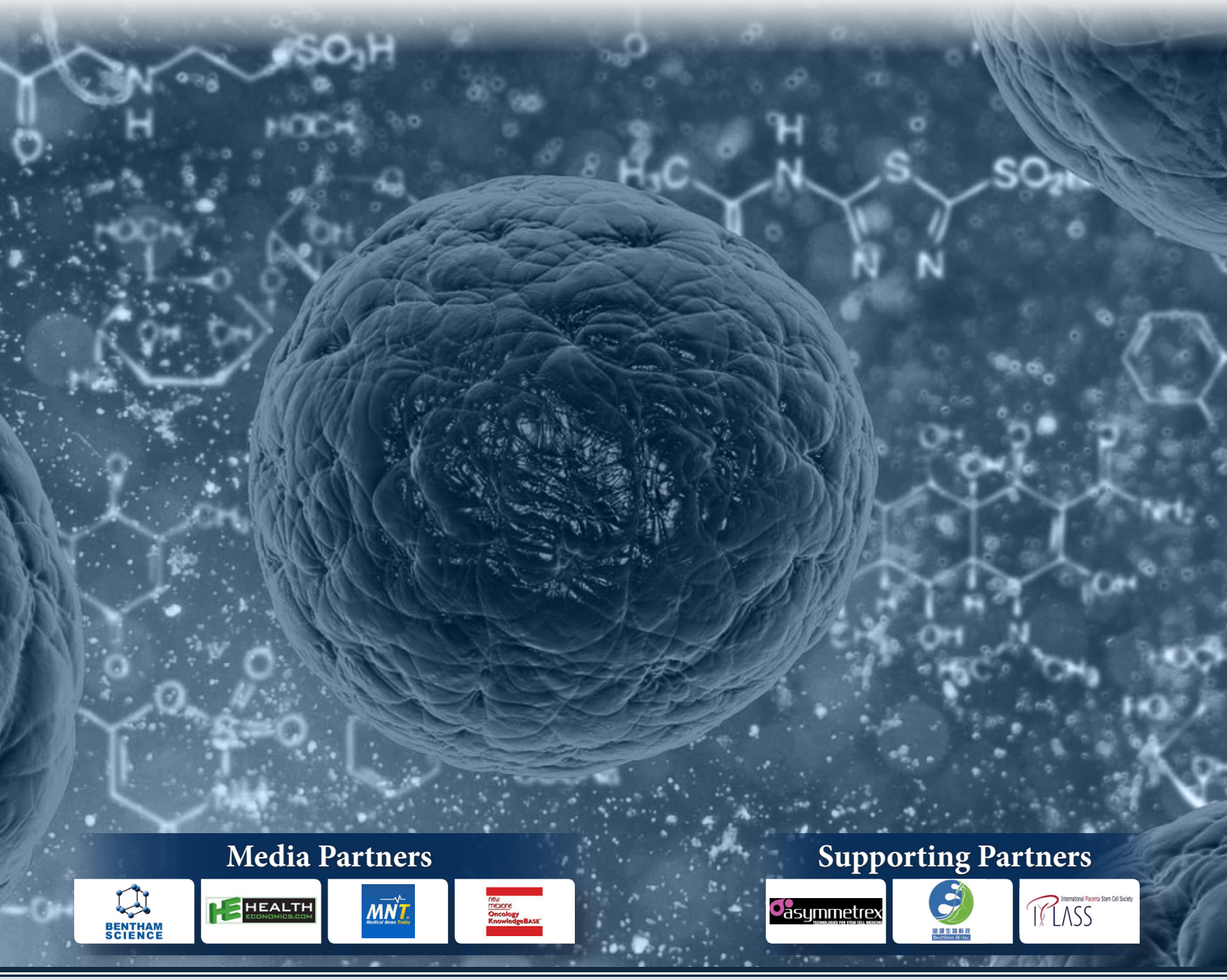
Scientific Program

OMICS International
conferenceseries.com

5th World Congress on
Cell & Stem Cell Research

March 23-25, 2015 Chicago, Illinois, USA



Media Partners

BENTHAM SCIENCE | HEALTH ECONOMICS.COM | MNT Medical News Today | New Medicine Oncology KnowledgeBase

Supporting Partners

asymmetrex | 遺傳生醫科技 Revistion Bio Inc | International Placenta Stem Cell Society IPLASS

Organize your Events at OMICS International Conferences

Proposals are invited for organizing Symposia/Workshops at OMICS International 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 International 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: *stemcell@omicsgroup.com, stemcell@conferenceseries.net*

Day 1 March 23, 2015

08:00-08:30 Registrations

Vienna Room

OMICS International conferenceseries.com 08:30-08:55

Opening Ceremony

Keynote Forum

08:55-09:00 **Introduction**

09:00-09:25 **Current driving factors in stem cell-based regenerative medicine**
James L. Sherley, Asymmetrex LLC, USA

09:25-09:50 **Apoptosis as an effective means of inducing tolerance to pancreatic islets for the treatment of type 1 diabetes**
Haval Shirwan, University of Louisville, USA

Workshop

09:50-10:15 **Post-traumatic osteoarthritis: clinical reality and experimental approaches**
Susan Chubinskaya, Rush Medical College, USA

10:15-10:35 **Athletes, Sports Medicine and Stem Cells: Regenerative Applications**
Dennis M. Lox, Director Sports and Regenerative Medicine Centers, USA

Symposium on Stem Cell Medical Engineering

10:35-10:55 **Asymmetric Self-Renewal: The fundamental property of tissue stem cells is the fundamental principle for their medical engineering**
James L. Sherley, Asymmetrex LLC, USA

Group Photo

Coffee Break 10:55-11:10 @ Vienna Foyer

Track 3: Stem-cell transplantation
Track 7: Cell Mechanics
Track 8: Cell based Therapies of Blood Diseases

Session Chair: James L. Sherley, Asymmetrex LLC, USA

Session Chair: Ornella Parolini, International Placenta Stem Cell Society (IPLASS), Italy

Session Introduction

11:10-11:30 **ProtEx™ technology as an effective means of engineering bone marrow cells with immunoregulatory molecules for the establishment of mixed hematopoietic chimerism**
Haval Shirwan, University of Louisville, USA

11:30-11:50 **Regulation of miR-34a-SIRT1 axis reduced breast cancer stemness**
Gary Guishan Xiao, Dalian University of Technology, China

11:50-12:10 **Pluripotent stem cell-based therapy for Parkinson's disease**
Xianmin Zeng, XCell Science Inc, USA

12:10-12:30 **Intrinsic role of p53 in the differentiation of neural stem cells**
Margarita Glazova, Russian Academy of Sciences, Russia

12:30-12:50 **Fusion peptide P15-CSP coatings suppress biofilm formation and advance mesenchymal stem cell osteogenic differentiation on hydrophilic but not hydrophobic surfaces**
Caroline Hoemann, Ecole Polytechnique, Canada

12:50-13:10 **Neuron point-of-care stem cell therapy (N-POCST): Transplantation of autologous bone marrow-derived stem cells for traumatic central nervous system disorders, the future of a new method**
Francisco Ruiz-Navarro, Austrian Society for Regenerative Medicine, Austria

Lunch Break 13:10-13:55 @ Athens Foyer

13:55-14:15 **Uncomplicated way to induce pancreatic beta cell formation in vivo through "Cellular Networking, Integration and Processing (CNIP)**
Bruno Doiron, University of Texas Health Science Center, USA

14:15-14:35 **The impact of superoxide-peroxide hydrogen imbalance on cellular dysfunction, senescence and on regenerative therapies**
Ivana Beatrice Mânica da Cruz, Universidade Federal de Santa Maria, Brazil

14:35-14:55 **TNF modulation of cancer stem cells in renal clear cell carcinoma**
Rafia S. Al-Lamki, University of Cambridge, United Kingdom

14:55-15:15 **Mobilization and differentiation of multipotent Nestin+ stem cells during arterial remodeling**
Mei Wan, Johns Hopkins University School of Medicine, USA

15:15-15:35 **Increasing the engraftment capacity and function of hematopoietic stem cells after transplantation**
Hanna Dobrowolska, Columbia University Medical Center, USA

15:35-15:55 **The RNA profile of exosomes from MSCs during osteogenic differentiation**
Wendy W. Weston, VIVEX Biomedical, USA

Coffee Break 15:55-16:10 @ Vienna Foyer

16:10-16:30 **The histone tail domains are critical in cell proliferation**
Christophe Thiriet, Université de Nantes, France

16:30-16:50 **Delineating stem cells and cell hierarchy in the bovine mammary gland**
Itamar Barash, Agricultural Research Organization, Israel

16:50-17:10 **Synthetic mRNAs as optimised tools for stem cell generation and for manipulating cellular phenotypes**
Guido Krupp, AmpTec GmbH, Germany

17:10-17:30 **Extracellular matrix-assisted cell viability**
Christopher A Bradley, Lattice Biologics, Inc., USA

17:30-17:50 **CREG1 interacts with Sec8 to promote cardiomyocyte differentiation of embryonic stem cells**
Shaohua Li, Rutgers-the State University of New Jersey, USA

17:50-18:10 **The potential differentiation of hypoxic niche bone marrow derived autologus mesenchymal stem cells for retinal disorder treatment**
Purwati Armand, Airlangga University, Indonesia

18:10-18:30 **Platelet Activity: The assessment profi le in patients with sicle-cell hemoglobinopathy and the antiplatelet potential of synthetic compounds**
Reinaldo Geraldo, Federal University of Juiz de Fora, Brazil

18:30-19-30 Cocktails sponsored by **Journal of Cell Science & Therapy @ Athens Foyer**

Day 2 March 24, 2015

Vienna Room

Keynote Forum

08:30-08:55 **Anti-Apoptotic Actions of Thyroid Hormone in Cancer Cells may limit Effectiveness of Chemotherapy**
Paul J. Davis, Albany Medical College, USA

08:55-09:20 **DNA damage in lymphocytes from healthy individuals and respiratory disease patients, treated ex vivo/in vitro with aspirin and ibuprofen nanoparticles compared to their bulk forms**
Diana Anderson, University of Bradford, United Kingdom

Workshop on stem cells in glomerular repair: Present status, challenges, and future expectations

(09:20-11:35) Chair and Moderator **Guillermo A. Herrera,** Louisiana State University Health Sciences Center, USA

09:20-09:45 **Generic glomerular damage viewed through a unique experimental model: Understanding the repair that needs to be accomplished. What we know and what we need to find out**
Guillermo A. Herrera, Louisiana State University Health Sciences Center, USA

09:45-10:10 **The renal parenchymal niches of progenitor cells and glomerular repair**
Paola Romagnanin, University of Florence, Italy

10:10-10:35 **Experimental platforms to address mesangial repair: What has been accomplished**
Jiamin Teng, Louisiana State University, Health Sciences Center Shreveport, USA

Coffee Break 10:35-10:50 @ Vienna Foyer

10:50-11:15 **Induced pluripotent and mesenchymal stem cells: Exogenous participation for glomerular repair**
Elba A. Turbat-Herrera, Louisiana State University Health Sciences Center, USA

Symposium on Immunomodulatory mechanisms underlying the therapeutical effects of amniotic membrane-derived cells

11:15-11:35 **Immunomodulatory mechanisms underlying the therapeutical effects of amniotic membrane-derived cells**
Ornella Parolini, International Placenta Stem Cell Society (IPLASS), Italy

Track 10: Novel Stem Cell Technologies
Track 16: Tumour science, Apoptosis and Cancer

Session Chair: Paul J. Davis, Albany Medical College, USA
Session Co-Chair: Gary Guishan Xiao, Dalian University of Technology, China

Session Introduction

11:35-11:55 **Activity of nanoparticulate tetrac (nanotetrac) on models of glioblastoma**
Paul J. Davis, Albany Medical College, USA

11:55-12:15 **Induced pluripotent stem cells as models of human disease: A promising approach for studying Parkinson's disease**
Stephen Lin, Thermo Fisher Scientific, USA

12:15-12:35 **Regulation of anchorage-independence by splice variants of osteopontin**
Georg F. Weber, University of Cincinnati, USA

12:35-12:55 **GFP reporter based study identify fibroblast-like cells reprogramming and invasion**
Prabhat Kumar Singhal, Massachusetts General Hospital, USA

12:55-13:15 **Optimization of cord blood stem/progenitor cells expansion: Human adipose-tissue derived stromal cells in combination with hypoxia effectively support Ex Vivo multiplication of hematopoietic precursors**
Ludmila B. Buravkova, Institute of Biomedical Problems, Russian Academy of Sciences, Russia

Lunch Break 13:15-14:00 @ Athens Foyer

14:00-14:20 **Targeting key cancer stem cell pathways overcomes chemoresistance to platinum therapy**
Daniela Dinulescu, Harvard Medical School, USA

14:20-14:40 **Energy restriction synergizes doxorubicin activity via targeting breast cancer stem cells**
Hany A. Omar, University of Sharjah, United Arab Emirates

14:40-15:00 **Therapeutic anti-pan HLA-class II monoclonal antibody that directly induces lymphoma cell death via large pore formation.**
Shuji Matsuoka, Juntendo University School of Medicine, Japan

15:00-15:20 **Global expression analysis of cell lines; What can we learn about in vitro growth?**
Anna Asplund, Uppsala University, Sweden

15:20-15:40 **Population and family based association study on TPH1, TPH2 and ITGB3 genes indicate serotonergic system involvement in autism spectrum disorder**
Asem Surindro Singh, National Centre for Biological Sciences, India

Coffee Break 15:40-15:55 @ Vienna Foyer

15:55-16:15 **The intracellular Na+/H+ exchanger NHE7 effects a novel Na+ but not K+-coupled proton-loading mechanism in endocytosis**
Laurent Counillon, Université Nice-Sophia Antipolis, France

16:15-16:35 **Can glass be the answer for in-vitro bone differentiation ?**
Ahmed Taher Elserafy, University of Sharjah, United Arab Emirates

16:35-16:55 **Beta-Catenin Signaling Regulates the Chemotactic Responses of Mesenchymal Stem Cells**
Huanxiang Zhang, Medical College of Soochow University, China

16:55-17:15 **Collagen 1 and Elastin Genes Expression of Mitral Valvular Interstitial Cells in MicroFiber Reinforced Hydrogel**
Maryam Eslami, Harvard Medical School, USA

17:15-17:35 **Development and validation of HPLC method for the determination of 5-fluorouracil as intra oral nanogel for oral cancer treatment**
Shalini Gupta, King George's Medical University, India

18:30-19-30 Cocktails sponsored by **Journal of Cell Science & Therapy @ Athens Foyer**

Barcelona Room

Track 1: Stem Cell & Gene Therapy
Track 4: Current Research

Session Chair: Haval Shirwan, University of Louisville, USA
Session Co-Chair: George G. Chen, The Chinese University of Hong Kong, China

Session Introduction

11:35-11:55 **Chemo-residual triple-negative breast tumor cells exhibit increased metastatic potential**
Robin E. Bachelder, Duke University Medical Center, USA

11:55-12:15 **Bone marrow cells influences for function of rat decidua**
Viacheslav Mikhailov, Russian Academy of Sciences, Russia

12:15-12:35 **Kinetic characterization of malate dehydrogenase in normal and malignant human breast tissues**
Mahshid B. Ansari, Shahid Chamran University, Iran

12:35-12:55 **Harnessing novel biomarkers of human embryonic stem cells for cancer diagnosis and therapy**
John Yu, Chang Gung Memorial Hospital, Taiwan

12:55-13:15 **Thromboxane in smoking-induced lung carcinogenesis – potential new pathways for intervention**
George G. Chen, The Chinese University of Hong Kong, China

Lunch Break 13:15-14:00 @ Athens Foyer

14:00-14:20 **Better Manufacturing Practice for Cell Therapies**
Kevin Murray, BioSpherix, Ltd, USA

14:20-14:40 **Platelet cell based therapy: an excellent wound healing medicine**
Shivdas G. Nanaware, D. Y. Patil University, India

14:40-15:00 **Stem cell therapy in cases of retinitis pigmentosa**
Abdelhakim Mohamed Safwat, Al-AZHAR University, Egypt

15:00-15:20 **Activated leukocytes alter allogeneic multipotent mesenchymal stromal cell functions**
Elena R. Andreeva, Institute of Biomedical Problems, Russian Academy of Sciences, Russia

15:20-15:40 **Autologus stem cell applications in refractory leg ulcers**
Sribatsa Kumar Mohapatra, Veer Surendra Sai Institute of Medical Sciences and Education, India

Coffee Break 15:40-15:55 @ Barcelona Foyer

Young Research Forum

15:55-16:10 **Novel role for CXCR2 in human pluripotent stem cells**
Ji-Hye Jung, Korea University, Korea

16:10-16:25 **Hydroxybenzoic acid isomers and the cardiovascular system**
Basmah MH. AlTinawi, Alfaisal University, Saudi Arabia

16:25-16:40 **Multiethnic triple negative breast cancer comparisons of gene expression shows enrichment of distinct pathways in ALDH1+ compared to CD44+/CD24-/EpCAM+ cancer stem cell populations**
Evelyn M. Jiagge, University of Michigan Health System, USA

16:40-16:55 **Adipose mesenchymal stem cells and peripheral blood endothelial colony forming cells for tissue engineering**
Daniel Markeson, University College London, United Kingdom

16:55-17:10 **B-aggressive lymphoma proteins BALs and IFNγ /STAT signaling pathway: New drug targets in highly chemo-resistant tumors**
Rosalba Camicia, University of Zurich, Switzerland

17:10-17:25 **Modeling renal progenitor development using the zebrafish kidney**
Gary F Gerlach, University of Notre Dame, USA

17:25-17:40 **Human adipose-derived stem cells obtained from lipoaspirates are highly cytogenotoxic susceptible to hydrogen peroxide**
Alencar Kolinski Machado, Federal University of Santa Maria, Brazil

17:40-17-55 **On the interpretation of the recent Nobel Prize discovery of the "internal GPS" in the brain and its possible implications for medical treatment**
Chen Shen, George Washington University, USA

18:30-19-30 Cocktails sponsored by **Journal of Cell Science & Therapy @ Athens Foyer**

Day 3 March 25, 2015

Vienna Room

Keynote Forum

08:30-08:55 **In regenerative medicine does stem cell differentiation really matter?**
Ornella Parolini, International Placenta Stem Cell Society (IPLASS), Italy

08:55-09:20 Workshop on Synthesis of scaffold for heart valve based on molecular patterns and study of its effects (Mechanically Biologically Collagen 1 and Elastin Genes Expression) on Valvular Interstitial Cells
Organizer: Maryam Eslami, Harvard Medical School, USA

Track 2: Drugs and clinical Developments
Track 14: Signalling in Development
Track 17: Genetics, Bioinformatics and Computational Biology

Session Chair: Diana Anderson, University of Bradford, United Kingdom

Session Introduction

09:20-09:40	**Statistical computing and mathematical modeling for understanding of biological functions using big data** **Kazuo Ishii,** Tokyo University of Agriculture and Technology, Japan
09:40-10:00	**Upstream expansion solutions for stem cells** **Julie R. Murrell,** EMD Millipore, USA
10:00-10:20	**Proximity ligation assays, A method for ultra sensitive protein detection** **Stephen Lin,** Thermo Fisher Scientific, USA
10:20-10:40	**Evidence based theory for an integrated genome regulation in ontogeny and its potential therapeutic targeting** **Michal K. Stachowiak,** State University of New York, USA
	Coffee Break 10:40-10:55 @ Vienna Foyer
10:55-11:15	**BP1, a potential oncogene overexpressed in cancer** **Patricia Berg,** George Washington University Medical Center, USA
11:15-11:35	**β-Human chorionic gonadotrophin (β-HCG total) as a tumor marker in pregnancy** **Manuela Stoicescu,** Oradea University, Romania
11:35-11:55	**Relevance and scope of SMS derived multicellular micro machines (M3) in native tissue reconstruction** **Abdulkader Rahmo,** New Cell Sciences, California, USA
11:55-12:15	**Endothelial cells-derived-iPS: A tool for studying endothelial cell specific gene regulation.** **Nadia Jahroudi,** University of Alberta, Canada
12:15-12:35	**Does hUCB derived Lin-ve stem cells rescue amyloid-β peptide induced mouse model of memory loss** **Akshay Anand,** Post Graduate Institute of Medical Education and Research, India
12:35-12:55	**New Intercellular Surgical Closure System** **Leigh J. Mack,** CIMTESES Foundation, USA
12:55-13:15	**A novel metabolite from an extremophile streptomyces with apoptosis regulator function** **Nasrin Moazami,** Iranian Research Organization for Science and Technology, Iran
	Lunch Break 13:15-14:00 @ Athens Foyer
	Award Ceremony
	Closing Ceremony

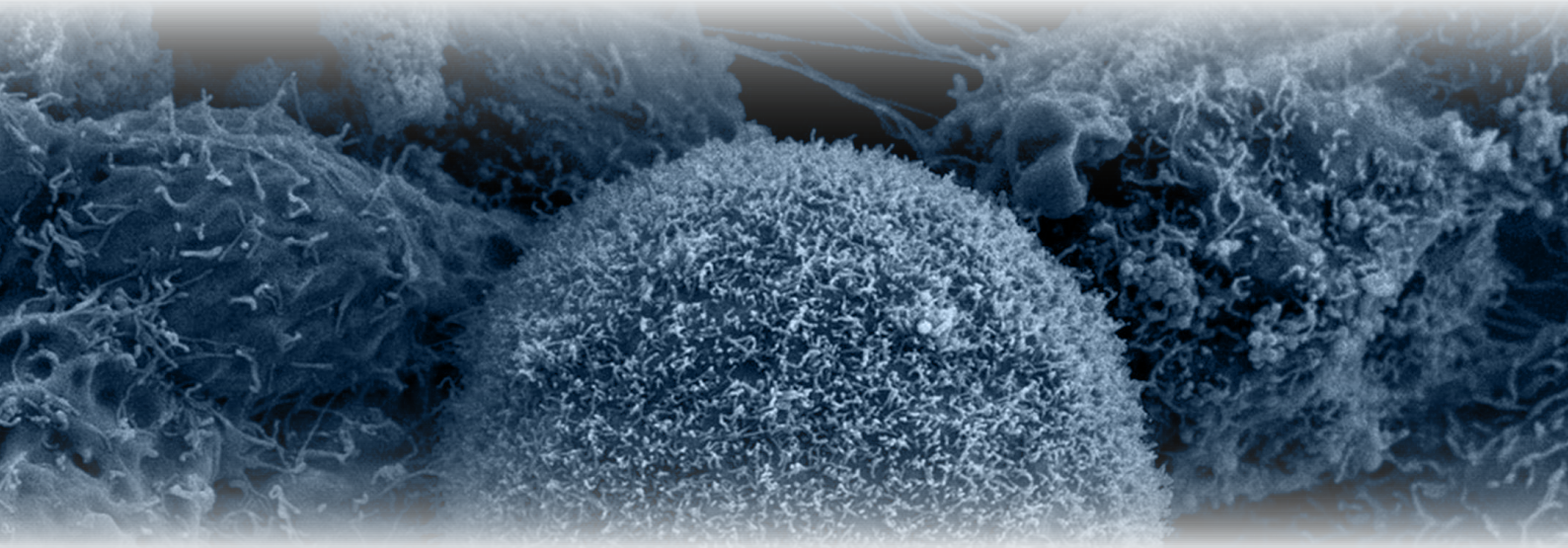
Bookmark your dates

OMICS International
conferenceseries.com

6th World Congress on

Cell & Stem Cell Research

April 12-14, 2016 San Francisco, USA



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

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

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

Toll free
USA & Canada: +1-800-216-6499
Australia: +1-800-651-097
Europe: 0805-080048