

4th International Meeting on Cell-Free DNA, cfDNA2019

Preliminary program

DAY 1

8.00 – REGISTRATION

8.25 – OPENING by Frederik Banch Clausen

8.30 – NON-INVASIVE PRENATAL TESTING OF FETAL ANTIGENS

Non-Invasive Prenatal Testing of Fetal Antigens

Prof. Ellen van der Schoot (Amsterdam, The Netherlands)

Non-Invasive Prenatal Testing and Fetal Genotyping for Atypical Blood Group Antigens in Alloimmunised Women: Partitioning Power of Droplet Digital PCR

Ass. Prof. Catherine Hyland (Brisbane, Australia)

Non-Invasive Prenatal Testing of Fetal Antigens by NGS

Dr. Agnieszka Orzinska (Warsaw, Poland)

10.20 – Coffee Break

10.50 – NON-INVASIVE PRENATAL TESTING OF FETAL ANTIGENS

(continued)

Recommendations for the Validation of any Novel NIPD RhD Assay

Prof. Dr. Tobias J Legler (Göttingen, Germany)

Oral Presentations

A. A New Biosensor for Noninvasive Determination of Fetal *RHD* Status in Maternal Blood of RhD Negative Pregnant Women **Ebru DüNDAR Yenilmez** (Turkey)

B. A National Fetal *RHD* Screening Test to Guide Antenatal Rhlg Prophylaxis in the UK **Kirstin Finning** (England)

12.00 – Lunch Break

13.00 – CELL-FREE DNA AND CANCER

Circulating Tumor DNA

Dr. Alain R Thierry (Montpellier, France)

Blood Biopsy for Routine Monitoring of Cancer Progression

Dr. Viktor Adalsteinsson (Cambridge, USA)

Enhancing ctDNA Detection by Size Selection and Signal Integration

Katrin Heider (Cambridge, England)

Oral Presentations

C. Application of Cell-Free DNA for Genomic Tumor Profiling – Optimizing Tumor Detection Using Gene-Panel Sequencing and *in silico* Size Selection **Lise B Ahlborn** (Denmark)

D. Longitudinal Analysis of Plasma Cell-Free DNA by Ultra-Deep Sequencing in Stage I-III Colorectal Cancer Patients: A Prospective Observational Study **Thomas Reinert** (Denmark)

15.00 – Coffee Break

15.30 – BIOLOGICAL PROPERTIES OF CELL-FREE DNA

Oral Presentations

E. Extracellular DNA in Plasma is Hidden in Exosomes **Barbora Konečná** (Slovakia)

F. Northern Lights Assay Reveals Various Structural Damage in cfDNA in Body Fluids **Jon J Jonsson** (Iceland)

Deciphering Biological Properties of Plasma DNA and its Impact on Noninvasive Diagnostics

Dr. Peiyong Jiang (Hong Kong)

16.30-17.00 – END OF DAY 1

19.00 – CONFERENCE DINNER

DAY 2

8.45 – NON-INVASIVE PRENATAL TESTING AND DIAGNOSIS

Non-Invasive Prenatal Diagnosis for Single Gene Disorders

Dr. Natalie Chandler (London, England)

NIPT: Clinical Experience from the Netherlands

Dr. Erik A Sistermans (Amsterdam, The Netherlands)

Oral Presentation

G. The Importance of Assessing for Triploidy Beyond the First Trimester of Pregnancy **Dorothea Kaufmann** (USA)

10.00 – Coffee Break

10.30 – NONINVASIVE PRENATAL TESTING AND DIAGNOSIS (continued)

Current Advances in the Application of Genome-Wide NIPT

Dr. Mark D Pertile (Melbourne, Australia)

Clinical Utility of Genome-Wide cf-DNA Test for RATs

Dr. Francesca R Grati (Busto Arsizio, Italy)

Oral Presentations

H. Non-Invasive Prenatal Diagnosis (NIPD) of Single Gene Disorders by Relative Haplotype Dosage (RHDO): Review of over 100 Clinical Cases **Benjamin Bowns** (England)

I. Collective Utility of NIPT Zygosity Determination and Chorionicity Assignment **Samantha Leonard** (USA)

11.45 – MAIN SPONSOR TALK

The Medically Actionable Genome

Phil Febbo, Chief Medical Officer at Illumina

12.00 – Lunch Break

13.00 – POSTER SESSION

14.00 – CELL-FREE DNA AND TRANSPLANTATION

Cell-Free DNA as Marker for Organ Rejection

Speaker TBA

Cell-Free DNA after Heart Transplantation: Technical Issues and Clinical Pitfalls

Prof. Jens Böhmer (Gothenburg, Sweden)

Oral Presentations

I. Increased Total Urinary Cell-Free DNA Predicts Renal Transplant Rejection **Joshua YC Yang** (USA)

J. Analytical and Clinical Validation of a Donor-Derived Cell-Free DNA (dd-cfDNA) Assay for Renal Allograft Rejection **Trudy McKanna** (USA)

15.30 – Coffee Break

16.00 – POSTER AND GRANT AWARDS

16.30 – CONFERENCE ENDS

The conference will be compliant with the Euromed Code of Ethical Business Practice.

The program may be amended.

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