Day 1  March 23, 2015

Vienna Room

08:00-08:30  Registrations

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

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 Mônica 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

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### 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 profile in patients with sickle-cell hemoglobinopathy and the antiplatelet potential of synthetic compounds  
**Reinaldo Geraldo,** Federal University of Juiz de Fora, Brazil

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### 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Chair or Moderator</th>
<th>Location</th>
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<tbody>
<tr>
<td>09:20-09:45</td>
<td>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</td>
<td><strong>Guillermo A. Herrera,</strong> Louisiana State University Health Sciences Center, USA</td>
<td>Louisiana State University Health Sciences Center, USA</td>
</tr>
<tr>
<td>09:45-10:10</td>
<td>The renal parenchymal niches of progenitor cells and glomerular repair</td>
<td><strong>Paola Romagnanin,</strong> University of Florence, Italy</td>
<td>Louisiana State University Health Sciences Center Shreveport, USA</td>
</tr>
<tr>
<td>10:10-10:35</td>
<td>Experimental platforms to address mesangial repair: What has been accomplished</td>
<td><strong>Jiamin Teng,</strong> Louisiana State University, Health Sciences Center Shreveport, USA</td>
<td>Louisiana State University Health Sciences Center Shreveport, USA</td>
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### Coffee Break 10:35-10:50 @ Vienna Foyer

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### 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

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<tr>
<td>11:15-11:35</td>
<td>Immunomodulatory mechanisms underlying the therapeutic effects of amniotic membrane-derived cells</td>
<td><strong>Ornella Parolini,</strong> International Placenta Stem Cell Society (IPLASS), Italy</td>
<td>Louisiana State University Health Sciences Center Shreveport, USA</td>
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</table>
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

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

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 Mikhaiлов, 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

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

14:20-14:40  Title: Platelet 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

14:40-15:00  Title: Activated leukocytes alter allogeneic multipotent mesenchymal stromal cell functions  
Elena R. Andreeva, Institute of Biomedical Problems, Russian Academy of Sciences, Russia

14:55-15:15  Title: Autologus stem cell applications in refractory leg ulcers  
Sribatsa Kumar Mohapatra, Veer Surendra Sai Institute of Medical Sciences and Education, India

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-agonistic lymphoma proteins BALs and IFNγ/STAT signaling pathway: New drug targets in highly chemoresistant tumors  
Rosalba Camici, 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  (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 stem cells seeded in various scaffolds for tissue equivalent development  
Alexander Petrenko, Institute for Problems of Cryobiology and Cryomedicine, Ukraine

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, ERα, ERβ 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 HepG2 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: Efﬁcacy 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

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E-Posters

Title: Mesenchymal stem cell therapy improves the expression and functionality of tubular protein endocytic receptors in diabetic nephropathy
Giraud-Billoud Maximiliano, Clínica 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 Vinicius 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 autologous bone marrow stem cells for treatment of chronic leg ulcer
Said M.H. Abdou, Tanta University Hospitals, Egypt

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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
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  Title: 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