

Congenetic *in utero* transplantation of lentivirus transduced amniotic fluid stem cells preferentially engraft in liver:
S.W. Steven Shaw (Taiwan)

12-2 3:25 - 3:40 pm

Betamethasone intramuscularly and neonatal respiratory distress in cases of term elective Cesarean section:
Alexandria experience: Aly Kholeif (Egypt)

12-3 3:40 - 3:55 pm

Intrauterine delivery of AAV efficiently transduces the liver and CNS in the non-human primate fetus:
Citra Mattar (Singapore)

12-4 3:55 - 4:10 pm

The fetal "well-being" assay: Multiplex RT-PCR of amniotic fluid RNA to examine lung-associated gene expression:
Lauren Massingham (USA)

12-5 4:10 - 4:25 pm

Periconceptual recreational drug use is associated with a variety of fetal malformations: Lyn Chitty (UK)

11-4 4:25 - 4:40 pm

The relevance of array CGH findings in pregnancies with major ultrasound anomalies and normal fetal karyotype:
K.D. Lichtenbelt (Netherlands)

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