

Day 1 November 09, 2018

Conference Hall: COPA - B

08:15-08:40 Registrations

08:40-09:00 Opening Ceremony

Keynote Forum

Introduction

09:00-09:30 **Title: Optimizing regenerative medicine therapies for differing patient populations**
J Koudy Williams, Wake Forest Baptist Medical Center, USA

09:30-10:00 **Title: Bio-fabrication of smart microcapsules containing insulin secreting pancreatic islet cells: Potential applications in diabetes mellitus**
Martin J D'Souza, Mercer University, USA

10:00-10:30 **Title: Marrow fibroblasts induce monocytes to promote endogenous regeneration**
Beverly Torok-Storb, Fred Hutchinson Cancer Research Center, USA

Panel Discussion

Networking & Refreshment Break 10:30-10:45

10:45-11:15 **Title: Lithium effects on stem cells advances in stem cell application in clinical medicine**
Vincent S Gallicchio, Clemson University, USA

11:15-11:45 **Title: Development and application of bioengineered artificial tumor tissues to effectively model breast cancer generation, progression and metastasis**
Timothy Lyden, University of Wisconsin-River Falls, USA

11:45-12:15 **Title: Ice-free cryopreservation of natural and bioengineered tissues**
Kelvin Brockbank, Clemson University and Tissue Testing Technologies LLC, USA

12:15-12:45 **Title: Biobank sustainable plan in developing countries**
Svetlana Gramatiuk, Ukraine Associated of Biobank, Ukraine

Panel Discussion

Lunch Break 12:45-13:45

Sessions: Stem Cells | Biomaterials and Bioprocessing | Regenerative Medicine Research | Diseases and Regenerative Medicine Approach | Synthetic Biology and CRISPR Technology | Biobanking & Expertise Networks | Stem Cell Banking

Session Chair: Eric B Kmiec, Gene Editing Insitute, USA

Session Intoduction

13:45-14:05 **Title: Role of BET proteins in cellular reprogramming**
Kejin Hu, University of Alabama at Birmingham, USA

14:05-14:25 **Title: CRISPR-directed gene editing creates genetic heterogeneity surrounding the Sickle Cell Disease point mutation**
Eric B Kmiec, Gene Editing Insitute, USA

14:25-14:45 **Title: Photobiomodulation at 660 nm attenuates oxidative stress by inhibiting FOXO1 activation in diabetic wounded fibroblast cells**
Naresh Kumar, University of Johannesburg, South Africa

14:45-15:05 **Title: Potential stem cell therapy for Alzheimer's disease and Parkinson's disease**
Yoo-Hun Suh, Gachon Neuroscience Research Institute, Korea

15:05-15:25 **Title: Stem cell industry: Regulatory developments, FDA inspection and enforcement, legal issues for providers**
Matthew M Fischer, Florida Healthcare Law Firm, USA

Panel Discussion & Group Photo

Networking & Refreshment Break 15:25-15:40

15:40-16:00 **Title: Repigmentation of human vitiligo skin by narrow band UVB is controlled by transcription of *GLI1* and activation of β -Catenin pathway in the hair follicle bulge stem cells**
Stanca Birlea, University of Colorado School of Medicine, USA

16:00-16:20 **Title: The promise of cell-based gene therapies using non-viral delivery approaches**
Renee Cottle, Clemson University, USA

Video Presentation 16:20-16:40

Title: Advanced synchrotron radiation tomography in regenerative medicine: A 3D exploration into the intimate interactions between tissues, cells and biomaterials

Alessandra Giuliani, Polytechnic University of Marche, Italy

16:40-17:00 Title: Quality indicators as a measure of good practice at the National Biobank in South Africa

Bonginkosi Duma, National Health Laboratory Service, South Africa

17:00-17:20 Title: Sodium butyrate, a histone deacetylase inhibitor, as a novel agent in treatment of juvenile diabetic rat: A histological and molecular study on pancreas

Dalia Elgamal, Assiut University, Egypt

17:20-17:40 Title: Biofabrication and characterization of microcapsules encapsulating PC-12 cells for treatment of Parkinson's disease

Devyani Joshi, Mercer University, USA

Panel Discussion

Day 2 November 10, 2018

Conference Hall: COPA - B

Keynote Forum

09:00-09:30 Title: Leading regenerative medicine innovation to market

Dan Gincel, Maryland Stem Cell Research Fund, USA

09:30-10:00 Title: Human amniotic fluid stem cells for regenerative medicine

Bruce K Young, New York University School of Medicine, USA

10:00-10:30 Title: Biopreservation considerations for GMP cell & tissue bioprocessing, clinical development, and delivery

Aby J Mathew, BioLife Solutions Inc., USA

Panel Discussion & Group Photo

Networking & Refreshment Break 10:30-10:45

10:45-11:15 Title: Limiting factors to the therapeutic use of CBUs and how to overcome these

Wolfgang Knirsch, Vita 34 AG, Germany

11:15-11:45 Title: Antibody-proteases as a unique target and thus the tool to be applied in regenerative medicine

Sergey Suchkov, First Moscow State Medical University, Russia

11:45-12:15 Title: Two steps transplantations of hepatocytes produced from human tooth pulp into swine with cirrhosis

Ken Yaegaki, Nippon Dental University School of Life Dentistry, Japan

12:15-12:45 Title: Tissue microarray and quantitative digital pathology for research and diagnostic applications

Pasquale De Blasio, ISENET, Italy

Panel Discussion

Lunch Break 12:45-13:45

13:45-14:15 Title: Reconstruction to regeneration: Beginning of a new era in the wound management

Sandeep Shrivastava, Datta Meghe Institute of Medical Sciences, India

Sessions: Clinical and Translational Research | Advances in Biomedical Engineering, Imaging and Screening | Stem Cell Research and Regenerative Medicine | Gene Therapy | Regenerative Medicine in Aging, Dermatology and Plastic Surgery | Mesenchymal Stem Cells (MSC) | Tissue engineering | Vitrification

Session Chair: Bruce K Young, New York University School of Medicine, USA

Session Co-Chair: Wolfgang Knirsch, Vita 34 AG, Germany

Session Introduction

14:15-14:35 Title: Modeling aging and type-2 Diabetes with precursors derived from skin

Sarah K Steinbach, Brevitas Consulting, Canada

- 14:35-14:55** **Title: $LT\beta R$ angiogenic signaling is crucial for bioengineering a kidney in lymphoid organs**
Maria Giovanna Francipane, University of Pittsburgh School of Medicine, USA
- 14:55-15:15** **Title: Modeling disease of the peripheral nervous system using human pluripotent stem cells**
Nadja Zeltner, University of Georgia, USA
- 15:15-15:35** **Title: Creating a single version of truth in translational research, connect clinical samples with clinical data**
Mike Van Alstine, University of Texas MD Anderson Cancer Center, USA
- 15:35-15:55** **Title: Effect of mesenchymal stem cells alone or combined with berberine versus methotrexate in experimental model of rheumatoid arthritis**
Nashwa Ahmed Mohamed Mostafa, Assiut University, Egypt

Panel Discussion

Networking & Refreshment Break 15:55-16:10

- 16:10-16:30** **Title: The role of adipose derived- mesenchymal stem cells in healing of experimentally induced gastric ulcer in adult male albino rats**
Amal Taha Abou-Elghait, Assiut University, Egypt
- 16:30-16:50** **Title: Effects of vitrification on morphology and mRNA expression in apoptotic genes in ovine immature cumulus oocytes complexes**
Satish Kumar, Chief Scientist and Head, AUJ INNOVEDIC, India
- 16:50-17:10** **Title: New treatment for muscular dystrophy**
Islam Medhat, Cairo University, Egypt

Poster Presentations 17:10 -17:50

- P 01** **Title: Generation of sympathoadrenal progenitor cells from human pluripotent stem cells**
Heidi Ulrichs, University of Georgia, USA
- P 02** **Title: Polycomb repressive complex 1 regulators of early ectodermal differentiation**
Divya Desai, NMIMS University, India
- P 03** **Title: The Cytoprotective effect of barley compared with phenytoin on the cerebellum of mice with electrically induced seizures**
Nashwa Ahmed Mohamed Mostafa, Assiut University, Egypt
- P 04** **Title: The efficiency of using adipose-derived Mesenchymal stem cells (AD-MSc) in treatment of Stress Urinary Incontinence (SUI) in rat model. Histological and molecular study**
Nashwa Ahmed Mohamed Mostafa, Assiut University, Egypt
- P 05** **Title: Chronic exposure to lead induces decreased sex hormones and spermatogenesis disturbance in male Wistar rats**
Konan Kouassi Martin, Félix Houphouët-Boigny University, Ivory Coast

Panel Discussion

Thanks Giving & Closing Ceremony

