




| <i>Invited Speakers</i>   | <i>Title</i>  |
|---|---|
|    | <p><b>Dr. Fatemeh Ajallouei</b><br/>Associate Professor, IDUN center of excellence, Department of Health Technology, Technical University of Denmark, Denmark</p> <p><i>Key Research Areas:</i><br/><i>Tissue Engineering, Micro and Nanoscale Technologies, Polymeric Fibers</i></p> <p><b>19<sup>th</sup> International Congress on Stem Cell Biology &amp; Technology</b></p>  |
|   | <p><b>Dr. Nurul Asma Abdullah</b><br/>Associate Professor, Head of the Biomedicine Program, School of Health Sciences, University Science Malaysia</p> <p><i>Key Research Areas:</i><br/><i>biomedical sciences, biomaterials, and pre-clinical research, and interested in the aspects of cell and tissue engineering and regenerative medicine</i></p> <p><b>19<sup>th</sup> International Congress on Stem Cell Biology &amp; Technology</b></p> |
|  | <p><b>Prof. Anna T. Brini</b><br/>Associate Professor of Pharmacology, Università degli Studi di Milano Department of Biomedical, Surgical and Dental Sciences Italy</p> <p><i>Key Research Areas:</i><br/><i>features of Mesenchymal Stem/Stromal cells (MSCs), their applications in the musculoskeletal tissue regeneration</i></p> <p><b>19<sup>th</sup> International Congress on Stem Cell Biology &amp; Technology</b></p>                   |
|   | <p>delamination-free micro/nanostructured layered scaffolds for tissue engineering applications</p>   |
|   | <p>Regeneration And Repair of Dentin-Pulp Complex Using Biomaterials and Cellular-Based Approaches</p>  |
|   | <p>adipose-derived mesenchymal cells and their by-products promote regeneration and immunomodulation in preclinical experimental models</p> <p>in vitro model of OA and some promising therapeutic tools generated by ASC</p>   |



**Dr. Edit Buzas**

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

*Key Research Areas:  
Extracellular Vesicles*

*19<sup>th</sup> International Congress on  
Stem Cell Biology & Technology*

the extracellular vesicle  
biomolecular corona



**Dr. Danilo Cimadomo**

IVIRMA Global Research Alliance, GENERA, Clinica Valle Giulia, Rome, Italy.

*Key Research Areas:  
Reproductive Biology, Physiology, Pathology*

*24<sup>th</sup> International Congress on  
Reproductive Biomedicine*

the black box of  
implantation: why do  
euploid blastocysts fail to  
implant



**Prof. Lies De Groef**

Head of Cellular Communication and Neurodegeneration research group, Division of Animal Physiology and Neurobiology, Department of Biology, KU Leuven University, France

*Key Research Areas:  
neurobiology and ophthalmology,  
neurodegenerative diseases*

*19<sup>th</sup> International Congress on  
Stem Cell Biology & Technology*

base editing in wolfram  
syndrome iPSC and mouse  
models: a promising  
approach to prevent  
blindness?"



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

*Key Research Areas:  
Nanomedicine, Medical Nanotechnology*

*24<sup>th</sup> International Congress on  
Reproductive Biomedicine*

understanding the nano-bio interface: from clinical translation of targeted drug delivery systems to commercialization of platform for scalable deep unbiased proteomics



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

*Key Research Areas:  
Molecular and Cell Biology, Genetics, Microbiology*

*19<sup>th</sup> International Congress on  
Stem Cell Biology & Technology*

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



**Dr. Iman Hajirasouliha**  
Associate Professor of Computational Genomics, Weill Cornell Medicine, Department of Physiology and Biophysics, Institute for Computational Biomedicine, Englander Institute for Precision Medicine, The Meyer Cancer Center, USA

*Key Research Areas:  
Computational and Systems Genomics, Computational Biomedicine*

*24<sup>th</sup> International Congress on  
Reproductive Biomedicine*

A Non-Invasive Artificial Intelligence Approach for The Prediction of Human Blastocyst Ploidy





**Dr. Bin Ma**  
Associate Professor  
School of Biomedical Engineering  
Shanghai Jiao Tong University  
Shanghai,  
China

*Key Research Areas:*  
*Oncogenic pathways, tumor microenvironment, tumor intrinsic mechanisms for immune escape, cancer immunotherapy*

*19<sup>th</sup> International Congress on Stem Cell Biology & Technology*

Mesenchymal stem cell-based immunotherapy for solid tumors



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

*Key Research Areas:*  
*male infertility, nonobstructive azoospermia, biomarkers of NOA, WGS, RNA-seq, CRISPR system, germ cells*

*24<sup>th</sup> International Congress on Reproductive Biomedicine*

Whole-Genome Sequencing Identifies New Candidate Genes for Nonobstructive Azoospermia



**Prof. Ali Mobasher**  
Research Unit of Medical Imaging, Physics and Technology within the Faculty of Medicine at the University of Oulu,  
Finland

*Key Research Areas:*  
*Musculoskeletal Biology, regenerative medicine*

*19<sup>th</sup> International Congress on Stem Cell Biology & Technology*

Challenges in the translation of stem cell research for the development of new cell-based therapies for osteoarthritis



**Dr. Bjorn Oback**  
School of Medical Sciences,  
University of Auckland, Auckland,  
New Zealand

*Key Research Areas:*  
*Molecular embryology, Cell reprogramming,  
Totipotency, Pluripotent stem cells, Genome  
editing*

*24<sup>th</sup> International Congress on  
Reproductive Biomedicine*

Male Germline  
Complementation in  
Chimaeric Sheep



**Prof. Martin Pera**  
The Jackson Laboratory, 600 Main  
Street, Bar Harbor, ME 04609,  
Steering Committee, International  
Stem Cell Initiative,  
USA

*Key Research Areas:*  
*pluripotent stem cell research*

*19<sup>th</sup> International Congress on  
Stem Cell Biology & Technology*

Control of pluripotent stem  
cell self-renewal



**Prof. Nicolás Garrido Puchalt**  
Director of IVI Foundation,  
Director of Research  
Administration at IVI RMA Global,  
FIVI Valencia  
Member of the Scientific Advisory  
Board,  
Italy

*Key Research Areas:*  
*Male infertility*

*24<sup>th</sup> International Congress on  
Reproductive Biomedicine*

Personalized Medicine in  
The Treatment of Infertility:  
The Use of Artificial  
Intelligence in The Field of  
Andrology



**Dr. Nicholas Rivron**  
Principal investigator, Institute of  
Molecular Biotechnology, Director  
of Nicholas Rivron Lab  
Austrian Academy of Science,  
Austria

*Key Research Areas:*  
*Developmental Biology, Stem Cells, Self-  
Organization, Tissue Engineering, Fertility*

*19<sup>th</sup> International Congress on  
Stem Cell Biology & Technology*

Blastoids: modeling mouse  
and human blastocyst  
development and  
implantation with stem cells  
**Keynote Session**



**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.

*Key Research Areas:*  
*Tissue engineering, cardio regeneration*

*19<sup>th</sup> International Congress on  
Stem Cell Biology & Technology*

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



**Prof. Jeffrey S. Schweitzer**  
Board of Surgery, Department of  
Neurosurgery, Massachusetts  
General Hospital, Harvard Medical  
School,  
USA

*Key Research Areas:*  
*Neurosurgery, Epilepsy, Movement Disorders*

*19<sup>th</sup> International Congress on  
Stem Cell Biology & Technology*

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



**Dr. Naresh Selokar**  
Scientist in Embryo Biotechnology  
Laboratory,  
Animal Biotechnology Centre  
ICAR-National Dairy Research  
Institute,  
India

*Key Research Areas:  
Reproductive Biotechnology*

*24<sup>th</sup> International Congress on  
Reproductive Biomedicine*

Buffalo Cloning and  
Genome editing: Ways for  
improved productivity  
(milk and meat)



**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

*Key Research Areas:  
Innovative diagnostic tools to address unmet  
clinical challenges through integrating  
biology/medicine, micro- and nanotechnology,  
consumer electronics, and artificial  
intelligence.*

*24<sup>th</sup> International Congress on  
Reproductive Biomedicine*

**Keynote Lecturer**

Digitizing the Human  
Embryo



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

*Key Research Areas:  
Biomedical Engineering, Regenerative  
Medicine, Wound Healing, Drug Delivery*

*19<sup>th</sup> International Congress on  
Stem Cell Biology & Technology*

In Situ Bioprinting for the  
Treatment of Skin and  
Myo-Skeletal Injuries





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

*Key Research Areas:*  
*Stem Cell Biology and Development*

*19<sup>th</sup> International Congress on  
Stem Cell Biology & Technology*

Positional Memory and its  
Role in Limb Regeneration



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

*Key Research Areas:*  
*Reproductive Biology, Physiology, Pathology*

*24<sup>th</sup> International Congress on  
Reproductive Biomedicine*

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



**Dr. Wanjun Liu**  
Key Laboratory of Textile Science  
and Technology of the Ministry of  
Education, College of Textiles,  
Donghua University, Shanghai,  
China.

*Key Research Areas:*  
*Biomaterials, tissue engineering, cell therapy,  
bioprinting, microfluidics*

*19<sup>th</sup> International Congress on  
Stem Cell Biology & Technology*

Islet encapsulation for type  
1 diabetes





**Dr. Hamed Yasavoli**

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

*Key Research Areas:*

*Metastasis, Tumor Biology, Cell Signaling,  
Bioinformatics*

*19<sup>th</sup> International Congress on  
Stem Cell Biology & Technology*

Manipulation of Gut  
microbiome and Risk of  
Breast Cancer Later in life