



Royan International Virtual Congress (2021); 22nd Royan International Congress on Reproductive Biomedicine (1-3 September 2021) & 17th Royan Congress on Stem Cell Biology & Technology (4-5 September 2021) was inaugurated at 9:00 a.m. (Tehran Local Time) on Wednesday 1 September 2021 in Royan Educational Deputy;

"Omid" Educational Studio

International Invited speakers

29 distinguished scholars joined Royan Virtual Congress (2021) scientific sessions from a variety of countries;

Austria, Australia, Canada, China, Denmark, Egypt, Germany, India, Italy, Netherlands, Pakistan, Qatar, Russia, Singapore, Spain, Switzerland, Turkey, UK, USA









Dr. Abdolhossein Shahverdi President of Royan Institute

Opening Ceremony Joint Session for Two Congresses



Dr. Syed Jaffar Hussain (Pakistan Representative and Head of Mission, WHO Islamic Republic of Iran

Opening Ceremony Joint Session for Two Congresses





Dr. Hamidreza Tayyebi President of ACECR

Opening Ceremony Joint Session for Two Congresses



Dr. Marjan Sabbaghian

Scientific Chairperson of 22nd Congress on Reproductive Biomedicine

Opening Ceremony Joint Session for Two Congresses

Dr. Fereshteh Karamali

Scientific Chairperson of 17th Congress on Stem Cell Biology & Technology

Opening Ceremony Joint Session for Two Congresses





Dr. Marziyeh Ebrahimi

Keynote Session Joint Session for Two Congresses



Dr. Masoud Vosough

Keynote Session Joint Session for Two Congresses

From left:

Dr. Anastacia Shpichka (Russia), Dr. Marziyeh Ebrahimi, Dr. Masoud Vosough

Keynote Session Joint Session for Two Congresses Covid & Stem Cell Studies





Dr. Firouzeh Ghaffari

Chairperson Early & Late ART Outcome

Dr. Ashraf Moini

Invited Speaker Early & Late ART Outcome





Dr. Mahnaz Ashrafi

Invited Speaker Early & Late ART Outcome



Dr. Parvaneh Afsharian

Chairperson ART: Laboratory Aspects

Dr. Reza Ommani Samani

Invited Speaker ART: Laboratory Aspects







16th Royan Seminar on Nursing & Midwifery

From right:

Dr. Hessamoddin Sajadi, Dr. Maryam Hafezi, Dr. Maryam Bagheri



Dr. Ahmad Vosough Taghi Dizaj

Invited Speaker Advances in the Management of Varicocele

Dr. Mohammad Arafa

Invited Speaker Advances in the Management of Varicocele





From top: Dr. Mohamad Sadeghi, Dr. Mojdeh Salehnia *Chairperson*

In Adobe connect: Prof. Evelyn Telfer *Invited Speaker*

Generation of Artificial Gamete



Generation of Artificial Gamete





From right:

Dr. Mojdeh Salehnia Dr. Rouhollah Fathi

Generation of Artificial Gamete

Invited Speakers





Dr. Mina Alikani	- PGT-A Use and Overuse
Director of Northwell Health Fertility	
Laboratories,	
USA	
Key Research Areas:	
emergelogy	
22 nd International Congress on	
Reproductive Biomedicine	
 Dr. Mohamed Arafa	- Varicocale and Male Infertility
Di. Monamed Alala	- Varicoccie and Male Intertity
	Research: The Search for Answer
Professor in the Urology Department,	Continues
Hamad Medical Corporation,	
Qatar	
Key Research Areas:	
male infertility diagnosis and treatment, Andrology	
laboratory procedures, semen analysis, sperm	
стубртеветонноп	
22 nd International Congress on	
Reproductive Biomedicine	

Titles

Dr. Andreas Bender Director of Digital Life Sciences at Innovation Campus Berlin (ICB)/Nuvisan Co-founder of Healx Ltd & PharmEnable Ltd Germany Key Research Areas: Cheminformatics, Bioinformatics, Drug Design, Chemogenomics 17th International Congress on Stem Cell Biology & Technology	- Using Gene Expression Data for Stem Cell Differentiation
Dr. Giovanni Corona Endocrinology Unit of Maggiore-Bologna Hospital, Italy Key Research Areas: andrology, endocrinology 22 nd International Congress on Reproductive Biomedicine	- Andrological Consequences of COVID-19

Dr. Elena Della Bella Research Scientist, AO Foundation, AO Research Institute Davos, Switzerland Key Research Areas: Bone and cartilage, Stem cell differentiation, Mesenchymal stem cells, Regenerative medicine, Noncoding RNA	- Controversial Role of Dexamethasone on Mesenchymal Stem Cells Differentiation Toward Osteogenesis and Chondogenesis
17th International Congress on Stem Cell Biology & Technology	
Dr. Alison Van Eenennaam Cooperative Extension Specialist, Animal Genomics and Biotechnology, Department of Animal Science, University of California, USA Key Research Areas: animal cloning and genetic engineering of livestock and science communication	- Genome Editing Opportunities in Livestock
22 nd International Congress on Reproductive Biomedicine	

Dr. Jianping Fu Professor of Mechanical Engineering Adjunct, Biomedical Engineering, Cell & Developmental Biology University of Michigan (Ann Arbor) USA Key Research Areas: bio-mems and microfluidics, bio-nanotechnology, molecular and cellular biomechanics, tissue engineering and regenerative medicine 17 th International Congress on Stem Cell Biology & Technology	- Bottom-Up Synthetic Embryology for Understanding Early Human Development
Dr. Luca Gianaroli Scientific Director of the Italian Society for the Study of Reproductive Medicine (SISMeR), Chairman of the Italian Society of Reproduction and of ESHRE, Italy Key Research Areas: Obstetrics, Embryo Cryopreservation, Oocyte Retrieval Embryo Transfer, Assisted Reproductive Techniques, Hysteroscopy, Laparoscopy, In Vitro Fertilization, ICSI 22 nd International Congress on Reproductive Biomedicine	- Blastocoel Fluid DNA Analysis for Embryo Selection

Dr. Sibylle Grad Principal Scientist in the Regenerative Orthopaedics Program, AO Research Institute Davos (ARI) AO Foundation Switzerland Key Research Areas: Intervertebral disc degeneration and regeneration, Articular cartilage repair and regeneration 17 th International Congress on Stem Cell Biology & Technology	- Chondrocyte and Stem Cell-Based Cartilage Regeneration: Effect of Biomaterial and Biomechanics
Dr. Jennifer Gruhn Assistant Professor in Human Reproductive Genetics and Infertility, Department of Cellular and Molecular Medicine, University of Copenhagen, Denmark Key Research Areas: human meiosis, the maternal age effect, and the origin of aneuploidy 22 nd International Congress on Reproductive Biomedicine	 Chromosome Errors in Human Eggs Shape Natural Fertility Over Reproductive Life Span

Dr. Yu Hanry Professor, Mechanobiology Institute, National University of Singapore, Singapore Key Research Areas: Cell and Tissue Engineering, therapeutics and drug testing applications in pharmaceutical and healthcare industry 17th International Congress on Stem Cell Biology & Technology	- In Vitro Morphogenesis Model for Intra-Hepatic Bile Duct Development
Dr. Syed Jaffar Hussain Regional Director of the World Health Organization (WHO), WHO Country Representative and Head of Mission, Islamic Republic of Iran Pakistan 22 nd International Congress on Reproductive Biomedicine	



Prof. Henry KlassenDirector of Stem Cell & Retinal RegenerationProgram, OphthalmologySchool of Medicine,University of California, Irvine,USAKey Research Areas: Stem cell, retinal regeneration17th International Congress on Stem Cell Biology & Technology	- Retinal Progenitor Cells for Treatment of Retinitis Pigmentosa
Dr. Jenneke Klein-Nulend Professor of Oral Cell Biology, Academic Centre for Dentistry Amsterdam (ACTA), Department of Oral Cell Biology, University of Amsterdam and Vrije University, The Netherlands <i>Key Research Areas:</i> <i>Cell Biology, Bone adaptation, Bone regeneration,</i> <i>Mechanical loading, Tissue Engineering</i> 17 th International Congress on <i>Stem Cell Biology & Technology</i>	 Blood Vessel Formation and Bone Regeneration Potential of Human Adipose Stem Cells in Combination with Calcium Phosphate Ceramics for Jaw Bone Augmentation

Dr. Nick Mcklon Medical Director of London Women's Clinic UK Key Research Areas: ovarian stimulation, endometrial receptivity 22 nd International Congress on Reproductive Biomedicine	- Assessing the Endometrial factor in Recurrent Implantation Failure'
 Dr. Björn Petersen Department of Biotechnology, Institute of Farm Animal Genetics, Friedrich-Loeffler- Institute, Germany Key Research Areas: Xenotransplantation, Gene editing in farm animals, Somatic cell nuclear transfer, In vitro production of embryos, Molecular genetics and cell biology 22nd International Congress on Reproductive Biomedicine 	- CRISPR-Mediated Gene-Edited Farm Animals at the FLI in Germany

Dr. Sajad Razavi Bazaz Biomedical and Tissue Engineering Lab Ph.D. Candidate, School of Biomedical Engineering University of Technology Sydney Australia <i>Key Research Areas:</i> <i>Microfluidics, 3D printing, Micromixers, Inertial</i> <i>microfluidics</i> <i>17th International Congress on</i> <i>Stem Cell Biology & Technology</i>	 Advanced 3D Printed Microfluidic Technologies for Stem Cell Research
Dr. Nicholas Rivron Group Leader of the Laboratory of Synthetic Development Institute of Molecular Biotechnology Austrian Academy of Sciences Vienna, Austria Key Research Areas: blastocysts and blastoids, multicellular patterning, cellular decision making 17th International Congress on Stem Cell Biology & Technology	- Blastoids: Modeling Blastocyst Development and Implantation

Dr. Denny Sakkas Scientific Director in Boston IVF Center, USA Key Research Areas: hormonal stimulation, embryo freezing and micromanipulation 22 nd International Congress on Reproductive Biomedicine	 Selecting the Most Viable Embryo: Towards Non-Invasive Technologies
Dr. Ramadan Saleh Prof. of Dermatology, Venereology and Andrology, Faculty of Medicine, Sohag University, Egypt Key Research Areas: male infertility, ART, sexology and dermatology 22 nd International Congress on Reproductive Biomedicine	- Controversies in Varicocele Management: Rational Approach to Varicocele Associated Azoospermia

Dr. Tiziano Serra Research Scientist, AO Foundation, AO Research Institute Davos, Switzerland <i>Key Research Areas:</i> <i>Biomaterials, Tissue Engineering, Bio fabrication, 3D cell</i> <i>culture</i> <i>17th International Congress on</i> <i>Stem Cell Biology & Technology</i>	- Sound-induced morphogenesis of multicellular systems for rapid orchestration of vascular networks
Dr. Rupin Shah Consultant Andrologist & Microsurgeon, Lilavati Hospital & Research Center, India Key Research Areas: microsurgical vaso-epididymal, anastomosis for obstructive azoospermia, microsurgical vasectomy reversal, microsurgical varicocelectomy, testicular sperm retrieval 22 nd International Congress on Reproductive Biomedicine	- Varicocele Repair: Controversies & Recommendations

Dr. Anastasia Shpichka Leading Researcher Fellow, Institute for Regenerative Medicine, I.M. Sechenov First Moscow State Medical University, Russia Key Research Areas: regenerative sciences, covid 19 & regenerative medicine, cancer 17 th International Congress on Stem Cell Biology & Technology	- Engineering a Model to Study COVID-19 Infection: Bioprinting, Microfluidics, and Organoids
Prof. Hugh S. TaylorPresident of ASRM (American Society for Reproductive Medicine), Professor of Obstetrics and Gynecology, Professor of Molecular, Cellular and Developmental Biology Yale University USAKey Research Areas: endometrium, stem cells, endometriosis, uterus, implantation22nd International Congress on Reproductive Biomedicine	- COVID and Reproduction: An Update

 Prof. Evelyn Telfer Professor of Reproductive Biology University of Edinburgh, UK Key Research Areas: Oocyte, ovary, fertility preservation, follicles 22nd International Congress on Reproductive Biomedicine 	- In Vitro Growth (IVG) of Human Oocytes: Next Steps Towards Clinical Application
Dr. Alberto Vaiarelli Medical Doctor, Gynecologist, GENERA Center for Reproductive Medicine, Valle Giulia Clinic in Rome, Italy Key Research Areas: management of poor ovarian responders, reproductive endocrinology, efficacy and efficiency of IVF treatment 22 nd International Congress on Reproductive Biomedicine	Efficient Cryopreservation Program for Oocytes and Embryos is an Important Tool for Maximizing Effectiveness and Efficiency Treatment in Art: Clinical Perspective



Dr. Ali Zarrabi

Associate Professor and Principal Investigator at SUNUM, Nanotechnology Research and Application Center, Sabanci University, Turkey

Key Research Areas: nanomedicine, drug delivery, medicinal chemistry, cancer, neurodegenerative disease

> 17th International Congress on Stem Cell Biology & Technology

 Cancer Nanotechnology and Personalized Medicine: Recent Advances and Future Direction of Cancer (Stem) Cells with RNA Delivery Systems



From Right

Dr. Alberto Vaiarelli (Spain),

Dr. Firouzeh Ghaffari (Iran)

Pre-congress Workshop

Workshop of

The Optimal Method of Controlled Ovarian Stimulation in Cancer Patients



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The Pre-Congress Workshop on:

The Challenges of Endometrial Examination in Infertile Women (26 August 2021)

From right: Dr. Elham Amirchaghmaghi, Dr. Mehri Mashayekhi, Dr. Maedeh Goudarzian

The Pre-Congress Workshop on:

The Challenges of Endometrial Examination in Infertile Women (26 August 2021)

Dr. Firoozeh Ahmadi, The Scientific Chairperson





The Pre and Post Congress Workshops on:

Principles of Flowcytometry (29-30 August 2021) Advanced Flowcytometry & Cell Sorting (7-9 September 2021)

The Post Congress Workshop on:

The Comprehensive Course on Nanobiotechnology

