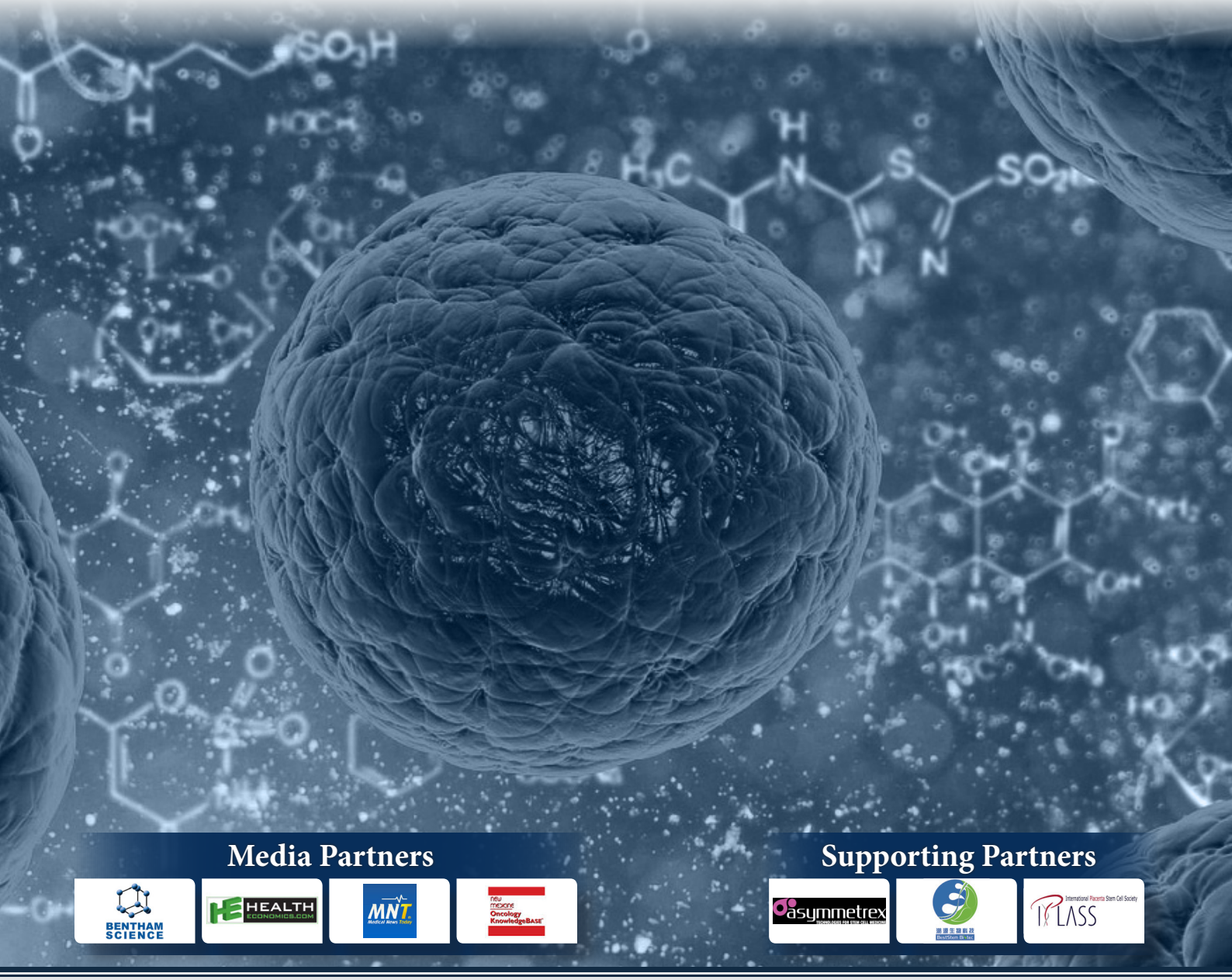
conferenceseries.com

Scientific Program

5th World Congress on

Cell & Stem Cell Research

March 23-25, 2015 Chicago, Illinois, USA



Media Partners

Supporting Partners

Organize your Events at Conference Series LLC

Proposals are invited for organizing Symposia/Workshops at OMICS International Conferences or Conference Series LLC 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*

Conference Series LLC

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

conferenceseries.com

08:30-08:55 **Opening Ceremony**

Keynote Forum

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

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

09:25-09:50 **Title: 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 **Title: Post-traumatic osteoarthritis: clinical reality and experimental approaches**
Susan Chubinskaya, Rush Medical College, USA

10:15-10:35 **Title: 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 **Title: 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 **Title: 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 **Title: Regulation of miR-34a-SIRT1 axis reduced breast cancer stemness**
Gary Guishan Xiao, Dalian University of Technology, China

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

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

12:30-12:50 **Title: 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 **Title: 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 **Title: 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 **Title: 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	**Title: TNF modulation of cancer stem cells in renal clear cell carcinoma** **Rafia S. Al-Lamki,** University of Cambridge, United Kingdom
14:55-15:15	**Title: Mobilization and differentiation of multipotent Nestin+ stem cells during arterial remodeling** **Mei Wan,** Johns Hopkins University School of Medicine, USA
15:15-15:35	**Title: Increasing the engraftment capacity and function of hematopoietic stem cells after transplantation** **Hanna Dobrowolska,** Columbia University Medical Center, USA
15:35-15:55	**Title: 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	**Title: The histone tail domains are critical in cell proliferation** **Christophe Thiriet,** Université de Nantes, France
16:30-16:50	**Title: Delineating stem cells and cell hierarchy in the bovine mammary gland** **Itamar Barash,** Agricultural Research Organization, Israel
16:50-17:10	**Title: Synthetic mRNAs as optimised tools for stem cell generation and for manipulating cellular phenotypes** **Guido Krupp,** AmpTec GmbH, Germany
17:10-17:30	**Title: Extracellular matrix-assisted cell viability** **Christopher A Bradley,** Lattice Biologics, Inc., USA
17:30-17:50	**Title: 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	**Title: 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	**Title: 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	**Title: 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	**Title: 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	**Title: 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	**Title: The renal parenchymal niches of progenitor cells and glomerular repair** **Paola Romagnanin,** University of Florence, Italy
10:10-10:35	**Title: 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	**Title: 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	**Title: 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	**Title: 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	**Title: Regulation of anchorage-independence by splice variants of osteopontin** **Georg F. Weber,** University of Cincinnati, USA
12:35-12:55	**Title: GFP reporter based study identify fibroblast-like cells reprogramming and invasion** **Prabhat Kumar Singhal,** Massachusetts General Hospital, USA
12:55-13:15	**Title: 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	**Title: Targeting key cancer stem cell pathways overcomes chemoresistance to platinum therapy** **Daniela Dinulescu,** Harvard Medical School, USA
14:20-14:40	**Title: Energy restriction synergizes doxorubicin activity via targeting breast cancer stem cells** **Hany A. Omar,** University of Sharjah, United Arab Emirates
14:40-15:00	**Title: 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	**Title: Global expression analysis of cell lines; What can we learn about in vitro growth?** **Anna Asplund,** Uppsala University, Sweden
15:20-15:40	**Title: 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	**Title: 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	**Title: Can glass be the answer for in-vitro bone differentiation ?** **Ahmed Taher Elserafy,** University of Sharjah, United Arab Emirates
16:35-16:55	**Title: Beta-Catenin Signaling Regulates the Chemotactic Responses of Mesenchymal Stem Cells** **Huanxiang Zhang,** Medical College of Soochow University, China
16:55-17:15	**Title: 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	**Title: 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	**Title: Chemo-residual triple-negative breast tumor cells exhibit increased metastatic potential** **Robin E. Bachelder,** Duke University Medical Center, USA
11:55-12:15	**Title: Bone marrow cells influences for function of rat decidua** **Viacheslav Mikhailov,** Russian Academy of Sciences, Russia
12:15-12:35	**Title: Kinetic characterization of malate dehydrogenase in normal and malignant human breast tissues** **Mahshid B. Ansari,** Shahid Chamran University, Iran

12:35-12:55	**Title: Harnessing novel biomarkers of human embryonic stem cells for cancer diagnosis and therapy** **John Yu**, Chang Gung Memorial Hospital, Taiwan
12:55-13:15	**Title: 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	**Title: Better Manufacturing Practice for Cell Therapies** **Kevin Murray**, BioSpherix, Ltd, USA
14:20-14:40	**Title: Platelet cell based therapy: an excellent wound healing medicine** **Shivdas G. Nanaware**, D. Y. Patil University, India
14:40-15:00	**Title: Stem cell therapy in cases of retinitis pigmentosa** **Abdelhakim Mohamed Safwat**, Al-AZHAR University, Egypt
15:00-15:20	**Title: 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	**Title: 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	**Title: Novel role for CXCR2 in human pluripotent stem cells** **Ji-Hye Jung**, Korea University, Korea
16:10-16:25	**Title: Hydroxybenzoic acid isomers and the cardiovascular system** **Basmah MH. AlTinawi**, Alfaisal University, Saudi Arabia
16:25-16:40	**Title: 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	**Title: 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	**Title: 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	**Title: Modeling renal progenitor development using the zebrafish kidney** **Gary F Gerlach**, University of Notre Dame, USA
17:25-17:40	**Title: 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	**Title: 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**

(17:00-18:30) Poster Presentations @ Athens Room Day 2 March 24, 2015

CST01	**Title: Stem cell in form deprivation myopia (FDM) mice** **Ching-Hua Yeh**, Kaohsiung Medical University, Taiwan
CST02	**Title: Genetic influence of oxidative metabolism on lymphocyte telomerase modulation** **Fernanda Barbisan**, Universidade Federal de Santa Maria, Brazil
CST03	**Title: Low temperature preservation of mesenchymal stromal cells seeded in various scaffolds for tissue equivalent development** **Alexander Petrenko**, Institute for Problems of Cryobiology and Cryomedicine, Ukrain
CST04	**Title: Therapeutic Role of Bone Marrow-Derived Mesenchymal Stem Cells in Cyclophosphamide-Induced Cardiotoxicity in Adult Male Albino Rat: Morphological and Immunohistochemical Study** **Walaa Mohamed Sayed**, Cairo University, Egypt
CST05	**Title: Analysis of AR, ERa, ERb and p63 in the epithelium of ventral prostate submitted to intrauterine protein malnutrition** **Jaqueline C Rinaldi**, Univ Estadual Paulista, Brasil

CST06	**Title: Protective efficacy of carnosic acid against hydrogen peroxide (H_2O_2)-induced oxidative injury in $HepG_2$ cells through SIRT1 pathway** **Jihong Yao,** Dalian Medical University, China
CST07	**Title: Alpha-lipoic acid produces bone-protective effects via modulating Nox4/ROS/NF-kB and Wnt/Lrp5/β-catenin signaling pathways in H_2O_2-treated MC3T3-E1 cells and ovariectomy rats** **Hui-Jun Sun,** Dalian Medical University, China
CST08	**Title: Cytotoxic effects of essential oil and different extracts of Pulicaria gnaphalodes Bioss. on a panel of cancer cells** **Mina Mirian,** Isfahan University of Medical Sciences, Isfahan, Iran
CST09	**Title: Analysis of viability of stromal cell from bovine endometrial tissue cryopreserved with different mediums** **Carolina Nogueira de Moraes,** Universidade Estadual Paulista Júlio de Mesquita Filho, Brazil
CST10	**Title: Analysis of colony-forming unit-fibroblast efficiency from stem cells from umbilical cord equine cryopreserved with different mediums** **Leandro Maia,** Universidade Estadual Paulista Júlio de Mesquita Filho, Brazil
CST11	**Title: Efficiency in production equine induced pluripotency cells (ips) using fibroblasts and umbilical cord mesenchymal stem cells** **Midyan Daroz Guastali,** Universidade Estadual Paulista Júlio de Mesquita Filho, Brazil
CST12	**Title: Epoxomicin affects proliferating neural progenitor cells of rat** **Bahaa Eldin Sayed Ahmed Fouda,** Mansoura University, Egypt
CST13	**Title: Modulation of telomerase gene expression of activated peripheral blood mononuclear cells is influenced by Ala16Val-Sod2 gene polymorphism** **Fernanda Barbisan,** Universidade Federal de Santa Maria, Brazil
CST14	**Title: Comparative Stem Cells Therapy for regeneration of liver fibrosis** **Hamdy Mahmoud Rezk,** Cairo University, Egypt
CST15	**Title: The effect on cell isolation from bone marrow using subsequent mechanical agitations** **Miguel Quevedo,** Vivex Biomedical, USA

E-Posters

Title: Mesenchymal stem cell therapy improves the expression and functionality of tubular protein endocytic receptors in diabetic nephropathy

Giraud-Billoud Maximiliano, Clinica Alemana Universidad del Desarrollo, Santiago, Chile

Title: siRNA Mediated Knock Down of AQP1 Weakens E-cadherin Based Intercellular Adhesion

Darwesh MK Aladin, National University of Singapore, Singapore

Title: Chitosan-collagen scaffolds can regulate the biological activities of adipose mesenchymal stem cells for tissue engineering

Idiberto José Zotarelli Filho, Stanford University School of Medicine, USA

Title: Association of Electro Acupuncture and Dental Pulp Stem Cells from Deciduous Teeth on Severe Chronic Spinal Cord Injury in Dogs: Preliminary Results

César Vinícius Gil Braz do Prado, University of São Paulo, Brazil

Title: MSCs enhance the microtubule network and trafficking in a parkinsonian model

Se Hee Oh, Yonsei University School of Medicine, Korea

Title: Effectiveness of cannabinoids and endocannabinoids on cancer treatment

Panagiotis Zogopoulos, General Hospital of Nikaia-Piraeus "Agios Panteleimon", Greece

Title: Utility of autologus bone marrow stem cells for treatment of chronic leg ulcer

Said M.H.Abdou, Tanta university hospitals, Egypt

Day 3 March 25, 2015

Vienna Room

Keynote Forum

08:30-08:55

Title: 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	**Title: 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	**Title: Upstream expansion solutions for stem cells** **Julie R. Murrell,** EMD Millipore, USA
10:00-10:20	**Title: 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	**Title: BP1, a potential oncogene overexpressed in cancer** **Patricia Berg,** George Washington University Medical Center, USA
11:15-11:35	**Title: β-Human chorionic gonadotrophin (β-HCG total) as a tumor marker in pregnancy** **Manuela Stoicescu,** Oradea University, Romania
11:35-11:55	**Title: 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	**Title: Endothelial cells-derived-iPS: A tool for studying endothelial cell specific gene regulation.** **Nadia Jahroudi,** University of Alberta, Canada
12:15-12:35	**Title: 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	**Title: New Intercellular Surgical Closure System** **Leigh J. Mack,** CIMTESES Foundation, USA
12:55-13:15	**Title: 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