149th OMICS Group Conference

Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

2nd International Conference and Exhibition on

Cell & Gene Therapy

October 23-25, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA



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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
5716 Corsa Ave., Suite 110, Westlake Los Angeles, CA 91362-7354, USA
Phone: +1-650-268-9744, Fax: +1-650-618-1414, Toll free: +1-800-216-6499
Email: *celltherapy2013@omicsgroup.info*

Day 1 October 23, 2013

07:30-08:30 **Registrations**

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08:30-09:00 **Opening Ceremony**

Keynote Forum

09:00-09:05 **Introduction**

09:05-09:30 **Paul L. Hermonat**
Central Arkansas Veterans Healthcare System, USA

09:30-09:55 **Valentin Fulga**
Hemostemix, Canada

Coffee Break 09:55-10:10 @ Ballroom Foyer

Group Photo

Track 1: Cell & Gene Therapy- Potential Applications
Track 2: Stem Cell Therapies
Track 3: Cellular Therapies

Session Chair: Paul L. Hermonat, Central Arkansas Veterans Healthcare System, USA
Session Co-Chair: Paul D. Robbins, The Scripps Research Institute, USA

Session Introduction

10:10-10:30 **Systemic delivery of thiol-specific antioxidant hPRDX6 gene by AAV8 inhibits atherogenesis in LDLR KO mice on HCD**
Paul L. Hermonat, Central Arkansas Veterans Healthcare System, USA

10:30-10:50 **Targeted knock-up of endogenous genes using a long non-coding RNA chaperone to improve translation efficiency**
Michael H. Jones, Cell Guidance Systems, UK

10:50-11:10 **Gene therapy for autoimmune diseases: Preclinical and clinical studies**
Paul D. Robbins, The Scripps Research Institute, USA

11:10-11:30 **The impact of leptin on stem cell differentiation towards osteoblasts: Assessed by an osteo/chondro microRNA signature**
Jan Oxholm Gordeladze, University of Oslo, Norway

11:30-11:50 **Stress related plasma proteins & UCB stem cell trafficking**
Mary J. Laughlin, University of Virginia School of Medicine, USA

11:50-12:10 **Adipose derived stem cells as treatment for chronic wounds**
Hilal Arnouk, Cell Constructs, Inc., USA

12:10-12:30 **PET imaging of gene expression in primate model of Parkinson's disease**
Hideo Tsukada, Hamamatsu Photonics K.K., Japan

Lunch Break 12:30-13:15 @ Lower Atrium

13:15-13:35 **MicroRNAs in the therapy of myocardial infarction**
Peifeng Li, University of Illinois, USA

13:35-13:55 **Optimizing the microenvironment of human pluripotent stem cells to maximize our understanding in their biology and their potential in regenerative medicine**
Luis G. Villa-Diaz, University of Michigan, USA

13:55-14:15 **JVS-100: A non-viral gene therapy encoding stromal cell-derived factor-1 for treatment of Ischemic cardiovascular disease**
Joseph Pastore, Juventas Therapeutics, USA

14:15-14:35 **Biofunctionalization of blood contacting surfaces with homing factor mimetic molecules for induction of *in vivo* stem cell seeding**
Meltem Avci-Adali, University Hospital Tuebingen, Germany

14:35-14:55 **Sex and microRNA in cancer stem/progenitor cells**
Wen-Lung Ma, China Medical University Hospital, Taiwan

14:55-15:15 **Lentiviral-based anti-HIV therapeutic vaccine: Design, preclinical studies and phase I/II clinical trial preliminary results**
Cecile Bauche, Theravectys, France

15:15-15:35 **Gene expression program of neural stem cells**
Mojgan Rastegar, University of Manitoba, Canada

Coffee Break 15:35-15:50 @ Ballroom Foyer

15:50-16:10 **Multiparametricimmunophenotyping of human hematopoietic stem cells and progenitor cells by flow cytometry**
Phil Paul, Cleveland Cord Blood Center, USA

16:10-16:30 **Large scale transplantable liver graft using decellularized whole-organ scaffold**
Hiroshi Yagi, Keio University School of Medicine, Japan

16:30-16:50 **Application of stem cells in brain diseases: Lessons from stroke and amyotrophic lateral sclerosis**
Dinko Mitrecic, University of Zagreb, Croatia

16:50-17:10 **The metastability of multipotent hematopoietic cells is attenuated by bone marrow niche cells**
Wendy W. Weston, University of Miami, USA

17:10-17:30 **The diverse roles of nuclear receptors in the regulation of embryonic stem cell pluripotency**
Austin J. Cooney, Baylor College of Medicine, USA

18:20-19:20 Cocktails Sponsored by **Journal of Stem Cell Research & Therapy**

Day 2 October 24, 2013

International C

Keynote Forum

09:30-09:55 **Sean M. Sullivan**
Vical Inc., USA

09:55-10:20 **Leigh Mack**
University of Oxford, UK

Workshop on

10:20-11:20 **TransAbdominal ultrasound imaging of gastro-intestinal tract neoplastic lesions**
Vikas Leelavati Balasaheb Jadhav, Dolphin Family, India

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

Track 4: Advanced Gene Therapeutics
Track 5: Immunotherapy
Track 6: Cancer Therapies

Session Chair: Scott Kahn, Illumina, Inc., USA
Session Co-Chair: Marija Krstic-Demonacos, The University of Manchester, UK

Session Introduction

11:35-11:55 **Stem cell therapy for COPD**
Burton Feinerman, Stem Cell Regen Med Inc., USA

11:55-12:15 **Application of genomic sequencing for understanding tumors**
Scott Kahn, Illumina, Inc., USA

12:15-12:35 **Identification of differentially expressed genes in human lung adenocarcinoma: ERGIC3 as a novel lung cancer-related gene**
Mingsong Wu, Zunyi Medical University, China

12:35-12:55 **FoxM1 transcription factor as a potential target for therapeutic intervention in breast cancer**
Gabriela Nestal de Moraes, National Cancer Institute (INCA), Brazil

12:55-13:15 **New histone deacetylase inhibitors upregulate PTEN expression**
Chiara Zagni, University of Catania, Italy

13:15-13:35 **Combined measurement of CA 15-3 with novel autoantibodies improves diagnostic accuracy for breast cancer**
Xuejun Dong, Zhejiang University, China

Lunch Break 13:35-14:20 @ Lower Atrium

14:20-14:40 **Selective killing of RAD54B-deficient colorectal cancer cells through SOD1 inhibition**
Kirk J. McManus, University of Manitoba, Canada

14:40-15:00 **New approaches to personalised cancer care**
Marija Krstic-Demonacos, The University of Manchester, UK

15:00-15:20 **Obesity and chemotherapy resistance: The nanoparticle approach**
Rebecca E. De Angel, University of Texas, USA

Coffee Break 15:20-15:35 @ Ballroom Foyer

15:35-16:10 Poster Presentations @ Continental Room

16:10-16:30 **Better manufacturing practice for cell therapies**
Kevin Murray, BioSpherix, USA

16:30-16:50 **The laminin protein family – The key to reliable stem cell expansion and primary cell culture**
Louise Sivertssson, BioLamina, Sweden

16:50-17:10 **Identification and pattern analysis of SNPs involved in colorectal cancer**
Jyoti Bhojwani, Indore University, India

17:10-17:30 **SOCS-1 gene therapy protects against hyperoxia- Induced acute lung injury and pulmonary edema**
Narasaiah Kolliputi, University of South Florida, USA

17:30-17:50 **Monitoring of anti Leishmania antibody responses for early diagnosis and prognosis of visceral leishmaniasis in Dinder National Park, Sudan**
Husam Abdulrhman Mahmoud Noraldaim, Blue Nile University, Sudan

18:05-19:05 Cocktails Sponsored by **Journal of Genetic Syndromes & Gene Therapy**

Day 3 October 25, 2013

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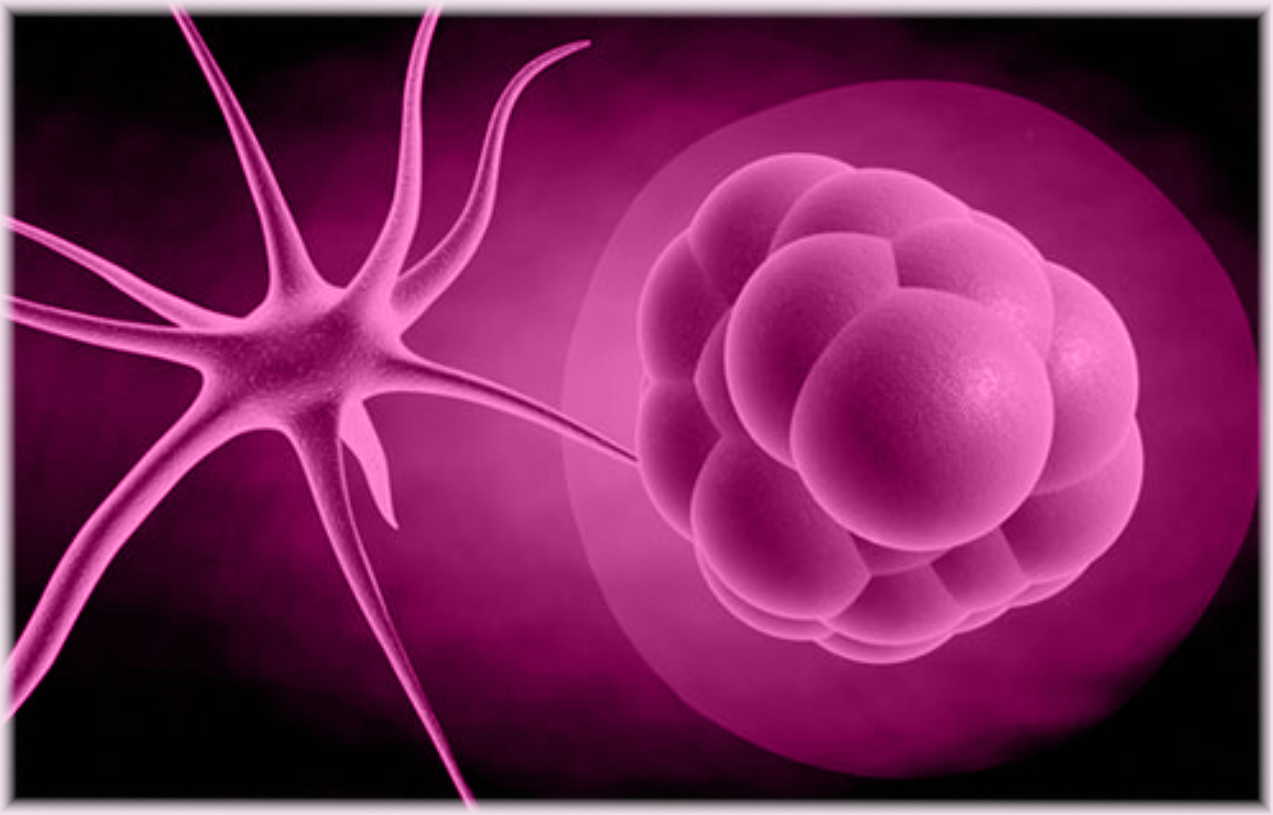
Track 7: Nano-Therapy
Track 8: Bioengineering Therapeutics
Track 9: Clinical Trials and Research in Cell & Gene Therapies
Track 10: Regulatory & Ethical Issues of Therapies

Session Chair: Vikas Leelavati Balasaheb Jadhav, Dolphin Family, India
Session Co-Chair: Brent L. Atkinson, Atkinson Biologics Consulting, USA

Session Introduction

09:30-09:50 **Nano methods to target cancer cells by using ultrasound targeted nano-emulsions contrast**
Vikas Leelavati Balasaheb Jadhav, Dolphin Family, India

09:50-10:10	**Cell content and viability assessments for human cell therapy products: Towards effective development of suitable assays and controls** **Brent L. Atkinson,** Atkinson Biologics Consulting, USA
10:10-10:30	**Novel therapeutic nanoparticles for *in vivo* delivery of low dose siRNA in liver cells and for the treatment of liver fibrosis associated non-alcoholic steatohepatitis** **Xavier de Mollerat du Jeu,** Life technologies, USA
	Coffee Break 10:30-10:45 @ Ballroom Foyer
10:45-11:05	**Treatment of PTEN-positive tumors with small interfering RNA targeting the mammalian target of rapamycin** **Tomohiro Asai,** University of Shizuoka, Japan
11:05-11:25	**A phase one, open label, single arm study to demonstrate the safety of the Antria cell preparation process during facial fat grafting assisted with autologous, adipose-derived stromal vascular fraction (SVF)** **Shah Rahimian,** Antria Inc., USA
11:25-11:45	**"Multi cellular micro machines" derived from a newly discovered human adult stem cell: A new paradigm in tissue reconstruction?** **Abdulkader Rahmo,** National Commission for Biotechnology, Syria
11:45-12:05	**Ethos, ethics, bioethics and stem cells. Is everything allowed?** **Vassilis Katsares,** Embryolab S.A., Greece
	Lunch Break 12:05-12:50 @ Lower Atrium
12:50-13:10	**The challenges and possible solutions for transferring cell therapy from the bench to the industry, quality, cost and manufacturing efficiency** **Ohad Karnieli,** Pluristem Therapeutics Inc., Israel
13:10-13:30	**Preclinical studies of a new genetic prodrug activation system** **Michael J. Powell,** Diacarta Inc., USA
13:30-13:50	**Plant expression platforms for human therapeutic proteins: A new era for biopharmaceuticals** **Kathleen L. Hefferon,** University of Toronto, Canada
	Award Ceremony



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OMICS Group Conferences
Accelerating Scientific Discovery

3rd International Conference and Exhibition on

Cell & Gene Therapy

October 27-29, 2014 Las Vegas, USA

OMICS Group Inc.
2360 Corporate Circle, Suite 400
Henderson, NV 89074-7722, USA
Ph: +1-888-843-8169
Fax: +1-650-618-1417
omicsonline@omicsonline.com

OMICS Publishing Group
5716 Corsa Ave., Suite 110, Westlake
Los Angeles, CA 91362-7354, USA
Ph: +1-650-268-9744
Fax: +1-650-618-1414
omicsonline@omicsonline.org

OMICS Group
SEZ Unit, Building No. 20, 9th Floor
APIIC Layout, HITEC City
Hyderabad-500081, AP, INDIA
Ph: 040-40131823, 040-47482222
omicsgroup@omicsgroup.org

Toll free
USA & Canada: 1-800-216-6499
Australia: 1-800-651-097
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