



The Nordic IVF Laboratory Society (NILS) 20th Meeting in Copenhagen

May 3rd-4th, 2024

Scientific Program

Friday 3rd of May

11.30-	Registration starts
12.00-12.30	Lunch / exhibition
12.30-18.00	Lectures / Workshop / Demonstration session

Session 1: 12.30-13.45

Chairs: Morten Rönn Petersen & Helle Bendtsen

12.30-13.00 The future of male infertility treatment: different types of patients

Martin Blomberg Jensen, Head of research department of Endocrinology, Herlev Hospital, Denmark

13.00-13.15 Master programme in Embryology / Julius Hreinsson

13.15-13.45 Vitrification and warming

Joe Conaghan, PhD, HCLD, Director of Science and Education, CCRM Fertility, USA

Session 2: 13.45-15.45

Workshop / lectures / demonstrations

1. Vitrification Workshop organised by Irvine / NOVIVITAE with Joe Conaghan

Chairs: Renata Gustafsson and Sanna Ylisaukko-Oja

2. Demonstration session:

Chairs: Anette Bergh and Solvej Heeringa Nielsen, Sirpa Mäkinen and Helle Bendtsen

A. DNA fragmentation in Oocyte Cumulus cell (Halotech/NordicCell)

B. Time-lapse and AI (Vitrolife)

C. Sperm selection and ZyMot (IVF TECH)

D. Witnessing system (Cooper Surgical)

3. Basic Education session, basic lectures in reproductive biology

Chairs: Julius Hreinsson and Frida Bakken Stensen

Julius Hreinsson, Laboratory Director, Reproductive Medicine, Sahlgrenska University Hospital, Sweden

- **A.** Gamete maturation and Meiosis
 - **B.** Fertilization and embryo development
 - **C.** Knowledge of theory informs practice - examples
 - **D.** Cases - Participants are encouraged to bring difficult cases to discuss
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15.45-16.00 Break, coffee available in exhibition area

Session 2 continues 16.00-18.00 with Workshop and Demonstration session

1. Vitrification Workshop organised by Irvine / NOVIVITAE with Joe Conaghan

2 . Demonstration session:

- A. DNA fragmentation in Oocyte Cumulus cell** (Halotech/NordicCell)
 - B. Time-lapse and AI** (Vitrolife)
 - C. Sperm selection and ZyMot** (IVF TECH)
 - D. Witnessing system** (Cooper Surgical)
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18:00- 18:30 Networking and drinks in exhibition area

Evening program: Dinner at 19.30 at IDA Conference, Kalvebod Brygge 31

Saturday 4th of May

9.00-13.00 Lectures

Session 3: 9.00-10.30

Chairs: Solvej Heeringa Nielsen and Anette Bergh

9.00-9.30 Semen quality – current trends and what to do

Niels Jørgensen, Consultant (overlæge) in Andrology at Dept. of Growth and Reproduction, Rigshospitalet, Denmark

9.30-10.00 Sperm DNA fragmentation: fertility and pregnancy outcomes

Aleksander Giwercman, Professor, Molecular Reproductive Medicine, Lund University

10.00-10.30 AI and automation in the IVF laboratory; Current status and Future

Eva Schenkman, MS, PhD, CC/ALD/ELD/HCLD (ABB), IVF Laboratory Director, OU Health, The University of Oklahoma, President/Chief Science Officer, ARTLAB, IVF Training and Research Center

10.30-11.00 Exhibition and coffee break

11.00-11.30 NILS General meeting

Session 4: 11.30-12.30

Chairs: Sirpa Mäkinen and Sanna Ylisaukko-Oja

11.30-12.00 The future of oocyte in vitro maturation (IVM) and fertility preservation in clinical practice

Stine Gry Kristensen, Head of the Laboratory of Reproductive Biology, Rigshospitalet, Denmark

12.00-12.30 Oocyte activation

Thomas Ebner, Professor Dr, Laboratory Director, Kinderwunsch Zentrum, Linz, Austria

12.30-13.00 Closing remarks