

Joint Conference

Proceedings of

3<sup>rd</sup> International Conference & Exhibition on

## **TISSUE PRESERVATION AND BIOBANKING &**

6<sup>th</sup> International Conference on

## **TISSUE ENGINEERING AND REGENERATIVE MEDICINE**

August 23-24, 2017 San Francisco, USA



**Conference Series - America**

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PLAZA I

conference**series.com**

09:30-09:45

# Opening Ceremony

## Keynote Forum

- Introduction**
- 9:45-10:10 **Title: The evolution and current status of sperm cryopreservation**  
Panayiotis Zavos, The Andrology Institute of America, USA
- 10:10-10:35 **Title: Improved methods and procedures for pluripotent stem cell preservation, storage stability and validation**  
Heiko Zimmermann, Fraunhofer Institute for Biomedical Engineering, Germany
- 10:35-11:00 **Title: Cryopreservation by vitrification: Basic thermodynamic principals, methods and devices**  
Igor Katkov, Belgorod National Research University, Russia

### Networking & Refreshment Break 11:00-11:20 @ Plaza Foyer

- 11.20-11:45 **Title: Prolotherapy the first choice in Regenerative Medicine**  
Charles F Mahl, GenLife Institute for Regenerative Medicine and Stem Cells, USA

## Exhibitor session

- 11:45-12:10 **Title: Bioprinter advances future research in healthcare and beyond**  
Mayasari Lim, SE3D, USA

### Sessions:

Biobanking | Cryopreservation | Vitrification | Biorepository & Biospecimen | Stem Cell | Regenerative medicine | Tissue engineering | Rejuvenation

Session Chair: Panayiotis Zavos, The Andrology Institute of America, USA

Session Co-chair: Debra Aub Webster, Cardinal Health Regulatory Sciences, USA

- 12:10-12:30 **Title: Human mesenchymal stem cell-derived conditioned medium: Perspectives for therapeutic application in lung cancers**  
Lourdes Cortes-Dericks, University of Hamburg, Germany
- 12:30-12:50 **Title: Life in Nano Ice : Application of cryocrate C80EZ medium for cell and tissue cryopreservation**  
Xu Han, CryoCrate LLC and University of Missouri, USA
- 12:50-13:10 **Title: The promise of organ banking and large-scale support for cryopreservation advances**  
Jedediah Lewis, Organ Preservation Alliance, USA

## Panel Discussion

### Lunch 13:10-14:10 @ Plaza III

- 14:10-14:30 **Title: Reproductive tissue banking for young boys of pre-reproductive age**  
Yulian Zhao, MayoClinic, USA
- 14:30-14:50 **Title: Fertility cryopreservation in Oxford, UK**  
Jill Davies, Oxford University, UK
- 14:50-15:10 **Title: Peripheral artery and blood biobanking can lead to scientific collaboration and discovery**  
Malik Mohammed Darwech, Washington University School of Medicine, USA
- 15:10-15:30 **Title: Clinical applications of autologous bone marrow derived cells**  
Dalip Sethi, Cesca Therapeutics Inc., USA
- 15:30-15:50 **Title: Ovarian function recovery after transplantation of ovarian tissue cryopreserved and stored for long-term**  
Raffaella Fabbri, University of Bologna, Italy

## Panel Discussion

## Networking & Refreshment Break 15:50-16:10 @ Plaza Foyer

- 16:10-16:30** **Title: Twin pregnancy with both complete hydatiform mole and coexistent alive fetus: Management and Prognosis**  
Achour Radhouane, El-Manar University, Tunisia
- 16:30-16:50** **Title: Mesenchymal stem cells in clinical applications**  
Brian M. Mehling, Blue Horizon International, USA
- 16:50-17:10** **Title: Proteomic profiling of tissue degeneration and regeneration in muscular dystrophy**  
Kay Ohlendieck, Department of Biology, Maynooth University, Ireland
- 17:10-17:30** **Title: Regenerative medicine – From Promise to Patient**  
Debra Aub Webster, Cardinal Health Regulatory Sciences, USA
- 17:30-17:50** **Title: pGlcNAc Nanofibers derived from a marine polymer stimulate regenerative wound repair via activation of a TLR4/type-I IFN pathway in combination with an integrin/Akt1 dependent pathway**  
Robin C. Muise-Helmericks, Medical University of South Carolina, USA
- 17:50-18:10** **Title: Therapeutic effects of bioquantine® in volunteer patients diagnosed with Cerebral palsy, Spinal cord injury, Wet amd, Sci, Hypothyroidism, Atypical pyoderma gangrenosum, and Breast cancer**  
Joel I. Osorio, Westhill University School of Medicine, Mexico
- 18:10-18:30** **Title: Glial cell derived neurotrophic factor promotes dental pulp stem cell migration**  
Nan Xiao, University of the Pacific, USA

## Panel Discussion

Day 2 August 24, 2017

## PLAZA I

### Keynote Forum

- 09:00-09:25** **Title: Cryopreservation of organs and organisms: Signs of a new era**  
Aubrey de Grey, SENS Research Foundation, USA
- 09:25-09:50** **Title: Transplantation of hepatocyte like cells derived from human tooth into the animals with liver conditions**  
Ken yaegaki, Nippon Dental University School of Life Dentistry, Japan
- 09:50-10:15** **Title: Maximizing cardiac repair: Should we focus on cells or matrix?**  
Luiz C. Samapio, Texas Heart Institute, USA

### Sessions:

**Biobanking | Cryopreservation | Vitrification | Biorepository & Biospecimen | Stemcell | Regenerative medicine | Tissue engineering | Rejuvenation**

**Session Chair: Heiko Zimmermann, Fraunhofer Institute for Biomedical Engineering, Germany**

**Session Co-chair: Ken yaegaki, Nippon Dental University School of Life Dentistry, Japan**

### Session Introduction

- 10:15-10:35** **Title: Developing and setting up a Tissue Donation after Death Service in the UK.**  
Joanne Mullarkey, University of Bradford, UK
- 10:35-10:55** **Title: Cryopreservation of living cells using an electron microscopy fixation methods**  
Jan Huebinger, Max-Planck Institute of Molecular Physiology, Germany
- 10:55-11:15** **Title: Challenges of developing a Biobank in Oxford, UK**  
Jill Davies, Oxford University, UK

## Panel Discussion

## Networking & Refreshment Break 11:15-11:35 @ Plaza Foyer

- 11:35-11:55** **Title: Biologics to enhance mesenchymal stem cell expansion and storage**  
Nidhi Bhutani, Stanford school of medicine, USA

- 11:55-12:15 **Title: Hydrogel micro pattern-incorporated nanofibers for biomedical application**  
Won-Gun Koh, Yonsei University, Korea
- 12:15-12:35 **Title: Biomarker discovery using mass spectrometry-based proteomics/metabolomics and biospecimens**  
Pao Chi Liao, National Cheng Kung University, Taiwan
- 12:35-12:55 **Title: CRISPR/Cas9-mediated knock-in of large DNA in human embryonic stem cells and somatic cells**  
Bo Feng, University of Hong Kong, China

### Panel Discussion

Lunch 12:55-14:00 @ Plaza III

- 14:00-14:20 **Title: Clinical translation of tissue-engineered medical products (TEMP) - Journey from bench to bed-side**  
Sita Somara, Wake Forest Institute for Regenerative Medicine, USA
- 14:20-14:40 **Title: Pluripotent Cells: A tool to model development and to deliver definitive cure for pediatric diseases**  
Vittorio Sebastiano, Stanford School of Medicine, USA
- 14:40-15:00 **Title: Engineering stem cells and biomaterials to treat birth defects before birth**  
Aijun Wang, University of California, USA
- 15:00-15:20 **Title: Smooth Muscle Genome/Transcriptome Browser: Offering genome-wide references and expression profiles of transcripts expressed in intestinal primary cells and tissues**  
Seungil Ro, University of Nevada, USA
- 15:20-15:40 **Title: Initiatives to advance stem cell science and medicine at California's \$3 billion stem cell agency**  
Stephen S. Lin, California Institute for Regenerative Medicine, USA
- 15:40-16:00 **Title: Regeneration and repair of post-infarct cardiovascular tissues with rejuvenated stem cells**  
Yong Jian Geng, University of Texas, USA

### Panel Discussion

Networking & Refreshment Break 16:00-16:20 @ Plaza Foyer

- 16:20-16:40 **Title: Application of ultrasonography in the assessment of overhand movement**  
Lin-Hwa Wan, National Cheng Kung University, Taiwan
- 16:40-17:00 **Title: Hydro-pressure therapy in chronic kidney diseases**  
Shrikant L. Kulkarni, Kulkarni Clinic, India
- 17:00-17:20 **Title: Natural Polymer, Zein, for Tissue Regeneration**  
Jin-Ye Wang, Shanghai Jiao Tong University, China
- 17:20-17:40 **Title: Role of bone-marrow derived stem cells in liver regeneration: a multicenter clinical trial**  
Hala Gabr, Cairo University, Egypt
- 17:40-18:00 **Title: Regenerative effect of autologous mesenchymal stem cell injection on cartilage defects**  
Wael Abo Elkheir, Military Medical Academy, Egypt

### Young Research Forum

- 18:00-18:15 **Title: Cell therapy for Crilger Najjar Type I syndrome**  
Elvira Famulari, Molecular Biotechnology Center, Italy

### Poster Presentations 18:15-18:45

- PP 1 **Title: Biological Effects of Low, Medium, and High Blue-Enriched White Light In Light Emitting Diode (Led) On Caenorhabditis Elegans**  
Aldana Aldawsari, Texas Southern University, USA
- PP 2 **Title: Deletion of osteoblastic Wntless reduces osteogenic differentiation of bone marrow mesenchymal stem cells and delays bone regeneration in a femur defected animal model**  
Sher Bahadur Poudel, Chonbuk National University, Korea
- PP 3 **Title: Modulation of cell proliferation and differentiation by a new thiazolidine compound (gq-11) in human reconstructed skin**  
Jacqueline Cavalcante Silva, University of Sao Paulo, USA
- PP 4 **Title: Sonic Hedgehog signaling promotes Müller glia reprogramming in regenerating Zebrafish/ Mouse retina: Towards curing retinal diseases**  
Simran Kaur, Indian Institute of Science Education and Research, India

### Panel Discussion

Award Function & Closing Ceremony