Wednesday May 16 th Hotel Mercure		
8.00-10.00	Registration for Pre-congress Workshops and Meetings	
17.00-19.00	Registration for PGDIS 2012	
Pre-congress W Coffee and lunc	Orkshops and Meetings h provided	
8.30-12.00	1. Array CGH (organised by Tony Gordon, BlueGnome Ltd)	
	 Setting up a laboratory for PGS – equipment and logistic requirements Which sample to biopsy and practical considerations for running PGS aCGH software analysis Reciprocal translocations/ Robertsonian translocations/Inversions – what imbalances can aCGH be used to detect in PGS? An introduction to karyomapping 	
	2. Gamete and embryo vitrification (organised by Pierre Vanderzwalmen, Bregenz)	
	 Basic aspects of cryobiology (Vanderzwalmen Pierre, IVF Centers Prof. Zech) Vitrification: Answers to FAQ (Vanderzwalmen Pierre, IVF Centers Prof. Zech) Immediate and longer term effects of vitrifiction on blastomere viability, cell division and embryo development (Chatzimeletiou Katarina, Papageorgiou General Hospital, Thessaloniki, Greece) Clinical application of oocyte and embryo vitrification in the closed system (Wirleitner Barbara, IVF Centers Prof. Zech) Vitrification of trophectoderm-biopsied blastocysts (Stecher Astrid, IVF Centers Prof. Zech) Hands-on workshop on aseptic Vitrisafe vitrification Closing remarks 	
12.00-14.00	Lunch	
14.00-18.00	3. Time-Lapse and Blastocyst Culture for Embryo Selection (organised by Astrid Stecher, Bregenz)	
	Theoretical Session • Time-Lapse analysis: What is known from the literature?	

18.00-20.00	PGDIS Board Meeting
	User presentations
	 24sure V3 protocol and BlueFuse Multi V3.0 software updates Karyomapping update
	5. 24Sure User Group Meeting (organised by Tony Gordon, BlueGnome Ltd)
	Responding to referees comments
	society)
	 Common reasons for rejection Focussed topic (plagiarism or topic most relevant to the host affiliated
	• Intro
	4. Free RBM Online-Writing Workshop
	Nicolas Zech, IVF Centers Prof. Zech (Bregenz, Austria)
	blastocyst stage. Let's ask the experts.
	Petra Baborova, IVF Centers Prof. Zech (Pilsen, Czech Republic) • Established criteria in embryo scoring vs. Time-Lapse analysis to the
	Questionable events in embryo development.
	Astrid Stecher & Johannes Wogatzky, IVF Centers Prof. Zech (Bregenz, Austria)
	Pierre Vanderzwalmen, IVF Centers Prof. Zech (Bregenz, Austria) • The role of lifestyle factors.
	• Contribution of the paternal factors on embryo development.
	blastocyst stages. Astrid Stecher, IVF Centers Prof. Zech (Bregenz, Austria)
	 Maximilian Schuff, IVF Centers Prof. Zech (Bregenz, Austria) Influence of culture conditions on embryo development up to the

Thursday May 17 th		
8.15	Introduction and welcome	
	Renee Martin (Calgary, Canada) President, PGDIS	
	Nicolas Zech (Bregenz, Austria) Congress President	
	Alan Handyside (London, UK) Chairman, Scientific Committee	
Plenary sessi	on (1)	
New develop	oments in preconception testing and prenatal diagnosis	
Chaired by Jo	Chaired by Joe Leigh Simpson (Miami, USA) & Anver Kuliev (Chicago, USA)	
8.30	P1 Preconception testing by next generation sequencing	
	Stephen Kingsmore (Kansas City, USA)	
9.15	P2 Prenatal diagnosis in the era of the personal genome	
	Joris Vermeesch (Leuven, Belgium)	
10.00-10.30	Coffee	
Session (1)		
The polar bo	dies of the oocyte: insights into meiosis and maternal genetic defects	
Chaired by Sv	vetlana Rechitsky (Chicago, USA) & Renee Martin (Calgary, Canada)	
10.30	S1 Polar body based PGD for genetic and chromosomal disorders	
	Anver Kuliev (Chicago, USA)	
11.00	S2 Why are human eggs so often aneuploid? A novel hypothesis from	
	chromosome cohesion.	
_	Nobuaki Kudo (London, UK)	
11.30	S3 Polar body biopsy and array CGH for aneuploidy in advanced maternal	
	age	
	Markus Montag (Heidelberg, Germany)	
12.00	S4 The use of polar bodies and cumulus cells to assess oocytes and select	
	embryos	
	Elpida Fragouli (Oxford, UK)	
12.30-14.00	Lunch	
	communications (1)	
Chaired by D	arren Griffin (Canterbury, UK) & Alan Thornhill (London, UK)	
14.00	O1 Polar body 1, polar body 2 and blastomere analysis in PGS treatment	
	¹ Fishel, S., ¹ Cater, E., ¹ Lynch, C., ¹ Jenner, L., ² Campbell, A.	
	¹ CARE Fertility, Nottingham, ² CARE Fertility, Manchester, UK	
14.20	O2 Altered morphokinetic parameters of embryos identified as aneuploid by	
	single cell array CGH analysis at the 8-cell stage	
	^{1*} Davies, S, ¹ Christopikou, D, ¹ Tsorva, E, ¹ Karagianni, T, ¹ Mastrominas, M and	
	1,2Handyside, AH	
	¹ Embryogenesis, Assisted Reproduction Unit, Athens, Greece and ² Institute of	
	Integrative and Comparative Biology, Faculty of Biological Sciences, University	
	of Leeds, Leeds, UK	
14.40	O3 Aneuploidy screening reveals high incidence of abnormalities of	
	chromosomes which are not involved in the rearrangements	
	Beyazyurek C ¹ ., Cinar Yapan C ¹ ., Ekmekci G.C ¹ ., Yesil M. ¹ , Altın G. ² , Yelke H.K. ² ,	

	Kahraman S ³ .
	¹ Istanbul Memorial Hospital Reproductive Genetics Center, ² Istanbul
	Memorial Hospital IVF Unit, ³ Istanbul Memorial Hospital Endocrinology, IVF
	and Reproductive Genetics Center, Istanbul, Turkey
15.00	O4 Preimplantation Genetic Diagnosis (PGD) for chromosomal
	rearrangements (CR) using arrays of comparative genome hybridization
	(aCGH). Risk assessment depending on the type of CR, the maternal age and
	the sex of the carrier.
	Jiménez-Macedo A ^a , Garcia-Guixé E ^a , EscuderoT ^b , Colls P ^b , Munné S ^b ,
	Giménez C ^a , Sandalinas M ^a
	^a Reprogenetics Spain SA., Barcelona, Spain,
	^b Reprogenetics, Livingston, New Jersey, USA
15.20	O5 Determination of mutation loads in preimplantation embryos to assess
	the effectiveness of preimplantation genetic diagnosis (PGD) for
	mitochondrial DNA (mtDNA) inherited disorders
	Laura Irving ^{1, 2} , L. Craven ^{1, 2} , C. Alston ^{1, 2} , S. Byerley ³ , R.W. Taylor ^{1, 2} , M.
	Herbert ^{2,3} & D.M. Turnbull ^{1,2}
	¹ Mitochondrial Research Group, Institute for Ageing and Health, ² Institute of
	Ageing and Health, Newcastle University, ³ Newcastle Fertility Centre,
	International Centre for Life, Newcastle upon Tyne, UK
15.40	O6 Homozygous mutations and haplotype backgrounds; implications for
15.40	PGD
	Dr Pamela Renwick ¹ , Dr Heema Patel ¹ , Dr Yakoub Khalaf ¹ , Dr Reem Al-
	Dabbous ² , Dr Caroline Ogilvie ¹ .
	¹ Centre for Preimplantation Genetic Diagnosis, Guy's and St Thomas' NHS
	Foundation Trust, London, UK, ² Al Soor Clinic & Genetics Laboratory, Kuwait
	City, Kuwait
16.00-16.30	Tea
	pics in clinical PGD (1)
	emra Kahraman (Istanbul, Turkey) & Samir Hamamah (Montpellier, France)
16.30	S5 What about mitochondrial biopsy?
10.30	Luca Gianaroli (Bologna, Italy)
16.55	S6 Polar body analysis by array CGH and follow up at cleavage stages
10.55	Dimitra Christopikou (Athens, Greece)
17.20	S7 TBC
17.20	Santiago Munne (Livingstone, NJ, USA)
17.45	S8 PGD for de novo mutations
17.43	Svetlana Rechitsky (Chicago, USA)
18.10	S9 PGD and HLA matching: a clinical update
10.10	Semra Kahraman (Istanbul, Turkey)
10 20 10 20	
18.30-19.30	Poster session
20.30	Invited Speakers Dinner

Plenary session (2) From zygote to blastocyst: the establishment of cell lineages Chaired by Alan Handyside (London, UK) 8.30 P3 Prepatterning in the mammalian embryo Magda Zernica-Goetz (Cambridge, UK) 9.15 P4 The establishment of cell lineages in the human preimplantation embryo
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Hilde Van de Velde (Brussels, Belgium)
10.00-10.30 Coffee
Session (2)
The cleavage and blastocyst stage embryo: the evolving genome
Chaired by Leeanda Wilton (Melbourne, Australia) & Alan Thornhill (London, UK)
10.30 S10 Cleavage stage and blastocyst biopsy
Alan Handyside (London, UK)
10.50 S11 Chromosomal mosaicism in the cleavage stage embryo revisited
Leeanda Wilton (Melbourne, Australia)
11.15 S12 Chromosomal instability in the human preimplantation embryo
Thierry Voet (Leuven, Belgium and Cambridge, UK)
11.40 S13 PGD for aneuploidy and translocation chromosome imbalance by
cleavage stage biopsy
Francesco Fiorentino (Rome, Italy)
12.05 S14 Blastocyst biopsy for aneuploidy testing
Dagan Wells (Oxford, UK)
12.30-14.00 Lunch
Invited oral communications (2)
Chaired by Francesco Fiorentino (Rome, Italy) & Dagan Wells (Oxford, UK)
14.00 O7 Assessment of 669 embryos and Clinical Outcome from 113 cycles using
Array CGH of Blastomeres
Veselá, K. ^{1,2} , Horňák, M. ^{1,2,3} , Horák, J. ^{1,3} , Oráčová, E. ^{1,2} , Hromadová, L. ¹ ,
Veselý, J. ^{1,2} , Trávník, P. ^{1,2} , Rubeš, J ^{1,2,3} .
¹ REPROMEDA Brno, ² GENPROGRESS, Brno, ³ Veterinary research institute,
Brno, Czech Republic
14.20 O8 Accuracy rates in biopsies performed on day-3 and day-5 embryos using
CGHarray technology for PGS
Mir, P ¹ ; Rodrigo, L ¹ ; Mateu, E ¹ ; Mercader, A ² ; Escrich, L ² ; Buendía, P ² ; Delgado,
A ² ; Poo, M.E. ² ; Vera, M ¹ ; Simón, C ^{1, 3} and Rubio, C ¹ .
¹ PGD Unit. IVIOMICS, ² IVF Lab. IVI-Valencia,
³ Medical Unit. IVI-Valencia, Valencia, Spain
14.40 O9 Mosaicism in Blastocyst stage Embryos
Barahona P, Traversa M, Leigh D ¹ and McArthur S
Genea, Sydney, Australia
15.00 O10 Use of next generation sequencing technology is feasible for current
PGD with fresh embryo transfer

	KP Xu ^a , AR Victor ^a , CH Zhang ^a , H Jiang ^b , XC Li ^b , XQ Zhang ^b , HM Yang ^b and Z Rosenwaks ^a .
	^a Center for Reproductive Medicine, Weill Cornell Medical College of Cornell University, New York, NY, USA, ^b BGI, Shenzhen, China
15.20	
15.20	O11 Blastocyst Trophoderm Cells Screening by Massively Parallel
	Sequencing for Aneuploidy and Imbalanced Chromosomal Arrangements
	Detection
	Xuyang Yin ¹ , Ke Tan ² , Chunlei Zhang ¹ , Shengpei Chen ¹ , Chunsheng Zhang ¹ , Xiaoyu Pan ¹ , Xuchao Li ¹ , Fang Chen ¹ , Hui Jiang ¹ , Ge Lin ² , Guangxiu Lu ^{2#} and Xiuqing Zhang ^{1#}
	1. BGI-Shenzhen, Shenzhen, Guangdong, 2. Institute of Reproductive & Stem
	Cell Engineering, Central South University, Reproductive & Genetic Hospital,
	Changsha, Hunan, China, 410078
15.40	O12 Non-Invasive Prenatal Diagnosis of Congenital Adrenal Hyperplasia
	Maria I. New, Oksana Lekarev, Tony Yuen, and Y. M. Dennis Lo
16.00-16.30	Tea
Advanced to	pics in clinical PGD (2)
Chairs: Luca (Gianaroli and Cristina Magli (Bologna, Italy)
16.30	S15 EQA for new diagnostic technologies
	Alan Thornhill (London, UK)
17.00-18.00	Debate
	Polar body, cleavage stage or blastocyst biopsy for aneuploidy testing?
	Cristina Magli (Bologna, Italy), Dimitra Christopikou (Athens, Greece), Leeanda
	Wilton (Melbourne, Australia), Dagan Wells (Oxford, UK), Nathan Treff
	(Morristown, USA), Don Leigh (Sydney, Australia)
18.00-18.30	PGDIS Annual General Meeting
18.00-19.30	Poster session (2)
20.00	Gala Conference Dinner

Saturday N	Saturday May 19 th		
Plenary session (3)			
Chaired by Nicolas Zech (Bregenz, Austria) & Joe Leigh Simpson (Miami, USA)			
8.30	P5 The challenge of genome wide analysis in clinical practice?		
	Markus Hengstschläger (Vienna, Austria)		
9.15	P6 Non-invasive prenatal diagnosis using free fetal DNA		
	Dennis Lo (Hong Kong, China)		
10.00-10.30	10.00-10.30 Coffee		
Session (3)			
The challeng	e of genomic technologies and next generation sequencing		
Chaired by A	lan Handyside (London, UK) & Joe Leigh Simpson (Miami, USA)		
10.30	Karyomapping as a means of universal diagnosis and providing insight into		
	early human development		
	Darren Griffin (Canterbury, UK)		
11.00	The application of bioinformatics to genetic testing for the detection of		
	human aneuploidy and genotyping		
	Matthew Rabinowitz (Redwood City, CA, USA)		
11.30	Four hour 24 chromosome aneuploidy screening		
	Nathan Treff (Morristown, USA)		
12.00	Cost effective prevention of inherited disease by IVF and PGD		
	Ilan Tur Kaspa (Chicago, USA)		
12.30	Closing remarks		
13.00-14.00	Lunch		