

INTERNATIONAL
HUMAN EMBRYOLOGY RESEARCH
ACADEMY



2nd International Conference

Micro emART 2.0

MICRODISSECTION OF EMBRYOLOGY



**FERTILIZATION
SECRET UNVEILED**

Scientific
Program

24th & 25th May, 2025
The Park Hotel

Hyderabad



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Time	Topic	Speaker
Fertilization from the Sperm's Perspective		
Experts: Sanjeev Maheshwari, Charulata Chatterjee		
09:30 - 09:50	The Journey of a Sperm: Challenges and Triumphs in Fertilization	Krishna Chaitanya
09:50 - 10:10	Impact of Sperm Motility & Morphology on Fertilization	Kersi Avari
10:10 - 10:30	Genetic Integrity in Sperm and Its Impact on Successful Fertilization	Sanketh Dhumal
10:30 - 10:45	Discussion	
Fertilization from the Oocyte's Perspective		
Experts: Kersi Avari, Rajvi Mehta, Bindu Chimote, Suresh Kattera		
10:45 - 11:05	The Molecular Mechanisms of Oocyte-Sperm Recognition	Valerio Pisaturo
11:05 - 11:25	Can Oocytes Warmed Using Shortened Protocols Match the Fertilization Potential of Those Warmed by Standard Techniques	Alessandro Bartolacci
11:25 - 11:45	Morphokinetics During Fertilization	Kenji Ezoe
11:45 - 12:05	Smart Digital Holographic Microscopy for IVF Applications	Renu John
12:05 - 12:20	Discussion	
12:20 - 13:00	Panel Discussion - Should We Consider Oocyte Dysmorphism as a KPI for Embryo Selection for Transfer Panelists - MS Srinivas,Vikramjeet Singh, Sanjeev Maheshwari, Hemanth Kumar, Nidhi Singh, Aanantha Lakshmi, Rajvi Mehta, Srikanth Doddamanian	Moderators: Charulata Chatterjee, Sanjay Shukla
13:00 - 13:15	Role of Time Lapse Monitoring in Fertilization Events: Practical Experience	Santosh Bhargava
13:15 - 14:00	Lunch Break	
Fertilization from a Quality Assurance (QA) and Quality Control (QC) Perspective		
Judges: MS Srinivas, Ratna Chattopadhyay		
14:00 - 14:30	Automated ICSI vs Conventional ICSI	For - Prateek Makwana Against - Akash Agarwal
Experts: Charudutt Joshi, P Durai, Deven Patel		
14:30 - 14:50	Impact of Temperature Fluctuation on Fertilization	Vijaykumar Chelur
14:50 - 15:10	What are the Critical Parameters for Monitoring Gamete Quality in a Laboratory Setting?	Sujatha Ramakrishnan
15:10 - 15:30	Sperm Laser Immobilization: A Hit or a Miss?	Rahul Sen
15:30 - 15:50	Rescue ICSI :Efficacy and When To Do	Ratna Chattopadhyay
15:50 - 16:05	Discussion	
16:05 - 16:20	Tea/Coffee Break	

Miscellaneous		
Experts: Krishna Chaitanya, D Swaminathan		
16:20 - 16:40	Comparative Analysis of Conventional IVF vs. ICSI: When, Which and How to Choose	Pranay Ghosh
16:40 - 17:00	The Impact of Fertilization Timing on Embryo Quality and IVF Outcomes	Bala Kumaran
17:00 - 17:15	Discussion	
17:15 - 18:00	Panel Discussion: Managing Fertilization Failure: Causes, Consequences and Future Directions Panelists: Suresh Kattera, Manisha Vajpayee, Mahendra Bhalodiya, Phalguni Patro, Nancy Sharma, Rajeev Sharma	Moderators: Bindu Chimote, Paresh Makwana
18:00 - 18:05	Closing Remarks	
18:05 - 18:30	QUIZ	
18:30 - 19:00	Oral / Poster Presentations	
19:30-Onwards	Inauguration	
1. Vision of Andronet - Hetal Shukla 2. Yearly Report - Nidhi Singh		

Syngamy Hall | Trillion Ballroom Part 2

Time	Topic	Speaker
09:00 - 10:00	Knowledge Partner: Shivani Co-creating IVF Success Bridging Generations in Embryology: A Round Table Between Gen Z IHERians and The Experts- Tips and Tricks : Improving Fertilization Outcomes! Gen Z IHERIAN- Bhavika Gala & Neha Rose Joji	Hector Sainz San Vicente, Alessandro Bartolacci, MS Srinivas, Mahendra Bhalodiya, Shilpa Marwah, Sanjay Yatnale
Gamete Handling and Abnormal Fertilization		
Expert: Sanjeev Maheshwari		
10:00 - 10:20	Sperm and Oocyte Handling in IVF Labs: Key Factors Influencing Fertilization Success	Hector Sainz San Vicente
10:20 - 10:40	Clinical Value of Embryos Derived from Abnormal Fertilization (1PN and 3PN)	Alessandro Bartolacci
10:40 - 11:00	Real Time Morphological Sperm Selection to Improve ICSI Outcomes with The Q300 Device	Alon Shalev
11:00 - 11:20	Discussion	
Sperm Contribution		
Experts: Ved Prakash, Ashwini Kale		
11:20 - 11:40	How Does Media Composition Impact Sperm Capacitation and Fertilization Success?	Bindu Chimote
11:40 - 12:00	IMSI, PICSI and Microfluidic Approaches in Optimizing Sperm for Fertilization	Nishad Chimote
12:00 - 12:20	Oocyte Activation - How Relevant is It for Fertilisation Failure	Keshav Malhotra
12:20 - 12:35	Discussion	
12:35 - 13:30	Panel Discussion- Implementing Quality Audits to Enhance Fertilization Outcomes Panelists: Hetal Shukla, Sanjay Yatnale, Rajul Tyagi, Prateek Makwana, Anuradha Khar, Pranay Ghosh, Atita Shinde, Bala Kumaran	Moderators: Ashwini Kale, Manisha Vajpayee
13:30 - 14:30	Closing Ceremony Followed by Lunch and Paid Workshop	

Paid Workshop

Syngamy Hall | Trillion Ballroom Part 2

EI - Embryology Intelligence

Workshop Chair - Sapna Srinivas

Workshop Coordinators - Naresh Goud, Nandita Relekar

Time	Topic	Speaker
Experts - Mahendra Bhalodiya, Sanjay Shukla, Anuradha Khar		
14:30 - 14:50	Automated Continuous Monitoring Systems	Naval Shah
14:50 - 15:10	Electronic Witnessing System: Minimising Mismatch (MM)	Vasundara Jagannathan
15:10 - 15:30	Aneuploidy Prediction with Ai: How Close Are We?	Amita Subramanian
15:30- 15:40	Discussion	
Experts: Nirmal Bhasin, Charudutt Joshi, Vijayakumar Chelur, Rajul Tyagi		
15:40 - 16:00	ICSI: Robotics Redefining Micromanipulation	Ramnath Babu
16:00 - 16:20	PGT- Current Updates	Roya Rozati
16:20 - 16:40	Vitrification: The Fast & The Fertile	Yogitha Rao
16:40 - 16:50	Discussion	
16:50 - 17:10	Automated Lab-The Future calling	Paritosh Shekhar
17:10 -17:40	Panel Discussion - Rise of Automation in Embryology: Has It Made Your Job Easy? Panelists: Sanketh Dhumal, Pradeep Kumar, Shamsheer Ali, Deepthi Repalle, Nirmal Bhasin	Moderators: Akash Agarwal, MS Srinivas

Zygote Hall | Trillion Ballroom Part 3

Time	Topic	Speaker
09:00 - 10:00	Knowledge Partner: Shivani Co-creating IVF Success Bridging Generations in Embryology: A Round Table Between Gen Z IHERians and the Experts - Factors Affecting Fertilization! Gen Z IHERIAN- Sneha Tennati & Niveen Ahmed	Valerio Pisaturo, Mattan Levi, Rakesh Samal, Sanya Kalra, Vanshika Jain
Fertilization From an IVF Lab Perspective		
Experts: Bindu Chimote, Ved Prakash, MS Srinivas, Sujatha Ramakrishnan		
10:00 - 10:20	Importance of Fert Check and Zygote Assessment	Goral Gandhi
10:20 - 10:40	Pronuclear Arrest- Mysteries and Solutions	Valerio Pisaturo
10:40 - 11:00	Optimizing Fertilization Outcomes with Surgically Retrieved Sperm: Techniques, Challenges, and Innovations	Sandeep Karunakaran
11:00 - 11:20	Discussion	
Advancing Fertility: AI, QA & Lifestyle Factors		
Experts: Nirmal Bhasin, Sanjay Shukla, Suvarchala Chekuri, Rahul Sen		
11:20 - 11:40	Traceability in Fertilization Processes: QA Perspective	Sindhuja Srinivasan
11:40 - 12:00	The Impact of Artificial Intelligence (AI) on Fertilization Outcomes in IVF	Kenji Ezoe
12:00 - 12:20	Environmental and Lifestyle Factors Influencing Fertility: Impact on Sperm and Oocyte Quality	Rajvi Mehta
12:20 - 12:35	Discussion	
12:35 - 13:30	Panel Discussion - From Oocyte Activation to Zygote Formation: Troubleshooting Fertilization Failures Step-By-Step Panelists: Vijayakumar Chelur, Suresh Kattera, Ajay Srivastava, Nishad Chimote, Tarika Deora, Nivita Gu gnani	Moderators: D Swaminathan, Charudutt Joshi
13:30 - 14:30	Closing Ceremony Followed by Lunch and Paid Workshop	

Paid Workshop

Zygote Hall | Trillion Ballroom Part 3

Smart Sperm Selection Techniques

Workshop Chair - Suvarchala Chekuri

Workshop Coordinators- Venkateswara Rao Nambula, Lakshmi Narasimha Rao P

Experts - Charulata Chatterjee, Sandeep Karunakaran

Time	Topic	Speaker
14:30 - 14:50	Introduction to Sperm Selection Techniques	Chandan N
14:50 - 15:10	Microfluidics-The ART of Sperm Selection!	Deven Patel
15:10 - 15:30	MACS: Viablity and FE: Is It Convenient	Suvarchala Chekuri
15:30- 15:40	Discussion	
Experts: Jay Prakash, Usha Satish, Meeta Sharma		
15:40 - 16:00	PICSI- Is It Only Logical ?	Suhasini Donthi
16:00 - 16:20	Third Eye(AI)- Role On Sperm Selection	Dileep G
16:20 - 16:40	Q300 Device:- Real Time Smart Sperm Selection - Video Demonstration	Alon Shalev
16:40 - 16:50	Discussion	
16:50 - 17:10	Sperm Selection - What Future Upholds ?	Arun Kumar
17:10 -17:40	Panel Discussion - Best & Most Convenient Method of Sperm Selection: Which One to Choose Panelists: Naresh G, Lakshmi Narasimha Rao P, Venkateswara Rao Nambula, Hemanth V, A.Rajyalakshmi, Nandita R , Shalini, Hetal Shukla	Moderators: P Durai, Vakil Jagveer Singh



Venue

The Park Hotel
Hyderabad

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