

3rd International Meeting on Cell-Free DNA, cfDNA2017

Moltke's Palace, Copenhagen, 6-7 April, 2017 – Scientific Program, 10 March, 2017

DAY 1

8.00 – REGISTRATION

8.25 – OPENING by Frederik Banch Clausen

8.30 – NONINVASIVE FETAL BLOOD GROUPING

Introduction to Blood Group Antigen Typing

Dr. Jill Storry (Lund, Sweden)

Overview of Noninvasive Fetal RhD Genotyping

Dr. Frederik Banch Clausen (Copenhagen, Denmark)

Reviewing the Cost-Effectiveness of High Throughput Non-Invasive Fetal RhD Testing : a Prelude to National Implementation in the UK

Dr. Alec McEwan (Nottingham, England)

Chairs: Prof. Dr. Tobias J Legler (Germany) and

Grethe Risum Krog (Denmark)

10.00 – Coffee Break

10.20 – BIOLOGY AND IMMUNOLOGY

Sources of Trophoblast DNA in Maternal Blood: Biobanked Maternal Serum Samples as Basis for Analysis

Professor Dr. Berthold Huppertz (Graz, Austria)

Graft-Derived Cell-Free DNA as a Diagnostic Tool in Transplantation

Professor Michael Oellerich (Göttingen, Germany)

Cell-Free DNA Concentrations in Health and Disease: Results from the MARK-AGE Study

Dr. Juulia Jylhävä (Stockholm, Sweden)

Chairs: Dr. Morten H Dziegiel and Dr. Klaus Rieneck (Denmark)

12.00 – Lunch Break

13.00 – POSTER SESSION

14.00 – CANCER SESSION

CfDNA in Diagnostics: Finding and Tracking Treatment Targets

Dr. Olga Østrup (Copenhagen, Denmark)

CfDNA to Guide Cancer Treatment

Professor E Schütz (Göttingen, Germany)

The Clinical Relevance of Circulating, Cell-Free and Exosomal microRNAs as Biomarkers for Gynecological Tumors

Dr. Heidi Schwarzenbach (Hamburg, Germany)

Chairs: Dr. Klaus Rieneck and Dr. Morten H Dziegiel (Denmark)

15.40 – Coffee Break

16.10 – ORAL PRESENTATIONS

A. Circulating Cell Free DNA Detection as Novel Biomarker to Monitor Desmoid Tumors Evolution **Nicolas Macagno** (France)

B. A Direct From Plasma Approach for Non-Invasive Fetal RhesusD Genotyping **Michael Parks** (England)

C. Prediction of Fetal HPA-1A or Other Blood Group Antigens from Maternal Plasma Using Next Generation Sequencing **Agnieszka Orzińska** (Poland)

Chairs: Dr. Jill Storry and Dr. Åsa Hellberg (Sweden)

16.45-17.00 – END OF DAY 1

19.00 – CONFERENCE DINNER

DAY 2

9.00 – NONINVASIVE PRENATAL TESTING

AND DIAGNOSIS

What Can We Learn From NIPT False Positive Results and Test Failures?

Dr. Diana W Bianchi (USA)

NIPT: Rare Trisomies, Microdeletions and Additional Imbalances

Professor Peter Benn (Farmington, USA)

Chairs: Professor Ann Tabor and Dr. Peter Johansen (Denmark)

10.30 – Coffee Break

10.50 – NIPT SESSION CONTINUED

Counselling in the Era of cfDNA

Professor Lyn Chitty (London, England)

Chairs: Dr. Diana Bianchi (USA) and Dr. Peter Johansen

(Denmark)

11.45 – MAIN SPONSOR TALK

Introducing a novel paired end sequencing approach to NIPT

Dr. Lieve Page-Christiaens, Illumina

Chair: Dr. Klaus Rieneck (Denmark)

12.00 – Lunch Break

13.00 – PANEL DISCUSSION

Input from Service Providers

Representatives from each sponsor

Dr. Maximilian Schmid, MD, Roche

Dr. Lieve Page-Christiaens, Illumina

Qiagen

Covaris

Dr. Samantha Leonard, Natera

Chairs: Professor Ann Tabor and Dr. Frederik Banch Clausen (Denmark)

14.00 – FUTURE APPLICATIONS OF CELL-FREE DNA

On cfDNA Methylation Patterns

Dr. Ruth Shemer (Jerusalem, Israel)

The Next Era in NIPT: Universal Single Gene Diagnosis, de Novo Mutation Detection and Newer Biological Understanding

Professor Rossa WK Chiu (Hong Kong, China)

Chairs: Dr. Jill Storry (Sweden) and Dr. Klaus Rieneck

(Denmark)

15.30 – Coffee Break

15.55 – ORAL PRESENTATIONS

D. Non-invasive Prenatal Testing (NIPT) for 22q11.2 Deletion Syndrome Using a Targeted Microarray-Based Cell-Free (cfDNA) Test **Maximilian Schmid** (Austria)

E. Clinical Implementation of Non-Invasive Prenatal Diagnosis (NIPD) for Spinal Muscular Atrophy (SMA) by Relative Haplotype Dosage Analysis (RHDO) **Benjamin Bowns** (England)

F. Extracellular DNA and Bariatric Surgery **Peter Celec** (Slovakia)

Chairs: Dr. Jill Storry (Sweden) and Dr. Frederik Banch Clausen

(Denmark)

16.30 – CONFERENCE ENDS