

23rd Congress on
**Reproductive
Biomedicine**

18th Congress on
**Stem Cell Biology
& Technology**

2023

KAZEMI PRIZE

In commemoration of Dr Kazemi,
the Late founder of Royan Institute



www.kazemiprize.org

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General Information

Venue	Razi International Conference Center, Tehran, Iran
Date	7-9 September 2022
Official Language of Congress	English
Registration	On-site Registration: 7 September 2022
Speaker's Presentation Process	All speakers are kindly requested to submit their presentation Power-Point slides to our technician at least one hour before the presentation.
Poster	Posters are available for visit at the poster section during the congress time on the First floor.
Badges	All the participants are requested to wear their badges all the time. The badges contain bar codes that will be used for congress lunch, bag and certificate of attendance.
Meals	<ul style="list-style-type: none"> • Coffee break will be available daily at 10:30-11:00, 15:30-16:00 on the First floor. • Lunch break will be available on days 1& 2 at 13:00-14:00 on the Ground floor.
Note	<i>All information regarding Congresses' invited speakers is listed alphabetically according to their last name.</i>

Sponsors



Program at a glance

Wednesday <i>(7 September, 2022)</i>	Hall		8.30-10.30		10:30-11:00		11:00-13:00		13:00-14:00	Hall	14:00 – 16:00	16:00-16:30	16:30 – 18:30			
	Hall 1	Keynote opening <i>(Joint session for two congresses)</i>														
			Coffee break & exhibition & poster reading													
		Award ceremony (Hall 1) <i>(Joint session for two congresses)</i>														
		Lunch break & exhibition & poster reading										Hall 1	Biofabrication		16:30 – 18:30	
		Hall 2	Cryopreservation for adult and prepubertal patients at risk of infertility										Controlled delivery systems			
		Hall 3	Male infertility: Pathogenesis, diagnosis and treatment										Reproductive animal biotechnology: Implications and potentials			
	Coffee break & exhibition & poster reading										Introduction and treatment management in diminished ovarian reserve <i>(In Persian)</i>					

Thursday <i>(8 September, 2022)</i>	Hall		8.30 - 10.30		10:30-11:00		11:00-13:00		13:00-14:00	Hall	14:00 – 16:00	16:00-16:30	16.30 – 18:30					
	Hall 1	Molecular biomedicine																
		Coffee break & exhibition & poster reading										Hall 1	Regenerative medicine products		Regenerative medicine			
	Hall 2	Endometriosis: Clinical presentation and imaging features		Lab strategies towards single embryo transfer										Hall 2	Repeated Implantation Failure (RIF) and Recurrent Spontaneous Abortion (RSA): Clinical and molecular aspects		Short oral presentation	
		Lunch & Prayer										Hall 3	Improving fertility following reconstructive surgeries <i>(In Persian)</i>		Latest achievements in infertility <i>(In Persian)</i>			
	Hall 3	Reproductive Genetics		Metabolic disorders in reproductive health										Coffee break & exhibition & poster reading				
	Coffee break & exhibition & poster reading																	







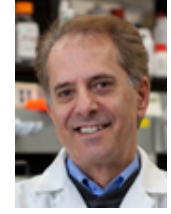
Friday <i>(9 September, 2022)</i>	Hall	8.30 - 10.30			10:30-11:00	11:00-13:00			13:00-14:00		
	Hall 1	Materials science in tissue engineering								Organoids	
	Hall 2	Challenges affecting outcomes of ART cycles; Proven and unproven methods for diagnosis and treatment of infertility								Keynote on reproductive biology <i>(Join hall 2 & 3)</i>	
	Hall 3	Animal models and reproductive medicine									
	Coffee break										Closing ceremony <i>(Hall 1)</i>










23rd Congress on Reproductive Biomedicine





International Invited Speakers
23rd Royan International Congress on Reproductive Biomedicine (2022)

No.	Name	Position	Image
1.	Dr. Ashok Agarwal (USA)	Research Director, American Center for Reproductive Medicine, Global Andrology Forum. <i>Former Head of Andrology Center at Cleveland Clinic Foundation</i>	
2.	Dr. Zahra Anvar (USA)	Instructor at Baylor College of Medicine, Houston	
3.	Dr. Jan Brosens (UK)	Co-director, Centre for Early Life, University of Warwick	
4.	Dr. Francisco Carmona (Spain)	Chief of Gynecology, Hospital Clinic Barcelona <i>Current President of Endometriosis and Uterine Disorder Society (SEUD)</i>	
5.	Dr. Charles Chapron (France)	Head of the Department of Obstetrics and Gynecology II and Reproductive Medicine, Cochin University Hospital <i>Former president of Endometriosis and Uterine Disorder Society (SEUD)</i>	
6.	Dr. Maurizio Dattilo (Switzerland)	R&D Director, Parthenogen	
7.	Dr. Isabelle Demeestere (Belgium)	Responsible for the Oncofertility Unit at the Fertility Clinic - CUB Erasme and Director of the Research Laboratory on Human Reproduction at ULB	


8.	Dr. Cinzia Santa Di Pietro (Italy)	Associate Professor of Biology and Genetics, University of Catania	
9.	Dr. Joel R. Drevet (France)	Chair and Professor of Reproductive Biology & Immunology, University Clermont Auvergne (UCA), Clermont-Ferrand	
10.	Dr. Stephen Frankenberg (Australia)	Research Associate at Department of Zoology, University of Melbourne	
11.	Dr. Aleksander Giwercman (Sweden)	Senior Consultant at Division of Molecular Reproductive Medicine, Department of Translational Medicine, Lund University	
12.	Dr. Murat Gul (Turkey)	Assistant Professor of Urology at Selcuk University School of Medicine	
13.	Dr. Jorge Hallak (Brazil)	Full Professor of Medicine at the Faculty of Medicine of the University of São Paulo (FMUSP) and Specialized in Urology at FMUSP	
14.	Dr. Ali Honaramooz (Canada)	Full Professor of Veterinary Biomedical Sciences	

15.	Dr. Fatimah Husain (UK)	Associate Professor and WPH Site Director for the American University of the Caribbean, IVF Specialist, Thames Valley Fertility	
16.	Dr. Akash Kumar (USA)	Co-Founder, Chief Medical and Scientific Officer at MyOme Inc	
17.	Dr. Reza Nosrati (Australia)	Senior Lecturer, Mechanical and Aerospace Engineering at Monash Data Futures Institute	
18.	Dr. Vasantha Padmanabhan (USA)	Professor Emerita (in service) at University of Michigan	
19.	Dr. Germar-Michel Pinggera (Austria)	Professor at Department of Urology, Innsbruck Medical University	
20.	Dr. George Pistofidis (Greece)	Director of Gynecological Endoscopic Surgery at Levkos Stavros Clinic and Director of ACET Laparoscopic Training Centre	

22.	Dr. Alexander Popov (Russia)	Head of Gynecology and Oncology Surgery Department in the Moscow Regional Scientific Research Institute of Obstetrics and Gynecology	
23.	Dr. Pierre Ray (France)	Coordinator of the DPI Center Grenoble Alpes	
24.	Dr. Adolfo Flores-Saiffe (UK)	Head of Research at IVF 2.0 Limited, UK	
25.	Dr. Shigeru Saito (Japan)	President of University of Toyama	
26.	Dr. Denny Sakkas (USA)	Scientific Director at Boston IVF	
27.	Dr. Pietro Santulli (France)	Director of the Reproductive Medicine Department at Cochin University Hospital	
28.	Dr. Chun So (Germany)	Group Leader and Assistant Investigator, National Institute of Biological Sciences, Beijing	

29.	Dr. Herman Tournaye (Belgium)	Chairman of Brussels IVF, the Centre for Reproductive Medicine, University Hospital of Brussels	
30.	Dr. Evrim Ünsal	Associated Professor at Yüksek İhtisas University, Faculty of Medicine, Department of Medical Genetics	
31.	Dr. Alberto Vaiarelli (Italy)	Medical Scientific Coordinator at GeneraLife Centers for Reproductive Medicine	
32.	Dr. Hossein Yazdkhasti (USA)	Principal Investigator (PI) and Embryologist at CCRM	

No.	Name	Position	Image
1.	Dr. Abbas Aflatoonian	Professor of Obstetrics and Gynecology, Infertility, Shahid Sadoughi Medical University	
2.	Dr. Saeed Alborzi	Professor and Chairman of Department of Obstetrics and Gynecology, Shiraz University of Medical Sciences. Head of Gynecologic Endoscopy and Endometriosis Division. <i>President of Asian Society of Endometriosis and Adenomyosis(ASEA)</i>	
3.	Dr. Ashraf Aleyasin	Head of Obstetrics and Gynecology, Department of Shariati Hospital	
4.	Dr. Fatemeh Sadat Amjadi	Assistant Professor of Embryology in IVF lab in Akbarabadi Hospital, Iran University of Medical Sciences	
5.	Dr. Narges Bagheri Lankarani	Assistant Professor at Reproductive Epidemiology Department, Royan Institute	
6.	Dr. Shahin Eghbalsaied	Associate Professorat Medical Biotechnology Department, Islamic Azad University of Isfahan Branch	
7.	Dr. Ahmad Esmailzadeh	Professor of Nutrition at Department of Community Nutrition, School of Nutritional Sciences and Dietetics, Tehran University of Medical Sciences	
8.	Dr. Marzie Farimani	Founder and Director of of Omid Fertility and Infertility Center. Founder of endomertium and endometriosis research center.	
9.	Dr. Mehdi Hajian	Vice President of Isfahan Royan Biotechnology Research Institute	
10.	Dr. Mehri Kalhor	Kowsar hospital, Qazviin University Medical of Science	

11.	Solmaz Kouhestani	Researcher at Department of Endocrinology and Female Infertility, Reproductive Biomedicine Research Center, Royan Institute	
12.	Dr. Minoosh Moghimi	Associate Professor of Hematology and Oncology at Department of Internal Medicine, School of Medicine, Vali-e-Asr Hospital	
13.	Dr. Ashraf Moini	Professor at Department of Obstetrics and Gynecology, Tehran University of Medical Science. Senior Researcher at Department of Endocrinology and Female Infertility, Reproductive Biomedicine Research Center, Royan Institute	
14.	Dr. Mohammad Hossein Nasr-Esfahani	Founder and Director of Isfahan Royan Biotechnology Research Institute. Founder of Isfahan Fertility and Infertility Center	
15.	Dr. Maryam Niknejadi	Technical Manager and Assistant Professor at Department of Reproductive Imaging at Royan Institute	
16.	Dr. Reza Omani Samani	Head of Department of Epidemiology and Reproductive Health, Royan Institute	
17.	Dr. Mohammad Ebrahim Parsanezhad	Head of Division of Infertility & Reproductive Medicine, Department of Obstetrics and Gynecology, Medical School, Shiraz University of Medical Sciences. <i>President of Iranian Society for Reproductive Medicine (ISRM)</i>	

18.	Dr. Mazdak Razi	Associate Professor of Histology and Embryology in Urmia University	
19.	Dr. Mohamad Ali Sadighi Gilani	Associate Professor of Urology, Tehran University of Medical Science. Head of Andrology Department, Royan Institute of Infertility	
20.	Dr. Marzieh Tavalae	Associate Professor at Reproductive Biotechnology, Royan Institute	
21.	Dr. Ahmad Vosough	Deputy of Specialized Services, Royan Institute	

September 7, 2022, 8:00-8:30, Hall 1 (Joint Session of Two Congresses)

Opening ceremony	
8:00 – 8:05	Holy Quran & Iranian national anthem
8:05 – 8:10 Bahar Movaghar (Iran)	23 rd Congress chairperson, reproductive biomedicine
8:10-08:15 Hamed Daemi (Iran)	18 th Congress chairperson, stem cell biology & technology
8:15-8:22 Mohammad Ebrahim Parsanezhad (Iran)	President of Iranian society for reproductive medicine (ISRM)
8:23-8:30 Amir Ali Hamidieh (Iran)	Secretary of council for development of stem cell sciences and technologies

September 7, 2022, 8:30- 10:30, Hall 1 (Joint Session of Two Congresses)

Keynote lectures (Hall 1)	
Chairpersons: A. Aflatoonian, M.A. Sadighi Gilani, S. Khoei	
8:30-9:00 Ashok Agarwal (USA)	New generation artificial intelligence powered andrology diagnostics offers a total solution for male infertility
9:00-9:30 Amir Ali Hamidieh (Iran)	Cell-based immunotherapy: Overview and products
9:30–10:00 Saeed Alborzi (Iran)	The success of various endometrioma treatments in infertility: A systematic review and meta-analysis of prospective studies
10:00-10:30 Randy Schekman (USA)	Intercellular transfer of proteins and RNA mediated by cell-cell contact

September 7, 2022, 11:00 – 13:00, Hall 1 (Joint Session of Two Congresses)

11:00-13:00	Award ceremony
13:00-14:00	Lunch break, exhibition & poster session

September 7, 2022, 14:00 – 18:30, Hall 2

Cryopreservation for adult and prepubertal patients at risk of infertility	
Chairpersons: I. Demeestere, M. Salehnia, F. Amidi, B. Ebrahimi, H. Tournaye	
14:00- 14:30 Isabelle Demeestere (Belgium)	Indication and success of ovarian tissue cryopreservation
14:30- 15:00 Minoosh Moghimi (Iran)	Challenges of oncofertility and fertility preservation in cancer patients in the point of view of oncology aspects
15:00-15:30 Herman Tournaye (Belgium)	Fertility preservation in boys
15:30-16:00 FatemeSadat Amjadi (Iran)	Male fertility preservation in non-oncological disease
16:00- 16:30	Coffee break, exhibition & poster reading

Reproductive animal biotechnology: Implications and potentials

Chairpersons: R. Nosrati, M. Razi, S. Eghbalsaied, M. Hajian, A. Dalman

16:30-17:00 Reza Nosrati (Australia)	Lab on a chip devices for fertility
17:00-17:30 Shahin Eghbalsaied (Iran)	On target knockin of large constructs into the mouse genome via combining CRISPR/Cas9 and nocodazole
17:30-18:00 Mazdak Razi (Iran)	Varicocele and autophagy: Cross talk between oxidative stress, metabolic disorders and autophagy
18:00-18:30 Mehdi Hajian (Iran)	Enhancement of developmental competence in goat SCNT with sequential IVM by CNP, PGE2 and AREG

September 7, 2022, 14:00 – 18:30, Hall 3

Male infertility: Pathogenesis, diagnosis and treatment

Chairpersons: E. Vogiatzi, A. Giwercman, S. Vahidi, S. H. Sajadi

14:00-14:30 Germar-Michel Pinggera (Austria)	Is there a role for antioxidative management in male infertility treatment?
14:30-15:00 Aleksander Giwercman (Sweden)	Why bother about male infertility? Implications for the male, female and the children
15:00-15:30 Marziyeh Tavalaei (Iran)	Could artificial oocyte activation following ICSI improve fertilization, and pregnancy in couples with male factor infertility <i>(National Winner of the 21st Royan International Research Award)</i>
15:30-16:00 Ahmad Vosough (Iran)	How to find the cause of male infertility
16:00-16:30	Coffee Break, Exhibition & Poster Reading

Introduction and treatment management in diminished ovarian reserve (In persian)

Chairperson: Z. Ezabadi

Panel members: T. Madani, M. Mashayekhi, S. N. Almadani, B. Ebrahimi, A. Ghaheri, M. Bagheri

16:30-18:30 Panel Discussion	Definition, classification and treatment, genetic issues, fertility preservation and epidemiology of patients with diminished ovarian reserve; The role of midwives and nurses in counseling and psychological and emotional support in patients with diminished ovarian reserve
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September 8, 2022, 8:30 – 13:00, Hall 2

Endometriosis: Clinical presentation and imaging features

Chairpersons: C. Chapron, F. Carmona, S. Alborzi, F. Ghaffari, E. Tehraninejad

8:30-8:50 Charles Chapron (France)	Why endometriosis must be considered as a systemic disease?
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8:50-9:10 Francisco Carmona (Spain)	Endometrioma management in the infertile patients
9:10-9:30 Saeed Alborzi (Iran)	Diagnostic accuracy of magnetic resonance imaging, trans-vaginal, and transrectal ultrasonography in deep infiltrating endometriosis
9:30-9:50 Alexander Popov (Russia)	DIE-related infertility: How we can improve the reproductive outcomes
9:50-10:10 Pietro Santulli (France)	Management of adenomyosis and infertility: ART
10:10-10:30 George Pistofidis (Greece)	Surgical aspect of adenomyosis
10:30-11:00 Coffee break, exhibition & poster reading	

Lab strategies towards single embryo transfer	
Chairpersons: D. Sakkas, M. Movahedin, H. Choobineh, F. Hasani	
11:00-11:30 Denny Sakkas (USA)	Lab strategies towards single embryo transfer
11:30-12:00 Hossein Yazdkhasti (USA)	Toward single embryo transfer, the power of one
12:00-12:30 Adolfo Flores-Saiffe (UK)	Artificial intelligence as a strategy for single-embryo transfer
12:30-13:00 Ashraf Moini (Iran)	Company Symposium Medical treatment in endometriosis
13:00- 14:00 Lunch break, exhibition & poster session	

September 8, 2022, 8:30 – 13:00, Hall 3

Reproductive genetics	
Chairpersons: H. Gourabi, M.R Zamanian, P. Afsharian	
8:30-9:00 Pierre Ray (France)	New discoveries in genetic etiologies of infertility
9:00-9:30 Evrin Ünsal (Turkey)	NGS based male and female infertility panels
9:30-10:00 Cinzia Santa Di Pietro (Italy)	Non-coding RNAs in ovarian follicle microenvironment and their altered expression in reproductive aging
10:00-10:30 Akash Kumar (USA)	Expanding the scope of preimplantation genomic testing in IVF
10:30-11:00 Coffee break, exhibition & poster reading	

Metabolic disorders in reproductive health	
Chairpersons: A. Esmailzadeh, M. Moshfeghi, L. Giali, A. Alizadeh, R. Hosseini	
11:00-11:30 Murat Gul (Turkey)	Obesity and male infertility: The effect of obesity on ART outcomes

11:30-12:00 Ahmad Esmailzadeh (Iran)	Abdominal fat accumulation and reproductive health in female
12:00-12:30 Narges Lankarani (Iran)	ART and GDM children follow up: A cohort study
12:30-13:00 Vasantha Padmanabhan (USA)	Developmental programming of metabolic dysfunctions by testosterone excess
13:00-14:00 Lunch break, exhibition & poster reading	

September 8, 2022, 14:00-18:30 , Hall 2

Repeated Implantation Failure (RIF) and Recurrent Spontaneous Abortion (RSA): Clinical and molecular aspects	
Chairpersons: S. Saito, S. Arefi, P. Eftekhari Yazdi, H. Kalantar, M. Bazrgar	
14:00- 14:30 Shigeru Saito (Japan)	Repeated Implantation Failure (RIF) and Recurrent Pregnancy Loss (RPL): Immunological aspects
14:30-15:00 Jan Brosens (UK)	New insight into embryo implantation and miscarriage
15:00-15:30 Chun So (Germany)	A missing motor in human meiosis
15:30-16:00 Marzie Farimani (Iran)	Repeated implantation failure and adjuvants therapies
16:00- 16:30 Coffee break, exhibition & poster reading	

Short oral presentation

Chairpersons: M. Sabaghian, M. Hafezi, R. Fathi, Sh. Moradi	
16:30-18:30	Short oral presentation

September 8, 2022, 14:00-18:30, Hall 3

Improving fertility following reconstructive surgeries (In persian)	
Chairperson: M. Oroomiechiha Panel members: A. Moeini, M. Faridi, S. Irani, Z. Hesari	
14:00- 16:00 Panel discussion	Acquired and congenital anomalies of the uterus in infertility, reconstructive surgeries in isthmocele and hydrosalpinx, application of imaging in the diagnosis of isthmocele and hydrosalpinx, management of patients following reconstructive surgery
16:00-16:30 Coffee break, exhibition & poster reading	

Latest achievements in infertility (In persian)

Chairpersons: M. A. Sadighi Gilani, R. Omani Samani, N. S. Mirghavamedin, M. Moshfeghi, M. Sadeghi	
16:30-16:50 Mohamad Ali Sadighi Gilani (Iran)	Age, disease and its effect on male fertility

16:50 – 17:10 Solmaz Kouhestani (Iran)	The predictive value of serum human chorionic gonadotropin (β -hCG) in detection of ectopic pregnancy following Assisted Reproductive Technology (ART)
17:10-17:30 Mehri Kalhor (Iran)	Relationship between ovarian reserve markers with uterine congenital anomalies
17:30-17:50 Reza Omani Samani (Iran)	Ethical and legal issues in female fertility preservation
17:50-18:10 Fatima Husain (UK)	Social and ethical dilemmas faced by Muslim infertile couples worldwide with respect to gamete donation
18:10-18:30 Masoomeh Namazi (Iran)	Designing and psychometric properties of endometriosis reproductive health questionnaire (ERHQ)

September 9, 2022, 8:30 – 10:30, Hall 2

Challenges affecting outcomes of ART cycles; Proven and unproven methods for diagnosis and treatment of infertility	
Chairpersons: M.E. Parsanezhad, A. Aleyasin, A. Vaiarelli, M. Ashrafi, M. Mashayekhi	
8:30-8:55 Abbas Aflatoonian (Iran)	Update on the management of poor ovarian response in ART cycles
8:55-9:20 Alberto Vaiarelli (Italy)	Assisted reproduction techniques challenges and management options
9:20-9:45 Ashraf Aleyasin (Iran)	Empty follicle
9:45- 10:05 Maryam Niknejadi (Iran)	Challenges of radiological diagnostic methods in ART
10:05-10:30 Mohammad Ebrahim Parsanezhad (Iran)	Updates on the management of uterine myoma in infertility treatment
10:30-11:00 Coffee break, exhibition & poster reading	

September 9, 2022, 8:30 – 10:30, Hall 3

Animal models and reproductive medicine	
Chairpersons: Z. Anvar, A. Honaramooz, F. Jafarpour, S. Tavana	
8:30-9:00 Ali Honaramooz (Canada)	The application of animal models in preservation of male fertility
9:00-9:30 Zahra Anvar (USA)	Transcriptome profiling of Nlrp2-null mice oocytes
9:30-10:00 Bjorn Petersen (Germany)	Optimized Cas9: sgRNA delivery efficiently generates biallelic MSTN knockout sheep without affecting meat quality
10:00- 10:30 Stephen Frankenberg (Australia)	CRISPR conservation: Synthetic biology with ecological therapeutic applications
10:30-11:00 Coffee break, exhibition & poster reading	

September 9, 2022, 11:00 – 13:00, Hall 2 (Joint Session for Hall 2 & 3)

Keynote closing	
Chairpersons: M.H. Nasr Esfahani, M. A. Sadighi Gilani, A.H. Shahverdi, S.J. Hosseini	
11:00-11:30 Jorge Hallak (Brazil)	SARS-CoV-2 and the impact of COVID-19 on male Reproductive health and implications on the use of ART
11:30-12:00 Joel R. Drevet (France)	Oxidative stress and the structure and function of human spermatozoa
12:00-12:30 Maurizio Dattilo (Switzerland)	Metabolic checkpoint for gametes and embryo reproductive competence
12:30-13:00 Mohammad Hossein Nasr-Esfahani (Iran)	Myth and facts of sperm DNA fragmentation in assisted reproduction

September 9, 2022, 13:00 – 14:00, Hall 1 (Joint session of two congress)







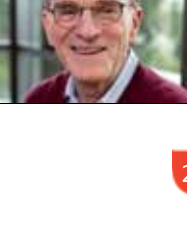
Closing ceremony






18th Congress on **Stem Cell Biology & Technology**


18th Royan International Congress on Stem Cell Biology & Technology (2022)






No.	Name	Position	Image
1.	Dr. Mohsen Adeli (Germany)	Guest Professor, Free University of Berlin	
2.	Dr. Fatemeh Ajalloueiian (Denmark)	Associate Professor at Technical University of Denmark (DTU)	
3.	Dr. Bartomeu Colom (UK)	Senior Staff Scientist at Wellcome Sanger Institute	
4.	Dr. David Hay (UK)	Chair of Tissue Engineering at Centre for Regenerative Medicine Institute for Regeneration and Repair, The University of Edinburgh	
5.	Dr. Gilson Khang (South Korea)	Professor at Chonbuk National University	
6.	Dr. Jette Lengefeld (Finland)	Assistant Professor at Institute of Biotechnology, HiLIFE, University of Helsinki	

7.	Dr. Omid Mashinchian (Switzerland)	Team Leader and Specialist in Bioengineering and Precision Regenerative Medicine at Nestlé Research, Nestlé Institute of Health Sciences	
8.	Dr. Mahsa Mollapour Sisakht (Netherlands)	Researcher in Applied Cell Science, Erasmus University Medical Center	
9.	Dr. Ebrahim Mostafavi (USA)	Researcher at Stanford Cardiovascular Institute, Stanford School of Medicine	
10.	Dr. Amir Nasiri Kenari (Japan)	Researcher at Tokyo Institute of Technology	
11.	Dr. Andreas Nüssler (Germany)	Director of Siegfried Weller Institute, BG Klinik, University of Tuebingen	
12.	Dr. Farzin Pourfarzad (Netherlands)	Research Director at Disease Modeling and Toxicology Department, Hubrecht Organoid Technology	
13.	Dr. Randy Schekman (USA)	Investigator and Professor of Cell and Developmental Biology at Howard Hughes Institute, Department of Molecular & Cell Biology; Winner of Nobel Laureate in Physiology or Medicine (2013)	

14.	Dr. Ana Claudia Trocoli Torrecilhas (Brazil)	Associate Professor at Federal University of Sao Paulo UNIFESP	
15.	Dr. Ana Ivonne Vazquez-Armendariz (Germany)	Group Leader for Lung Organoids and Disease Modeling at the Institute of Lung Health	
16.	Dr. Majid Ebrahimi Warkiani (Australia)	Professor in the School of Biomedical Engineering, UTS	

Iranian Speakers of 18th Congress on Stem Cell Biology and Technology

No.	Name	Position	Image
1.	Dr. Sadegh Babashah	Assistant Professor of Molecular Genetics, Tarbiat Modares University	
2.	Dr. Mohsen Basiri	Assistant Professor at Department of Stem Cells and Developmental Biology, Royan Institute	
3.	Dr. Razieh Dalirfardouei	Assistant Professor at Department of Medical Biotechnology, Hamedan University of Medical Sciences	
4.	Dr. Mohammad Hossein Ghanian	Assistant Professor at Department of Stem Cell Biology and Technology, Royan Institute	
5.	Dr. Ensiyeh Hajizadeh-Saffar	Director of Advanced Therapy Medicinal Product Technology Development Center, Royan Institute	
6.	Dr. Amir Ali Hamidieh	Professor of Pediatrics at Tehran University of Medical Sciences. <i>Secretary of Council for Development of Stem Cell Sciences and Technologies</i>	
7.	Dr. Mehdi Jaymand	Research Assistant at Nano Drug Delivery Research Center, kermanshah University of Medical Sciences	
8.	Dr. Vahid Khoddami	Assistant Professor at Tehran University of Medical Sciences	

9.	Dr. Sepideh Khoee	Professor of Polymer Chemistry at Tehran University	
10	Dr. Mansouri Kamran	Head of Molecular Medicine and Dean of Medical Biology Research Center at Kermanshah University of Medical Sciences	
11	Dr. Abbas Mohammadi	Assistant Professor at Department of Polymer Chemistry, University of Isfahan	
12	Dr. Mohamad Pezeshki-Modaress	Researcher at Burn Research Center, Iran University of Medical Sciences	
13	Dr. Iman Shabani	Assistant Professor at Amirkabir University of Technology	
14	Dr. Faezeh Shekari	Assistant Professor at Department of Stem Cells and Developmental Biology, Royan Institute	
15	Dr. Yaser Tahamtani	Principal Investigator of RI-SCBT and Director of Royan Metabolic Health Research Center	
16	Dr. Massoud Vosough	Head of Regenerative Medicine Department, Royan institute	

September 7, 2022, 8:00-8:30, Hall 1 (Joint Session of Two Congresses)

Opening Ceremony	
8:00–8:05	Holy Quran & Iranian national anthem
8:05–8:10 Bahar Movaghar (Iran)	23 rd Congress chairperson, reproductive biomedicine
8:10–08:15 Hamed Daemi (Iran)	18 th Congress chairperson, stem cell biology & technology
8:15–08:22 Dr. Mohammad Ebrahim Parsanezhad (Iran)	President of Iranian society for reproductive medicine (ISRM)
8:23–8:30 Amir Ali Hamidieh (Iran)	Secretary of council for development of stem cell sciences and technologies

September 7, 2022, 8:30-10:30, Hall 1 (Joint Session of Two Congresses)

Keynote lectures (Hall 1)	
Chairpersons: A. Afatoonian, M.A. Sadighi Gilani, S. Khoee	
8:30-9:00 Ashok Agarwal (USA)	New generation artificial intelligence powered andrology diagnostics offers a total solution for male infertility
9:00-9:30 Amir Ali Hamidieh (Iran)	Cell-based immunotherapy: Overview and products
9:30–10:00 Saeed Alborzi (Iran)	The success of various endometrioma treatments in infertility: A systematic review and meta-analysis of prospective studies
10:00-10:30 Randy Schekman (USA)	Intercellular transfer of proteins and RNA mediated by cell-cell contact
10:30-11:00	Coffee break, exhibition & poster session

September 7, 2022, 11:00–13:00, Hall 1 (Joint Session of Two Congresses)

11:00-13:00	Award ceremony
13:00-14:00	Lunch break, exhibition & poster session

September 7, 2022, 14:00–16:00, Hall 1

Biofabrication	
Chairpersons: M. Kazemi Ashtiani, A. Solouk, M. Jaymand	
14:00-14:30 Omid Mashinchian (Switzerland)	An engineered multicellular stem cell niche for studying disease, aging and regeneration
14:30-15:00 Mohammad Hossein Ghanian (Iran)	Stars in the galaxy: Microparticles as toolkits for engineering cell spheroids
15:00-15:30 Mehdi Jaymand (Iran)	Electrically conductive scaffolds for tissue engineering: Advantages, challenges, and perspectives <i>(National Winner of the 21st Royan International Research Award)</i>
15:30-16:00 Iman Shabani (Iran)	Development of bioactive dopants to design PANI-based conductive scaffolds for tissue engineering applications <i>(National Winner of the 21st Royan International Research Award)</i>
16:00-16:30	Coffee break, exhibition & poster session

September 7, 2022, 16:30–18:00, Hall 1

Controlled delivery systems	
Chairpersons: M. H. Ghanian, E. Masaeli, S. Khoee	
16:30-17:00 Sepideh Khoee (Iran)	Janus nanoparticles: From design to bioapplication
17:00-17:30 Fatemeh Ajallouei (Denmark)	Multilayer nano-microstructures for smart drug delivery
17:30- 18:00	Panel discussion

September 8, 2022, 8:30–10:30, Hall 1

Molecular biomedicine	
Chairpersons: Sh. Moradi, M. Alikhani, H. Rassouli	
8:30-9:00 Bartomeu Colom (UK)	Clonal competition in the normal oesophageal epithelium during early carcinogenesis
9:00-9:30 Sadegh Babashah (Iran)	Intercellular communication by exosome-derived miRNAs within the tumor microenvironment in breast cancer
9:30-10:00 Jette Lengefeld (Finland)	Cell size determines stem cell potential during aging
10:00-10:30 Kamran Mansouri (Iran)	Exosome therapy in respiratory disease: With eye on Schrodemia & Covid-19
10:30-11:00	Coffee break, exhibition & poster session

September 8, 2022, 11:00–13:00, Hall 1

Extracellular vesicles	
Chairpersons: F. Shekari, S. Rafti, S. M. Hashemi	
11:00-11:30 Ana Claudia Trocoli Torrecilhas (Brazil)	Extracellular vesicles in Chagas disease (infectious disease)
11:30-12:00 Razieh Dalirfardouei (Iran)	Mechanism of extracellular vesicles derived from MSCs in implantation: A meta-transcriptomic analysis
12:00-12:30 Faezeh Shekari (Iran)	Therapeutic applications of cell culture-derived extracellular vesicles: Different sources, different subpopulations
12:30-13:00 Amir Nasiri Kenari (Japan)	Characterization of extracellular vesicles mimetic-nanovesicles and its therapeutic potential
13:00-14:00	Lunch break, exhibition & poster session

September 8, 2022, 14:00–16:00, Hall 1

Regenerative medicine products	
Chairpersons: E. Hajizadeh-Saffar, V. Khoddami, M. Basiri	
14:00-14:30 Vahid Khoddami (Iran)	mRNA; A transformative technology for disease prevention and treatment
14:30-15:00 Mohsen Basiri (Iran)	GMP CAR-T cell production: Practical aspects and prospects
15:00-15:30 Ensiyeh Hajizadeh-Saffar (Iran)	Challenges and steps in the development of advanced therapy medicinal products

15:30-16:00 Majid Warkiani (Australia)	Advanced microfluidic systems for cell sorting and single cell analysis
16:00-16:30 Coffee break, exhibition & poster session	

September 8, 2022, 16:30–18:30, Hall 1

Regenerative medicine	
Chairpersons: M. Vosough, K. Shahpasand, R. Moghadasali	
16:30-17:00 Massoud Vosough (Iran)	Novel approach to HCC, how to attenuate cancerous phenotype?
17:00-17:30 Andreas Nüssler (Germany)	Hepatocyte-like cells: The good, the possible, and the impossible
17:30-18:00 David Hay (Uk)	Building implantable human liver tissue from pluripotent stem cells
18:00-18:30 Ebrahim Mostafavi (USA)	Design and development of 3D in vitro models in cardiovascular tissue engineering and regenerative medicine

September 9, 2022, 8:30–10:30, Hall 1

Materials science in tissue engineering	
Chairpersons: H. Sadeghi, S. Hosseini, S. Kiani, M. Pezeshki-Modaress	
8:30-9:00 Abbas Mohammadi (Iran)	Antibacterial host-guest curcumin intercalated LDH/polyurethanes for accelerated dermal wound healing
9:00-9:30 Mohsen Adeli (Germany)	Functional two-dimensional polyols for biomedical applications
9:30-10:00 Mohamad Pezeshki-Modaress (Iran)	Electrospun composite structures for tissue engineering: Challenges and opportunities
10:00-10:30 Gilson Khang (South Korea)	Biocompatibility issues for the regenerative medicinal products
10:30-11:00 Coffee break, exhibition & poster session	

September 9, 2022, 11:00–13:00, Hall 1

Organoids	
Chairpersons: Y. Tahamtani, M. Mollapour Sisakht	
11:00-11:30 Farzin Pourfarzad (Netherlands)	HUB Organoids: A translatable patient-derived in vitro platform for disease modelling and drug development
11:30-12:00 Mahsa Mollapour Sisakht (Netherlands)	Alternative 3D matrix for ex vivo expansion of patient-derived bladder organoids and tumoroids: Assessment and characterization
12:00-12:30 Yaser Tahamtani (Iran)	Using stem cells to make pancreatic organoids
12:30-13:00 Ana Ivonne Vazquez-Armendariz (Germany)	Use of lung organoids to model development and disease ex vivo

September 9, 2022, 13:00 – 14:00, Hall 1 (Joint session of two congress)

Closing ceremony	
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