

Invited Speakers

Titles



Dr. Mina Alikani
Director of Northwell Health Fertility
Laboratories

Key Research Areas:
embryology

*22nd International Congress on
Reproductive Biomedicine*

- PGT-A Use and Overuse



Dr. Mohamed Arafa
Prof in the Urology Department,
Hamad Medical Corporation, Doha,
Qatar

Key Research Areas:
*male infertility diagnosis and treatment, Andrology laboratory
procedures, semen analysis, sperm cryopreservation*

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Reproductive Biomedicine*

- Varicocele and Male Infertility
Research: The Search for Answer
Continues



Dr. Andreas Bender

Director of Digital Life Sciences at Innovation
Campus Berlin (ICB)/Nuvisan
Co-founder of Healx Ltd & PharmEnable Ltd
Germany

Key Research Areas:

*Cheminformatics, Bioinformatics, Drug Design,
Chemogenomics*

*17th International Congress on
Stem Cell Biology & Technology*

- Using Gene Expression Data for Stem Cell Differentiation



Dr. Giovanni Corona

Endocrinology Unit of Maggiore-Bologna
Hospital,
Italy

Key Research Areas:

andrology, endocrinology

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Reproductive Biomedicine*

- Andrological Consequences of COVID-19



Dr. Elena Della Bella

Research Scientist, AO Foundation, AO
Research Institute Davos,
Switzerland

Key Research Areas:

*Bone and cartilage, Stem cell differentiation, Mesenchymal
stem cells, Regenerative medicine, Noncoding RNA*

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Stem Cell Biology & Technology*

- Controversial Role of
Dexamethasone on Mesenchymal
Stem Cells Differentiation Toward
Osteogenesis and Chondrogenesis



Dr. Alison Van Eenennaam

Cooperative Extension Specialist,
Animal Genomics and Biotechnology,
Department of Animal Science,
University of California,
USA

Key Research Areas:

*animal cloning and genetic engineering of livestock and
science communication*

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Reproductive Biomedicine*

- Genome Editing Opportunities in
Livestock



Dr. Jianping Fu

Professor of Mechanical Engineering
Adjunct, Biomedical Engineering,
Cell & Developmental Biology
University of Michigan (Ann Arbor)
USA

Key Research Areas:

*bio-mems and microfluidics, bio-nanotechnology, molecular
and cellular biomechanics, tissue engineering and regenerative
medicine*

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Stem Cell Biology & Technology*

- Bottom-Up Synthetic Embryology for Understanding Early Human Development



Dr. Luca Gianaroli

Scientific Director of the Italian Society for the
Study of Reproductive Medicine (SISMeR),
Chairman of the Italian Society of
Reproduction and of ESHRE,
Italy

Key Research Areas:

*Obstetrics, Embryo Cryopreservation, Oocyte Retrieval
Embryo Transfer, Assisted Reproductive Techniques,
Hysteroscopy, Laparoscopy, In Vitro Fertilization, ICSI*

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- Blastocoel Fluid DNA Analysis for Embryo Selection



Dr. Sibylle Grad
Principal Scientist in the Regenerative
Orthopaedics Program,
AO Research Institute Davos (ARI)
AO Foundation
Switzerland

Key Research Areas:
Intervertebral disc degeneration and regeneration,
Articular cartilage repair and regeneration

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- Chondrocyte and Stem Cell-Based
Cartilage Regeneration: Effect of
Biomaterial and Biomechanics



Dr. Jennifer Gruhn
Assistant Professor in Human Reproductive
Genetics and Infertility, Department of Cellular
and Molecular Medicine,
University of Copenhagen,
Denmark

Key Research Areas:
*human meiosis, the maternal age effect, and the origin of
aneuploidy*

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- Chromosome Errors in Human Eggs
Shape Natural Fertility Over
Reproductive Life Span



Dr. Yu Henry

Professor, Mechanobiology Institute,
National University of Singapore,
Singapore

Key Research Areas:

*Cell and Tissue Engineering, therapeutics and drug testing
applications in pharmaceutical and healthcare industry*

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- In Vitro Morphogenesis Model for
Intra-Hepatic Bile Duct Development



Dr. Syed Jaffar Hussain

Regional Director of the World Health
Organization (WHO),
WHO Country Representative and Head of
Mission, Islamic Republic of Iran
Pakistan

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Dr. Seyed Mehdi Jafarnejad, PhD
Principal Investigator and Patrick Johnston
Research Fellow,
Patrick G. Johnston Centre for Cancer
Research,
Queen's University Belfast,
UK

Key Research Areas:
*Cancer, mRNA translation, miRNA Ribosome Quality
Control, Stem Cells*

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- Dysregulation of the Cap-Dependent mRNA Translation in Cancer



Prof. James St. John
Head of the Clem Jones Centre for
Neurobiology and Stem Cell Research,
Griffith University, Griffith Institute for Drug
Discovery and Menzies Health Institute
Queensland,
Australia

Key Research Areas:
*spinal cord injury, peripheral nerve injury, the role of microbes
in neurodegeneration*

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Olfactory Ensheathing Cell
Transplantation to Repair Spinal
Cord Injuries: Stimulating Cells to
Improve Efficacy



Prof. Henry Klassen

Director of Stem Cell & Retinal Regeneration Program, Ophthalmology
School of Medicine,
University of California, Irvine,
USA

*Key Research Areas:
Stem cell, retinal regeneration*

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- Retinal Progenitor Cells for Treatment of Retinitis Pigmentosa



Dr. Jenneke Klein-Nulend

Professor of Oral Cell Biology,
Academic Centre for Dentistry Amsterdam (ACTA), Department of Oral Cell Biology,
University of Amsterdam and Vrije University,
The Netherlands

*Key Research Areas:
Cell Biology, Bone adaptation, Bone regeneration, Mechanical loading, Tissue Engineering*

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- Blood Vessel Formation and Bone Regeneration Potential of Human Adipose Stem Cells in Combination with Calcium Phosphate Ceramics for Jaw Bone Augmentation



Dr. Nick Mcklon

Medical Director of London Women's Clinic
UK

Key Research Areas:

ovarian stimulation, endometrial receptivity

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- Assessing the Endometrial factor in Recurrent Implantation Failure'



Dr. Björn Petersen

Department of Biotechnology, Institute of Farm
Animal Genetics, Friedrich-Loeffler-Institute,
Germany

Key Research Areas:

*Xenotransplantation, Gene editing in farm animals, Somatic
cell nuclear transfer, In vitro production of embryos,
Molecular genetics and cell biology*

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- CRISPR-Mediated Gene-Edited Farm
Animals at the FLI in Germany



Dr. Sajad Razavi Bazaz

Biomedical and Tissue Engineering Lab
Ph.D. Candidate, School of Biomedical
Engineering
University of Technology Sydney
Australia

Key Research Areas:

*Microfluidics, 3D printing, Micromixers, Inertial
microfluidics*

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- Advanced 3D Printed Microfluidic Technologies for Stem Cell Research



Dr. Nicholas Rivron

Group Leader of the Laboratory of Synthetic
Development
Institute of Molecular Biotechnology
Austrian Academy of Sciences
Vienna,
Austria

Key Research Areas:

*blastocysts and blastoids, multicellular patterning, cellular
decision making*

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- Blastoids: Modeling Blastocyst Development and Implantation



Dr. Denny Sakkas

Scientific Director in Boston IVF Center,
USA

Key Research Areas:

*hormonal stimulation, embryo freezing and
micromanipulation*

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- Selecting the Most Viable Embryo:
Towards Non-Invasive Technologies



Dr. Ramadan Saleh

Prof. of Dermatology, Venereology and
Andrology, Faculty of Medicine, Sohag
University,
Egypt

Key Research Areas:

male infertility, ART, sexology and dermatology

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- Controversies in Varicocele
Management: Rational Approach to
Varicocele Associated Azoospermia



Dr. Tiziano Serra

Research Scientist, AO Foundation, AO
Research Institute Davos,
Switzerland

Key Research Areas:

Biomaterials, Tissue Engineering, Bio fabrication, 3D cell culture

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- Sound-induced morphogenesis of multicellular systems for rapid orchestration of vascular networks



Dr. Rupin Shah

Consultant Andrologist & Microsurgeon,
Lilavati Hospital & Research Center,
India

Key Research Areas:

microsurgical vaso-epididymal, anastomosis for obstructive azoospermia, microsurgical vasectomy reversal, microsurgical varicocelectomy, testicular sperm retrieval

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- Varicocele Repair: Controversies & Recommendations



Dr. Anastasia Shpichka

Leading Researcher Fellow,
Institute for Regenerative Medicine,
I.M. Sechenov First Moscow State Medical
University,
Russia

Key Research Areas:

*regenerative sciences, covid 19 & regenerative medicine,
cancer*

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- Engineering a Model to Study COVID-19 Infection: Bioprinting, Microfluidics, and Organoids



Prof. Hugh S. Taylor

President of ASRM (American Society for
Reproductive Medicine),
Professor of Obstetrics and Gynecology,
Professor of Molecular, Cellular and
Developmental Biology
Yale University
USA

Key Research Areas:

endometrium, stem cells, endometriosis, uterus, implantation

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Reproductive Biomedicine*

- COVID and Reproduction: an Update



Prof. Evelyn Telfer

Professor of Reproductive Biology University of Edinburgh, UK

Key Research Areas:

Oocyte, ovary, fertility preservation, follicles

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- In Vitro Growth (IVG) of Human Oocytes: Next Steps Towards Clinical Application



Dr. Alberto Vaiarelli

Medical Doctor, Gynecologist, GENERA Center for Reproductive Medicine, Valle Giulia Clinic in Rome, Italy

Key Research Areas:

management of poor ovarian responders, reproductive endocrinology, efficacy and efficiency of IVF treatment

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Efficient Cryopreservation Program for Oocytes and Embryos is an Important Tool for Maximizing Effectiveness and Efficiency Treatment in Art: Clinical Perspective



Dr. Ali Zarrabi

Associate Professor and Principal Investigator at SUNUM, Nanotechnology Research and Application Center, Sabanci University, Turkey

Key Research Areas:

nanomedicine, drug delivery, medicinal chemistry, cancer, neurodegenerative disease

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- Cancer Nanotechnology and Personalized Medicine: Recent Advances and Future Direction of Cancer (Stem) Cells with RNA Delivery Systems