Scientific Program

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| 10 May 2015- Sunday |
|  | 08:30 | Pre-Congress Course |  |
|  |  |  | Next generation technologies for PGD and 24-chromosome aneuploidy testing | Sponsored by Illumina (invite only) |
|  | 14:00 | Illumina Focus Group | Sponsored by Illumina (invite only) |
|  | 17:00 | PGDIS Board Meeting | By Invitation Only |
|  | 19:00 | Welcome Reception | Museum of Contemporary Art (MCA)220 E Chicago Ave, Chicago, IL 60611 |
| 11 May 2015- Monday, Day 1 |
|  | 08:30 | Opening of PGDIS 2015 |  |
|  |  |  | Welcome | KahramanS (Turkey) |
|  |  |  | Introduction | KulievA (US) |
|  | 08:45 | Opening Plenary Lecture |  |
|  |  |  | PGD’s 25 Year Journey: What is next? | Handyside H (UK) |
|  | 09:15 | Keynote Lecture |  |
|  |  |  | Noninvasive prenatal diagnosis of single gene disorders using maternal plasma: a synergistic approach for preimplantation genetic diagnosis? | Lo D (China) |
|  | 09:45 | Session 1: Clinical PGD |  |
|  |  | Chairs: Simpson JL (US) &Schulman L(US) |
|  |  | 09:45 | Future Clinical Strategies in PGD to further Improve its Effectiveness and Outcome | Simon C (Spain) |
|  |  | 10:15 | Controversial Issues in Clinical PGD and Use of RCS for Evaluation of its Reproductive Outcome | Scott R (US) |
|  |  | 10:45 | Discussion |  |
|  | 11:00 | Coffee Break |  |
|  | 11:30 | Session 2: Embryological Aspects and Biopsy Procedures |
|  |  | Chairs: Cohen J (US) |  |
|  |  | 11:30 | What is impact of embryo biopsy and PGD on IVF outcome: making the most of what you have | Leigh D (Australia) |
|  |  | 11:50 | Is there a place for time-lapse imaging in PGD/PGS? | Montag M (Germany) |
|  |  | 12:10 | Discussion | Cohen J (US) |
|  | 12:30 | Lunch |  |
|  | 13:30 | Session 3: Free Communications |  |
|  |  | Chairs: Kearns W (US) & Gordon A (UK) |  |
|  |  | 13:30 | Sub-chromosomal aberrations contributes to a significant proportion of preimplantation aneuploidy | Xu KP et al. (US) |
|  |  | 13:45 | Validation of next generation sequencing (NGS) for detection ofwhole chromosome aneuploidy in human preimplantation embryos | Ribustello L et al. (US) |
|  |  | 14:00 | Clinical outcome of preimplantation genetic diagnosis for single-gene disorders could be improved with simultaneous comprehensive chromosome screening. | Cervero A et al. (Spain, US) |
|  |  | 14:15 | Diminished ovarian reserve and aneuploidy | Zander-Fox D et al. (Australia) |
|  |  | 14:30 | Embryonic aneuploidy rates in natural and stimulated IVF cycles do not differ within the same cohort of patients: an interim analysis | Christopikou D et al.(Greece) |
|  |  | 14:45 | Mitochondrial DNA load does not correlate with aneuploidy in cleavage stage human embryos | Altarescu G et al.(Israel) |
|  |  | 15:00 | Preliminary characterization of cell-free DNA in spent culture medium and a non-invasive medium-based testing for screening embryos of patients with α-thalassemias–SEA carriers for preimplantation genetic diagnosis  | Wu H et al. (China) |
|  |  | 15:15 | Concurrent whole-genome haplotyping and copy number profiling of single cells | Esteki MZ et al. (Belgium) |
|  | 15:30 | Coffee Break & Poster Viewing |  |
|  | 16:00 | Session 4: Workshop on Complicated Problems in PGD |  |
|  |  | Moderated by Rechitsky S (US) &Leigh D (Australia) |  |
|  |  |  | Selected Abstracts | Rechitsky S (US),Xie S (China), Jasper M (Australia), Marshall J (Thailand), Zlatopolsky Z (US) |
|  | 18:00 | Close of Day 1 |  |
|  | 19:00 | Speaker Dinner | Ruth's Chris Steak House431 N. Dearborn St., Chicago, IL 60654 |
| 12 May 2015- Tuesday, Day 2 |
|  | 09:00 | Plenary Lecture |  |
|  |  | Chair: Martin R (Canada) |  |
|  |  |  | Genetic Instability in Preimplantation Development | Vermeesch J and Voet T(Belgium) |
|  | 09:30 | Session 5: Molecular PGD |  |
|  |  | Chairs: Wells D (UK) &Rechitsky S (US) |  |
|  |  | 09:30 | Next generation sequencing | Wells D (UK) |
|  |  | 09:50 | CCS without WGA | TreffN (US) |
|  |  | 10:10 | Karyomapping: a universal linkage-based method for diagnosis of single gene defects combined with high resolution molecular cytogenetics | Handyside A (UK) |
|  |  | 10:30 | Towards Universal PGD of single gene and chromosomal disorders | Rechitsky S (US) &Kuliev A (US) |
|  | 10:50 | Coffee Break |  |
|  | 11:15 | Session 6: Free Communications |  |
|  |  | Chairs: Griffin DK (UK) &Xu KP (US) |  |
|  |  | 11:15 | Aneuploidies detected using Karyomapping are confirmed by arrayCGH | Stock-Myer S et al. (Australia) |
|  |  | 11:30 | PGD Karyomapping and direct mutation analysis for patients with de novo single gene disorder | Horak J et al. (Czech Republic) |
|  |  | 11:45 | Karyomapping as an excellent tool to study the occurrence and origin of aneuploidy in human IVF embryos | Hornak M et al. (Czech Republic) |
|  |  | 12:00 | Karyomapping – clinical implications of single gene defects evaluation and aneuploidy screening in one test | Vesela K et al. (Czech Republic) |
|  |  | 12:15 | Human leukocyte antigen (HLA) matching of preimplantation embryos – using conventional and new methodologies to process clinical cases | Konstantinidis M et al. (US, UK) |
|  |  | 12:30 | Evaluating the Analytical Accuracy of a Novel Next Generation Sequencing-based Approach to Pre-Implantation Genetic Screening | Umbarger M et al. (US) |
|  |  | 12:45 | Validation of next generation sequencing for preimplantation genetic screening –concordant result on copy number variation but discordant result on the segmental change. | Chow JFC et al. (China) |
|  |  | 13:00 | Validation of a next-generation sequencing-based protocol for the diagnosis of reciprocal translocations in human embryos | Biricik A et al. (Italy) |
|  | 13:15 | Lunch |  |
|  | 14:00 | Session 7: Reproductive Outcome of PGD |  |
|  |  | Chairs: Munne S (US) &Scott R (US) |  |
|  |  | 14:00 | 18,000 cycles of PGS with array CGH: abnormalities detected and pregnancy outcomes | Munne S (US) |
|  |  | 14:20 | Clinical validation of copy number variation sequencing for pre-implantation genetic diagnosis of chromosomal abnormalities | Cram D (Australia) |
|  |  | 14:40 | A critical view on how to advise patients for Preimplantation Genetic Diagnosis and Preimplantation Genetic Screening | Zech NH (Austria) |
|  |  | 15:00 | Development, validation and clinical application of a next-generation sequencing-based protocol for 24-chromosome aneuploidy testing of embryos | Fiorentino F (Italy) |
|  |  | 15:15 | Discussion | HartonG (US) &Thornhill A (UK) |
|  | 15:30 | Coffee Break |  |
|  | 16:00 | Session 8: PGD for HLA: Transplantation Outcome and Patient Perspectives |
|  |  | Chairs: Strom C (US) &HartonG (US) |  |
|  |  | 16:00 | Ethical Issues in the Use of Preimplantation Genetics for HLA Matching for Transplants | Strom C (US) |
|  |  | 16:10 | Follow-up of HLA Compatible Transplantation after PGD | KahramanS (Turkey) |
|  |  | 16:30 | Egg donation and IVF with PGD for HLA matching (ED-PGD-HLA): overcoming maternal reproductive and genetic limitations by half-matched egg donor | Tur-Kaspa I (US) |
|  |  | 16:40 | Meeting Radically Treated Patients with the Use of PGD Assisted Stem Cell Transplantation |  |
|  | 17:30 | PGDIS Business Meeting |  |
|  | 18:00 | Close of Day 2 |  |
|  | 19:00 | Conference Dinner | Odyssey Cruise, Navy Pier[600 E Grand Ave, Chicago, IL 60611](http://www.bing.com/maps/default.aspx?cp=41.89214~-87.60835&where1=Odyssey%20Cruises&ss=ypid.YN873x131183383&FORM=SNAPST) |
| 13 May 2015- Wednesday, Day 3 |
|  | 09:00 | Session 9 & 10: Free Communications- Parallel Sessions |
|  |  |  | Conference Theatre Chairs: Cram D (Australia) | Kanter RoomChairs: Thornhill A (UK) |
|  |  | 09:00 | Can chromosome abnormalities be induced by the ART process? | Munne S et al. (US) | Outcome of PGD for translocation depending on type, maternal age and day of biopsy. | Escudero TA et al. (US) |
|  |  | 09:15 | Identification of mosaic embryos as a strategy to increase the chances for in vitro fertilization patients with no available euploid blastocysts | Spinella F et al. (Italy) | Reproductive outcome in translocation carriers | Pomante A et al. (Italy) |
|  |  | 09:30 | The challenge of translocation associated imbalance detection: taking PGS to the limit | Laitinen-Forsblom PJ et al.(Germany) | Comprehensive chromosomal screening in translocation carriers and investigation of interchromosomal effect | Beyazyurek C et al.(Turkey) |
|  |  | 09:45 | Why Preimplantation Genetic Screening (PGS) improves clinical outcome in couples with low sperm counts? Impact of spermaneuploidy | Rodrigo L et al.(Spain) | Preliminary assessment of aneuploidy rates between the plural, mid and mural trophectoderm | Stankewicz-McKinney TL et al.(US) |
|  |  | 10:00 | Clinical application of next-generation sequencing for detection of aneuploidy in human blastocysts | Tormasi S et al.(US) | Validating two published morphokinetic models to predict aneuploidy in an independent dataset | Pirkevi C et al. (Turkey) |
|  |  | 10:15 | Investigation into the impact of oligospermia in male translocation carriers on the production of unbalanced embryos in PGD cycles | Lynch C et al. (UK) | Abnormal Cleavage Events Can Be Predictive of Blastocyst Formation and Aneuploidy: A Pilot Study.  | Whitney JB et al. (US) |
|  |  | 10:30 | Advantages of triplet repeat expansion detection in blastocyst biopsies for preimplantation genetic diagnosis of Fragile X syndrome. | Prates R et al. (US) | Preimplantation genetic diagnosis combining with noninvasive prenatal testing by maternal plasma sequencing in a case of congenital deafness with mutations in GJB2 gene | Huang SX et al.(China) |
|  |  | 10:45 | Telomere length in human oocytes and cleavage stage embryos: a potential indicator of reproductive potential | Jaroudi S et al. (UK) | The cleavage stage bovine embryo is a valuable model for the study of chromosome instability in early mammalian embryogenesis. | Destouni A et al. (Belgium) |
|  | 11:00 | Coffee Break |  |
|  | 11:30 | Session 11: PGD Future and Late Breaking News |
|  |  | Chairs: Handyside A (UK) &Gianaroli L (Italy) |  |
|  |  |  | Blastocentesis: Why not | Gianaroli L (Italy) |
|  |  |  | Non-Invasive Preimplantation Genetic Diagnosis of X-Linked Disorders | Hamamah S (France) |
|  |  |  | A detailed assessment of the biological and clinical impact of mitochondrial genome variation in human embryos | Fragouli E (UK) |
|  |  |  | A Competent Blastocyst- The Molecular Signature | Katz-Jaffe MG (US) |
|  |  |  | Late Breaking News |  |
|  | 12:45 | Concluding Remarks & Announcements for PGDIS 2016 |
|  | 13:00 | Close of PGDIS 2015 |  |