

5th International Meeting on Cell-Free DNA, cfDNA2023, Copenhagen 25–26 May 2023

Preliminary Scientific Program

DAY 1

8.00 – REGISTRATION

8.25 – OPENING by Frederik Banch Clausen

8.30 – NON-INVASIVE PREDICTION OF FETAL BLOOD GROUPS

Introduction to Blood Group Genotyping

Prof. Christoph Gassner (Principality of Liechtenstein)

Non-Invasive Prediction of Fetal Blood Groups

Prof. Masja de Haas (Leiden, The Netherlands)

Oral Presentations (5 min)

A. Fetal *RHD* Screening in RH1 negative pregnant women: Experience in Switzerland

Rahel Kräuchi (Switzerland)

B. The effect of the nationwide implementation of targeted routine antenatal anti-D prophylaxis in Denmark **Emilie Thorup Nielsen** (Denmark)

10.30 – Coffee Break

11.00 – NON-INVASIVE PREDICTION OF FETAL BLOOD GROUPS
(continued)

Recommendations for Validation and Quality Assurance of Fetal *RHD* Genotyping

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

Oral Presentations

C. Fetal *RHD* genotyping by droplet digital PCR for D variant mothers or children

Aicha Ait Soussan (The Netherlands)

D. Implementation of a ddPCR method for non-invasive fetal blood group typing for alloimmunised pregnant women **Camilla Calandrini** (The Netherlands)

12.00 – Lunch Break

13.00 – POSTER SESSION

14.00 – CELL-FREE DNA AND TRANSPLANTATION

Donor-derived cell-free DNA testing in organ transplantation to improve personalized immunosuppression

Prof. Dr. Michael Oellerich (Göttingen, Germany)

Cell-Free DNA as Marker for Organ Health

Dr. Olivier Aubert (Paris, France)

Oral Presentations

E. A novel method to quantify absolute levels of donor-derived cell-free DNA after heart transplantation: a prospective study **Jens Böhmer** (Sweden)

F. Multi-centric analytical performance validation of an IVD assay to quantify donor-derived cell-free DNA for solid organ transplant surveillance **Silvia Casas** (USA)

15.30 – Coffee Break

16.00 – FUTURE TECHNOLOGIES

Nanopore sequencing technology for DNA analysis

Dr. Clive Brown (Chief Technical Officer, Oxford Nanopore Technologies, Oxford, England)

16.45–17.00 – END OF DAY 1

19.00 – CONFERENCE DINNER

DAY 2

08.30 – CELL-FREE DNA AND CANCER

Plasma DNA fragmentomics: biology and applications

Prof. Dennis Lo (Hong Kong, China) [*virtual talk*]

On Cell-Free DNA and Cancer

Dr. Mark Jesus M Magbanua (San Francisco, USA)

Cell-Free DNA and Cancer

Prof. Alain R Thierry (Montpellier, France)

Oral Presentation

G. Cell-free chromatin immunoprecipitation can determine tumor gene expression in lung cancer patients. **Christoffer Trier Månsson** (Denmark)

10.30 – Coffee Break

11.00 – CELL-FREE DNA BIOLOGY

Oral Presentations

H. Endogenous deoxyribonuclease activity in mouse sepsis, liver failure and human testicular cancer **Peter Celec** (Slovakia)

I. Extracellular DNA in rheumatoid arthritis **Barbora Vlková** (Slovakia)

J. Evaluation of variability in cell-free DNA extraction from plasma using an artificial spike-in (CEREBIS) **Fanny Sandberg** (Switzerland)

11.40 – Main sponsor talk

12.00 – Lunch Break

13.00 – NON-INVASIVE PRENATAL TESTING AND DIAGNOSIS

Status on NIPT

Prof. Erik Sistermans (Amsterdam, The Netherlands)

Non-Invasive Prenatal Diagnosis of Single Gene Disorders

Dr. Natalie Chandler (London, England)

On PGT and Prenatal Care

Speaker TBA

Oral Presentations

K. Evaluation of fetal ploidy status by cell-free fetal DNA in early pregnancy loss **Tanja Schlaikjær Hartwig** (Denmark)

L. DES-NIPT study: Global approach to detect inherited paternal variants in NIPT samples using deep exome sequencing **Ieva Miceikaite** (Denmark)

15.30 – Coffee Break

16.00 – POSTER AND GRANT AWARDS

Chair: Anne Todsén Hansen (Copenhagen, Denmark)

16.30 – CONFERENCE ENDS