Scientific Program

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 House 431 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	Cram D (Australia)

		of chromosomal abnormalities	
	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

13 May 2015- Wednesday, Day 3

09:00 Session 9 & 10: Free Communications- Parallel Sessions

	Conference Theatre Chairs: Cram D (Australia)		Kanter Room Chairs: 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	Laitinen-Forsblom PJ et	Comprehensive chromosomal screening in translocation carriers and	Beyazyurek C et

		limit	al.(Germany)	investigation of interchromosomal effect	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