Project description cfDNA2025

Conference title
6th International Meeting on Cell-free DNA, cfDNA2025

Time and place
Copenhagen 8–9 May 2025, The Odd Fellows Mansion, Copenhagen, Denmark
Web: www.cfDNA2025.eu

Organizing and Scientific Committee
PhD Sofie Lindgren Christiansen[1] (President & Chair); DMSc, PhD, Frederik Banch Clausen[2] (Vice President); PhD Åsa Hellberg[3], PhD Christine Henny[4], Assoc. Prof. Peter Celec[5], PhD Marie Balslev-Harder[1], PhD Steffen Ulitz Thorsen[2], Anne Todsen Hansen[2].

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Summary
This 6th international meeting on cell-free DNA (cfDNA) continues the success of the meetings from 2013–2023. The interesting field of cfDNA is studied across many specialties. We present current and future applications. The objective is to share knowledge and build collaborations that may increase the study and clinical applications of cfDNA. Our meeting creates a meeting point for different specialties, including transfusion medicine, prenatal care, clinical immunology, obstetrics, cancer diagnostics, and transplantation. The meetings have been successful, attracting 200 scientists and medical doctors from about 30 different countries, including as far away as from US, New Zealand, China, and Brazil. The cfDNA2025 meeting will comprise academic speakers who receive no honorarium for participating. The meeting will be sponsored partly by the commercial industry and by medical societies. Please see our webpage (http://www.cfdna2025.eu/) for information on the current meeting.

Perspectives
The overall perspective is to contribute to collaboration and further development within the field of cfDNA. The cfDNA meetings have always had special focus on topics relevant for transfusion medicine and clinical immunology. cfDNA2025 will include a special discussion workshop (7 May) with focus on noninvasive fetal antigen genotyping (arranged by Dr. Christine Henny, Switzerland). This work links to the ISBT activities in the cfDNA subgroup of the ISBT RCIBGT WP.

Previous cfDNA meetings
The five previous meetings have been very successful. We have received 90–96% of the maximum point available in our evaluations. The meetings have featured several key experts in the field of cfDNA testing, including Prof. Dennis Lo and Prof. Diana Bianchi.

cfDNA2025 meeting setup
The cfDNA2025 meeting will run on two days, with expectedly approximately 14 invited speakers, 10-15 oral presentations and 20-25 posters from the participants. Oral presentations are selected based on votes from the Organizing and Scientific Committee after a blinded evaluation of abstracts (blinded for authors, country, and affiliations). Three scientists will receive a travel grant of 5000 DKK. In addition to the scientific program, the main sponsor will have the option for a 10-minute presentation. PhD students and other students will receive a discount on the conference fee. Everyone is welcome.
Additionally, we will conduct a discussion workshop on noninvasive fetal antigen genotyping, the afternoon before the conference. The meeting is organized by the Organizing and Scientific Committee in collaboration with the congress bureau, The Meeting Planners. The conference is compliant with the Eucomed Code of Ethical Business Practice. It should also be mentioned that despite that the venue may appear posh, it is one of the least expensive venues in Copenhagen.

Confirmed speakers
Prof. Ellen van der Schoot (The Netherlands)
Prof. Kenneth J Moise (USA)
Dr. Åsa Hellberg (Sweden)
Assoc. Prof. Peter Celec (Slovakia)
Dr. Sean Agbor-Enoh (USA)
Dr. Jens Böhmer (Sweden)
Prof. Wai Kei Jacky Lam (Hong Kong)
Dr. Carmen Rubio Lluesa (Spain)
Dr. Natalie Chandler (England)
Dr. Ieva Miceikaite (USA)
Dr. Markus Hodal Drag (Denmark)
Dr. Nicolas Tessier (France)
Dr. Abel Jacobus Bronkhorst (Germany)

We are grateful for any kind of support.
On the behalf of the organizing and scientific committee,

Sofie Lindgren Christiansen, PhD
Conference President
Frederik Banch Clausen, DMSc, PhD
Conference Vice President

Preliminary Program

DAY 1

8.00 – REGISTRATION

8.25 – OPENING by Sofie Lindgren Christiansen

8.30 – NONINVASIVE PREDICTION OF FETAL BLOOD GROUPS
Noninvasive Fetal Antigen Genotyping
Dr. Åsa Hellberg (Sweden)
Noninvasive Prediction of Fetal Blood Groups: A US Perspective
Prof. Kenneth J Moise (USA)
Oral Presentations
To be announced

10.00 – Coffee Break

10.30 – NONINVASIVE PREDICTION OF FETAL BLOOD GROUPS (continued)
Fighting Rh Disease: An African Perspective from AFRICARhE
Prof. Ellen van der Schoot (The Netherlands)
Oral Presentations
To be announced

12.00 – Lunch Break

12.45 – POSTER SESSION

13.45 – NON-INVASIVE PRENATAL TESTING AND DIAGNOSIS
Embryo cfDNA: From Research to Clinical Application to Improve IVF Outcomes
Dr. Carmen Rubio Lluesa (Spain)
Non-Invasive Prenatal Diagnosis of Single Gene Disorders
Dr. Nathalie Chandler (England)

15.00 – Coffee Break

15.30 – NON-INVASIVE PRENATAL TESTING AND DIAGNOSIS (continued)
High-Resolution Non-Invasive Cell-Free DNA Sequencing in Pregnancy
Dr. Ieva Miceikaite (USA)
Oral Presentations
To be announced

16.45–17.00 – END OF DAY 1

19.00 – CONFERENCE DINNER

DAY 2

8.30 – BIOLOGY AND FUTURE PERSPECTIVES
DNA outside of cells is extracellular, but not cell-free
Assoc. Prof. Peter Celec (Slovakia)
New high accuracy diagnostics for Aspergillus fumigatus infection in Zoo-housed birds using cell-free DNA and machine learning prediction
Dr. Markus Hodal Drag (Denmark)
Integrative multiparametric analysis of circulating cell-free nucleic acids of plasma during aging
Dr. Nicolas Tessier (France)

10.20 – Coffee Break

10.50 – BIOLOGY AND FUTURE PERSPECTIVES
On potential biological functions and pre-analytics of cell-free DNA
Dr. Abel Jacobus Bronkhorst (Germany)
Oral Presentations
To be announced

11.45 – Main sponsor talk

12.00 – Lunch Break

13.00 – CELL-FREE DNA AND TRANSPLANTATION
Cell-Free DNA as Marker for Organ Health
Dr. Sean Agbor-Enoh (USA)
ddPCR-Based Testing of Donor-Derived Cell-Free DNA in Heart Transplantation Patients
Dr. Jens Böhmer (Sweden)
Oral Presentations
To be announced

14.30 – Coffee Break

15.00 – CELL-FREE DNA AND CANCER
Towards multi-modal liquid biopsy
Dr. Florent Mouliere (England)
Fragmentomics analysis of plasma DNA for cancer
Prof. Wai Kei Jacky Lam (Hong Kong)
Oral Presentation
To be announced

16.30 – POSTER AND GRANT AWARDS
Chair: Steffen Ullitz Thorsen (Denmark)

16.45-17.00 – CONFERENCE ENDS