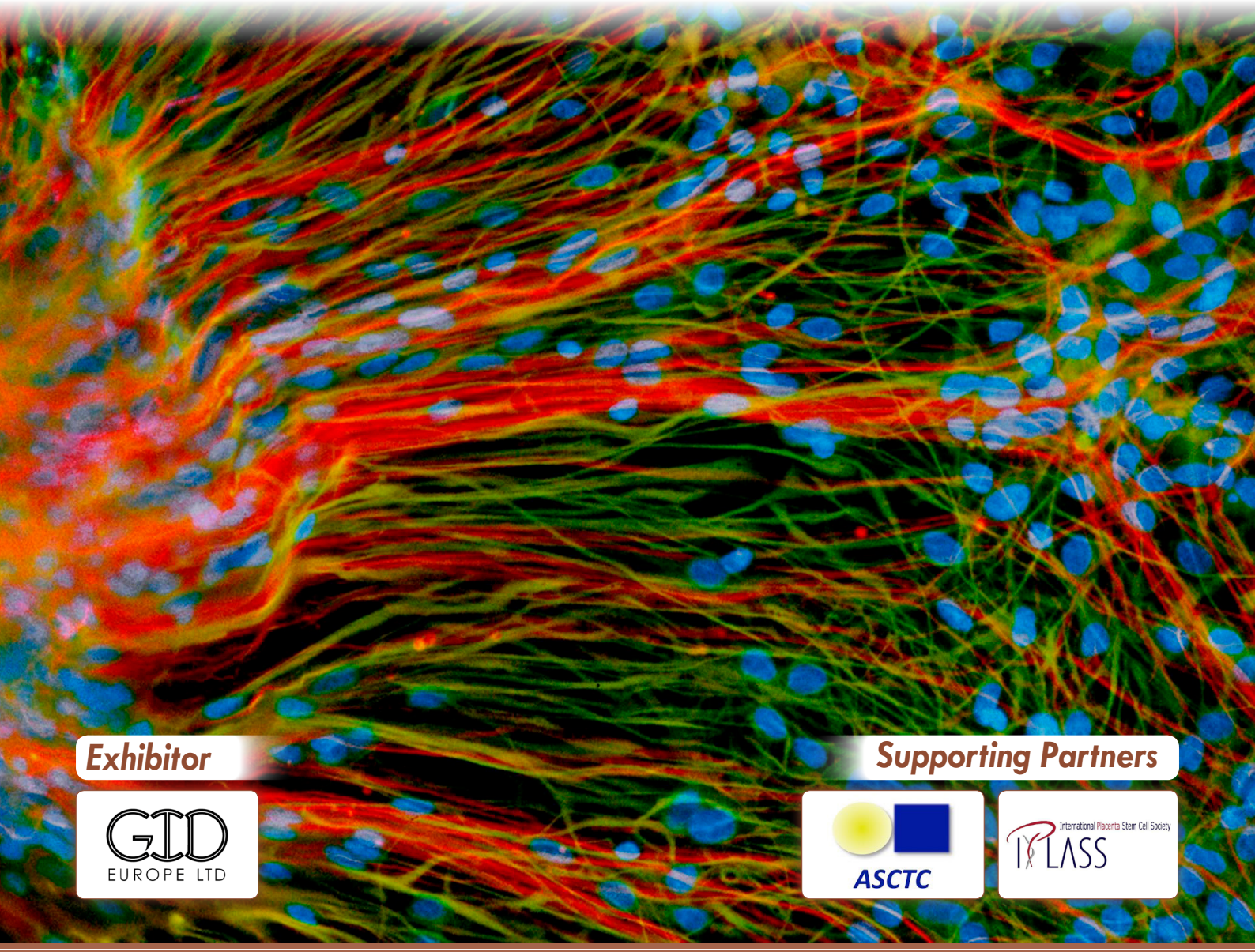
Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

4th World Congress on
Cell Science & Stem Cell Research

June 24-26, 2014 Valencia Conference Centre, Valencia, Spain



Exhibitor

GID EUROPE LTD

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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*

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Day 1 June 24, 2014

08:00-08:30 Registrations

Auditorium 3A

OMICS Group Conferences
Accelerating Scientific Discovery

08:30-09:00

Opening Ceremony

Keynote Forum

09:00-09:10 **Introduction**

09:10-09:35 **Sudhakar Yakkanti**
SRI International, USA

09:35-10:00 **James L Sherley**
The Adult Stem Cell Technology Center, LLC, USA

Coffee Break 10:00-10:15 @ Multipurpose Hall-1

Track 1: Stem Cell And Cancer Cell Therapy
Track 2: Stem Cell Transplantation
Track 3: Tumour Science
Track 4: Diseases and Stem Cell Treatment

Session Chair: Samir Farghaly, The Joan and Sanford I. Weill Medical College, USA
Session Chair: Ornella Parolini, IPLASS, Italy

Session Introduction

10:15-10:35 **Use of the stem cell mobilizer SE2® as part of conventional treatment on ankle injuries to expedite recovery in professional soccer players**
Miguel G. Garber, Clinica Quirurgica Quantum, Spain

10:35-10:55 **Deregulation of c-myc and GNL3 in tumorspheres from *in vitro* transformed cell lines**
Chiara Mondello, Institute of Molecular Genetics, Italy

10:55-11:15 **Stem cell therapy for the treatment of severe tissue damage after radiation exposure**
Chapel Alain, IRSN, France

11:15-11:35 **Pot1 regulates the self-renewal activity of hematopoietic stem cells**
Fumio Arai, Keio University, Japan

11:35-11:55 **A preclinical overview on gold (III) compounds in the forefront of the targeted anticancer therapy**
Chiara Nardon, University of Padova, Italy

11:55-12:15 **Cell-based therapy for hypoxic-ischemic injury in the preterm brain**
Boris W. Kramer, Maastricht University Medical Center, The Netherlands

12:15-12:35 **Bone marrow-derived autologous mesenchymal stem cells for therapy of type 2 diabetes mellitus patients tertiary failure**
Purwati Armand, Airlangga University, Indonesia

12:35-12:55 **Cerebral cordocytes: from anti-microtumor growth role of fibrous capsules to histogenesis of fibrous meningiomas named cordocytomas for modern understanding and classification**
Viorel Pais, The National Institute of Neurology and Neurovascular Diseases, Romania

Group Photo

Lunch Break 12:55-13:40 @ Multipurpose Hall-2

13:40-14:00 **Genotoxicity of Gemcitabine low dose in white rat bone marrow cells**
Abdul Rahman A.I. Alyahya, Shaqra University, Kingdom of Saudi Arabia

14:00-14:20 **Epithelial to Mesenchymal Transition (EMT), as a targeted therapy for Multi Drug Resistance in epithelial ovarian cancer**
Samir A. Farghaly, The Joan and Sanford I. Weill Medical College, USA

14:20-14:40 **Human fetal Liver progenitor cell transplantation: A potential bridging therapy to liver transplantation in patients with end-stage liver disease**
Giada Pietrosi, ISMETT - University of Pittsburgh Medical Center, Italy

14:40-15:00 **Thyroid hormones and cancer: clinical studies of hypothyroidism in oncology**
Osnat Ashur-Fabian, Tel Aviv University, Israel

Coffee Break 15:00-15:15 @ Multipurpose Hall-1

15:15-15:35 **Intracavernous administration of adipose stem cells: A new technique of treating erectile dysfunction? Preliminary report of 6 case**
Miguel Garber, Clinica Quantum, Argentina

15:35-15:55 **The extracellular matrix in stem cell commitment: Biphasic role of chondroitin sulfate in cardiac differentiation of Embryonic Stem Cells through Inhibition of Wnt/beta-catenin Signaling**
Michael Kluppel, Feinberg School of Medicine, USA

15:55-16:15 **Intermittent hypoxia and stem cells: From mechanisms to clinical application**
Tatiana V. Serebrovskaya, Bogomoletz Institute of Physiology, Ukraine

16:15-16:35 **Human mesenchymal stem cells isolated from entire umbilical cord and Wharton's jelly matrix using explants culture method display similar characteristics**
Hojjat Sadeghi-Aliabadi, Isfahan University of Medical Sciences, Iran

Symposium on ***Fetal-derived stem cells characteristics and application***

Session Chair: **Ornella Parolini,** IPLASS, Italy

16:35-16:55 **Fetal-derived stem cells: Characteristics and applications**
Ornella Parolini, IPLASS, Italy

16:55-17:15 **Human amnion epithelial stem cell therapy to correct acute Liver failure and metabolic liver diseases**
Roberto Gramignoli, Karolinska University Hospital, Sweden

17:15-17:35 **Human amniotic fluid stem cells from third trimester cultured under hypoxia and endothelial differentiation: *in vitro* and *in vivo* study**
Michela Pozzobon, Fondazione Istituto di Ricerca Pediatrica Città della Speranza, Italy

17:35-17:55 **Embryonic stem cells preserve pluripotency when injected in a foetal niche**
Enrica Bertin, University of Padova, Padova, Italy

Day 2 June 25, 2014

Committee Room 6 & 7

Keynote Forum

09:30-09:55 **Christian Drapeau,** Stemtech International, Inc., USA

Symposium on ***Stem cell DNA Segregeration and Genetic Fidelity***

Session Chair: **James L Sherley,** The Adult Stem Cell Technology Center, LLC, USA

09:55-10:15 **An actively cycling hematopoietic stem cell population is selectively lost with conventional purification strategies**
Laura R Goldberg, Brown University, USA

10:15-10:35 **Sister chromatid differentiation/selective segregation mechanism supported for vertebrate body laterality development**
Amar J. S. Klar, National Cancer Institute, Frederick, USA

Coffee Break 10:35-10:50 @ Multipurpose Hall-1

10:50-11:10 **Human somatic mutations originate in mutator/hypermutable metakaryotic stem cells during the fetal/juvenile period**
Elena Gostjeva, Massachusetts Institute of Technology, USA

11:10-11:30 **Functional screens in stem cells reveal key determinants of stem cell fates**
Jean Lu, Genomics Research Center, Taiwan

11:30-11:50 **Probing the biological significance of non-random sister chromatid segregation in distributed stem cells**
James L Sherley, The Adult Stem Cell Technology Center, LLC, USA

Track 9: Apoptosis and Disease
Track 10: Cell Science and Development
Track 11: Plant and Cell Physiology
Track 12: Informatics and Technology
Track 13: Strem Cell Medicine: Social & Political Challenges

Session Chair:
Diana Anderson, University of Bradford, UK
Ena Ray Banerjee, University of Calcutta, India

Session Chair: Ena Ray Banerjee, University of Calcutta, India

Session Introduction

11:50-12:10 **Diagnosis traps in a rare hematologic disease original case report**
Manuela Stoicescu, University of Oradea, Romania

12:10-12:30 **Differences between immune response from young and elderly people: Is immunosenescence a deterioration of the immune system?**
Thais Helena Gasparoto, University of São Paulo, Brazil

12:30-12:50 **The differentiation potential of stem cells isolated from deciduous teeth (SHED) and periodontal ligament stem cells (PDLSCs) in the presence of human platelet lysate**
Nizar M. Abuharfeil, Jordan University of Science and Technology, Jordan

Lunch Break 12:50-13:40 @ Multipurpose Hall-2

13:40-14:00 **Simplet is required for nuclear localization of beta-catenin and for progenitor cell proliferation and patterning during zebrafish early embryogenesis and tissue regeneration**
Christopher Antos, Technische Universität Dresden, Germany

14:00-14:20 **Transcription factors promotes cellular reprogramming of human dental pulp progenitor cells into induced pluripotent stem cells and multilineage differentiation potential into Neurogenic, Cardiomyocytes and Chondrocytes**
Kapil Dev, Charles University, Czech Republic

14:20-14:40 **Stabilisation of hepatocyte phenotype using synthetic materials**
Baltasar Lucendo Villarin, University of Edinburgh, UK

14:40-15:00 **MicroRNA MIR146A regulates osteogenic differentiation in human mesenchymal stem cells**
Christopher J Payne, Northwestern University Feinberg School of Medicine, USA

Coffee Break 15:00-15:15 @ Multipurpose Hall-1

15:15-15:35 **Study of patterns of cellular traffic indicative of molecular switches operative in inflammation**
Ena Ray Banerjee, University of Calcutta, India

15:35-15:55 ***In vitro* effects of periodontopathic bacteria on the proliferation, stemness and osteogenic potential of human mesenchymal stem cells**
Ahmed Baligh, National Research Center in Cairo, Egypt

15:55-16:15	**Analysis of HepG2 cells exposed to emergent Fusarium mycotoxins** **Ana Juan-Garcia,** University of Valencia, Spain
16:15-16:35	**Regulation of Osteoblastogenesis: Concerted action of transcription factors (TFs), microRNAs and histone deacetylases (HDACs)** **Jan Oxholm Gordeladze,** University of Oslo, Norway
16:35-16:55	**MicroRNA-520a-5p displays a therapeutic effect upon chronic myelogenous leukemia cells by targeting STAT3 and enhances the anticarcinogenic role of Capsaicin** **Burcin Tezcanlı Kaymaz,** Ege University Medical School, Turkey
16:55-17:15	**Molecular and functional characterization of calvarial stem cells in nonsyndormic craniosynostosis: Role of the primary cilium-related signaling in the abnormal osteogenic niche** **Wanda Lattanzi,** Catholic University of the Sacred Heart, Italy
17:15-17:35	**Translating Adipose Tissue Stromal Vascular Fraction Into Regenerative Medicine Applications: Characterization of an Innovative Non-Enzymatic Closed System for Minimal Tissue Manipulation** **Claudia Cicione,** Università Cattolica del Sacro Cuore, Italy
17:35-17:55	**Dermal Fibroblasts: An Alternative Source for Bone Regeneration** **M Barba,** Università Cattolica del Sacro Cuore, Italy
17:55-18:15	**Zinc oxide nanoparticles-induced molecular perturbations in respiratory disease patients: An *ex vivo*/*in vitro* exposure study** **Diana Anderson,** University of Bradford, UK
17:15-18:15	**Poster Presentations @ Multipurpose Hall-1**

Day 3 June 26, 2014

Committee Room 6 & 7

Special Session

09:30-10:00	Session on **Successful Postdoctoral Fellowship** **Session Chair: James L Sherley,** The Adult Stem Cell Technology Center, LLC, USA

Track 5: Nanotechnology
Track 6: Tissue Engineering
Track 7: Genetic Engineering
Track 8: Cell signaling technology

Session Chair: Elena Gostjeva, Massachusetts Institute of Technology, USA

Session Introduction

10:00-10:20	**The Inflammatory Gene - FAT10, impacts obesity and aging in mammals** **Allon Canaan,** Yale School of Medicine, USA
10:20-10:40	**Hypoxia and Inflammation activate a sequential pathway leading to tumor progression** **Matteo Antonio Russo,** Sapienza University, Italy
10:40-11:00	**Replication stress response defect and cancer stemness** **Shiaw-Yih Lin,** The University of Texas MD Anderson Cancer Center, USA

Coffee Break 11:00-11:15 @ Multipurpose Hall-1

11:15-11:35	**SOX2 positive progenitor cells isolated from mouse digit are associated with digit tip regeneration** **Jianghai Chen,** Huazhong University of Science and Technology, China
11:35-11:55	**Modulation of MAPK-JNK1/2 by Hepatitis E virus ORF3 protein in hepatoma cells** **Mohammad Khalid Parvez,** King Saud University College of Pharmacy, Saudi Arabia
11:55-12:15	**Stem cell therapy for amyotrophic lateral sclerosis follow-up for 84 patients** **Francisco Ruiz-Navarro,** Stem Cell Therapy Group Vienna, Austria
12:15-12:35	**Effects of transplantation of bone marrow mononuclear cells in renal injury induced by unilateral urethral obstruction in balb/c mice** **Husten da Silva Carvalho,** Federal University of Rio de Janeiro, Brazil
12:35-12:55	**Effects of isoflurane post-conditioning on subacute and chronic phase of ischemia-reperfusion heart injury in rats** **Ivan Agnic,** University of Split School of Medicine, Croatia
12:55-13:15	**Stem cells, cancer stem cells: differentiation, division and death** **Elena Gostjeva,** Massachusetts Institute of Technology, USA

Lunch Break 13:15-14:10 @ Multipurpose Hall-2

Award Ceremony

Bookmark your dates

OMICS Group Conferences
Accelerating Scientific Discovery

5th World Congress on
Cell Science & Stem Cell Research
March 23-25, 2015 Hilton Chicago/ Northbrook, Chicago, USA

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