

## “WHY SHOULD I ATTEND?”

**The Congress focuses on Innovation in Preconception, Preimplantation and Prenatal Genetic Diagnosis, including:**

- The use of Next Generation Sequencing for expanded preconception carrier screening
- Technology options for clinics with a review of strategies for evaluation of chromosome copy number in human embryos and oocytes
- Advances in Preimplantation Genetic Diagnosis (PGD) and the latest data on Preimplantation Genetic Screening (PGS)
- Non-invasive Prenatal Testing (NIPT) and Non-invasive Prenatal Diagnosis (NIPD)
- From Chromosomal Microarrays (CMA) to Whole Exome Sequencing (WES) in the evaluation of the malformed fetus
- Controversies in this burgeoning area of clinical practice

**The CoGEN Congress** is a part of the Virtual Academy of Genetics (VAoGEN), whose mission is to disseminate educational material on Reproductive Genetics to healthcare providers around the world and to provide a forum for the exchange of knowledge and ideas.

Sincerely,



**Simon Fishel**  
Co-Chair



**Yuval Yaron**  
Co-Chair



**Toni Borrell**  
Co-Chair



## SCIENTIFIC PROGRAM

Saturday, September 16, 2017

<b>08:30-10:15</b>	<b>Session 1: Introduction – Genetics 101</b>  Chairs: <b>Simon Fishel</b> , UK; <b>Yuval Yaron</b> , Israel; <b>Toni Borrell</b> , Spain
08:30-08:45	Welcome <b>Simon Fishel</b> , UK and <b>Toni Borrell</b> , Spain
08:45-09:15	Basic genetic principles for the non-geneticist <b>Yuval Yaron</b> , Israel
09:15-09:45	Update on Laboratories Technologies <b>Vincenzo Cirigliano</b> , Spain
09:45-10:15	The origin of aneuploidy <b>Eugene Pergament</b> , USA
10:15-10:45	<i>Coffee Break and Poster Viewing</i>
<b>10:45-11:45</b>	<b>Session 2: Preimplantation Genetic Diagnosis (PGD)</b>
10:45-11:15	Co-screening for single gene disorders and aneuploidy screening <b>Rebekah S. Zimmerman</b> , USA
11:15-11:45	Non-inherited chromosomal and genomic abnormalities in human embryos and how to prevent them <b>Santiago Munne</b> , USA
<b>11:45-13:15</b>	<b>Industry-Sponsored Lunch Symposium</b> (more information below)

13:15-14:00	<i>Break</i>
<b>14:00-15:30</b>	<b>Session 3: Introduction to Preimplantation genetic screening (PGS)</b>
14:00-14:30	Making sense of PGS: EBM, RCTs, mosaicism and reconciling the two sides <b>Darren Griffin, UK</b>
14:30-15:00	Results of the Virtual Academy of Genetics (VAoGEN) questionnaire on mosaicism in PGS <b>Ariel Weismann, Israel</b>
15:00-15:30	Evidence based scoring system for prioritizing mosaic aneuploid embryos for transfer <b>Francesca Grati, Italy</b>
15:30-16:00	<i>Coffee Break and Poster Viewing</i>
<b>16:00-16:30</b>	<b>Session 4: Preimplantation genetic screening (PGS)</b>
	Chairs: <b>Simon Fishel, UK</b>
16:00-16:30	Rapid genomic screening of embryos using Nanopore sequencing <b>Dan Turner, UK</b>
<b>16:30-18:00</b>	<b>Session 5: Debate on PGS Technology: Targeted vs. Whole genome approach</b>
16:30-18:00	Targeted NGS – <b>Nathan Treff, USA</b> qPCR – <b>Antonio Capalbo, Italy</b> <i>versus</i> aCG – <b>Josh Blazek, USA</b> NGS – <i>TBA</i>
18:00-19:00	Informal meet & greet between Faculty and Participants

Sunday, September 17, 2017

<b>08:30-10:00</b>	<b>Session 6: New Genetic Technologies</b>
	Chair: <b>Toni Borrell, Spain</b>
08:30-09:00	Expanded Carrier Screening <i>TBA</i>
09:00-09:30	Expanded Carrier Screening <b>James Goldberg, USA</b>

09:30-10:00	Genome Editing Optimizations: Implications for Pre- and Post-Implantation Genetics <b>Gerald Schatten, USA</b>
10:00-10:30	<i>Coffee Break &amp; Poster Viewing</i>
<b>10:30-12:00</b>	<b>Session 7: Prenatal diagnosis</b>  Chair: <b>The-Hung Bui, Sweden</b>
10:30-11:00	Prenatal application of whole exome sequencing (WES) <b>Mark Kilby, UK</b>
11:00-11:30	Counseling issues for fetal whole exome sequencing (WES) <b>Mark Kilby, UK</b>
11:30-12:00	Lessons learned from postnatal diagnostics: phenotype-driven penetrance analysis in the assignment of disease liability of genetic variants <b>Milan Macek, Czech Republic</b>
<b>12:00-13:15</b>	<b>Session 8: Prenatal diagnosis – non-invasive prenatal screening (NIPS)</b>  Chair: <b>Toni Borrell, Spain</b>
12:00-12:25	NIPD for single-gene disorders <b>Fiona McKay, UK</b>
12:25-12:50	Cell based non-invasive prenatal screening <b>Ripudaman Singh, Denmark</b>
12:50-13:15	NIPS for microdeletions; an update <b>Peter Benn, UK</b>
13:15-14:00	<i>Lunch Break</i>
<b>14:00-15:45</b>	<b>Session 9: Prenatal diagnosis</b>  Chair: <b>Howard Cuckle, UK</b>
14:00-14:25	Follow-up of PGD pregnancies <b>Alastair Suthcliffe, UK</b>
14:25-14:50	Genetic workup of recurrent miscarriages <b>The-Hung Bui, Sweden</b>
14:50-15:15	Comprehensive and nondirective prenatal diagnosis <b>Toni Borell, Spain</b>
15:15-15:45	<i>TBA</i>

15:45-16:15	<i>Coffee Break &amp; Poster Viewing</i>
<b>16:15-17:45</b>	<b>Session 10: Genetics in reproduction</b> Chairs: <b>Simon Fishel</b> , UK and <b>Yuval Yaron</b> , Israel
16:15-16:40	Genetics of primary ovarian failure <b>Micheline Misrahi</b> , France
16:40-17:05	Endometrial receptivity test for implantation failure RCT results <i>TBA</i>
17:05-17:30	<i>TBA</i>
17:30-17:45	Closing remarks <b>Yuval Yaron</b> , Israel