

Saturday 3 May, 2025, 07:30-09:30

## Opening Ceremony

*(In Persian)*

07:30-08:00	On-site Registration
08:00-08:30	Holy Quran & Iranian National Anthem & Introduction to the WANA Network & Congress
08:30-08:45 <b>Dr. Massoud Vosough (Iran)</b>	Chairperson of the 4 <sup>th</sup> International WANA Congress
08:45-08:55 <b>Dr. Alireza Monadi (Iran)</b>	Chairperson of the Education, Research, and Technology Committee of the Islamic Parliament of Iran
08:55-09:05 <b>Dr. Mohammad Jafar Kabiri (Iran)</b>	President of Kish Free Zone Organization
09:05-09:15 <b>Dr. Abdolhossein Shahverdi (Iran)</b>	President of Royan Institute
<b>4<sup>th</sup> WANA Congress Sponsor Recognition</b>	<b>09:15-09:25</b>

Saturday 3 May, 2025, 09:30-11:00

## Regenerative Medicine

**Chairpersons:** Prof. Mohammad Ali Sadighi Gilani, Dr. Massoud Vosough, Dr. Abdolhossein Shahverdi, Dr. Nasrin Lotfibakhshaiesh

09:30-10:00 (Keynote Lecture) <b>Prof. Mustapha Najimi</b> (Moroco/Belgium)	Cell Therapy for Liver Diseases: Twenty Years from Bench Discovery to Drug Development in Life Saving Indications
10:00-10:25 (Keynote Lecture) <b>Prof. Hossein Baharvand</b> (Tehran, Iran)	Generation and Transplantation of Human Pluripotent Stem Cell-derived Dopaminergic Progenitor Cells Under GMP Compliance in Animal Models
10:25-10:50 (Keynote Lecture) <b>Prof. Reza Rahbarghazi</b> (Tabriz, Iran)	Tumorioids Are Novel Biological Platforms for the Evaluation of Tumor Cell Activities
<b>10:50-11:00</b>	<b>Q&amp;A (Panel Discussion)</b>
<b>11:00-11:20</b>	<b>Break</b>

Saturday 3 May, 2025, 11:30-13:00

## Novel Approach in Cancer Biomedicine

**Chairpersons:** Prof. Hossein Baharvand, Dr. Balal Khalilzadeh, Dr. Sulaiman Alhashmi, Dr Firouzeh Ghaffari

11:30-11:45 Prof. Negar Azarpira (Shiraz, Iran)	Extracellular Vesicles: Microscopic Messengers with A Wide Range of Applications.
11:50-12:05 Dr. Oula El Atat (Lebanon/ UK)	Ramping Up the Volume: How Stem Cell-mediated Hearing Regeneration is Becoming A Reality
12:10-12:25 Prof. Armin Attar (Shiraz, Iran)	Clinical Evidences of Cell Therapy for Acute Myocardial Infarction
12:30-12:45 Dr. Asma Gul (Pakistan)	Dynamic Expression of c-MET and HGF in Liver Injury: Implications for Cancer Development and Age-Dependent Responses
12:50-13:00	<b>Q&amp;A (Panel Discussion)</b>
13:00-14:00	<b>Pray &amp; Lunch</b>

Saturday 3 May, 2025, 14:00-15:40

## Regenerative Medicine in Reproduction

**Chairpersons:** Prof. Behzad Moshiri, Dr. Amir Amiri-Yekta, Dr. Parvaneh Afsharian, Prof. Mohammad Hossein Nasr-Esfahani

14:00-14:15 Prof. Mohammad Ali Sadighi Gilani (Tehran, Iran)	Advanced Technologies in Male Fertility, National Update
14:20-14:35 Dr. Firouzeh Ghaffari (Tehran, Iran)	National Address for Female Fertility Preservation in Cancer Research
14:40-14:55 Dr. Naser Aghdami (Tehran, Iran)	Stem Cell in Premature Ovarian Failure
15:00-15:15 Dr. Elham Vojoudi (Guilan, Iran)	Restoring Fertility: The Role of Cell Therapy in Addressing Premature Ovarian Failure
15:20-15:30 Dr. Salem Shalaweh (Libya)	Nano-Enabled Molecular Sorting for Male Infertility
15:30-15:40	<b>Q&amp;A (Panel Discussion)</b>

Saturday 3 May, 2025, 15:40-16:50

## AI and Computational Biology in Regenerative Medicine

*Chairpersons: Dr. Naser Aghdami, Dr. Ali Moradi, Dr. Hengameh Dortaj, Dr. Hakan Darici*

15:40-15:55 Prof. Behzad Moshiri (Iran/Canada)	Review of Drug Discovery Using AI Methods
16:00-16:15 Dr. Mehran Maghsoudloo (Tehran, Iran)	Documenting Science and Collaboration in the New AI Age
16:20-16:35 Dr. Amir Amiri-Yekta (Tehran, Iran)	Mapping the Future: High-Throughput Sequencing at the Core of Precision Medicine
16:40-16:50	Q&A (Panel Discussion)

Scientific Board Meeting for WANA Network	19:00 20:00
Official Dinner for Scientific Board Members	20:00-22:00

Sunday 4 May, 2025, 08:45-10:15

## Cell and Gene Therapy in Regenerative Medicine

*Chairpersons: Prof. Reza Rahbarghazi, Dr. Massoud Vosough, Prof. Negar Azarpira, Prof. Yahya Kiwan*

08:45-09:00 Prof. Fatemeh Rahbarizadeh (Tehran, Iran)	CAR T-Cell Therapy
09:05-09:20 Dr. Sulaiman Alhashmi (Oman)	Mesenchymal Stem Cell-Laden 3D-Bioprinted Alginate/GelMa Scaffolds
09:25-09:40 Dr. Hengameh Dortaj (Mashhad, Iran)	Control of Angiogenesis in Cartilage Disease Using Tissue Engineering: A New Approach to Therapy
09:45-10:00 Dr. Fatima Abbas al Jamali (Jordan) <i>Virtual</i>	Molecular Cues of the Efficacy of Allogeneic MSCs and Their Secretome in the Treatment of Multiple Sclerosis
10:05-10:15	Q&A (Panel Discussion)
10:20-10:50	Break

Sunday 4 May, 2025, 11:00-12:30

## Advanced Technologies in Regenerative Medicine

**Chairpersons:** Prof. Şükrü Tüzmen, Prof. Mustapha Najimi, Prof. Fatemeh Rahbarizadeh, Dr. Asma Gul

11:00-11:15 Prof. Yahya Kiwan (New Zealand/UAE)	Stem Cells Therapy in Chronic Ischemic Heart Disease, Hype or Hope
11:20-11:35 Dr. Nasrin Lotfibakhshaiesh (Tehran, Iran)	Bioprinters in Regenerative Medicine
11:40-11:55 Dr. Hakan Darici (Turkey)	Genetically Modified Stem Cell Exosomes
12:00-12:15 Dr. Balal Khalilzadeh (Tabriz, Iran)	Cancer Stem Cell Immunophenotyping Using Highly Sensitive Biosensing Approach Compared to Conventional Modalities
12:20-12:30	<b>Q&amp;A (Panel Discussion)</b>
12:30-13:30	<b>Pray &amp; Lunch</b>

Sunday 4 May, 2025, 13:40-15:10

## Regenerative Medicine II

**Chairpersons:** Prof. Behzad Moshiri, Dr. Massoud Vosough, Dr. Oula El Atat, Dr. Balal Khalilzadeh

13:40-13:55 Prof. Şükrü Tüzmen (Cyprus)	Molecular Profiling of A Potential Drug Target for Disease Treatment
14:00-14:15 Dr. Ali Moradi (Mashhad, Iran)	ProScaffolds: Fusion of Prostheses & Scaffolds
14:20-14:35 Dr. Fatemeh Pishavarzad (Kish, Iran)	Marine Biomedicine and Marine Biotechnology in Regenerative Medicine
<b>Next Generation Scientists</b>	
14:40-14:50 Dr. Havva Özgen Eyüpoğlu (Cyprus)	Nanocarriers with A Mission: Extracellular Vesicles in Cancer Treatment Strategies
14:50-15:00 Dr. Leila Rashki Ghaleno (Tehran, Iran)	Preservation of Fertility in Prepubertal Boys Advances in Spermatogonia Stem Cells Technology
15:00-15:10	<b>Q&amp;A (Panel Discussion)</b>

Sunday 4 May, 2025, 15:15-15:50

## Closing Ceremony

*(In Persian)*

**Dr. Rouhollah Fathi (Iran)**

Report of WANA Scientific Network (WSN)