Invited Speakers





Dr. Fatemeh Ajalloueian

Associate Professor, IDUN center of excellence, Department of Health Technology,
Technical University of Denmark,
Denmark

Key Research Areas:

Tissue Engineering, Micro and Nanoscale Technologies, Polymeric Fibers

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



Dr. Nurul Asma Abdullah

Associate Professor, Head of the Biomedicine Program, School of Health Sciences, University Science Malaysia

Key Research Areas:

biomedical sciences, biomaterials, and preclinical research, and interested in the aspects of cell and tissue engineering and regenerative medicine

19th International Congress on Stem Cell Biology & Technology Regeneration And Repair of Dentin-Pulp Complex Using Biomaterials and Cellular-Based Approaches



Prof. Anna T. Brini

Associate Professor of Pharmacology, Università degli Studi di Milano Department of Biomedical, Surgical and Dental Sciences Italy

Key Research Areas:

features of Mesenchymal Stem/Stromal cells (MSCs), their applications in the musculoskeletal tissue regeneration

19th International Congress on Stem Cell Biology & Technology adipose-derived
mesenchymal cells and their
by-products promote
regeneration and
immunomodulation in
preclinical experimental
models

in vitro model of OA and some promising therapeutic tools generated by ASC



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, Celland Immunobiology at Semmelweis University, Hungary

the extracellular vesicle biomolecular corona

Key Research Areas: Extracellular Vesicles

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Dr. Danilo Cimadomo

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

Key Research Areas: Reproductive Biology, Physiology, Pathology

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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

19th 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

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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

19th 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

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



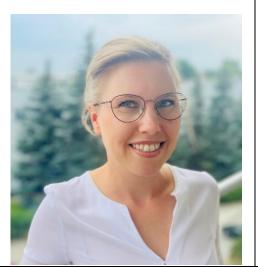
Dr. Bin Ma

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

19th International Congress on Stem Cell Biology & Technology Mesenchymal stem cellbased 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

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Whole-Genome Sequencing Identifies New Candidate Genes for Nonobstructive Azoospermia



Prof. Ali Mobasheri

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

19th 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 ObackSchool of Medical Sciences, University of Auckland, Auckland, New Zealand

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

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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

19th International Congress on Stem Cell Biology & Technology Control of pluripotent stem cell self-renewal

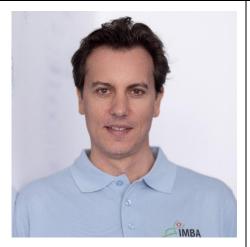


Prof. Nicolás Garrido Puchalt

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

24th 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

19th 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

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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

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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

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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.

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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

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



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

Positional Memory and its Role in Limb Regeneration

Key Research Areas: Stem Cell Biology and Development

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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

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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

19th 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

19th International Congress on Stem Cell Biology & Technology Manipulation of Gut microbiome and Risk of Breast Cancer Later in life