

7th International Conference on

TISSUE ENGINEERING & REGENERATIVE MEDICINE

October 02-04, 2017 Barcelona, Spain



Conference Series - America

One Commerce Center-1201, Orange St. #600, Wilmington, Zip 19899, Delaware, USA
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Conference Series - UK

Kemp House, 152 City Road, London EC1V 2NX, UK
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Gatwick

conference**series.com** 08:30-08:55

Opening Ceremony

Keynote Forum

08:55-09:00 Introduction

Title: Scaffolds and stem cells: A tissue engineering approach

09:00-09:45

Dennis M. Lox, Sports & Regenerative Medicine Centers, Florida

09:45-10:30

Title: Towards the development of a cell-engineered human cornea

Maria P de Miguel, La Paz Hospital, IDiPAZ, Spain

Coffee Break & Group Photo 10:30-10:45 @ Meeting Hall

10:45-11:30

Title: The subchondral bone as a target of Platelet-Rich Plasma in cartilage degeneration

Mikel Sanchez, Unidad De Cirugía Artroscópica, Spain

11:30-12:15

Title: Biofabrication in tissue engineering: Current and future trends

Pedro G Morouço, Polytechnic Institute of Leiria, Portugal

Sessions: Scaffolds in Regenerative Medicine | Stem Cells | Stem Cell Treatments | Tissue Repair and Regeneration | Tissue Engineering | Regenerative Medicine

Session Chair: **Pedro G Morouço**, Polytechnic Institute of Leiria, Portugal

Session Co-chair: **Barbara Gawronska-Kozak**, Institute of Animal Reproduction and Food Research, Poland

Session Introduction

12:15-12:45

Title: Concerted interactions of neurogenesis and myelinogenesis in promoting neuroregeneration

Ing-Ming Chiu, National Health Research Institutes, Taiwan

12:45-13:15

Title: Peripheral nerve regeneration using artificial nerve sheets composed of freeze-dried alginate gel

Yoshihisa Suzuki, Shiga University of Medical Science, Japan

Lunch Break 13:15-14:00 @ Mediteraneo

14:00-14:30

Title: Response of post-ischemic heart to stem cells treatment: A case study

Domingo Guerra, La Vega, Dominican Republic

14:30-15:00

Title: From repair to regeneration – transcription factor FOXN1 directs the skin wound healing processes

Barbara Gawronska-Kozak, Institute of Animal Reproduction and Food Research, Poland

15:00-15:30

Title: Complete healing of a non-healing diabetic foot ulcer within one month and persisting for three years using autologous adipose tissue-derived Stromal Vascular Fraction and Platelet Rich Plasma

Triantafyllos Didangelos, Diabetes Center, AHEPA Hospital, Medical School, Aristotle University of Thessaloniki, Greece

15:30-16:00

Title: Implant of autologous bone marrow mother stem cells in patients with congestive heart failure, functional class IV

Fernandez Viña Matias, Clinica San Nicolás, Argentina

Networking and Refreshments Break 16:00-16:15 @ Meeting Hall

16:15-16:45

Title: Behaviour of human mesenchymal-periosteal cells grown in contact with different scaffolds used in dentistry

Gabriele Ceccarelli, University of Pavia, Italy

16:45-17:15

Title: Translating repair into regeneration in wounds with PRP

Sandeep Shrivastava, Datta Meghe Institute of Medical Sciences, India

17:15-17:45 **Title: The effect of polyglycerol sulfate-based hydrogels with tunable mechanical integrity on cartilage regeneration in osteoarthritis**

Shabnam Hemmati-Sadeghi, Free University of Berlin, Germany

Panel Discussion

Day 2 October 03, 2017

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Keynote Forum

10:00-10:45 **Title: Adipose-derived stem cell therapy for osteoarthritis of the knee**

Peter Chapman-Smith, New Zealand Stem Cell Treatment Centre, New Zealand

Coffee Break 10:45-11:00 @ Meeting Hall

11:00-11:45 **Title: Mesenchymal stem cells in clinical applications**

Brian M. Mehling, Blue Horizon International, USA

11:45-12:30 **Title: Transplantation of hepatocyte like cells derived from human tooth into cirrhosis rat model**

Yaegaki K, Nippon Dental University, Japan

Poster Presentation 12:30-13:00 @ Meeting Hall

Poster Judges: **Pedro G Morouço**, Polytechnic Institute of Leiria, Portugal

Domingo Guerra, Dominican Republic

TERM1701 Title: Pharmacological Stimulation of Regeneration. The Regennova Project

Paweł Sosnowski, Gdańsk University of Technology, Poland

TERM1702 Title: Development of a nanocomposite with antibiofilm activity and permissive for delivery of mesenchymal stem cells

Roberto Sánchez, Bienvenido al Instituto Nacional de Rehabilitación, Mexico

TERM1703 Title: Collagen membranes enriched with graphene oxide significantly enhance DPSCs differentiation and control inflammation occurrence

Susi Zara, University, "G. d'Annunzio", Italy

TERM1704 Title: Hybrid inorganic-organic nanofibers with antibacterial activity for regenerative medicine

Ivana Veverková, Technical University of Liberec, Czech Republic

TERM1705 Title: Covalent functionalization of titanium discs with graphene oxide for the improvement of biocompatibility and DPSCs proliferation

Roberta Di Carlo, University "G. d'Annunzio", Italy

TERM1706 Title: 3D printing gelatin-alginate hydrogels in cross-linking solution: role of concentration, syringe gauge, and extrusion rate on the hydrogel layering

Maha Alruwaili, University College Dublin, Dublin, Ireland

TERM1707 Title: Assessment of the osteogenic potential of human autologous bone meal: A cell and molecular biology pilot study

Christiane Kunert-Keil, Technische Universität Dresden, Germany

TERM1708 Title: Review and perspectives of cell based clinical trials as treatment for urine incontinence

Lara M F, Virgen de la Victoria University Hospital, Spain

TERM1709 Title: A Si- α TCP scaffold for biomedical applications: A morphological, histological and histomorphometric study in an animal model

Piedad N de Aza, Universidad Miguel Hernandez, Spain

TERM1710 Title: Neurogenin-2-transduced human neural progenitor cells attenuate neonatal hypoxic-ischemic brain injury

Kook In Park, Yonsei University College of Medicine, Korea

Lunch Break 13:00-13:45 @ Mediteraneo

Sessions: Regenerative Medicine | Regenerative Medicine | Models of Regeneration | Cell and Organ Regeneration | Regenerative Medicine Market

- 13:45-14:15** Title: **Notch-mediated conversion of activated T cells into stem cell memory-like T cells for adoptive immunotherapy**
Akihiko Yoshimura, Keio University School of Medicine, Japan
- 14:15-14:45** Title: **Identification of novel mesenchymal stromal cells that have the potential to support hematopoietic stem cell activity**
Fumio Arai, Kyushu University, Japan
- 14:45-15:15** Title: **Nanochannel-Based Electroporation Assisted Tissue Reprogramming and Repair**
Durba Pal, Indian Institute of Technology Ropar, India
- 15:15-15:45** Title: **Comparative study between two ex vivo cell expansion models of CD34+ cells from cryopreserved umbilical cord blood co-cultured with encapsulated mesenchymal stem cells**
Avila-Portillo LuzM, CryoHoldco, Colombia.

Poster Presentation & Networking and Refreshments Break 15:45-16:30 @ Meeting Hall

Poster Judges: **Pedro G Morouço**, Polytechnic Institute of Leiria, Portugal
Domingo Guerra, Dominican Republic

- TERM1711** Title: **The effect of MSCs on vascularization and function of liver carcinoma cells**
Alaa. T. alshareeda, King Abdullah International Medical Research Center, KSA
- TERM1712** Title: **Comparison of explant culture and enzymatic digestion methods for human skin equivalents development**
Catalina Gaviria A, University of Antioquia, Colombia
- TERM1713** Title: **The effect of strontium doped β -TCP on bioactivity of collagen scaffold for bone tissue engineering**
Hamid Goodarzi, Tarbiat Modares University, Iran
- TERM1714** Title: **Regenerative potential of adipose tissue derived mesenchymal stromal cells in canine cutaneous wounds: A clinical trial report**
Concepción Tejero, Universidad Complutense de Madrid, Spain
- TERM1715** Title: **Nanofibers based of titanium nanotubes as scaffolds for maintenance and differentiation of electrostimulated neural PC12 cells**
Y Olgún, CIMIS, Universidad Andrés Bello, Chile
- TERM1716** Title: **Nervous tissue restoration following traumatic brain injury by coral skeleton based implants**
Weiss Orly Eva, Ariel University, Israel
- TERM1717** Title: **De-cellularized and re-cellularized hearts as a next generation test system in drug discovery**
Sepideh Hagvall, Cell Biology Translational Sciences, Sweden
- TERM1718** Title: **The core of self-assembling peptide nanofibers will influence neurogenesis potential of its attached biological motif**
Shima Tavakol, Iran University of Medical sciences, Iran
- TERM1719** Title: **Human inflamed periradicular tissues as a source of proangiogenic growth factors essential in repair and bone regeneration processes**
Aleksandra Palatyńska-Ulatowska, Medical University of Lodz, Poland
- TERM1720** Title: **Characterization of Alpaca (*Vicugna pacos*) adipose derived mesenchymal stem cell population**
Nathaly Enciso Benavides, Universidad Complutense de Madrid, Spain
- TERM1721** Title: **Immobilization of proteolytic enzymes onto silica nanofibers**
Danilová Iveta, Technical University of Liberec, Czech Republic

Day 3 October 04, 2017

Sessions: Regenerative Medicine | Bone Tissue Engineering | Tissue Repair and Regeneration | Cellular Therapies | Scaffolds in Regenerative Medicine | Models of Regeneration

Session Chair: Ing-Ming Chiu, National Health Research Institutes, Taiwan

Session Co-Chair: Alaa T alshareeda, King Abdullah International Medical Research Center, KSA

Session Introduction

10:00-10:30 **Title: Restoration of the corneal epithelium using a novel Bioink™**
Hannah Frazer, University of Sydney, Australia

Coffee Break 10:30-10:45 @ Meeting Hall

10:45-11:15 **Title: Regenerative implantable medical devices: An overview**
Hongman Wang, Peking University Health Science Center, China

11:15-11:45 **Title: Elabela, a novel hormone, involves in angiogenesis and cardiogenesis *in vitro***
Zhi Wang, Nanjing Chest Hospital, China

11:45-12:15 **Title: Optimization of embryonic kidney organotypic renal organoid culture to study nepron development from individual cells to functional unit**
Ilya Skovorodkin, University of Oulu, Finland

12:15-12:45 **Title: Effect of pancreatic extract and signaling methods in direction of embryonic stem cells into β cells**
Elham Hoveizi, University of Ahvaz, Iran

Lunch Break 12:45-13:30 @ Mediteraneo

13:30-14:00 **Title: Stem cell-based approach in nephropathy management: Pre-clinical study**
Hanaa H Ahmed, National Research Centre, Egypt

14:00-14:30 **Title: Lizards as model for organ regeneration in amniotes: Results and perspectives**
Lorenzo Alibardi, Comparative Histolab, Padova, Italy

14:30-15:00 **Title: Diabetes and regenerative medicine, a new strategy on rearrangement of amino acids consequences in insulin formation**
Emad Fawzy Eskander, National Research Center, Egypt

15:00-15:30 **Title: Limbo™ platform, an innovative methodological approach towards cryopreservation of cell therapy products**
Roberto Hernan, Cellulis Ltd., UK

15:30-16:00 **Title: *In vivo* repair of bone defect with PGLA/HA/CS scaffold and MSCs on rats**
Seyedeh Niloufar Rafiee Alavi, Iran University of Medical Sciences, Iran

Networking and Refreshments Break 16:00-16:15 @ Meeting Hall

Panel Discussion

Awards & Closing Ceremony

Bookmark your dates

11th International Conference on

TISSUE ENGINEERING & REGENERATIVE MEDICINE

October 18-20, 2018 | Rome, Italy

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