

#### **Teaching Module 1**

"Human Reproduction: Physiology, Pathophysiology and Recent Advances"

Submodules	Lectures & Instructors	Date & Time
Scientific & Academic Director	Welcoming Session and Principle Aims of the ACE Course  Mara Simopoulou	<b>1/10/2025</b> 5:00 p.m. – 5:15 p.m.
Opening Lecture	On the future of assisted reproduction: Lessons from the past <i>Jacques Cohen</i>	<b>1/10/2025</b> 5:15 p.m. – 6:00 p.m.
1.1	Female Reproductive System: Physiology and Oogenesis  TBC	<b>1/10/2025</b> 6:00 p.m. – 7:00 p.m.
1.2	Female Infertility: Aetiology and management strategies  Ippokratis Sarris	<b>8/10/2025</b> 5:00 p.m. – 6:00 p.m.
1.3	Male Reproductive System: Physiology and Spermatogenesis  Francesco Lotti	<b>8/10/2025</b> 6:00 p.m. – 7:00 p.m.
1.4	Evaluation and management of male infertility  Theodora Stasinou	<b>15/10/2025</b> 5:00 p.m. – 6:00 p.m.
1.5	Ovarian stimulation in the era of personalized and precision medicine  Theodoros Kalampokas	<b>15/10/2025</b> 6:00 p.m. – 7:00 p.m.
1.6	Diminished ovarian reserve from bench to bedside <b>Panagiotis Drakopoulos</b>	<b>22/10/2025</b> 5:00 p.m. – 6:00 p.m.
1.7	Embryo and Endometrium: A complex relationship <i>Irene Souter</i>	<b>22/10/2025</b> 6:00 p.m. – 7:00 p.m.
1.8	Embryo Transfer: Evidence based clinical practice Nikos Christoforidis	<b>29/10/2025</b> 5:00 p.m. – 6:00 p.m.
1.9	Recurrent Miscarriage and Recurrent Implantation Failure: How far have we come?  Petros Drakakis	<b>29/10/2025</b> 6:00 p.m.– 7:00 p.m.
1.10	The role of Nutrition and Metabolic Factors on Human Reproduction and MAR <i>Chavarro Jorge</i>	<b>29/10/2025</b> 7:00 p.m. – 8:00 p.m.



#### **Teaching Module 2**

"Organization, Management and Quality Control in the Embryology Laboratory, in the Andrology Laboratory and in Cryopreservation Banks"

Submodules	Lectures & Instructors	Date & Time
2.1	Organization and management on setting up an Assisted Reproduction Unit <b>Despina Tzanakaki</b>	<b>5/11/2025</b> 5:00 p.m. – 6:00 p.m.
2.2	Organization, management, and Standard Operating Procedures (SOPs) for the Embryology Laboratory  Giles Palmer	<b>5/11/2025</b> 6:00 p.m. – 7:00 p.m.
2.3	Organization, management, and Standard Operating Procedures (SOPs) for the Andrology Laboratory <b>Evangelini Evgeni</b>	<b>12/11/2025</b> 5:00 p.m. – 6:00 p.m.
2.4	Organization, management, and Standard Operating Procedures (SOPs) for Cryopreservation Banks  Alexia Chatziparasidou	<b>12/11/2025</b> 6:00 p.m. – 7:00 p.m.
2.5	Quality control and crisis management in the IVF Laboratory  Chelsey Leisinger	<b>19/11/2025</b> 5:00 p.m. – 6:00 p.m.
2.6	Inspecting an IVF Laboratory  Gerry Celia	<b>19/11/2025</b> 6:00 p.m. – 7:00 p.m.
2.7	Data, data, data. The past, present and future of data management in IVF  Jaques Cohen	<b>26/11/2025</b> 5:00 p.m. – 6:00 p.m.
2.8	Designing a patient-centered MAR Unit <b>TBC</b>	<b>26/11/2025</b> 6:00 p.m. – 7:00 p.m.



#### **Teaching Module 3**

"Semen Analysis, Sperm Preparation and Evaluation of Sperm Quality and Functionality"

Submodules	Lectures & Instructors	Date & Time
3.1	Standardized Semen Analysis: Lessons for Novice and Experts TBC	<b>3/12/2025</b> 5:00 p.m. – 6:00 p.m.
3.2	Sperm morphology assessment by strict criteria  TBC	<b>3/12/2025</b> 6:00 p.m. – 7:00 p.m.
3.3	Semen Analysis: Ancillary tests  George Liperis	<b>3/12/2025</b> 7:00 p.m. – 8:00 p.m.
3.4	Automated analysis of sperm diagnostics and selection for therapeutics: CASA and Beyond <i>Meurig Gallagher</i>	<b>10/12/2025</b> 5:00 p.m. – 6:00 p.m.
3.5	Optimal management of ejaculate and non- ejaculate originating spermatozoa for MAR purposes <b>Michael Carroll</b>	<b>10/12/2025</b> 6:00 p.m. – 7:00 p.m.
3.6	Sperm preparation techniques for diagnostic and MAR purposes  TBC	<b>10/12/2025</b> 7:00 p.m. – 8:00 p.m.
3.7	Advanced semen tests <b>Dolores Lamb</b>	<b>17/12/2025</b> 5:00 p.m. – 6:00 p.m.
3.8	Contributions of the Male Gamete to the Embryo and Offspring <b>Dolores Lamb</b>	<b>17/12/2025</b> 6:00 p.m. – 7:00 p.m.
3.9	Latest research in andrology  Ralf Henkel	<b>17/12/2025</b> 7:00 p.m. – 8:00 p.m.



### **Teaching Module 4**

"Novel Techniques and Approaches in Gamete, Embryo, Testicular and Ovarian Tissue Cryopreservation"

Submodules	Lectures & Instructors	Date & Time
4.1	How understanding basic cryobiology can help us improve our outcomes  Kimball O. Pomeroy	<b>7/1/2026</b> 5:00 p.m. – 7:00 p.m.
4.2	Safety in human reproductive cell cryopreservation Lodovico Parmegiani	<b>7/1/2026</b> 7:00 p.m. – 8:00 p.m.
4.3	Cryostorage safety: validation, quality control and best practices  Kimball O. Pomeroy	<b>14/1/2026</b> 5:00 p.m. – 6:00 p.m.
4.4	Factors Affecting Vitrification Success  Kimball O. Pomeroy	<b>14/1/2026</b> 6:00 p.m. – 7:00 p.m.
4.5	Oocyte and Embryo cryopreservation  Laura Rienzi	<b>21/1/2026</b> 5:00 p.m. – 6:00 p.m.
4.6	Frozen Embryo Transfer: Optimizing the Outcome <b>Eman Elgindy</b>	<b>21/1/2026</b> 6:00 p.m. – 7:00 p.m.
4.7	Restoration of function following ovarian tissue cryopreservation: In vivo and in vitro outcomes <b>David Albertini</b>	<b>28/1/2026</b> 5:00 p.m. – 6:00 p.m.
4.8	Testicular tissue cryopreservation: Where are we today? <b>Elena Kontogianni</b>	<b>28/1/2026</b> 6:00 p.m. – 7:00 p.m.



#### **Teaching Module 5**

"Insemination Methods and Personalized Medicine"

Submodules	Lectures & Instructors	Date & Time
5.1	Insemination methods an Overview of IUI, IVF, ICSI and specialized equipment  Jackson Kirkman-Brown	<b>4/2/2026</b> 5:00 p.m. – 6:00 p.m.
5.2	Micromanipulation in the era of Individualized Medicine: how to select the best sperm for ICSI <i>Lodovico Parmegiani</i>	<b>4/2/2026</b> 6:00 p.m. – 7:00 p.m.
5.3	Intracytoplasmic Sperm Injection (ICSI): Technique and technical aspects  Mina Alikani	<b>11/2/2026</b> 5:00 p.m. – 6:00 p.m.
5.4	Evaluation of insemination outcomes  Nikica Zaninovic	<b>11/2/2026</b> 6:00 p.m. – 7:00 p.m.
5.5	ICSI for All?  Mina Alikani	<b>18/2/2026</b> 5:00 p.m. – 6:00 p.m.
5.6	How to select the best insemination method: Evidence Based Clinical Practice  Gemma Arroyo	<b>18/2/2026</b> 6:00 p.m. – 7:00 p.m.
5.7	Managing cases of extreme low oocyte yield: Which is the best insemination option? TBC	<b>18/2/2026</b> 7:00 p.m. – 8:00 p.m.
5.8	Artificial oocyte activation: From basic research to clinical practice <i>Karl Swann</i>	<b>25/2/2026</b> 5:00 p.m. – 6:00 p.m.
5.9	Understanding the oocyte and decoding its competence  Federica Franciosi	<b>25/2/2026</b> 6:00 p.m. – 7:00 p.m.

**Written exams on Modules 1-5** 

(The examination platform will open on February 27<sup>th</sup>, 2026, at 7:00 p.m. and will close on March 6<sup>th</sup>, 2026, at 7:00 p.m.)



#### **Teaching Module 6**

"Understanding the Embryo and Culture Systems: Mapping of state-of-the-art Equipment and Protocols"

Submodules	Lectures & Instructors	Date & Time
6.1	Physiology and development of the preimplantation embryo  Mara Simopoulou	<b>4/3/2026</b> 5:00 p.m. – 6:00 p.m.
6.2	The pyramid of successful implantation Laura Rienzi	<b>4/3/2026</b> 6:00 p.m. – 7:00 p.m.
6.3	Metabolism of the preimplantation embryo Roger Sturmey	<b>4/3/2026</b> 7:00 p.m. – 8:00 p.m.
6.4	Culture media in IVF  Dean Morbeck	<b>11/3/2026</b> 5:00 p.m. – 6:00 p.m.
6.5	Embryo culture incubators  Jason E. Swain	<b>11/3/2026</b> 6:00 p.m. – 7:00 p.m.
6.6	Time-lapse imaging technology in the IVF laboratory  Marcos Meseguer	<b>18/3/2026</b> 5:00 p.m. – 6:00 p.m.
6.7	The epigenetics of blastocyst culture  Alan Handyside	<b>18/3/2026</b> 6:00 p.m. – 7:00 p.m.
6.8	Embryo Culture: Past, Present and Future <b>David Gardner</b>	<b>1/4/2026</b> 8:00 a.m. – 9:00 a.m.



#### **Teaching Module 7**

"Basic Knowledge and Recent Advances on Embryo Quality and Evaluation: From Embryo Morphology to Artificial Intelligence"

Submodules	Lectures & Instructors	Date & Time
7.1	Embryo selection  David Gardner	<b>1/4/2026</b> 9:00 a.m. – 10:00 a.m.
7.2	The making of the blastocyst  Giovanni Coticchio	<b>15/4/2026</b> 5:00 p.m. – 6:00 p.m.
7.3	Novel approaches in oocyte and preimplantation embryo evaluation and automation in MAR <i>Alejandro Chavez-Badiola</i>	<b>15/4/2026</b> 6:00 p.m. – 7:00 p.m.
7.4	Embryo identification <i>Irene Dimitriadis</i>	<b>22/4/2026</b> 5:00 p.m. – 6:00 p.m.
7.5	Non-invasive selection of embryo viability: The value of the embryo's metabolic blueprint <b>Denny Sakkas</b>	<b>22/4/2026</b> 6:00 p.m. – 7:00 p.m.
7.6	Artificial intelligence in the IVF laboratory <b>Charles Bormann</b>	<b>29/4/2026</b> 5:00 p.m. – 7:00 p.m.
7.7	Morphokinetic evaluation of the preimplantation embryo: What is there to gain?  Eros Nikitos	<b>29/4/2026</b> 7:00 p.m. – 8:00 p.m.



### **Teaching Module 8**

"Preimplantation Genetic Testing: From Embryo Biopsy and Genetic and Molecular Diagnosis to Novel Approaches and Considerations"

Submodules	Lectures & Instructors	Date & Time
8.1	Genetic profile, analysis of the preimplantation embryo and novel approaches <b>Dagan Wells</b>	<b>6/5/2026</b> 5:00 p.m. – 6:00 p.m.
8.2	Tips and tricks for optimizing micromanipulations during biopsy for PGT <b>Debbie Venier</b>	<b>6/5/2026</b> 6:00 p.m. – 7:00 p.m.
8.3	Preimplantation Genetic Testing for Structural Rearrangements (PGT-SR) <b>Darren Griffin</b>	<b>13/5/2026</b> 5:00 p.m. – 6:00 p.m.
8.4	Preimplantation Genetic Testing for Monogenic Disorders (PGT-M)  Joanne Traeger-Synodinos	<b>13/5/2026</b> 6:00 p.m. – 7:00 p.m.
8.5	Preimplantation genetic testing for aneuploidy (PGT-A): Benefits, risks, and it's true place in MAR <i>Eric Forman</i>	<b>20/5/2026</b> 5:00 p.m. – 6:00 p.m.
8.6	Embryo ploidy status and implantation: A conundrum <b>Danilo Cimadomo</b>	<b>20/5/2026</b> 6:00 p.m. – 7:00 p.m.
8.7	Physiology of the preimplantation embryo post biopsy and vitrification  Aikaterini Chatzimeletiou	<b>27/5/2026</b> 5:00 p.m. – 6:00 p.m.
8.8	Chromosomal mosaicism: Origins and clinical implications  TBC	<b>27/5/2026</b> 6:00 p.m. – 7:00 p.m.
8.9	Non-Invasive Preimplantation Genetic Testing  Gary Harton	<b>27/5/2026</b> 7:00 p.m. – 8:00 p.m.



### **Teaching Module 9**

"Novel Concepts and Experimental Approaches in Assisted Reproduction"

Submodules	Lectures & Instructors	Date & Time
9.1	The strategic role of the clinical embryologist as a Scientist and Innovator Jared Robins	<b>3/6/2026</b> 5:00 p.m. – 6:00 p.m.
9.2	Novel promising concepts in clinical embryology research <i>loannis Sfontouris</i>	<b>3/6/2026</b> 6:00 p.m. – 7:00 p.m.
9.3	Novel experimental approaches in addressing Ovarian Insufficiency Sonia Herraiz	<b>3/6/2026</b> 7:00 p.m. – 8:00 p.m.
9.4	Novel experimental approaches: Mitochondrial Replacement Therapy  Nuno Costa-Borges	<b>10/6/2026</b> 5:00 p.m. – 6:00 p.m.
9.5	The Bioethicist's perspective on novel approaches and Add-ons offered in Assisted Reproduction <i>Heidi Mertes</i>	<b>10/6/2026</b> 6:00 p.m. – 7:00 p.m.
9.6	The Clinical Psychologist's perspective on novel approaches and Add-ons offered in Assisted Reproduction  Mariana Veloso Martins	<b>10/6/2026</b> 7:00 p.m. – 8:00 p.m.
9.7	Introducing new technology into the IVF lab: Past and Future  Joyce Harper	<b>17/6/2026</b> 5:00 p.m. – 6:00 p.m.
9.8	Advanced Maternal Age: Challenges and Solutions <i>Martha Luna</i>	<b>17/6/2026</b> 6:00 p.m. – 7:00 p.m.
9.9	Novel approaches for studying early embryo- maternal interface TBC	<b>17/6/2026</b> 7:00 p.m. – 8:00 p.m.
9.10	Digital transformation of the IVF Unit  Achilleas Papatheodorou	<b>24/6/2026</b> 5:00 p.m. – 6:00 p.m.
9.11	Concerns and Considerations in IVF practices  David Albertini	<b>24/6/2026</b> 6:00 p.m. – 8:00 p.m.



### **Teaching Module 10**

"Research Methodology and Evidence Based Medicine"

Submodules	Lectures & Instructors	Date & Time
10.1	The evolution of research in female reproduction: Milestones and future goals  George Mastorakos	<b>1/7/2026</b> 5:00 p.m. – 6:00 p.m.
10.2	Type of studies in research  Theodoros Sergentanis	<b>1/7/2026</b> 6:00 p.m. – 7:00 p.m.
10.3	Research and statistics  Kimball O. Pomeroy	<b>8/7/2026</b> 5:00 p.m. – 6:00 p.m.
10.4	Basic statistical principles for practicing physicians and embryologists <b>Theodoros Sergentanis</b>	<b>8/7/2026</b> 6:00 p.m. – 7:00 p.m.
10.5	The value of Systematic Reviews and Meta- Analyses in MAR <i>Efstratios Kolibianakis</i>	<b>15/7/2026</b> 5:00 p.m. – 6:00 p.m.
10.6	Evidence Based Medicine  Charalampos Siristatidis	<b>15/7/2026</b> 6:00 p.m. – 7:00 p.m.
10.7	Evidence-based Clinical Embryology: it is not that simple  Jacques Cohen	<b>22/7/2026</b> 5:00 p.m. – 6:00 p.m.
10.8	IVF add-ons: Proper Research Methodology and Execution  Mara Simopoulou	<b>22/7/2026</b> 6:00 p.m. – 7:00 p.m.

#### **Teaching Module 11**

Critical Analysis Skills Assessment Round Tables "Problem Based Learning Sessions"

Cri	tical Analysis Skills Assessment	August 2026
Round Tables	Lectures & Instructors	Date & Time
Round Table I "Dos and Don'ts of How to Successfully Run an IVF Laboratory"	Moderators & Instructors to be confirmed	2/9/2026 5:00 p.m. – 7:30 p.m.
	Moderator: Gerry Celia	9/9/2026 5:00 p.m. – 7:10 p.m.
	Andrology-The challenge of handling different specimens  Liesl Nel-Themaat	<b>9/9/2026</b> 5:00 p.m. – 5:20 p.m.
Round Table II	Handling unusual patients-Things to watch out Bryan Kloos	<b>9/9/2026</b> 5:20 p.m. – 5:40 p.m.
"Outliers: handling unusual events	Oocyte freezing and thawing: What to watch out for <b>Wayne Caswell</b>	<b>9/9/2026</b> 5:40 p.m. – 6:00 p.m.
in the IVF laboratory"	Culture conditions-blastocyst problems: What do we need to know <b>Arthur Chang</b>	<b>9/9/2026</b> 6:00 p.m. – 6:20 p.m.
	PGT-A: The perspective and responsibility of the geneticist <i>Gary Harton</i>	<b>9/9/2026</b> 6:20 p.m. – 6:40 p.m.
	Discussion with experts	<b>9/9/2026</b> 6:40 p.m. – 7:10 p.m.

	Moderator: David Albertini	16/9/2026 5:00 p.m. – 7:10 p.m.
Round Table III	The Editor's perspective: A view from the top 2 decades of change and where we are going <b>David Albertini</b>	<b>16/9/2026</b> 5:00 p.m. – 5:25 p.m.
"The JARG's Round Table: Insights in	What are the characteristics of a publishable manuscript  Pierre Comizzoli	<b>16/9/2026</b> 5:25 p.m. – 5:50 p.m.
publishing in Reproductive Medicine"	From the trenches: Managing the process of reviewing <b>Arthur Chang</b>	<b>16/9/2026</b> 5:50 p.m. – 6:15 p.m.
	From data analysis to clinical relevance  Alex Quass	<b>16/9/2026</b> 6:15 p.m. – 6:40 p.m.
	Discussion with experts	<b>16/9/2026</b> 6:40 p.m. – 7:10 p.m.
	Moderator: Giles Palmer	23/9/2026 5:00 p.m. – 7:40 p.m.
	Moderator: Giles Palmer  Training and Management Giles Palmer	
Round Table IV	Training and Management	5:00 p.m. – 7:40 p.m. 23/9/2026
"Training Management	Training and Management  Giles Palmer  Staff Recruitment /Worldwide Embryologists Status	5:00 p.m. – 7:40 p.m. 23/9/2026 5:00 p.m. – 5:30 p.m. 23/9/2026
"Training	Training and Management  Giles Palmer  Staff Recruitment /Worldwide Embryologists Status  Joe Conaghan  Responsibilities/Occupational Demands	5:00 p.m. – 7:40 p.m. 23/9/2026 5:00 p.m. – 5:30 p.m. 23/9/2026 5:30 p.m. – 5:50 p.m. 23/9/2026

Written exams on Modules 5-11

23/9/2026

6:50 p.m. – 7:10 p.m. 23/9/2026

7:10 p.m. – 7:40 p.m.

Wellbeing and Burn-out in the IVF Laboratory

Shaista Sadruddin

Discussion with experts

(The examination platform will open September 25<sup>th</sup>, 2026, at 7:00 p.m. and will close on October 2<sup>nd</sup>, 2026, at 7:00 p.m.)