



24th Royan International Congress (29 August- 1 September 2023)

**19th International Congress on Stem Cell Biology & Technology
(29-30 August 2023)**

**24th International Congress on Reproductive Biomedicine
(31 August- 1 September 2023)**

The **24th Royan International Congress (29 August- 1 September)** comprised of two consecutive Congress on **19th Stem Cell Biology & Technology (29-30 August 2023)** and the Congress on **Reproductive Biomedicine (31 August- 1 September 2023)** was held in Royan Institute Conference Center. A collection of more than 1100 International and Iranian participants took part in the congress.



Congress Chairpersons

Dr. Mohammadreza Zamanian

Chairman of 24th Royan International Congress on Reproductive Biomedicine



Dr. Leila Sattarian

Chairperson of 19th Royan Congress on Stem Cell Biology & Technology



International Invited Speakers

Dr. Hadi Shafiei
Division of Endocrinology and Metabolic
Diseases, Brigham
and Women's Hospital,
Harvard Medical School,
USA

Dr. Agnieszka Nalborczyk
Institute of Human Genetics, Polish Academy
of Sciences,
Poland

Prof. Nicola Gennaro Puchetti
Director of IVI Foundation, Director of Research
Administration at IVI BMA Global, IVI Valencia
Italy

Dr. Børn Ørskov
School of Medical Sciences, University of Auckland,
Auckland,
New Zealand

Dr. Danilo Cinesamoro
Clinica Valle Giulia - G. ENERGA, Center for
reproductive medicine, University of Rome
Italy

Prof. Matteo Lambertini
Associate Professor,
Consultant in Medical Oncology,
University of Genova-IRCCS, Genova
Italy

Dr. Arman Haghpanahi
Department of Physiology
and Biophysics, Institute for Computational
Biomedicine, England's Institute for Precision
Medicine, The Mount Cancer Center,
USA

Dr. Nareesh Selokar
Embryo Biotechnology Laboratory,
Animal Biotechnology Centre
ICAR National Dairy Research Institute,
India

Dr. Aminata Touré
Institute for Advanced Biosciences,
Grenoble, Inserm, Université
Grenoble Alpes, France

Keynote Lecturer

19th Congress on Stem Cell Biology & Technology

Keynote Lectures

August 29, 2023
09:30 – 09:50, Hall 1

From Bench to Bedside:
Pioneering Stem
Cell-Based Therapy for
Parkinson's Disease

**Dr. Jeffrey
Schweitzer**
Board of Surgery,
Department of
Neurosurgery,
Massachusetts General
Hospital, Harvard Medical
School,
USA
Conference Hall
of Royan Institute




Dr. Ehsan Arefian



Prof. Anna T. Brini (Italy)

Keynote Lectures

August 29, 2023
10:20 – 10:30, Hall 1

**Dr. Omid Cameron
Farokhzad**
Laboratory of
Nanomedicine and
Biomaterials, Department
of Anesthesiology,
Brigham and Women's
Hospital, Harvard Medical
School, Boston, USA
Conference Hall
of Royan Institute



**Dr. Omid Cameron Farokhzad
(USA)**

24 international invited speakers
from 13 countries:

*Australia, Austria, China, Denmark, Finland,
France, Hungary, India, Indonesia, Italy,
Pakistan, Poland, USA*

Dr. Nicholas Rivron (Austria)



Congress Opening Ceremony



Dr. Abdolhossein Shahverdi
President of Royan Congress



Dr. Ahmad Vosough
Royan Deputy Director of Treatment & Specialized Services

Congress Special Guests

Dr. Ehsan Arefian
Secretary of Council for the
Development of Regenerative
Medicine Technologies and Stem Cells



From Left
Prof. Abbas Aflatoonian,
Pioneer & Professor of Obstetrics &
Gynecology,
Shahid Sadoughi University of Medical
Sciences
**Prof. Mohammad Ebrahim
Parsanezhad,**
Pioneer in Infertility Treatment,
Head of the First Iranian Infertility
Center

19th Royan Congress on Stem Cell Biology & Technology



Dr. Mohammad Faranoush



Dr. Sara Pahlavan



Dr. Rouhollah Fathi, Dr. Massoud Vosough, Dr. Ahmad Vosough,
Dr. Abdolhossein Shahverdi



Dr. Sharif Moradi



Dr. Hamid Khodayari

Congress Special Guests

Prof. Anna T. Brini (Italy)
Prof. Bin MA (China)



Dr. Wahyu Widowati
(Indonesia)



Dr. Ita Nainggolan
(Indonesia)

International Invited Speakers

19th Royan International Congress on Stem Cell Biology & Technology



August 30, 2023
14:50 – 15:05, Hall 1

Dr. Hamed Yasavoli

Cellular and Molecular Medicine
Department, Faculty of Medicine,
University of Ottawa, Ottawa,
Canada

19th Congress on Stem Cell Biology & Technology

Conference Hall
of Royan Institute



August 30, 2023
11:00 – 11:20, Hall 1

Dr. Ali Mobasheri

Challenges in the
Translation of Stem
Cell Research for The
Development of New
Cell-Based Therapies for
Osteoarthritis

Research Unit of Medical
Imaging, Physics and
Technology within the
Faculty of Medicine at the
University of Oulu,
Finland

19th Congress on Stem Cell Biology & Technology

Conference Hall
of Royan Institute



August 29, 2023
14:00 – 14:20, Hall 1

Dr. Wanjun Liu

Key Laboratory of Textile
Science and Technology of
the Ministry of Education,
College of Textiles,
Donghua University,
Shanghai, China

19th Congress on Stem Cell Biology & Technology

Conference Hall
of Royan Institute



August 30, 2023
14:00 – 14:20, Hall 1

**Prof. Dr. med.
Alireza Ranjbar**

Current Status of Targeted
Immunotherapy for Cancer

Institute of Interventional
Allergy and Immunology,
Bonn/Cologne, Germany.

19th Congress on Stem Cell Biology & Technology

Conference Hall
of Royan Institute



August 29, 2023
12:15 – 12:30, Hall 1

Dr. Bin Ma

Associate Professor
School of Biomedical
Engineering
Shanghai Jiao Tong
University
Shanghai,
China

19th Congress on Stem Cell Biology & Technology

Conference Hall
of Royan Institute



August 29, 2023
11:00 – 11:20, Hall 1

Dr. Martin Pera

Embryological Coordinates
of Human Pluripotency

The Jackson Laboratory,
600 Main Street, Bar
Harbor, ME 04609,
Steering Committee,
International Stem Cell
Initiative,
USA

19th Congress on Stem Cell Biology & Technology

Conference Hall
of Royan Institute

International Invited Speakers

19th Royan International Congress on Stem Cell Biology & Technology





August 29, 2023
12:00 - 12:15, Hall 2

Tissue Engineering Strategies for Enhancing Cardiac Regeneration of Bone Marrow-derived Mesenchymal Stem Cells

19th Congress on Stem Cell Biology & Technology



Dr. Asmat Salim
Professor at Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Pakistan

Conference Hall of Royan Institute





August 30, 2023
08:55 - 09:15, Hall 1

In situ bioprinting for the treatment of skin and myo-skeletal injuries

19th Congress on Stem Cell Biology & Technology



Dr. Ali Tamayol
Department of Mechanical & Materials Engineering at the University of Nebraska-Lincoln, USA

Conference Hall of Royan Institute





August 30, 2023
08:30 - 08:50, Hall 2

Molecular Gene Therapy, Scientific and Ethical Considerations in Engineering Embryos Using CRISPR-Cas9

19th Congress on Stem Cell Biology & Technology



Dr. Zhabiz Golkar
School of Science, Technology, Health and Human Services, Voorhees University, USA

Conference Hall of Royan Institute





August 30, 2023
09:20 - 09:40, Hall 1

Delamination-free micro/nanostructured layered scaffolds for tissue engineering applications

19th Congress on Stem Cell Biology & Technology



Dr. Fatemeh Ajallouei
Associate Professor, IDUN center of excellence, Department of Health Technology, Technical University of Denmark, Denmark

Conference Hall of Royan Institute





August 31, 2023
17:30 - 17:50, Hall 1

Genetics of Human Asthenozoospermia: From Structural to Functional Defects of the Sperm Flagellum

24th Congress on Reproductive Biomedicine



Dr. Aminata Toure
Institute for Advanced Biosciences, Grenoble. Inserm U1209, Cnrs UMR5309, Grenoble Alpes University. Team Physiology and Pathophysiology of Sperm cells (PPS), France

Conference Hall of Royan Institute





August 30, 2023
11:25 - 11:45, Hall 1

The cellular basis for animal regeneration

19th Congress on Stem Cell Biology & Technology



Dr. Elly Tanaka
Senior Group Leader, Research Institute for Molecular Pathology, Vienna, Austria

Conference Hall of Royan Institute





August 30, 2023
12:15 - 12:35, Hall 2

The Extracellular Vesicle Biomolecular Corona

19th Congress on Stem Cell Biology & Technology



Dr. Edit Buzas
Professor and Chairman at the Department of Genetics, Cell- and Immunobiology at Semmelweis University
Corresponding Member of the Hungarian Academy of Sciences, President of the International Society for Extracellular Vesicles (ISEV)
Hungary

Conference Hall of Royan Institute

Congress Contests

Every year, Royan Congress contest is held in the following fields and the winners are awarded the congress trophy:

- 1- top score abstract
- 2- Best Poster Readers
- 3- Best Poster
- 4- Best Poster Presentation



Closing Ceremony Appreciation



from left
Dr. Wahyu Widowati, (Indonesia)
Dr. Bin Ma (China)
Dr. Anna T. Brini (Italy)



Keynote Lecturers of 24th Royan Congress on Reproductive Biomedicine

Prof. Mohammad Ebrahim Parsanezhad



Dr. Ashrafi Moini, Dr. Mahnaz Ashrafi, Dr. Abbas Aflatoonian,
Dr. MA Sadighi Gilani

Prof. Hadi Shafiee
Keynote Lecturer

Keynote Lectures

August 31, 2023
10:00 - 10:30, Hall 1

Digitizing the Human
Embryo

24th
Congress on
Reproductive
Biomedicine



Dr. Hadi Shafiee

Faculty member in the
Division of Engineering
in Medicine and Renal
Division of Medicine,
Brigham and Women's
Hospital
Harvard Medical School,
USA
Conference Hall
of Royan Institute

Congress sessions

Session: Sexual Health and Infertility



Session: Lowering the Time to Pregnancy in ART Cycles
From left: Dr. Marzieh Aghahosseini, Dr. Mahnaz Ashrafi,
Dr. Tahereh Madani



Session:
Physiological Disorders of POF and Reproductive Health

Poster Presentation Section



Poster session was held in Royan Institute Yard. More than 200 posters were scheduled to be presented during the 2-day-congress on stem Cell Biology & Technology and Reproductive Biomedicine, respectively.



Poster Presentation Section



Congress Exhibition



Due to the shortage of place, Royan Congress hosted more than 10 companies.



Congress Sessions



Short Oral Presentation

20 abstracts were accepted as short oral presentation in 24th Royan International Congress (29 August- 1 September 2023) that were presented in the form of short oral presentation (5 minutes) and were reviewed in front of reviewers and audiences.



Invited Speakers' Geographical Distribution

