

## **Royan International Twin Congress Report**



*The Royan International Twin Congress comprised of two concurrent 20<sup>th</sup> Congress on Reproductive Biomedicine and 15<sup>th</sup> Congress on Stem Cell Biology and Technology was held on 28-30 August 2019 in Razi International Conference Center. A collection of more than 1600 International and Iranian participant took part in the congress.*



Royan International Twin Congress (2019) hosted 18 world-class distinguished scholars as well as 2 winners of 20<sup>th</sup> International Research Award (2019), were invited to the Congress to present their latest clinical practices and scientific achievements in a wide range of scientific themes related to infertility and stem cell queries.

As one of the major annual scientific events in Iran, the congress also welcomed the participation of many high ranked officials in the fields of science and technology and the Academic Center of Education, Culture and Research (ACECR) who specifically highlighted the significance of transforming the scientific knowledge to the new source of revenues through furthering close collaborations with foreign countries.



*Dr. Hamidreza Tayyebi*  
*President of ACECR*



*Dr. Abdolhossein Shahverdi*  
*President of Royan Institute*

## **Firouzeh Ghaffari, MD**

*The Chairperson of  
20<sup>th</sup> Congress on Reproductive*

### ***Scientific Sessions of 20<sup>th</sup> Royan International Congress on Reproductive Biomedicine:***

- *Optimizing ART Success: Challenges & Management Options;*
- *Donation: Ethical Issues in Assisted Reproductive Technology;*
- *Oncofertility: Fertility Preservation in Pre-Pubertal Cancer Patients: Updates and Challenge;*
- *Nutrition, Environment Reproduction;*
- *Improving IVF Outcome: New Insights in Practical and Technical Aspects;*
- *How Surgical Procedure and Paraclinical Intervention can Improve IVF Outcome?*
- *Unexplained Infertility, Infertility and Sexual Health;*
- *Interaction of Environmental and Epigenetic Factors on Fertility;*
- *Fertility: Inflammation and the Immune System & Thrombophilia; Animal Biotechnology*



## Samaneh Hosseini, PhD

*The Chairperson of  
15<sup>th</sup> Congress on Stem Cell Biology &  
Technology*

### **Scientific Sessions of 15<sup>th</sup> Royan International Congress on Stem Cell Biology and Technology**

- *Pluripotent stem cell;*
- *Advances in Neurodegenerative in Diseases;*
- *Genetics, Epigenetics and Stem Cell; Biomaterials and Tissue Engineering (Part 1);*
- *Recent Advances in Stem Cell and Regenerative Medicine (Part 1);*
- *Stem Cells in Cardiovascular Diseases;*
- *Biomaterials and Tissue Engineering (Part 2);*
- *Recent Advances in Stem Cell and Regenerative Medicine (Part 2)*





*20 Internationally distinguished researchers, together with the winners of 20<sup>th</sup> International Research Award (2019) were invited to this congress to present their studies and discuss their recent findings in a wide range of infertility and stem cell related scientific themes.*



**Dr. Luciana Dini (Italy)**

**Session: "Animal Biotechnology"**



**Dr. Gerhard Haidle (Germany)**

**Session: "Fertility: Inflammation and the Immune System  
& Thrombophilia."**



**Prof. Catherine Verfaillie (Belgium)**

**Session: "Pluripotent Stem Cells"**



**Dr. Amir Zadpour (Netherlands)**

**Session: "Biomaterials and Tissue Engineering (Part I)"**



**Royan International Research Award:**

**International Winner:**

**Prof. Jemma Evans (Australia):** *in the field of Female Infertility* for the Project: The Negative Impact of Obesity Associated Advanced Glycation End Products on Female Fertility

**National Winner:**

**Dr. Mehdi Totonchi (Iran):** *in the field of Female Infertility* for the Project: Application of Genomic Studies in Uncovering Sperm Defects Mechanisms





### *Short Oral Presentations:*

*Bases on the score, more than 50 abstracts were accepted as short oral presentation in 20<sup>th</sup> Royan International Congress on Reproductive Biomedicine (2019), that were presented in the form of short oral presentation (5-7 minutes long) and were reviewed in front of reviewers and audiences.*

### *Best Short Oral Presentation Contest:*

*The selected oral presenter was further engaged in a serious competition, reviewed by more than 2 referees.*



***Best Poster Contest:***

*During the congress, the posters presenters were judged by juries to be nominated for BEST POSTER Contest.*





### ***Official Visit to Royan Research Institute:***

*As part of the annual plan of the congress, the invited speakers of the 20<sup>th</sup> Congress on reproductive biomedicine and 15<sup>th</sup> congress on stem cell biology & technology had an official visit of Royan Research Institute; the visit included diverse specialized laboratories where invited speakers received comprehensive information on the various activities and studies of these labs.*

*The invited speakers were accompanied by researchers and lab technicians.*



## **Pre-Congress Workshops:**

*Beside congress, there were numerous pre-congress workshops:*

- Principal of Molecular Dynamic Simulation; 21-22 August 2019
- Oocyte and Embryo Cryopreservation; 25 August 2019
- Culture Proliferation and Maintenance of Mouse Embryonic Stem Cell; 25 August 2019
- Histology Basics and Immune-Staining; 25 August 2019
- Introducing Sperm Functional Test and Assisted Reproduction Technique (ART); 25 August 2019
- Isolation and Purification of Mesenchymal Stem Cell from Various References: Bone Marrow Dental Pulp and Adipos Tissue; 26 August 2019; 26-27 August 2019
- 1<sup>st</sup> International Royan-Sapienza-IBB joint Cryo-School (IRSICS 2019): Focusing on cryo-preparation, cryo-magnetic and cryo-molecular analysis;
- Male Infertility Micro-Tese Surgery; 27 August 2019
- Improve the Quality of Oocyte Sperm and Embryo in ART Cycles; 27 August 2019
- Analyzing Sperm Parameters; 27 August 2019

## **Post-Congress Workshop**

- Practical Workshop of Hysteroscopy: Office & Operative; 31 August 2019



**Male Infertility Micro-Tese Surgery; 27  
August 2019**





**Practical Workshop of Hysteroscopy: Office  
& Operative; 31 August 2019**





**Workshop on  
Isolation and Purification of Mesenchymal Stem Cell from Various References: Bone Marrow Dental Pulp and Adipos Tissue; 26 August  
2019;**





**1<sup>st</sup> International Royan-Sapienza-IBB joint Cryo-School (IRSICS 2019): Focusing on cryo-preparation, cryo-magnetic and cryo-molecular analysis;**



