

Organizer



Co-Organizer:

VITROLIFE GROUP<sup>®</sup>  
EXCELLENCE IN REPRODUCTIVE HEALTH



# 1<sup>st</sup> ivf ATHENS WORKSHOP

Time-lapse technology  
and artificial intelligence in the IVF lab:  
a hands-on experience

08.06.2023



## Program



Venue

A 35 Sorou Str., Maroussi, Athens - Greece  
T +302106109992 • E op@attcenter.eu  
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Endorsed by



## Welcome

Dear Colleagues,

It is with great pleasure that I invite you on **June 8** to the 1<sup>st</sup> hands-on workshop of Hygeia IVF Embryogenesis, in collaboration with the Vitrolife Group. The workshop is organized under the auspices of HEAL, with the kind support of Endoskopiki.

Time-lapse technology and artificial intelligence (AI) systems are being used by more and more IVF clinics worldwide, offering several advantages in embryo culture and evaluation, and significantly changing the way Embryologists work in the laboratory.

The main topic of this hands-on workshop is the use of the Embryoscope, with an emphasis on the AI system iDAScore. The first part of the program includes talks by Senior Embryologists regarding laboratory integration, user experience, and the various options for using Embryoscope and iDAScore. The second part of the program is dedicated to hands-on practical use of the system. In parallel, we will discuss real clinical scenarios that we face every day in the lab, and explore the options offered by iDAScore.

Participation in the workshop is free and the number of places is strictly limited.

I invite you to register in time, and I am waiting for you on June 8 for a unique time-lapse and AI experience

With kind regards,

**Ioannis Sfontouris PhD**  
Scientific Organiser

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## Program

- 09:00 - 09:15 **WELCOME & INTRODUCTIONS**  
**Prof. Panagiotis Skandalakis**  
**Dr Evangelos Makrakis**  
**Dr Ioannis Sfontouris**
- 09:15 - 09:45 **TIME-LAPSE BY VITROLIFE**  
**Reidun Kuhlmann**
- 09:45 - 10:15 **BENEFIT OF TIME-LAPSE IN A HUMAN IVF LAB.  
WHAT DOES THE SCIENCE TELL US**  
**Robbie Kerr**
- 10:15 - 10:35 **INTRODUCING TIME-LAPSE TECHNOLOGY IN THE IVF LAB:  
ESHRE RECOMMENDATION AND USER EXPERIENCE**  
**Ioannis Sfontouris**
- 10:35 - 10:50 **COFFEE BREAK**
- 10:50 - 11:10 **ASSESSMENT OF OOCYTE QUALITY AND ASSOCIATION  
WITH SUBSEQUENT EMBRYO DEVELOPMENT MONITORED  
WITH TIME-LAPSE**  
**Steve Davies**
- 11:10 - 11:30 **THE USE OF MORPHOKINETICS AND AI TO PREDICT EMBRYO  
ANEUPLOIDY**  
**Dimitra Nikiforaki**
- 11:30 - 11:50 **TIME-LAPSE USER EXPERIENCE: FROM MANUAL ANNOTATION  
TO FULLY AUTOMATIC AI BASED SYSTEM**  
**Carol Loscher** via zoom
- 11:50 - 12:05 **Q&A**  
**All speakers**
- 12.05 - 12.30 **EMBRACE: NON-INVASIVE PGT-A. HOW FAR ARE WE?**  
**Luis Navarro Sánchez** via zoom



12:30 - 13:30

### LUNCH

13:30 - 14:15

### iDAScore, FULLY AUTOMATIC EVALUATION TOOL

- Development of the algorithm
- Validation on internal and external data sets
- How to use the model

**Reidun Kuhlmann**

14:15 - 15:30

### HANDS-ON

Working with iDAScore and other AI based evaluation tool in the Embryo evaluation and decision processes.

Interactive session with exercises and discussions

**Reidun Kuhlmann & Robbie Kerr**

15:30 - 15:45

### COFFEE BREAK

15:45 - 17:00

### HANDS-ON

Working with iDAScore and other AI based evaluation tool in the Embryo evaluation and decision processes.

Interactive session with exercises and discussions

**Reidun Kuhlmann & Robbie Kerr**

17:00 - 17:15

### EVALUATION OF THE WORKSHOP AND CLOSING

ATHENS SHOP  
NETWORKS



## Faculty

**Steve Davies**

PhD, Lab Manager, Hygeia IVF Embryogenesis

**Robbie Kerr**

PhD, Clinical Support Manager EMEIA Vitrolife

**Reidun Kuhlmann**

Application Specialist, Vitrolife Technology

**Carol Loscher**

PhD Embryology Lab Manager at Therapie Fertility

**Evangelos Makrakis**

MD, PhD, Obstetrician & Gynecologist Scientific Director  
of 'HYGEIA IVF - Embryogenesis' A.R.T. Unit, Athens, Greece

**Dimitra Nikiforaki**

PhD - Senior Embryologist, Hygeia IVF Embryogenesis

**Luis Navarro Sanchez**

PhD Molecular Biology Supervisor en IGENOMIX

**Panagiotis Skandalakis**

MD, PhD, Professor Emeritus of Surgery Medical School  
of Athens, Chairman of the HHG Scientific Councils  
Committee, President of HEAL Academy by HHG,  
President of ESCAN, President of HADA

**Ioannis Sfontouris**

PhD, Scientific and Academic Director, Hygeia IVF  
Embryogenesis

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