

Programme of Teaching Module 1

"Human Reproduction: Physiology, Pathophysiology and Recent Advances"

Submodule	Lecture-Speakers	Date-Time
Scientific & Academic Director Welcome	Welcome-Aims Mara Simopoulou	4/10/2023 5:00 p.m – 5:15 p.m
Opening Lecture	On the future of assisted reproduction: Lessons from the past <i>Jacques Cohen</i>	4/10/2023 5:15 p.m – 6:00 p.m
1.1	Physiology of the male reproductive system To be confirmed	11/10/2023 5:00 p.m – 6:00 p.m
1.2	Male Infertility: Aetiology and management strategies To be confirmed	11/10/2023 6:00 p.m – 7:00 p.m
1.3	Physiology of the female reproductive system Byron Asimakopoulos	18/10/2023 5:00 p.m – 6:00 p.m
1.4	Female Infertility: Aetiology and management strategies To be confirmed	18/10/2023 6:00 p.m – 7:00 p.m
1.5	Ovarian stimulation in the era of personalized and precision medicine To be confirmed	18/10/2023 7:00 p.m – 8:00 p.m
1.6	Ovarian Insufficiency: Options and considerations from the clinician's perspective <i>Konstantinos Sfakianoudis</i>	25/10/2023 5:00 p.m – 6:00 p.m
1.7	Recurrent Miscarriage and Recurrent Implantation Failure: How far have we come? Petros Drakakis	25/10/2023 6:00 p.m – 7:00 p.m
1.8	Embryo and Endometrium: A complex relationship To be confirmed	25/10/2023 7:00 p.m – 8:00 p.m



Programme of Teaching Module 2

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

Submodule	Lecture-Speakers	Date-Time
2.1	Organization and management on setting up an Assisted Reproduction Unit Despina Tzanakaki	1/11/2023 5:00 p.m – 6:00 p.m
2.2	Organization, management, and Standard operating procedures (SOPs) for the Embryology Laboratory <i>Giles Palmer</i>	1/11/2023 6:00 p.m – 7:00 p.m
2.3	Organization, management, and Standard operating procedures (SOPs) for the Andrology Laboratory <i>Evangelini Evgeni</i>	8/11/2023 5:00 p.m – 6:00 p.m
2.4	Organization, management, and Standard operating procedures (SOPs) for Cryopreservation Banks <i>Alexia Chatziparasidou</i>	8/11/2023 6:00 p.m – 7:00 p.m
2.5	Inspecting an IVF Laboratory Gerry Celia	15/11/2023 5:00 p.m – 6:00 p.m
2.6	New Technologies for High Tech Management of Quality in IVF Laboratories Carol Lynn Curchoe	15/11/2023 6:00 p.m – 7:00 p.m
2.7	Quality control and crisis management in the IVF laboratory <i>Carol Lynn Curchoe</i>	15/11/2023 7:00 p.m – 8:00 p.m
2.8	Data, data, data. The past, present and future of data management in IVF <i>Jaques Cohen</i>	22/11/2023 5:00 p.m – 6:00 p.m



Programme of Teaching Module 3 "Semen Analysis, Sperm Preparation and Evaluation of Sperm Quality and Functionality"

Submodule	Lecture-Speakers	Date-Time
3.1	Standardized Semen Analysis: Lessons for novice and experts Betsy Cairo	29/11/2023 5:00 p.m – 6:00 p.m
3.2	Sperm morphology assessment by strict criteria Betsy Cairo	29/11/2023 6:00 p.m – 7:00 p.m
3.3	Semen Analysis: Ancillary tests George Liperis	6/12/2023 5:00 p.m – 6:00 p.m
3.4	The role of patient's history and sperm preparation techniques for diagnostic and ART purposes <i>Stamatis Papaharitou</i>	6/12/2023 6:00 p.m – 7:00 p.m
3.5	Optimal management of ejaculate and non-ejaculate originating spermatozoa for ART purposes <i>Michael Carroll</i>	13/12/2023 5:00 p.m – 6:00 p.m
3.6	Latest research in andrology **Ralf Henkel**	13/12/2023 6:00 p.m – 7:00 p.m
3.7	Advanced semen tests Dolores Lamb	20/12/2023 5:00 p.m – 6:00 p.m
3.8	The impact of spermatozoa characteristics on embryo developmental potential To be confirmed	20/12/2023 6:00 p.m – 7:00 p.m



Programme of Teaching Module 4

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

Submodule	Lecture-Speakers	Date-Time
4.1	How understanding basic cryobiology can help us improve outcomes Kimball O. Pomeroy	3/1/2024 5:00 p.m – 7:00 p.m
4.2	Safety in human reproductive cell cryopreservation <i>Lodovico Parmegiani</i>	10/1/2024 5:00 p.m – 6:00 p.m
4.3	Cryostorage safety: validation, quality control and best practices Kimball O. Pomeroy	10/1/2024 6:00 p.m – 7:00 p.m
4.4	Factors Affecting Vitrification Success Kimball O. Pomeroy	17/1/2024 5:00 p.m – 6:00 p.m
4.5	Oocyte and embryo cryopreservation Laura Rienzi	17/1/2024 6:00 p.m – 7:00 p.m
4.6	Ovarian tissue cryopreservation: Where are we today? David Albertini	24/1/2024 5:00 p.m – 6:00 p.m
4.7	Testicular tissue cryopreservation: Where are we today? Elena Kontogianni	24/1/2024 6:00 p.m – 7:00 p.m



Programme of Teaching Module 5

"Insemination Methods and Personalized Medicine"

Submodule	Lecture-Speakers	Date-Time
5.1	Insemination methods an Overview of IUI, IVF, ICSI and specialized equipment Danny Daphnis	31/1/2024 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>	31/1/2024 6:00 p.m – 7:00 p.m
5.3	Intracytoplasmic Sperm Injection (ICSI): Technique and technical aspects <i>Mina Alikani</i>	7/2/2024 5:00 p.m – 6:00 p.m
5.4	Evaluation of insemination outcomes Nikica Zaninovic	7/2/2024 6:00 p.m – 7:00 p.m
5.5	ICSI for All? Mina Alikani	14/2/2024 5:00 p.m - 6:00 p.m
5.6	Artificial activation of spermatozoa and oocytes: From basic research to clinical practice To be confirmed	14/2/2024 6:00 p.m – 7:00 p.m
5.7	Understanding the oocyte and decoding its competence <i>Federica Franciosi</i>	21/2/2024 5:00 p.m - 6:00 p.m
5.8	How to select the best insemination method: Evidence Based Clinical Practice <i>Gemma Arroyo</i>	21/2/2024 6:00 p.m – 7:00 p.m

Written exams on Modules 1-5

(The examination platform will open on March 1^{st} , 2023, at 5:00 p.m and will close on March 6^{th} , 2023, at 5:00 p.m)



Programme of Teaching Module 6"Understanding the Embryo and Culture Systems: Mapping of state-of-the-art Equipment and Protocols"

Submodule	Lecture-Speakers	Date-Time
6.1	Physiology and development of the preimplantation embryo <i>Mara Simopoulou</i>	28/2/2024 5:00 p.m – 6:00 p.m
6.2	The pyramid of successful implantation Laura Rienzi	28/2/2024 6:00 p.m – 7:00 p.m
6.3	Metabolism of the preimplantation embryo Roger Sturmey	6/3/2024 5:00 p.m – 6:00 p.m
6.4	Culture media in IVF Dean Morbeck	6/3/2024 6:00 p.m – 7:00 p.m
6.5	Embryo culture incubators Jason E. Swain	13/3/2024 5:00 p.m – 6:00 p.m
6.6	Time-lapse imaging technology in the IVF laboratory Marcos Meseguer	13/3/2024 6:00 p.m – 7:00 p.m
6.7	The epigenetics of blastocyst culture To be confirmed	20/3/2024 5:00 p.m – 6:00 p.m
6.8	Embryo Culture: Past, Present and Future David Gardner	27/3/2024 8:00 a.m – 9:00 a.m



Programme of Teaching Module 7

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

Submodule	Lecture-Speakers	Date-Time
7.1	Embryo selection David Gardner	27/3/2024 9:00 a.m – 10:00 a.m
7.2	The making of the blastocyst Giovanni Coticchio	3/4/2024 5:00 p.m – 6:00 p.m
7.3	Novel approaches in oocyte and preimplantation embryo evaluation and automation in MAR To be confirmed	3/4/2024 6:00 p.m – 7:00 p.m
7.4	Embryo identification Irene Dimitriadis	10/4/2024 5:00 p.m – 6:00 p.m
7.5	Morphokinetic evaluation of the preimplantation embryo: What is there to gain? To be confirmed	10/4/2024 6:00 p.m – 7:00 p.m
7.6	Artificial intelligence in the IVF laboratory Charles Bormann	17/4/2024 5:00 p.m – 7:00 p.m
7.7	Non-invasive selection of embryo viability: The value of the embryo's metabolic blueprint Denny Sakkas	24/4/2024 5:00 p.m – 6:00 p.m



Programme of Teaching Module 8

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

Submodule	Lecture-Speakers	Date-Time
8.1	Genetic profile, analysis of the preimplantation embryo and novel approaches Dagan Wells	8/5/2024 5:00 p.m – 6:00 p.m
8.2	Biopsy methods, novel techniques and PGT optimal practice according to guidelines Georgia Kokkali	15/5/2024 5:00 p.m – 6:00 p.m
8.3	Preimplantation Genetic Testing for Structural Rearrangements (PGT-SR) Darren Griffin	15/5/2024 6:00 p.m – 7:00 p.m
8.4	Preimplantation Genetic Testing for Monogenic Disorders (PGT-M) Joanne Traeger-Synodinos	22/5/2024 5:00 p.m – 6:00 p.m
8.5	Preimplantation genetic testing for aneuploidy (PGT-A): Benefits, risks, and its true place in MAR To be confirmed	22/5/2024 6:00 p.m – 7:00 p.m
8.6	Embryo ploidy status and implantation: A conundrum To be confirmed	29/5/2024 5:00 p.m – 6:00 p.m
8.7	Physiology of the preimplantation embryo post biopsy and vitrification Aikaterini Chatzimeletiou	29/5/2024 6:00 p.m – 7:00 p.m
8.8	Biological and clinical importance of mosaicism of the preimplantation embryo <i>Ioannis Georgiou</i>	29/5/2024 7:00 p.m – 8:00 p.m



Programme of Teaching Module 9

"Novel Concepts and Experimental Approaches in Assisted Reproduction"

Submodule	Lecture-Speakers	Date-Time
9.1	Novel promising concepts in clinical embryology research To be confirmed	5/6/2024 5:00 p.m – 6:00 p.m
9.2	Novel approaches in fertility preservation Nikolaos Vlachos	5/6/2024 6:00 p.m – 7:00 p.m
9.3	Novel experimental approaches in addressing ovarian insufficiency Sonia Herraiz	12/6/2024 5:00 p.m – 6:00 p.m
9.4	Novel experimental approaches: Mitochondrial Replacement Therapy <i>Nuno Costa-Borges</i>	12/6/2024 6:00 p.m – 7:00 p.m
9.5	Digital transformation of the IVF unit To be confirmed	19/6/2024 5:00 p.m – 6:00 p.m
9.6	The future of IVF Joyce Harper	19/6/2024 6:00 p.m – 7:00 p.m
9.7	Concerns and considerations in IVF practices David Albertini	26/6/2024 5:00 p.m – 7:00 p.m



Programme of Teaching Module 10

"Research Methodology and Evidence Based Medicine"

Submodule	Lecture-Speakers	Date-Time
10.1	The evolution of research in female reproduction: Milestones and future goals George Mastorakos	3/7/2024 5:00 p.m – 6:00 p.m
10.2	Type of studies in research Theodoros Sergentanis	3/7/2024 6:00 p.m – 7:00 p.m
10.3	Research and statistics Kimball Pomeroy	10/7/2024 5:00 p.m – 6:00 p.m
10.4	Basic statistical principles for the practicing physicians and embryologists Theodoros Sergentanis	10/7/2024 6:00 p.m – 7:00 p.m
10.5	The value of systematic reviews and meta-analyses in ART <i>Efstratios Kolibianakis</i>	17/7/2024 5:00 p.m – 6:00 p.m
10.6	Evidence Based Medicine To be confirmed	17/7/2024 6:00 p.m – 7:00 p.m
10.7	Evidence-base in embryology-it is not that simple Jacques Cohen	24/7/2024 5:00 p.m – 6:00 p.m
10.8	IVF add-ons: Proper research methodology and execution <i>Mara Simopoulou</i>	24/7/2024 6:00 p.m – 7:00 p.m

Advanced Course in Clinical Embryology

Academic Year 2023-2024



Programme of Teaching Module 11

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

Critical Analysis Skills Assessment		August 2024
Round Tables	Topics-Speakers	Date-Time
Round Table I ''The Dos and Don'ts of How to Run a Successful IVF Laboratory''	Instructors to be confirmed	4/9/2024 5:00 p.m – 8:00 p.m
Round Table II "Outliers:	Moderator: Gerry Celia	11/9/2024 5:00 p.m - 7:15 p.m
handling unusual events in the IVF laboratory''	Andrology-The challenge of handling different specimens Liesl Nel-Themaat	11/9/2024 5:00 p.m – 5:20 p.m
	Handling unusual patients-Things to watch out Bryan Kloos	11/9/2024 5:20 p.m – 5:40 p.m
	Oocyte freezing and thawing: What to watch out For Wayne Caswell	11/9/2024 5:40 p.m – 6:00 p.m
	Culture conditions-blastocyst problems: What do we need to know <i>Arthur Chang</i>	11/9/2024 6:00 p.m – 6:20 p.m
	Micromanipulation-Tips and tricks on Biopsy for challenging cases Debbie Venier	11/9/2024 6:20 p.m – 6:40 p.m
	PGT-A: The perspective and responsibility of the geneticist <i>Gary Harton</i>	11/9/2024 6:40 p.m – 7:00 p.m
	Discussion with experts	11/9/2024 7:00 p.m – 7:15 p.m
Round Table III ''The JARG's Round Table: Insights in publishing in	Moderator: David Albertini	18/9/2024 5:00 p.m - 7:00 p.m
	The Editor's perspective: A view from the top 2 decades of change and where we are going <i>David Albertini</i>	18/9/2024 5:00 p.m – 5:25 p.m

Reproductive	What are the characteristics of a publishable	
Medicine'	manuscript	18/9/2024
Heaterne	Pierre Comizzoli	5:25 p.m – 5:50 p.m
	From the trenches: Managing the process of	10/0/2024
	reviewing	18/9/2024
	Arthur Chang	5:50 p.m – 6:15 p.m
	From data analysis to clinical relevance	18/9/2024
	Alex Quass	6:15 p.m – 6:40 p.m
	Discussion with experts	18/9/2024
	Discussion with experts	6:40 p.m – 7:00 p.m
Round Table IV	Moderator: Giles Palmer	25/9/2024
''Training	Moderator. Ones runner	5:00 p.m – 7:30 p.m
Management and	Training and Management	25/9/2024
Development in Clinical	Giles Palmer	5:00 p.m - 5:30 p.m
Embryology''	Staff Recruitment /Worldwide Embryologists Status	25/9/2024
Ellibryology	Joe Conaghan	5:30 p.m – 5:50 p.m
	Responsibilities/Occupational Demands	25/9/2024
	Kathryn Go	5:50 p.m - 6:10 p.m
	Conflict resolution	25/9/2024
	Andrew Thompson	6:10 p.m - 6:30 p.m
	Continuing Professional Development	25/9/2024
	Mara Simopoulou	6:30 p.m – 6:50 p.m
	Wellbeing and Burn-out in the IVF Laboratory	25/9/2024
	Shaista Sadruddin	6:50 p.m – 7:10 p.m
		25/9/2024
	Discussion with experts	7:10 p.m – 7:30 p.m
Written exams on Modules 5-11		
(The examination platform will open on September 27th, 2024, at 5:00 p.m and will close on		
October 2 nd , 2024, at 5:00 p.m)		