

Insights into Infertility Management: Artificial Intelligence (AI), Challenges, and Prospects

Day 1 (December 11, 2024)				
Panel Chair	Panel Title	Panel Members	Venue	Time
Dr. Alireza Heidarnejad	The Role of AI in Optimizing Egg, Sperm, and Embryo Selection in Assisted Reproductive Technology (ART)	Dr. Majid Ebrahimi Warkiani (Australia) AI-enabled Microfluidic Technologies for ART	Abu Reihan Hall	08:00-9:30
		Dr. Mohammad Hossein Nasr Esfahani - Dr. Davood Fathi, Dr. Mohammad Reza Sadeghi, Dr. Mina Vardiani, Dr. Nima Narimani		
Dr. Sedigheh Hantoushzadeh	The Role of AI in Ensuring Healthy Births	Dr. Soudabeh Kazemi, Dr. Marjan Ghaemi, Dr. Hamid Mokhtari	Allameh Tabatabai Hall	08:00-9:30
Keynote Lecture (AI for Male Fertility by Dr. Reza Nosrati (Australia); 09:30-10:00; Abu Reihan Hall)				
Opening Ceremony 10:00-11:00 Break 11:00-12:00				
Dr. Ashraf Alyasin	The Role of AI in Predicting IVF Treatment Outcomes for Unexplained Infertility	Dr. Fatemeh Ghalambor, Dr. Aida Najafian, Dr. Firouzeh Ghaffari, Dr. Marzieh Ghasemi, Dr. Hossein Ahmadvand	Abu Reihan Hall	12:00-13:30
Dr. Hamid Beigi	Chatbot, the Way to Increase Fertility Awareness	Dr. Mahmoud Tara, Dr. Soheila Ansari-pour, Dr. Reza Rabiei	Allameh Tabatabai Hall	12:00-13:30
Lunch Break 13:30-15:00				
Keynote Lecture (Genetics and AI by Dr. Saeed Reza Ghaffari; 15:00-15:30; Abu Reihan Hall)				
Dr. Saeed Reza Ghaffari	Genetic Diseases: The Role of AI in Prediction, Diagnosis, and Promoting Healthy Pregnancies	Dr. Fereshteh Maryami, Dr. Damoun Nashtaali, Dr. Mahdieh Soleymani	Abu Reihan Hall	15:30-17:00
Dr. Zeinab Barzegar	Data Preparation, Aggregation, and Transformation in AI Applications	Dr. Habibollah Asgari, Dr. Ali Sadeghitabar, Dr. Ali Akbar Kiaei	Allameh Tabatabai Hall	15:30-17:00
Break				

Day 2 (December 12, 2024)

Keynote Lecture (The Value of Risk Prediction Models Based on Machine Learning for Predicting Recurrent Pregnancy Loss by Dr. Amir Hassan Zarnani; 08:00-08:30; Abu Reihan Hall)				
Dr. Ashraf Moeini	Recurrent Miscarriage, Diagnosis, and Treatment Using AI	Dr. Amir Hossein Zarnani, Dr. Ladan Kashani, Dr. Maryam Moshfeghi, Dr. Navid Almadani, Dr. Maedeh Tahaei	Abu Reihan Hall	08:30-10:00
Dr. Arash Mohazzab	The Role of AI in Research	Dr. Zeinab Barzegar, Dr. Amir Hossein Shirazi, Zohreh Fazli	Allameh Tabatabai Hall	08:30-10:00
Break 10:00-11:00				
Keynote Lecture (The Role of Artificial Intelligence in Drug Discovery and Development by Dr. Hassan Homayoun; 11:00-11:30; Abu Reihan Hall)				
Dr. Zahra Heidar	The Role of AI in Personalizing Ovarian Stimulation Protocols	Dr. Fatemeh Forouzanfard, Dr. Nezhat Mousavifar, Dr. Azadeh Akbari, Dr. Hamid Mokhtari, Dr. Marzieh Farimani	Abu Reihan Hall	11:30-13:00
Dr. Saeed Arasteh	The Role of AI in Management of Male Factor Infertility	Dr. Naser Amir Jannati, Dr. Fatemeh Kheirkhah, Dr. Alireza Chamani Tabriz, Dr. Shadi Oyarhossein	Allameh Tabatabai Hall	11:30-13:00
Lunch Break 13:00-14:00				

	Keynote Lecture (The Success of IVF by Dr. Abbas Aflatoonian; 14:00-14:30)			
Dr. Robabeh Taheripanah	The Role of AI in Predicting IVF Success	Dr. Mohammad Ebrahim Parsanejad, Dr. Abbas Aflatoonian, Dr. Marefat Ghaffari Novin, Dr. Maedeh Tahaei	Abu Reihan Hall	14:30-16:00
Dr. Mohammad Rasekh	Ethics of AI and ARTs	Dr. Alireza Milanifar, Dr. Fereshteh Azedi, Dr. Behzad Ghorbani, Faezeh Ameri	Allameh Tabatabai Hall	14:30-16:00
Day 3 (December 13, 2024)				
	Keynote Lecture (Bringing the IVF Lab into the Digital Age by Dr. Andrew Thomson (UK); 08:00-08:30)			
Dr. Saghar Salehpour	The Role of AI in PCOS Prognosis, Diagnosis, and Medical Treatment Algorithms	Dr. Atousa Karimi, Dr. Mahsa Kazemi, Dr. Sedigeh Hosseini, Dr. Mohammad Reza Sadeghi, Dr. Ali Ali Akbarlu	Abu Reihan Hall	08:30-10:00
Break 10:00-10:15				
Dr. Abolfazl Mehdizadeh	Laparoscopy, Robotic Surgery, and AI Application	Dr. Camran Nezhat (USA): How Artificial Intelligence, Virtual Reality, and Robotics Technologies Are Changing the Practice of Medicine and Surgery Dr. Hassan Homayoun, Dr. Shahla Chaichian, Dr. Alireza Mirbagheri	Abu Reihan Hall	10:15-11:45
	Keynote Lecture (Adenomyosis Guidelines and the Role of AI in Guideline Design by Saeed Alborzi; 11:45-12:15)			
Dr. Saeed Alborzi	The Role of AI in Predicting and Guiding the Diagnosis and Treatment Algorithms for Endometriosis	Dr. Ziba Zahiri, Dr. Tahereh Pourdast, Dr. Elham Askari, Dr. Mehrzad Lotfi, Dr. Khadijeh Shadjoo, Dr. Roya Padmehr	Abu Reihan Hall	12:15-13:45
Closing Ceremony 13:45-14:30				