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Scientific Program

6th World Congress on

Cell & Stem Cell Research

February 29 - March 02, 2016 Philadelphia, USA

OMICS International Conferences:
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Day 1 February 29, 2016

09:00-09:30 Registrations

Independence-A

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9:30-9:55 **Opening Ceremony**

By: Haval Shirwan, University of Louisville, USA

Keynote Forum

09:55-10:00 **Introduction**

10:00-10:30 **Specific targeting of pathogenic T cells for the induction of tolerance to pancreatic islet grafts for the treatment of type 1 diabetes**
Haval Shirwan, University of Louisville, USA

10:30-11:00 **Anti-angiogenic and Pro-apoptotic Activity of Nano-diamino-tetrac (Nanotetrac) initiated at a Cell Suface Target on Integrin αvβ3**
Paul J Davis, Albany Medical College, USA

Panel Discussion

Networking & Refreshments 11:05-11:25 @ Foyer

Speaker Forum

Session Introduction

Track 1: Stem Cells
Track 6: Cell Metabolism
Track 8: Apoptosis and Cancer Disease
Track 13: Cell and Gene Therapy

Session Chair: Paul J Davis, Albany Medical College, USA
Session Chair: Haval Shirwan, University of Louisville, USA

11:25-11:50 **Evaluation of immune response to intravenously administered human cord blood stem cells in the treatment of symptoms related to chronic inflammation**
Brian M Mehling, Blue Horizon International LLC, USA

11:50-12:15 **Optimizing intrinsic mechanisms of neuroprotection in the cns: Utilizing mitochondrial and neurosteroid chemistry**
Lewis K Clarke, Bay Area Rehabilitation Medicine Associates, USA

12:15-12:40 **Cancer stem cell markers: An emerging link between metabolic reprogramming and metastasis**
Shanmugasundaram Ganapathy-Kanniappan, Johns Hopkins University School of Medicine, USA

12:40-13:05 **Prominin1 in liver development and disease**
Nirmala Mavila, Cedars-Sinai Medical Center, USA

Group Photo

Lunch Break 13:05-13:50 @ Benzamin's Restaurant

13:50-14:15 **Different behavior of human adipose tissue-derived stem cells isolated by liposuction at higher and lower negative pressure**
Lucie Bacakova, Institute of Physiology of the Czech Academy of Sciences, Czech Republic

14:15-14:40 **Wnt3a and bmp7 in odontoblastspecification/differentiation and dentin regeneration**
Jian Zhou, Beijing Stomatological Hospital, China

14:40-15:05 **A novel predictor of leukemia transformation in myelodysplastic syndrome patients**
Wen-Chi Yang, Yuan's General Hospital, Taiwan

15:05-15:30 **Ad-RTS-hIL-12+veledimex bench to bedside in the treatment of metastatic breast cancer**
John A Barrett, Ziopharm Oncology, USA

15:30-15:55 **Responses to well-known genotoxic agents in germ stem cells *in vitro***
Diana Anderson, University of Bradford, UK

Networking & Refreshments 15:55-16:10

16:10-16:35 **The role of complement system in GVHD**
Qing Ma, University of Texas M.D. Anderson Cancer Center, USA

16:35-17:00 **Identification of common pathways and markers in somatic stem cells and cancer stem cells**
Daniela Dinulescu, Harvard Medical School, USA

17:00-17:25 **Development of mesenchymal stem cell (msc) therapies for cancer with 3-d culture systems**
Thomas Bartosh, Texas A&M University Health Science Center, USA

17:25-17:50 **Autologous mesenchymal stem cell transplantation for spinal cord injury: a phase-i pilot study**
Humayoon Shafique Satti, Quaid-i-Azam University, Pakistan

Day 2 March 01, 2016

Independence-A

Keynote Forum

10:00-10:30 **General Overview of the Comet Assay**
Diana Anderson, University of Bradford, UK

10:30-11:00 **Mechanisms of cancer progression: the roles of osteopontin variants**
Georg F Weber, University of Cincinnati Academic Health Center, USA

Panel Discussion

Networking & Refreshments 11:05-11:25 @ Foyer

Speaker Forum

Track 2: Stem Cell Banking
Track 4: Stem Cell Therapy
Track 15: Bioinformatics and Computational Biology

Session Chair: Patricia E Berg, George Washington University Medical Center, USA
Session Co-Chair: Qing Ma, University of Texas M.D. Anderson Cancer Center, USA

Session Introduction

11:25-11:50 **Enhancing survival of transplanted stem cells in the wound bed**
Alan Wells, University of Pittsburgh, USA

11:50-12:15 **Activation of BP1 is associated with aggressive breast cancer**
Patricia E Berg, George Washington University Medical Center, USA

12:15-12:40 **Direct implantation of adipose derived neuron progenitor stem cell to treat parkinson**
Purwati Armand, Airlangga University, Indonesia

12:40-13:05 **The therapeutic role of the bone marrow mesenchymal stem cells and the schwann cells and their co-transplantation in regeneration of the injured sciatic nerve in rats**
Mennat-allah Elmenyawi, Suez Canal University, Egypt

Lunch Break:13:05-13:50 @ Benzamin's Restaurant

13:50-14:15 **Differentiation of osteogenic cells from umbilical cord mesenchymal stem cells: comparing two enzyme digestion methods**
Zahara Mansoor, University of Colombo, Sri Lanka

14:15-14:40 **MEKK3 coordinates with FBW7 to regulate microcephaly associated protein WDR62 and neurogenesis**
Zhiheng Xu, Chinese Academy of Sciences, China

14:40-15:05 **Connotation of life beyond molecular biology**
Simon Berkovich, George Washington University, USA

15:05-15:30 **Cell division labeling by chromosome changes for monozygotic twinning and its implications to cancerogenesis**
Carol M. Jim, George Washington University, USA

15:30-15:55 **Endogenous stem cell mobilization for the treatment of diabetes**
Miguel Guillermo Garber, Revitacell Clinic, Spain

Networking, Refreshments & Poster Presentations 15:55-16:25 @ Foyer

16:25-16:50 **A comparison of tissue-engineered bone from adipose-derived stem cell with autogenous bone repair in maxillary alveolar cleft model in dogs**
Shirin Shahnaseri, Isfahan University of Medical Sciences, Iran

16:50-17:15 **The effect of selegiline as an efficient and pre-inducer for neuronal differentiation of rat bone marrow stromal cells on gene expression of neurotrophins and their receptors**
Atefeh Roein Tan, Shefa Neuroscience Research Center, Iran

17:15-17:40 **Total quality approach to cell incubation and processing**
Kevin Murray, BioSpherix, Ltd. USA

17:40-18:05 **Angiogenesis Properties of the Amniotic Membrane Stem Cells After Cryopreservation**
Mahsa Khayat-Khoei, University of Texas Health Science Center, USA

Poster Presentations @ 15:55-16:25 @ Foyer

Day 3 March 02, 2016

Independence-A

Track 3: Novel Stem Cell Technologies

Chair: Diana Anderson, University of Bradford, UK

9:00-9:25 **Cutting edge concepts in the use of stem cell and prp injections in an office setting**
Joseph Purita, Institute of Regenerative and Molecular Orthopedics, USA

9:25-9:50 **Mechanistic basis of allotolerance induced by SA-FasL-engineered pancreatic islets**
Haval Shirwan, University of Louisville, USA

9:50-10:15 **Single use technologies support large scale manufacturing of adult stem cells**
Julie Murrell, EMD Millipore Corporation, USA

10:15-10:40 **Identify the melocular mechamisms that regulate defective NK cell development in aged mice**
Min Fang, Chinese Academy of Sciences, China

	Networking & Refreshments 10:40-11:05 @ Foyer
11:05-11:30	**Actions of L-thyroxine (T4) and Nano-diamino-tetrac (NDAT, Nanotetrac) on PD-L1 in cancer cells** **Paul J Davis,** Albany Medical College, USA
11:30-11:55	**Patterns of cancer cell sphere formation in primary cultures of human oral tongue squamous cell carcinoma and neck nodes** **Saira Saleem,** Shaukat Khanum Memorial Cancer Hospital and Research Centre, Pakistan
11:55-12:20	**Isolation of Stem cells from Dental Pulp of Primary Teeth** **Seyed Amir Mousavi,** Isfahan University of Medical Sciences, Iran
12:20-13:00	**Special Session on Career Development for Young Researchers and Students** **Haval Shirwan,** University of Louisville, USA and **Paul J Davis,** Albany Medical College, USA
	Thanks giving & Closing Cermony
	Lunch Break @ Benzamin's Restaurant

Poster Sessions: 15:55-16:25 @ Foyer

01	**Beneficial Effect of Exer cise on Muscle Regener ation in a Model of Ischemia Reperfusion Injury (IRI)** **Noha Fouad ElHadary,** German University in Cairo, Egypt
02	**Human mesenchymal stem cells in bone tissue engineering – growth, adhesion and osteogenic differentiation of adipose-derived stem cells on ti-6al-4v alloy** **Krocilova Nikola,** Czech Academy of Sciences, Czech Republic
03	**Evaluation of the role of adipose-derived stem cells in the healing of indomethacin-induced gastric ulceration in rats** **Sahar Mansour Hassan Greish,** Suez Canal University, Egypt
04	**Analysis of Golgi structure by imaging flow cytometry** **Inbal Wortzel,** Weizmann Institute of Science, Israel
05	**3D spheroid formation applicable to a wide variety of cell types onto chitosan based hydrogel culture system** **Bosun Kwon,** Winnova Co., Ltd., South Korea
06	**Osteoinductive effects in hMSC by novel synthetic peptide (OP-5) derived from BMP-2 and its application with OP-5 conjugated PLLA for clinical use** **Bosun Kwon,** Winnova Co., Ltd., South Korea
07	**Induction of chondrogenesis in adult human mesenchymal stem cell monolayer culture system by using chitosan based injectable hydrogel accompanied with GDF-5** **Bosun Kwon,** Winnova Co., Ltd., South Korea
08	**Randomized clinical study showed ejection fraction improvement and cardiac muscle mass increasing analyzed with magnetic resonance imaging after a year of bone marrow stem cells transplantation** **Idiberto Jose Zotarelli Filho,** State University of Sao Paulo, Brazil

E-Poster

01	**Unexpected opening of the glycosylation site in hexagonal form of CAL-B: Is it functionally related?** **Jaroslaw Blaszczyk,** Centre of Molecular and Macromolecular Studies of the Polish Academy of Sciences, Poland
02	**Ribonuclease iii in action: catalytic photographs of the enzyme Determined by x-ray crystallography** **Jaroslaw Blaszczyk,** Centre of Molecular and Macromolecular Studies of the Polish Academy of Sciences, Poland
03	**Toll-like receptor-2 mediates neurogenesis in ischemic brain in mice** **Fang Hua,** Xuzhou Medical College, China
04	**Evaluation the potential anticancer effects of human amniotic fluid derived stem cells (hAFDSCs) on ovarian cancer cells *in vitro*** **Shiva Gholizadeh,** Tabriz University of Medical Sciences, Iran

Bookmark your dates

8th World Congress on

Cell & Stem Cell Research

March 27 - 29, 2017 Baltimore, USA

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