2ND AI FERTILITY WORLD CONFERENCE
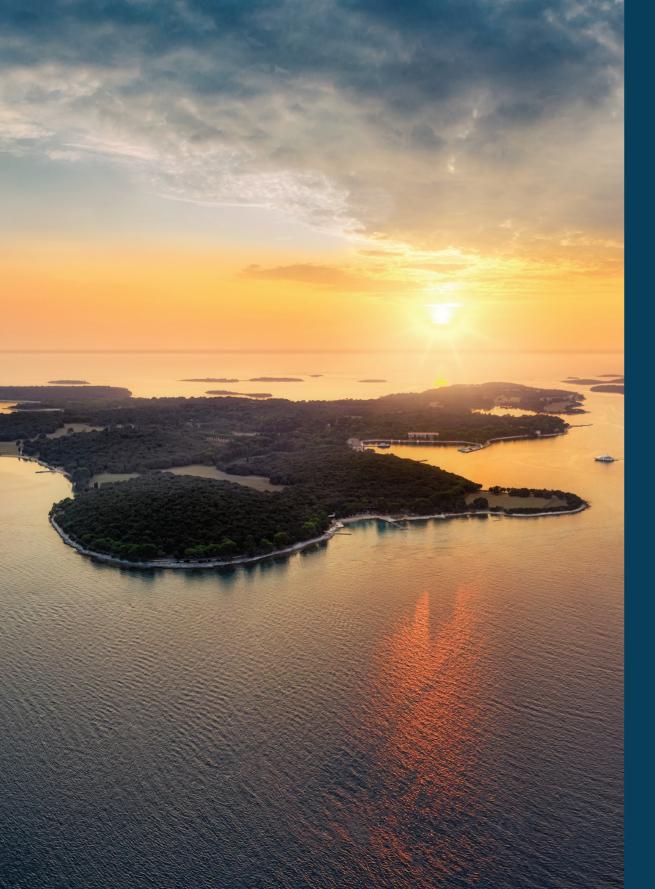
NP BRIJUNI ISLAND, CROATIA - Hotel Neptun/ Istra
September 18- 21, 2024

FINAL PROGRAMME

Welcome to the AI Fertility Conference 2024!

Welcome to the 2nd World Conference of the AI Fertility Society.

Our aim is to provide members of the fertility community a welcoming and fun networking and discovery event, where we can come together to learn and explore Artificial Intelligence (AI) and its impact on human fertility. This is a great opportunity to learn about the incredible research and technological advances that are happening in AI right now and how this will or already is impacting human fertility treatment across the world.

You'll note that the programme includes several inspiring presentations from field leaders and talks about new and upcoming AI-led research. There will of course be opportunities to have interactive Q&A sessions with those at the forefront of research in Artificial Intelligence and Fertility. And all that imbued with the magic scenery of Brijuni National park.

Thank you to all of our official sponsors for making this truly memorable networking event possible.

Organizing Committee

ORGANIZING COMMITTEE

Nikica Zaninovic, PhD
Weill Cornell Medicine, New York

Cristina Hickman, PhD
Avenues Life, London

Zev Rosenwaks, MD
Weill Cornell Medicine, New York

Velimir Simunic, MD
Poliklinika IVF, PRONATAL grupa, Zagreb

SPEAKERS

- **Alejandro Chavez Badiola**, Mexico
- **Alison Campbell**, UK
- **Andrew De Oliver Gomws**, UK
- **Andrew Thromson** , UK
- **Anna Seriola Petit**, Spain
- **Birol Aydin**, Turkey
- **Charles Bormann**, US
- **Chloe He**, UK
- **Christos A. Venetis**, Greece
- **Cristina Hickman**, UK
- **Dan Nayot**, Canada
- **Daniel Seidman**, Israel
- **Daniella Gilboa**, Israel
- **David C Cullen**, UK
- **David Chrimes**, US
- **David Sable**, US
- **Dinka Pavicic Baldani**, Croatia
- **Eduardo Hariton**, US
- **Egbert Edelbroek**, Netherlands
- **Elizabeth Grill**, US
- **Erkan Kalafat**, Turkey
- **Eros Nikitos**, Greece
- **Gaurav Singhal**, US
- **Gerard Letterie**, US

- **Gerardo Medizabal-Ruiz**, Mexico
- **Hadie Shafiee**, US
- **Hyejun Lee**, South Korea
- **Iman Hajirasouliha**, US
- **Jonas Malmsten**, US
- **Jørgen Berntsen**, Sweden
- **Kathleen Miller**, US
- **Kazem Nouri**, Austria
- **Klaus Wiemer**, US
- **Marcos Meseguer**, Spain
- **Marcos Meseguer**, Spain
- **Mina Popovic**, Spain
- **Nikica Zaninovic**, US
- **Nuria Corea**, Spain
- **Piotr Wygocki**, Poland
- **Rachel Cutting** , UK
- **Rufus Morgan** , UK
- **Samuel Ojosnegros**, Spain
- **Sergi Mass**, Spain
- **Teodora Popa**, UK
- **Uliana Dorofeyeva**, Ukraine
- **Velimir Simunic**, Croatia
- **Victoria Robertson**, UK
- **Zev Rosenwaks**, US

18 September 2024 / Wednesday

16:00-16:30 — **Opening ceremony, welcome words**
Nikica Zaninovic, Cristina Hickman

16:30- 17:00 — Fertility decline- impact of aging and demographic transition /
Velimir Simunic

17:00-17:30 — Affordable reproductive care / David Sable

17:30-18:30 — European and American view of IVF: Round table discussion /
Zev Rosenwaks, Velimir Simunic, Dinka Pavicic Baldani,
Kazem Nouri moderator

20:00 — **Welcome cocktail** (after dinner)

19 September 2024 / Thursday

MORE BABIES, FOR LESS DOLLARS AND GREATER CONVENIENCE

08:00-08:20 — What needs to happen to realize the full potential of AI in
the fertility sector / Gerard Letterie (prerecorded)

08:20-08:40 — The embryologist perspective / Daniella Gilboa

08:40-09:00 — The investment perspective / David Sable

09:00-09:20 — The regulatory perspective / Rachel Cutting

09:20-09:40 — EU AI regulations: how to prepare and what to expect /
Victoria Robertson (prerecorded)

09:40-10:00 — The risks of AI and what to do about them / Hadie Shafiee

10:00-10:20 — Responsible validation of AI in clinical practice / Jørgen Bernsten

10:20-10:50 — **Round Table**

10:50-11:20 — **Coffee Break**

11:20-11:40 — Development and deployment of AI software for IVF /
Daniel Seidman

11:40-11:55 — How to better utilize image/time-lapse data for
AI applications / Erkan Kalafat

11:55-12:10 — Using AI to support stimulation and trigger decisions /
Muhammad Fatum

12:10-12:25 — Optimizing oocyte donor selection using AI / Uliana Dorofeyeva

12:25-12:40 — Opening the black box of oocyte and Embryo assessment using AI /
Klaus Wiemer

12:40-12:55 — Impact of AI-based oocyte selection on embryo morphokinetic
and outcome / Birol Aydin

12:55-13:10 — Reconstructing the ICM in 3D using AI: comparison with
Gardner Grading? / Rufus Morgan

13:10-13:30 — Results of the first RTC using AI for embryo selection /
Christos A. Venetis

13:30-14:00 — **Round Table**

14:00-15:00 — **Lunch**

20 September 2024 / Friday

08:00-08:20 — The use of AI for quality management in the lab / Charlie Bormann

08:20-08:40 — SOFI: Sperm Oocyte Feature Integration, improving embryo
ranking, an agnostic approach / Alejandro Chavez Badiola

08:40-09:00 — Key Players in AI Applications within the Laboratory:
Who Leads the Way? / Marcos Meseguer

09:00-09:20 — From ultrasound imagery to clinical decision-making /
Piotr Wygocki

09:20-10:00 — Self-build or commercially available AI for embryo selection:
Debate / Alison Campbell, Cristina Hickman

10:00-10:20	Navigating Challenges and Opportunities of AI Integration in Fertility Network / Eduardo Hariton
10:20-10:50	**Round table**
10:50-11:20	**Coffee break**
11:20-11:40	Can AI catch what doctors miss? / Dan Nayot
11:40-12:00	Practical use of AI tools in the lab: Can AI catch what embryologists miss? / Eros Nikitos
12:00-12:20	Comparing Humans with AI: is this the right approach? / Kathleen Miller
12:20-12:40	Large Language Models (LLM) / Jonas Malmsten
12:40-12:50	The inside story of large language model extraordinary potential in fertility care / Gaurav Singhal
12:50-13:00	Beyond morphokinetics: Using AI to track cell lineage during embryo development / Chloe He
13:00-13:20	CooperSurgical's ongoing journey into AI in the IVF clinic / David Chrimes
13:20-13:40	User-Centric AI: From Evaluation to Clinical Adoption / Hyejun Lee
13:40-14:00	**Round table**
14:00-15:00	**Lunch**
20:00	**Conference dinner**

21 September 2024 / Saturday

08:00-08:20	Sex in Space: Consideration of uncontrolled human conception in emerging space tourism / David C. Cullen
08:20-08:40	Enabling and studying safe stages of reproduction in space / Egbert Edelbroek

08:40-09:00	How do we translate basic science into a clinic? / Anna Seriola Petit
09:00-09:20	AI-powered hyperspectral evaluation of human embryos and oocytes / Samuel Ojosnegros
09:20-09:40	Investigating chromosomal (in)stability in the human embryo / Mina Popovic (prerecorded)
09:40-10:00	AI in predicting embryo ploidy / Iman Hajirasouliha
10:00-10:20	Using AI in clinical protocols and for personalized outcome predictions / Nuria Correa
10:20-10:40	Can AI make healthcare Human again: the role of AI in compassionate care / Elizabeth Grill
10:40-11:10	**Round table**
11:10-11:40	**Coffee Break**
11:40-12:00	AI & Robotics in IVF / Sergi Mas
12:00-12:20	End-to-end automation of the IVF lab / Gerardo Medizabal-Ruiz
12:20-12:35	End-to-end AI-driven digitalization of the IVF journey / Andrew Thompson
12:35-12:50	Redefining what is humanly possible with augmented reality in fertility care / Teodora Popa
12:50-13:05	The role of synthetic data in mitigating AI risks / Andrew de Oliver Gomes
13:05-13:20	AI-driven solutions for global health / Kazem Nouri
13:20-13:45	**Round table**
13:45-14:00	**Closing** Nikica Zaninovic, Cristina Hickman

GENERAL INFORMATION

Official language
Official language of the Conference is English.

Registration fee

Included with your ticket, you will receive:

- A named pass with access to all scientific sessions throughout the event
- Access to the exhibition area
- Conference materials
- Lunches and coffee breaks 18 & 19 September 2024
- Welcome reception on 18 September 2024
- Conference dinner on 20 September 2024

Registration

The registration desk will be at the Hotel Istra, NP Brijuni.

Working hours

Wednesday September 18	15:00 - 18:00
Thursday September 19	07:30 - 14:00
Friday September 20	07:30 - 14:00
Saturday September 21	07:30 - 10:00

Social Events

September 18, Wednesday
Welcome cocktail on the terrace, Hotel Neptun. Starting from 8 pm (after dinner).

September 20, Friday
Conference dinner by the see.

Social events include spouses or significant other.

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