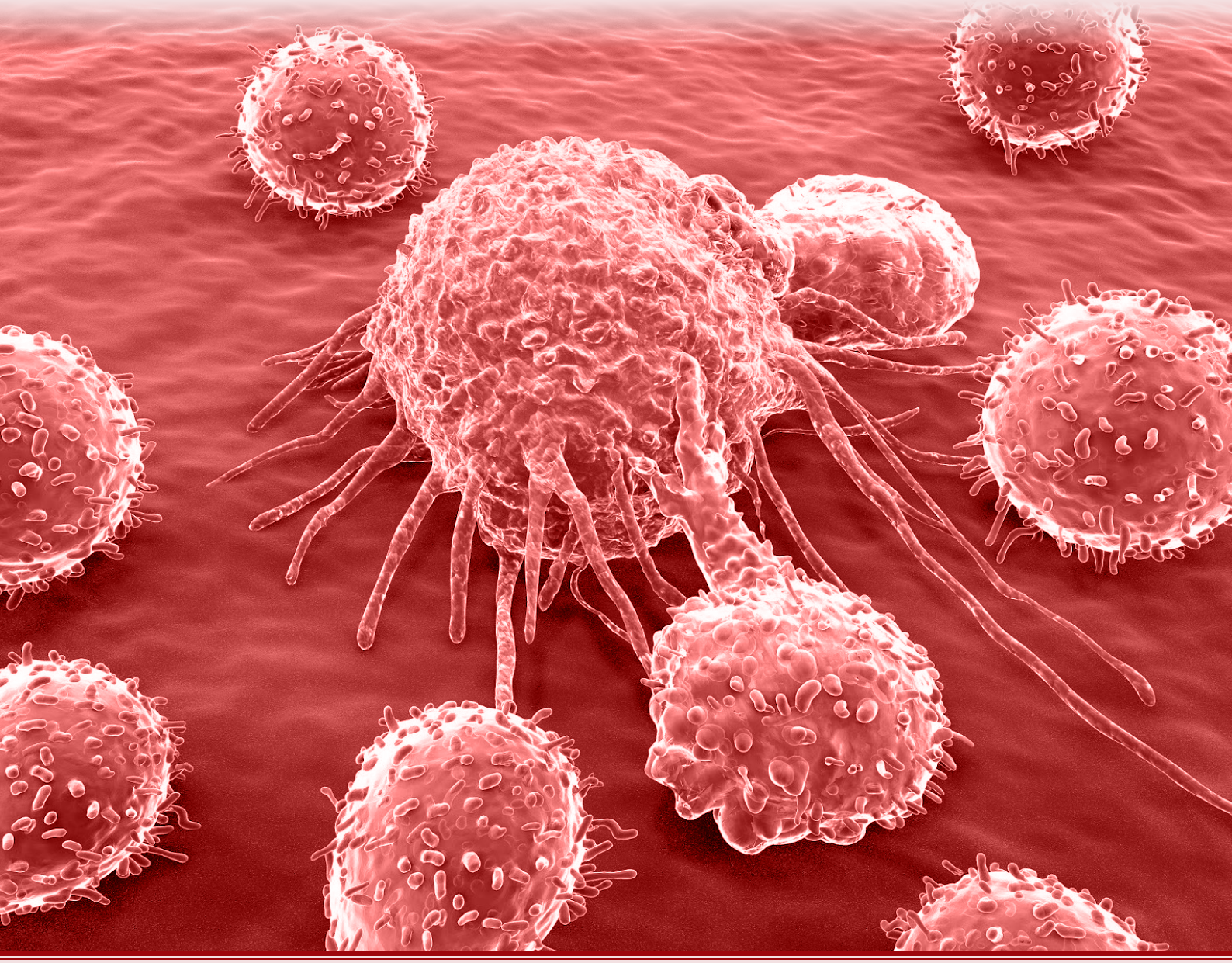
OMICS Group Conferences
Accelerating Scientific Discovery

Scientific Program

3rd International Conference on

Cell Science & Stem Cell Research

November 20-22, 2013 DoubleTree by Hilton Baltimore-BWI Airport, MD, USA



"Organize your Events at OMICS Group Conferences"

Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

OMICS Group Conferences
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Email: *cellscience2013@omicsgroup.us*

Day 1 November 20, 2013

08:30-09:30 Registrations

Chesapeake

OMICS Group Conferences
Accelerating Scientific Discovery

09:30-10:00

Opening Ceremony

Keynote Forum

10:00-10:05 **Introduction**

10:05-10:30 **Mahendra Rao**
NIH Center for Regenerative Medicine, USA

10:30-10:55 **Haval Shirwan**
University of Louisville, USA

10:55-11:20 **Sudhakar Akul Yakkanti**
SRI International, USA

Coffee Break 11:20-11:35 @ Ballroom Foyer

Track 1: Stem Cell and Cancer Cell Therapy
Track 2: Stem Cell Transplantation
Track 3: Tumour Science
Track 4: Leukemia's: Antileukemic Drugs

Session Chair: Haval Shirwan, University of Louisville, USA
Session Co-Chair: Diana Anderson, University of Bradford, UK

Session Introduction

11:35-11:55 **Pre-activation of human mesenchymal stem/stromal cells in 3D culture enhances their therapeutic potential**
Joni H. Ylostalo, Texas A&M University Health Science Center, USA

11:55-12:15 **Pyridylporphyrins as potential anticancer agents**
Jan Habdas, University of Silesia, Poland

12:15-12:35 **TCR signaling under acidic conditions in human peripheral blood T cells**
Hiroshi Kobayashi, Chiba University, Japan

12:35-12:55 **Cooperative induction of intestinal stem cells by R-spondin 1 and Slit2 augments chemoradioprotection**
Jian-Guo Geng, University of Michigan, USA

12:55-13:15 **Signaling to anchorage-independence in cancer cells**
Georg F. Weber, University of Cincinnati Academic Health Center, USA

13:15-13:35 **MicroRNAs play important roles in the formation of lung adenocarcinoma in conditional knockout mice**
Jian-Guo Sun, Third Military Medical University, China

Lunch Break 13:35-14:20 @ Eden's Landing Restaurant

14:20-14:40 **The rationale for dual targeting MET and EGFR in non-small cell lung cancer**
Yu-Wen Zhang, Van Andel Research Institute, USA

14:40-15:00 **Reactive oxygen species augment triggered activity in cardiac melanocyte-like cells**
Vickas V. Patel, University of Pennsylvania, USA

15:00-15:20 **Probing mesenchymal stem cells from lab to life: Are we poised to signal the dawn of a new frontier?**
Ganapathi Bhat.M, Jaslok Hopsital Mumbai, India

15:20-15:40 **Actin-mediated negative regulation of B-cell receptor signaling**
Wenxia Song, University of Maryland, USA

15:40-16:00 **CPE-deltaN: A powerful diagnostic and predictive biomarker for metastasis in different types of human cancers**
Y. Peng Loh, National Institutes of Health, USA

16:00-16:20 **Attractivess and deviation of mesenchymal stem cell taged with iron supermagnetic iron oxide particles towards magnetic field**
Mohamed Mahmoud, Ain Shams University, Egypt

Coffee Break 16:20-16:35 @ Ballroom Foyer

16:35-16:55 **Efficiency of bone marrow-derived stem cells transplantation in treatment of genetic diseases of the liver**
Neelam Yadav, Dr. Ram Manohar Lohia Avadh University, India

16:55-17:15 **Phosphorylation of Rac1 at threonine 108 by ERK in response to EGF: A novel mechanism to regulate Rac1 function**
Zhixiang Wang, University of Alberta, Canada

17:15-17:35 **Chemotherapeutic agents: effects and biochemical changes occurring following prolonged exposure from animal studies and comparison of different compounds in alleviating chemotherapy-induced neuropathy**
Josee Guindon, Indiana University, USA

17:35-17:55 **Modulated electrothermia inducer of immunogenic cell-deaths in cancer**
Andocs. G, Tottori University, Japan

17:55-18:15 **Microfluidics for cancer diagnosis: detection of circulating micro-RNAs**
Shailender Singh Kanwar, University of Michigan, USA

18:15-18:35 **Coordinating self-renewal and differentiation decisions in nervous and haemopoietic stem cells**
Stavros Taraviras, University of Patras, Greece

18:35-19:35 Cocktails Sponsored by **Journal of Cell Science & Therapy** @ **Eden's Landing Restaurant**

Day 2 November 21, 2013

Chesapeake

Keynote Forum

09:00-09:25 **Diana Anderson**
University of Bradford, UK

09:25-09:50 **Stavros Taraviras**
University of Patras, Greece

Symposium on
Neutral stem cells: Generation and applications

09:50-10:10 **Induction of neural stem cells from fibroblasts by small molecules**
Xin-Fu Zhou, University of South Australia, Australia

10:10-10:30 **Generation of self-organized central nervous system-like tissue resembling normal spinal cord following intrathecal transplantation of embryonic stem cells**
John W. McDonald, Johns Hopkins University, USA

Coffee Break 10:30-10:45 @ Ballroom Foyer

10:45-11:05 **Role of stem cell therapy in spinal cord injury**
Alok Sharma, LTMG Hospital & LTM Medical College, India

11:05-11:25 **Stem cell and neurological diseases - From basis to clinic, how to make it work?**
Ting-Hua Wang, Kunming Medical University, China

Track 5: Nanotechnology: Stem Cells and Cancer
Track 6: Apoptosis and Disease
Track 7: Metabolic Regulation: Cell-Based Assays

Session Chair: Quesenberry P, Brown University, USA
Session Co-Chair: Apollina Goel, University of Lowa, USA
Session Co-Chair: Zhe Sha, Harvard Medical School, USA

Session Introduction

11:25-11:45 **Studies of nanoparticle targeting in cancer cells**
Gayle E. Woloschak, Northwestern University School of Medicine, USA

11:45-12:05 **A novel MRI cell tracking technique and its potential in cancer therapy: a preliminary study in a 4T1 breast cancer model at 7.0T**
Jiani Hu, Wayne State University School of Medicine, USA

12:05-12:25 **Delivery of quantum dot- siRNA nanoparticles in SK-N-SH cells for BACE1 gene silencing and intracellular imaging**
Feng Li, Sun Yat-sen University Zhongshan School of Medicine, China

12:25-12:45 **Transplantation of fetal progenitor cells in treatment of liver cirrhosis: From clinical trials to standard treatment method**
Oleksandr Kukharchuk, EmProCell Clinical Research Pvt. Ltd., India

12:45-13:05 **Phosphoproteomics and gene expression profiling reveals systems-wide changes in response to EGF receptor activation**
Alejandro Wolf-Yadlin, University of Washington, USA

Lunch Break 13:05-13:50 @ Eden's Landing Restaurant

13:50-14:10 **Marshalin, a new microtubule minus-end binding protein, regulates cytoskeletal structure in the organ of Corti**
Jing Zheng, Northwestern University, USA

14:10-14:30 **Cell fate change induced by extracellular vesicles**
Quesenberry P, Warren Alpert Medical School of Brown University, USA

14:30-14:50 **Autophagy-mediated defense response and mitochondrial remodeling in mouse mesenchymal stromal cells subjected to bacterial challenge**
Nikolai Gorbunov, The Henry M. Jackson Foundation for the Advancement of Military Medicine Inc, USA

14:50-15:10 **Identify the switch between active and quiescent intestinal stem cells upon gut injury**
Xiaonan Han, Cincinnati Children's Hospital Medical Center, USA

15:10-15:30 **Treatment with proteasome inhibitors induces coordinate expression of proteasome subunits and autophagy components via distinct mechanisms**
Zhe Sha, Harvard Medical School, USA

15:30-15:50 **Targeting cancer stem cells in multiple myeloma therapy**
Apollina Goel, University of Iowa, USA

Coffee Break 15:50-16:20 @ Ballroom Foyer

16:20-16:40 **The anti-proliferative and pro-apoptotic effect of topotecan in combination with thymoquinone in acute myelogenous leukemia**
Sandra Rizk-Jamati, Lebanese American University, Lebanon

16:40-17:00 **Epigenetic regulation of function of aged chromatin**
Teimuraz Lezhava, Tbilisi State University, Georgia

17:00-17:20 **Inducing apoptosis: A possible mechanism for anti-cancer property of the amniotic epithelial stem cells**
Mahsa Khayat-Khoei, Shahid Beheshti University of Medical Sciences, Iran

17:20-17:40 **The beta- CGRP gene and perivascular stem cells in vascular therapy**
Chandra Somasundaram, University of Houston, USA

17:40-18:00 **Autologous glandular stem cells (GSC) offer a new hope for burn patients**
Haitham Salem, Cairo University, Egypt

18:00-18:20 **Potential therapeutic role of neurotensin receptor agonists in the treatment of Alzheimer's disease**
Saobo Lei, University of North Dakota, USA

15:30-16:30 **Poster Presentations @ Billie Holiday**

18:20-19:20 Cocktails Sponsored by **Journal of Stem Cell Research & Therapy @ Eden's Landing Restaurant**

Day 3 November 22, 2013

Chesapeake

Track 8: Emerging Technologies
Track 9: Stem Cells: Current Research
Track 10: Stem Cell Biology
Track 11: Stem Cell Treatment
Track 12: Recent Trends in Cell Biology of Aging

Session Chair: Jimmy Thomas Efird, Brody School of Medicine, USA
Session Co-Chair: Beili Zhu, Northeastern University, USA

Session Introduction

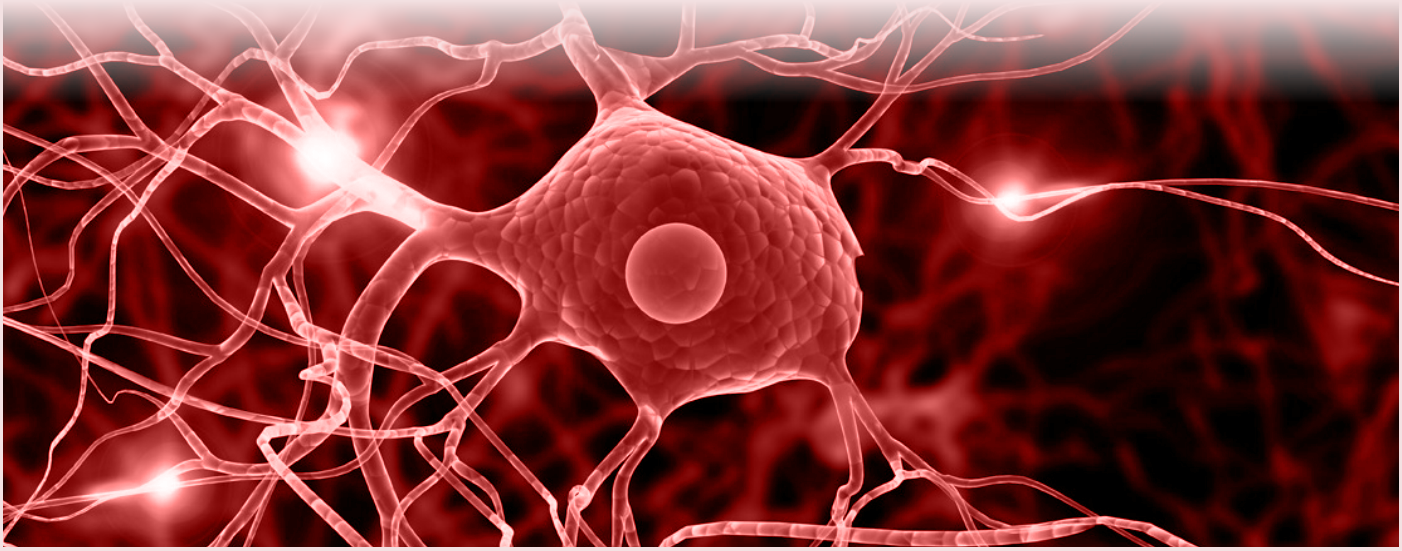
09:00-09:20 **Systemic immunomodulation with SA-FasL-engineered donor splenocytes as an effective means of inducing tolerance to cardiac allografts**
Haval Shirwan, University of Louisville, USA

09:20-09:40	**Dynamics of chromatin signatures associated with the differentiation of human embryonic stem cell into neuroectoderm cell** **Cizhong Jiang,** Tongji University, PRC
09:40-10:00	**Differentiation of stem cells derived from human infrapatellar fat pad for cartilage engineering: characterization of cells undergoing chondrogenesis** **Raed Felimban,** The University of Melbourne, Australia
10:00-10:20	**Overview of useful epidemiologic and statistical methods in the field of cell science and stem cell research** **Jimmy T. Efird,** Brody School of Medicine, USA
10:20-10:40	**Establish cardiac stem cell tracking and lineage tracing system in the farming animal swine for preclinical studies** **Zhong Wang,** University of Michigan Medical School, USA
10:40-11:00	**Deregulation of microRNAs by HIV-1 Vpr protein leads neuronal dysfunction** **Ruma Mukerjee,** Temple University, USA
	Coffee Break 11:00-11:15 @ Ballroom Foyer
11:15-11:35	**Cardiovascular applications of tissue engineering scaffolds using biodegradable polymers** **Beili Zhu,** Northeastern University, USA
11:35-11:55	**Regulation of Ctsk+ chondroid progenitors by the PTPN11 Gene** **Wentian Yang,** Rhode Island Hospital and Brown University Alpert Medical School, USA
11:55-12:15	**DNA damage-induced activation of ATM/ATR is not accompanied by G1/S arrest in mouse embryonic stem cells** **Irina I. Suvorova,** Institute of Cytology RAS and Saint-Petersburg State University, Russia
12:15-12:35	**Gli3 repressor governs the proper establishment of postnatal neurogenic niche** **Hui Wang,** National Institutes of Health, USA
12:35-12:55	**Brucine, an indole alkaloid from *Strychnos nux-vomica* exerts antiangiogenic and antitumor activity by targeting vascular endothelial growth factor receptor 2-mediated angiogenesis** **Sarita Saraswati,** King Saud University, Saudi Arabia
12:55-13:15	**mir-302 contributes to tumorigenicity through promoting G1 to S transition and maintaining OCT4 overexpression by inhibiting AKT1** **Shihua Wang (Robert Chunhua Zhao),** Chinese Academy of Medical Sciences, China
	Lunch Break 13:15-14:00 @ Eden's Landing Restaurant
14:00-14:20	**Role of L-Fucose in modulating leukocytes behavior and reducing infection recurrences** **Daifulah Al Zahrani,** King Abdulaziz Medical City, Saudi Arabia
14:20-14:40	**Pharmacogenetic association of anti-vascular endothelial growth factor treatment in neovascular age-related macular degeneration** **Farshad Abedi,** University of Melbourne, Australia
14:40-15:00	**The clinical trial experience in cellular cardiomyplasty** **Balasundari Ramesh,** Frontier Lifeline Hospital, India
15:00-15:20	**Engineering of a stem cell and nanotechnology-based bone graft substitute** **Willson Kwok,** Frostburg State University, USA
15:20-15:40	**The role of c-Abl in Parkinson's disease** **Han Seok Ko,** Johns Hopkins University School of Medicine, USA
15:40-16:00	**High fidelity episomal cb-ipsc generate vascular progenitors with reduced somatic memory and augmented capacity for regenerating the ischemic retina** **Tea Soon Park,** Johns Hopkins University School of Medicine, USA
16:00-16:20	**Pharmacologic mobilization of endogenous stem cells: Clinical opportunities in organ transplantation** **Zhaoli Sun,** Johns Hopkins University School of Medicine, USA
	Award Ceremony
	Coffee Break 16:20-16:35 @ Ballroom Foyer

Bookmark your dates

OMICS Group Conferences
Accelerating Scientific Discovery

4th International Conference on
Cell Science & Stem Cell Research
June 24-26, 2014 Valencia Conference Centre, Spain



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