# Tentative Program

**October 02-04, 2017, Barcelona, Spain**

## Program at A Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1</th>
<th>Session 2</th>
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</thead>
<tbody>
<tr>
<td>08.00-09.00</td>
<td><strong>General Session</strong></td>
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<tr>
<td>09.00-09.15</td>
<td>Inaugural Address</td>
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<tr>
<td>09.15-09.45</td>
<td>Keynote/Plenary Talk 1</td>
<td>Keynote/Plenary Talk 2</td>
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<tr>
<td>09.45-10.15</td>
<td>Keynote/Plenary Talk 2</td>
<td>Keynote/Plenary Talk 3</td>
</tr>
<tr>
<td>10.15-10.45</td>
<td>Keynote/Plenary Talk 3</td>
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<tr>
<td><strong>Panel Discussions/Group Photo</strong></td>
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<tr>
<td>11.00-12.40</td>
<td>Regenerative Medicine</td>
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<tr>
<td><strong>Lunch Break 12.40-13.30</strong></td>
<td>Tissue Engineering</td>
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<tr>
<td>13.30-15.30</td>
<td>Tissue Engineering</td>
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<tr>
<td><strong>Coffee/Tea Break 13.30-15.30 (Networking)</strong></td>
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<tr>
<td>15.45-17.25</td>
<td>Workshop</td>
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## Program at B Glance

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<tr>
<th>Time</th>
<th>Session 1</th>
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<tbody>
<tr>
<td>09.00-10.40</td>
<td>Stem Cells</td>
<td>Tissue Repair and Regeneration</td>
</tr>
<tr>
<td>10.00-10.45</td>
<td>Coffee/Tea Break 10.00-10.45 (Networking)</td>
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</tr>
<tr>
<td>10.55-12.35</td>
<td>Stem Cell Treatments</td>
<td>Scaffolds in Regenerative Medicine</td>
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<tr>
<td><strong>Lunch Break 12.35-13.25</strong></td>
<td>Rejuvenation</td>
<td>Bone Tissue Engineering</td>
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<tr>
<td>13.25-15.05</td>
<td>Rejuvenation</td>
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<tr>
<td><strong>Coffee/Tea Break 13.30-15.30 (Networking)</strong></td>
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<tr>
<td>15.20-17.00</td>
<td>Cell and Organ Regeneration</td>
<td>Immunotherapy</td>
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## Program at C Glance

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<tr>
<th>Time</th>
<th>Session 1</th>
<th>Session 2</th>
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<tbody>
<tr>
<td>09.00-10.40</td>
<td>Regenerative Medicine Market</td>
<td>Models of Regeneration</td>
</tr>
<tr>
<td>10.00-10.45</td>
<td>Coffee/Tea Break 10.00-10.45 (Networking)</td>
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<tr>
<td>10.55-12.35</td>
<td>Biomaterials and Bioengineering</td>
<td>Cellular Therapies</td>
</tr>
<tr>
<td><strong>Lunch Break 12.35-13.25</strong></td>
<td>Translational Medicine</td>
<td>Cell Engineering</td>
</tr>
<tr>
<td>13.25-15.05</td>
<td>Translational Medicine</td>
<td></td>
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<tr>
<td><strong>Coffee/Tea Break 13.30-15.30 (Networking)</strong></td>
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<tr>
<td>15.20-17.00</td>
<td>Regenerative Medicine Market</td>
<td>Regenerative Medicine Europe</td>
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**NOTE:** Program Schedule is subject to change with final allotment of the speaker slots.
Glimpses of Regenerative Medicine Conferences
Best Tourist Destinations in Barcelona, Spain

- 7 Great Day Trips from Barcelona
- 10 Best Places to Visit in Spain
- 10 Top Tourist Attractions in Spain

- Barceloneta
- Parc Guëll
- Casa Batiló
- Camp Nou
- Sagrada Familia
- Montjuïc
- Casa Milà
- Font Màgica
- La Rambla
Scientific Program

5th International Conference on
Tissue Engineering & Regenerative Medicine
September 12-14, 2016  Berlin, Germany

Hosting Organization: Conference Series LLC
2360 Corporate Circle., Suite 400 Henderson, NV 89074-7722, USA
Conference Series Ltd
Heathrow Stockley Park Lakeside House, 1 Furzeground Way, Heathrow, UB11 1BD, UK, Tel: +1-800-216-6499
Email: tissuescience@conferenceseries.com; tissuescience@conferenceseries.net
Keynote Forum

Introduction

Title: Hemodynamic activation of vascular cells in cardiac veins induce an equivalent of stimulus triggered acquired pluripotency in human cardiomyocytes
Werner Mohl, Medical University of Vienna, Austria

Title: Extra cellular matrix micro-environment control is a key issue to regenerative medicine and RGTA based matrix therapy a solution
Barritault Denis, OTR3, France

Title: The role of regenerative medicine in Obstetrics and Gynecology
Bertha Chen, Stanford University School of Medicine, USA

Title: Novel scaffolds fabrication methods in regenerative medicine: The cartilage challenge
Pedro Morouço, Polytechnic Institute of Leiria, Portugal

Coffee Break 10:40-10:55 @ Foyer

Tissue Engineering | Tissue Repair & Regeneration

Session Chair: Barritault Denis, OTR3, France
Session Co-Chair: Pedro Morouço, Polytechnic Institute of Leiria, Portugal

Title: PreImplantation factor (PIF*): Comprehensive neurorepair regimen from newborn to adult
Eytan R Barnea, BioIncept, LLC, USA

Title: Combination of drug and cell delivery to stimulate spinal cord repair
Anne des Rieux, Université catholique de Louvain, Belgium

Title: Engineering functional blood vessels from human/diabetic iPS cells
Rekha Samuel, Christian Medical College, India

Title: Mayo spheroid reservoir bioartificial liver: Bench to bedside
Scott L Nyberg, Mayo Clinic School of Medicine, USA

Title: Combination of bone tissue engineering and electrical stimulation approaches, in vitro and in vivo studies
Liudmila Leppik, J.W. Goethe-University, Germany

Title: Stem cells and biomaterials for the treatment of spinal cord injury, stroke and ALS
Eva Sykova, Institute of Experimental Medicine ASCR, Czech Republic

Title: Searching for therapeutic approaches to skeletal muscle repair and cell therapy
Enrique Brandan, Catholic University of Chile, Chile

Lunch Break

Title: Engineered in vitro model for mammary acini morphogenesis
Walter Bonani, University of Trento, Italy

Title: Intra-bone route of donor lymphocyte infusion favors anti-leukemic allo-reactivity not increasing the risk of acute GvHD
Andrzej Lange, Polish Academy of Sciences, Poland

Title: Magnetic nanoparticles in regenerative medicine- from cell tracking to guided tissue engineering
Luminita Simion Labuska, National Institute of Advanced Physics, Romania

Title: Analysis of regeneration pathways in tissue engineered urinary bladder – microarray data
Marta Pokrywczynska, Nicolaus Copernicus University in Torun, Poland

Title: The future of medically integrated fitness for enhancing clinical outcomes
JR Burgess, Rejuv Medical, USA

Title: Dental pulp stem cells-derived schwann cells for peripheral nerve injury regeneration
Heba Al-Zer, The University of Jordan, Jordan

Coffee Break

Stem Cell Transplant | Ethical & Legal Issues

Session Chair: Scott L. Nyberg, Mayo Clinic School of Medicine, USA
Session Co-Chair: Roberta Di Pietro, Gabriele d’Annunzio University, Italy
Panel Discussion

Day 2 September 13, 2016

Kiel 1-3

Regenerative Medicine | Models of Regeneration | Cell and Organ Regeneration | Regenerative Medicine Market

Session Introduction

Session Chair: Hans-Georg Simon, Northwestern University, USA
Session Co-Chair: Jaroslaw Fabis, Medical University of Lodz, Poland

Title: The addition of EPAT to SVF is perceived to improve the treatment outcomes in severe degenerative joint conditions— a small personal series
Hazem Barmada, Mississippi Stem Cell Treatment Center, USA

Title: Translational challenge in renal regeneration: Establishment of posology
Romalda Maciulaitis, Lithuanian University of Health Sciences, Lithuania

Title: PP2Acα positively regulates mice liver regeneration termination through AKT/GSK3β/Cyclin D1 pathway
Xue Bin, Nanjing University School of Medicine, China

Title: Rotator cuff tear and regenerative medicine - present state of the art and future
Jaroslaw Fabis, Medical University of Lodz, Poland

Title: Optogenetic stimulation of glutamatergic neuronal activity in the striatum enhances neurogenesis in the subventricular zone of normal and stroke mice
Shan Ping Yu, Emory University School of Medicine, USA

Title: An ideal solution for wound management led by regenerative medicine product
Sanddeep Shrivastava, Datta Meghe Institute of Medical Sciences, India

Title: Dynamic remodeling of extracellular matrix instructs regenerative cell behavior
Hans-Georg Simon, Northwestern University, USA

Coffee Break

Title: Regenerated liver tissues derived from human tooth treat swine liver failure induced by progressive nonalcoholic fatty liver disease
Ken Yaegaki, Nippon Dental University School of Life Dentistry, Japan

Title: Mapping of the human amniotic membrane: A morpho-functional study to better understand amniotic membrane stem cells regenerative capacity
Roberta Di Pietro, Gabriele d’Annunzio University, Italy

Title: Social collaboration network analysis of English literature on animal-derived regenerative implantable medical devices
Hongman Wang, Peking University Health Science Center, China

Title: REGENERAGING: From miRNA fingerprint of aged progenitors to ex-vivo reprogramming strategies for improved MSC performance and therapeutic potential
Olivia Candini, University of Modena and Reggio Emilia, Italy

Title: Heart regeneration with cardiac progenitor cells and engineered ECM mimicking carriers in large animal models
Zhong Wang, University of Michigan Medical School, USA

Title: Safety and clinical efficacy from a non-profit stem cell registry tracking >5,000 orthopaedic patients
Christopher J Centeno, Centeno Schultz Clinic, USA

Lunch Break

3rd workshop on Stem Cells Applications in Regenerative Medicine, Flow Cytometry and Medical Tourism
<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolation of mesenchymal stem cells for the treatment of lung fibrosis in an animal model</td>
<td>Vasiliki E. Kalodimou</td>
<td>IASO Maternity Hospital, Greece</td>
</tr>
<tr>
<td>Female genital and vaginal rejuvenation by infusion of adipose mesenchymal stem cells</td>
<td>Efi Roboti</td>
<td>IASO Maternity &amp; Research Hospital, Athens Greece</td>
</tr>
<tr>
<td>Venous neurovascular pathways to neuroinflammation in glaucoma</td>
<td>Nikolaos G Tsamopoulos</td>
<td>Mediteranneo Hospital, Greece</td>
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<tr>
<td>Stem tourism and economic potentials</td>
<td>Isavella Mitrou</td>
<td>University of Birmingham, UK</td>
</tr>
<tr>
<td>Hospital research &amp; blue economy</td>
<td>Georgia Tsakona</td>
<td>Expert in Hospital Economics/Research, Greece</td>
</tr>
<tr>
<td>The importance of umbilical stem cell storage with a comparison between private and public banks, and their uses</td>
<td>Eleni Triantafyllou</td>
<td>National and Kapodistrian University of Athens, Greece</td>
</tr>
<tr>
<td>The uses of adipose-derived mesenchymal stem cells</td>
<td>Alexandra Baranowski</td>
<td>Cambridge University, UK</td>
</tr>
<tr>
<td>Re-engineering the sole defects with “STARS” technique</td>
<td>Narendra Saxena</td>
<td>Datta Meghe Institute of Medical Sciences, India</td>
</tr>
<tr>
<td>Regenerative potential of some natural products: Implications in health and diseases</td>
<td>Samar Hassab-Allah Kassem</td>
<td>October 6 University, Egypt</td>
</tr>
<tr>
<td>Multi-functional biomimetic surfaces of PLA based biomaterials created by printing of functional PLA-b-PEO colloids</td>
<td>Eliska Mazl Chanova</td>
<td>Institute of Macromolecular Chemistry ASCR, Czech Republic</td>
</tr>
<tr>
<td>Functionalized collagen conduit implantation in a paraplegic rat model</td>
<td>Celine Furne</td>
<td>NAMSA, France</td>
</tr>
<tr>
<td>Islet transplantation: Input of biomaterials for islet survival</td>
<td>Eliza Mailiard</td>
<td>University of Strasbourg, France</td>
</tr>
<tr>
<td>Force-induced encapsulated magnetic nanoparticles as a mechanical local stimulus for cell differentiation and proliferation: 3D computational analysis</td>
<td>Mohamed Hamdy Doweidar</td>
<td>University of Zaragoza, Spain</td>
</tr>
<tr>
<td>Direct building of 3D microchannel structure for nutrients delivery</td>
<td>David Salamon</td>
<td>Brno University of Technology, Czech Republic</td>
</tr>
<tr>
<td>Efficient approach to 3D breast cancer structure formation and growth in vitro, in environments of varying rigidities</td>
<td>Elena Afrimzon</td>
<td>Bar-Ilan University, Israel</td>
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</tbody>
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**Panel Discussions**

**Day 2 September 13, 2016**

**Lubeck**

**Mesenchymal Stem Cells**

**Session Chair:** Susan D Reynolds, Nationwide Children's Hospital and The Ohio State University, USA  
**Session Co-Chair:** Jan Kriz, Institute for Clinical and Experimental Medicine (IKEM), Czech Republic

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
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<tbody>
<tr>
<td>My clinical experiences using autogenic and allogenic bone marrow mesenchymal stem cell (MSCs)</td>
<td>Hajime Ohgushi</td>
<td>Ookuma Hospital, Japan</td>
</tr>
<tr>
<td>Clinical applications of mesenchymal stem cells</td>
<td>Brian M Mehl, Blue Horizon International, LLC, USA</td>
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<tr>
<td>External and invasive laser stimulation of intravenously and intra-articular applied mesenchymal stem cells and PRP in regenerative medicine</td>
<td>Michael Weber, International Society for Medical Laser Applications, Germany</td>
<td></td>
</tr>
<tr>
<td>TSG-6 as a biomarker to predict efficacy of human mesenchymal stem/progenitor cells (hMSCs) in modulating sterile inflammation in vivo</td>
<td>Ryang Hwa Lee</td>
<td>Texas A&amp;M Health Science Center, USA</td>
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<tr>
<td>A holistic approach to MSC culture process design</td>
<td>Karen Coopman, Loughborough University, UK</td>
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<tr>
<td>Cell injury-induced release of FGF2: An overlooked factor in MSC implantation</td>
<td>Irina Aizman, SanBio, Inc., USA</td>
<td></td>
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<tr>
<td>An update on methods for cryopreservation and thawing of hematopoietic stem cells</td>
<td>Lucilla Lecchi</td>
<td>Milano Cord Blood Bank, Italy</td>
</tr>
</tbody>
</table>
Title: Human adipose derived mesenchymal stem cells: A potent anti-fibrosis therapy for systemic sclerosis
Daniele Noel, INSERM, France

Title: Function of Pot1 in the maintenance of hematopoietic stem cell activity under stress
Fumio Arai, Kyushu University, Japan

Title: Mesenchymal stromal cells in blood vessels and axons growth
Vsevolod A Tkachuk, Moscow State University, Russia

Title: Combined therapy with shock wave and autologous bone marrow-derived mesenchymal stem cells alleviates left ventricular dysfunction and remodeling through inhibiting inflammatory stimuli, oxidative stress & enhancing angiogenesis in a swine myocardial infarction model
Jiunn-Jye Sheu, Kaohsiung Chang Gung Memorial Hospital, Taiwan

Title: Stem cell treatments for lung disease
Susan D Reynolds, Nationwide Children's Hospital and The Ohio State University, USA

Title: Interaction of mesenchymal stem cells with primary bone tumor cells: Potential implications according to the tumor resection status
Valerie Trichet, Nantes University School of Medicine, France

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Lunch Break

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Session Chair: Danièle Noel, INSERM, France
Session Co-Chair: Hans-Georg Simon, Northwestern University, USA

Title: Boron-doped bone scaffolds
Menemşe Gümüşderelioglu, Hacettepe University, Turkey

Title: Measuring development and potential using computational analysis of live cell and tissue microscopy images
Andrew R Cohen, Drexel University, USA

Title: A plant derived Human recombinant Type I collagen; A novel scaffold for regenerative medicine with outstanding mechanical and biological performance
Oded Shoseyov, CollPlant Ltd., Israel

Title: Guiding full cartilage regeneration using an innovative biphasic natural scaffold in preclinical and minimally invasive clinical studies
Antoine Alves, NAMSA, France

Title: Polymer porous scaffolds for transplantation of Langerhans Islets
Dana Kubies, Institute of Macromolecular Chemistry AS CR, Czech Republic

Title: Transplantation of stem cell-derived neural network scaffold to repair transected spinal cord
Yuan-shan Zeng, Sun Yat-sen University School of Medicine, China

Title: CD34+/CD45- stem cells from diverse lineages and their applicability for cell therapy
Bipasha Bose, Yenepoya University, India

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Coffee Break & Poster Presentations

TERM1601 Title: Intravenous dl-3-n-butylphthalide enhances hemodynamics and vascular plasticity but also improves learning and memory deficits and neuronal degeneration early after chronic cerebral hypoperfusion in rat Li'an Huang, Jinan University, China

TERM1602 Title: Adipose-derived stem cells as a promising tool for pre-clinical and clinical studies in regenerative medicine
Adriana Schumacher, Medical University of Gdansk, Poland

TERM1603 Title: Cystatin C peptidomimetic derivative with antimicrobial and immunoregulatory properties as a potential wound supportive compound
Milena Deptula, Medical University of Gdansk, Poland

TERM1604 Title: Evaluation of therapeutic efficacy of heparin-conjugated fibrin hydrogel containing bone morphogenic proteins and periosteum derived stem cells in critical size rabbit ulna defect
Vyacheslav Ogay, Nazarbayev University, Republic of Kazakhstan

TERM1605 Title: Biomechanical properties of biological lung scaffold in nonhuman primates
Elena V Kuevda, Kuban State Medical University, Russia

TERM1606 Title: Nonhuman primates’mesenchymal stem cells for tissue engineering
Elena A Gubareva, Kuban State Medical University, Russia

TERM1607 Title: Design of polycaprolactone-based biocomposite scaffolds for bone tissue engineering: A brief overview
Saeid Tajbakhsh, University of Tehran, Iran

TERM1608 Title: Application of bone-marrow mesenchymal stem cells and platelet-derived growth factors for human osteogenic graft engineering
Nataliya Danilkovich, The Republic Research Center For Transfusiology And Medical Biotechnologies, Belarus

TERM1609 Title: Electroconductive and biocompatible Carbon nanotube/polyurethane/collagen scaffolds for cardiac tissue engineering
Shiva Asadpour, Tehran University of Medical Sciences, Iran

TERM1610 Title: Effects of platelet-rich plasma & platelet-rich fibrin with & without stromal cell-derived factor-1 on repairing full-thickness cartilage defects in knees of rabbits
Soghra Bahmanpour, Shiraz University of Medical Sciences, Iran
**TERM1611**
Title: In vitro differentiation process of human Wharton’s jelly mesenchymal stem cells to male germ cells in the presence of gonadal and non-gonadal conditioned media with retinoic acid
Fardin Amidi, Tehran University of Medical Sciences, Iran

**TERM1612**
Title: Disease modeling of systemic sclerosis disease through iPS induction and differentiation
Zahra Mazidi, Royan Institute for Stem Cell Biology and Technology, Iran

**TERM1613**
Title: Differentiation of murine dermal papilla cells into myogenic lineage
Mona Rashidi, Iran University School of Medical Sciences, Iran

**TERM1614**
Title: Analysis of smooth muscle regeneration in the tissue-engineered urinary bladder – A study in a porcine model
Marta Pokrywczynska, Nicolaus Copernicus University in Torun, Poland

**TERM1615**
Title: Characterization of the supracrestal gingival connective tissue in rat as to establish a small animal model for periodontal regeneration study
Antoine Alves, NAMSA, France

**TERM1616**
Title: Osteoblastic differentiating potential of dental pulp stem cells on a chemically modified titanium surface
Susi Zara, University “G. d’Annunzio” Chieti-Pescara, Italy

**TERM1617**
Title: Decellularization of xenogeneic artery for small-diameter vascular graft: Mild alkaline treatment removes galactose-alpha-1,3-galactose and retains vascular extracellular matrix
Wing Yue Chan, Singapore General Hospital, Singapore

**TERM1618**
Title: Atorvastatin induces apoptotic gene expression in glioblastoma cells in three-dimensional culture
Neda Bayat, Tehran University of Medical Sciences, Iran

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**Young Researcher Forum**

Claudia Tresoldi, Politecnico di Milano, Italy
Title: Characterization of endoscopic cell spray for application in tubular organs
Malte Bieber, RWTH Aachen University, Germany

Rajan Narayan, Indian Institute of Technology-Kharagpur, India
Title: Towards the generation of fully functional human pluripotent stem cell derived hepatocytes
Nidal Ghosheh, University of Skövde, Sweden

Katarzyna Mazur, Technical University of Gdańsk, Poland
Title: Chemical and topographical modification of polydimethylsiloxane surfaces synergistically influence mesenchymal stem cell fate
Shreyas Kuddannaya, Nanyang Technological University, Singapore

Atipat Patharagulpong, University of Cambridge, UK
Title: Near field electrospun fibres for neural stem cell differentiation

Vincenzo De Iulisis, Universit of Chieti, “G. d’Annunzio”, Italy
Title: Amniotic membrane for cartilage regeneration in a one step-method
Julia Lerchbacher-Hieslmayr, Technical University of Munich, Germany

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**Panel Discussion**

Day 3  September 14, 2016
Kiel 1-3

**Embryonic Stem Cell | induced Pluripotent Stem Cells**

Session Chair: Michael Weber, International Society for Medical laser Applications, Germany
Session Co-Chair: Brian M. Mehling, Blue Horizon International, LLC, USA
Title: Therapeutic potential of human adipose tissue-derived multi-lineage progenitor cells in non-alcoholic fatty liver disease
Hanayuki Okura, National Institutes of Biomedical Innovation, Health and Nutrition, Japan
Title: Generation of electrophysiologically functional cardiomyocytes from mouse induced pluripotent stem cells
Austin J Cooney, University of Texas, USA
Title: Cardimyocyte differentiation of human induced pluripotent stem cells: Modification of signaling pathways
Taghid Gaafar, Cairo University, Egypt
Title: Biological diversity of mesenchymal stromal/stem cells isolated from post-operative tissues
Aleksandra Klimczak, Institute of Immunology and Experimental Therapy PAS, Poland
Title: Genotype induced behavior of perivascular mesenchymal stem cells (pericytes) in vitro
Sudheer Shenoy P, Yenepoya University, India
Title: Development of pluripotent stem cell based therapies for neurologic and oncologic disorders
Jane S Lebkowski, Asterias Biotherapeutics, USA
Title: Role of endothelial progenitor cells (EPCS) in early senescence in coronary artery disease
G Subramanyam, Narayana Medical Institutions, India
Title: Visualization of calcium signals by genetically engineered calcium indicators in human pluripotent stem cells and their differentiated progenies
Ágota Apáti, Research Centre for Natural Sciences, HAS, Hungary

Title: Human pluripotent stem cells as a tool for therapeutic development for the treatment of common diseases
Kumiko Saeki, National Center for Global Health and Medicine, Japan

Workshop
Title: Intravenous and intraarticular laser stimulation of stem cells and PRP for osteoarthritis and organ repair
Michael Weber, International Society for Medical laser Applications, Germany

Session Chair: Xiaodong Chen, University of Texas Health Science Center, USA
Session Co-Chair: Claire Henchcliffe, Weill Cornell Medical College, USA
Title: CCR5 Governs Stem cell characteristics, therapy resistance and metastasis of breast and prostate cancer
Richard Pestell, Thomas Jefferson University, USA
Title: Pre-clinical studies and clinical trials with application of myogenic stem cells
Maciej Kurpisz, Polish Academy of Sciences, Poland

Title: 3D collagen-based biohybrids for soft tissue regeneration
Madalina Georgiana ALBU KAYA, INCDTP – Leather and Footwear Research Institute, Romania
Title: Adipose-derived mesenchymal stem cells for low back pain- the New Zealand experience
Peter Chapman-Smith, NZ Stem Cell Treatment Centre, New Zealand
Title: Human bone mesenchymal stem cells transplantation rescuing fulminant hepatic failure in pigs
Jun Li, Zhejiang University School of Medicine, China
Title: Sports medicine: Stem cells in the OA and AVN patient
Dennis M Lox, Sports and Regenerative Medicine Centers, USA
Title: Use of stem cell as cellular toxicity test models
Vinoth Kumar Jayaseelen, Duke-NUS Graduate Medical School, Singapore
Title: Fat crafting for treatment of complicated wounds: Case report
Triin Vasar, Hospital of Reconstructive Surgery, Estonia

Title: Suppressed regeneration capacity of distal epithelial stem/progenitors in intralobar pulmonary sequestration
Huaiyong Chen, Tianjin Haihe Hospital, China
Title: Engineered microsystems for creating human organ-specific micromechanical environments and quantitative readouts of tissue function
Janna Nawroth, Emulate, Inc., USA
Title: Restoring the regenerative capacity of human bone marrow-derived mesenchymal stem cells (BM-MSCs) from the elderly to establish a high quality autologous MSC bank
Xiaodong Chen, University of Texas Health Science Center, USA
Title: Assessing the effectiveness of umbilical cord-derived mesenchymal stem cells under conditions of ischemia
Malancha Ta, Indian Institute of Science Education and Research (IISER), India
Title: Hypoxia preconditioned mesenchymal stem cells significantly ameliorate lung injury in an elastase-induced emphysema animal model
Kowit-Yu Chong, Chang Gung University, Taiwan
Title: Treatment with AMD3100 beneficially affects pathology in 3xTg- mice model of Alzheimer's disease
Beka Solomon, Tel Aviv University, Israel
Title: Adipose derived autologous mesenchymal stem cells for therapy of type 2 diabetes mellitus patients
Purwati Armand, Airlangga University, Indonesia
Title: Sciatic nerve regeneration induced by transplantation of \textit{in vitro} bone marrow stromal cells into an inside-out artery graft in rat
Rahim Mohammad, Urmia University, Iran

Closing Ceremony

6th International Conference on Tissue Engineering and Regenerative Medicine
December 01-02, 2016   San Antonio, USA
Website: www.tissuescience.conferenceseries.com

7th International Conference on Tissue Engineering and Regenerative Medicine
October 02-04, 2017   Barcelona, Spain
Website: www.tissuescience-regenerativemedicine.conferenceseries.com
Scientific Program

7th Annual Conference on
Stem Cell and Regenerative Medicine
August 04-05, 2016   Manchester, UK
**Keynote Forum**

**Introduction**

**Title:** The importance of extra cellular matrix organization and the use of RGTA technology in regenerative medicine  
*Barritault Denis,* OTR3, France

**Title:** Rejuvenation therapy for ischemic heart disease  
*Y James Kang,* Sichuan University, China

**Title:** Significant physical function improvements of 3 serious injured patients after neural stem cell therapy  
*Taihua Wang,* Interventional Hospital of Shandong Red Cross Society and Cell Biotechnology Co. Ltd, China

<table>
<thead>
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<th>Group Photo</th>
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**Sessions:**

- Stem Cell
- Stem Cell Therapy
- Stem Cell Technologies

**Session Chair:** Barritault Denis, OTR3, France  
**Session Co-Chair:** Raphael Gorodetsky, Hadassah-Hebrew University Medical Center, Israel

**Title:** Jellyfish collagen biomaterials - Next generation collagen for cell culture and med-tech products  
*Andrew Mearns Spragg,* Jellagen Pty Ltd, UK

**Title:** Regulation of hippocampal neural stem cell fate  
*Verdon Taylor,* University of Basel, Switzerland

**Title:** Stem cell therapy for arthritis and joint injuries  
*Brian M Mehling,* Blue Horizon International, LLC, USA

**Title:** Quiescent pluripotent stem cells reside within adult murine peripheral nerves; When stimulated they proliferate and express Sox2, Klf4, c-Myc, and Oct4  
*Michael H Heggeness,* University of Kansas School of Medicine-Wichita, USA

**Title:** Ensuring successful technology transfers for clinical manufacture  
*Janet Downie,* Roslin Cell Therapies, UK

**Title:** Development of pluripotent stem cell based therapies for neurologic and oncologic disorders  
*Jane Lebkowski,* Asterias Biotherapeutics, USA

| Coffee Break: @ Outside Room |

**Title:** Stem cell reprogramming for ENT regenerative medicine  
*Serban San-Marina,* Mayo Clinic, USA

**Title:** Does the addition of EPAT to SVF improve the outcomes in severe degenerative joint conditions?  
*Hazem Barmada,* Mississippi Stem cell Treatment Center, USA

**Title:** Glycomics approaches to the studies of stem cells and development of glycan-targeted cancer immunotherapy  
*John Yu,* Chang Gung Memorial Hospital, Taiwan

**Title:** Deriving consecutive building blocks of human cortical development from pluripotent stem cells: Fundamentals and implications  
*Yechiel Elkabetz,* Tel Aviv University, Israel

**Title:** Sports medicine: Stem cells in the OA and AVN patient  
*Dennis M Lox,* Sports and Regenerative Medicine Centers, USA

**Title:** Aqp2+ progenitors are the principal source of connecting tubule  
*Wenzheng Zhang,* Albany Medical Center, USA

**Title:** Comparison of treatment proficiency of intravenous and intrasplenic injection of the bone marrow-derived mesenchymal stem cell in CCL4-induced white albino rat liver fibrosis  
*Naglaa Kamal Idriss,* Assiut University, Egypt

| Lunch Break: @ Source Grill |

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**Registrations**

**Day 1   August 04, 2016**

**Stable Room**

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Title: Surgical resection of residual breast cancer: The stem cells that neoadjuvant chemotherapy leave behind
SuEllen Pommier, Oregon Health & Science University, USA

Title: Stem cell approaches to model cancer
Huanhuan Joyce Chen, Cornell University, USA

Title: Functional germ cells from mesenchymal stem cells: A dream or reality?
Mohammad Ghasemzadeh-Hasankolaei, Babol University of Medical Sciences, Iran

Title: The role of microRNA-138 in extracorporeal shockwave stimulated osteogenesis of mesenchymal stem cells
Jun Hu, Shantou University Medical College, China

Panel Discussion

Day 2 August 05, 2016
Stable Room

Keynote Forum

Title: Using 'Mouse Clone Model' to open the door for human iPS cell therapy
Gang Zhang, Interventional Hospital of Shandong Red Cross Society and Cell Biotechnology Co. Ltd, China

Title: A novel regenerative medicine approach to reconstruct the temporomandibular joint disk
Pedro Morouço, Centro Empresarial da Marinha Grande, Portugal

Sessions: Regenerative Medicine | Stem Cell Transplantation | Stem Cell Biomarkers | Biomaterials Engineering

Session Chair: Hazem Barmada, Mississippi Stem cell Treatment Center, USA
Session Co-Chair: Serban San-Marina, Mayo Clinic, USA

Title: Isolation of highly potent expanded human placental stromal cells (hPSC) and their application for regenerative medicine and treatment of acute lethal radiation syndrome
Raphael Gorodetsky, Hadassah-Hebrew University Medical Center, Israel

Title: Regenerative therapeutic approaches for kidney regeneration: Present and future
Andrew Kurtz, University Medicine Berlin, Germany

Title: Amyotrophic lateral sclerosis: Patient’s regression after stem cell treatment
Decio Basso, UPE — School of medicine, Paraguay

Title: Intra-articular injection of stem cells in patients with knee osteoarthritis: A systematic review of the literature
Haiko Pas, St Lucas Andreas Hospital, The Netherlands

Coffee Break: @ Outside Room

Title: Regeneration of infarcted myocardium by genetically modified stem cells
Nilanjana Maulik, University of Connecticut Health Center, USA

Title: Arrhythmias in stem cell transplantation
Sasikanth Adigopula, Loma Linda University, USA

Title: Analysis of intellectual properties on animal derived regenerative, implantable medical devices
Hongman Wang, Peking University Health Science Center, China

Title: Cellular modelling of trisomy 21 as an approach to understand Alzheimer’s disease
Dean Nizetic, Nanyang Technological University, Singapore

Title: Do the valve endocardial progenitors originate from a single zebrafish blastula HPRG1+ cell?
Xishuwan Wu, Hunan Normal University, China

Lunch Break: @ Source Grill

Title: Role of autologous stem cells in infertility
Prabhu Mishra, Stemgenn Therapeutics and secretary general-stem cell society, India

Title: Myelo-enhancement by Astragalus membranaceus in male albino rats with chemotherapy myelo-suppression: Histological and immunohistochemical study
Noha Mohammed Afifi Amin, Cairo University, Egypt

Title: Lysophosphatidic acid signaling pathway influences on adipose tissue-derived mesenchymal stem cells for using in EAE
Guillermo Estivill-Torrús, University Regional Hospital of Malaga, Spain
### Young Researcher Forum

**Title:** Simple and versatile synthetic polydopamine-based surface supports reprogramming of human somatic cells and long-term self-renewal of human pluripotent stem cells under defined conditions  
**Ping Zhou,** Peking University, China

**Title:** A systematic review and meta-analysis of clinical trials of mesenchymal stem cell therapy for cartilage repair  
**Aditya Borakati,** University of Hull, UK

**Title:** Improved adhesion of adult derived human liver stem cells (ADHLSCs) to endothelial cells by culture on thermosensitive polymer  
**Pierre-Edouard Dollet,** Universite Catholique de Louvain, Belgium

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**Poster Presentations**  

| SCC-01 | Title: Adhesion ability of human mesenchymal stem cells over expressing VLA-4 molecules via mRNA-ITGA-4 transfection  
|        | Anna Andrzejewska, Mossakowski Medical Research Centre, Poland  
| SCC-02 | Title: Human adipose stem cells cultured with novel wood derived nanofibrillar cellulose  
|        | Raili Koivuniemi, University of Helsinki, Finland  
| SCC-03 | Title: The treatments with a neurogenesis-promoting nutraceutical elicit cognitive improvement in an mouse model of Alzheimer’s disease  
|        | Yung-Feng Liao, Academia Sinica, Taiwan  
| SCC-04 | Title: Role of microRNA in mesenchymal stem cell fate decisions  
|        | Bahareh Ghasemi, King’s College London, UK  
| SCC-05 | Title: Physiological and histological effects after implanting pluripotent stem cells in a murine model with anal canal injury  
|        | Monica Maribel Mata Miranda, Instituto Politécnico Nacional, México  
| SCC-06 | Title: Peptide-conjugated hyaluronic acid surface for the culture of human induced pluripotent stem cells under defined conditions  
|        | Shicheng Wei, Peking University, China  
| SCC-07 | Title: FTIR-DPC from PSC-FTIR spectroscopic and molecular analysis of differentiated pancreatic cells from pluripotent stem cells  
|        | Gustavo Jesús Vázquez Zapién, Instituto Politécnico Nacional, México  
| SCC-08 | Title: Characterization of mice and canine glial restricted precursor cells as the potential tool for cell-based therapy in experimental models of amyotrophic lateral sclerosis  
|        | Malgorzata Majchrzak, Polish Academy of Sciences, Poland  
| SCC-09 | Title: Up-regulation of Cox 2 pathway in interferon-γ treated mesenchymal stem cells suppress interleukin-10 production by activated B cells  
|        | Barbora Hermankova, Charles University, Czech Republic  
| SCC-10 | Title: Immunosuppressive effect of mesenchymal stem cells in combination with Cyclosporine A in a model of skin transplantation  
|        | Michaela Hajkova, Charles University, Czech Republic  
| SCC-11 | Title: Dental pulp stem cell isolation, tissue culture, characterization and cryopreservation from human tooth  
|        | Mohamed Gamal El-Beltagy, Mansoura University, Egypt  
| SCC-12 | Title: Relative value of human umbilical blood cord and rat bone marrow mesenchymal stem on streptozotocin induced type-1 diabetes mellitus  
|        | Naglaa Kamal Idriss, Assiut University, Egypt  
| SCC-13 | Title: Modulation of early inflammatory response in the damaged eye by intravenously administered interferon-γ-treated mesenchymal stem cells  
|        | Eliska Javorkova, Charles University, Czech Republic  

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**Coffee Break:** @ Outside Room
Title: Thermally and chemically assisted electrospinning of gelatin aqueous solution: An innovative approach toward biocompatible scaffold

Sadegh Golie, Iran Polymer and Petrochemical Institute, Iran
Day 1  July 27, 2015

OLIMPICA 2

Opening Ceremony

Keynote Forum

Introduction
Giorgio Calori Maria
University of Milan, Italy
Denis Barritault
University Paris-Est Creteil, France
Babak Kateb
Brain Mappings Society, USA

Session Introduction
Session Chair: Todd K Rosengart, Baylor College of Medicine, USA
Session Co-chair: Kristin Comella, Bioheart Inc., USA
Title: Myocardial regeneration via cellular reprogramming
Todd K Rosengart, Baylor College of Medicine, USA
Title: Adipose stem cells in vasculogenesis and angiogenesis
Kristin Comella, Bioheart Inc., USA
Title: Functions of natural pigments on gastric ulcer and cancer
Hyo Ihl Chang, Korea University, Republic of Korea
Title: Strategies to improve regeneration after peripheral nervous system trauma
Ana Maria Blanco Martinez, Federal University of Rio de Janeiro, Brasil
Title: Quality assurance for cell based therapeutics in 2D and 3D products
Karin Schütze, CellTool GmbH, Germany
Title: Protein phosphatase/Smek complex negatively regulate Par3 and promote neuronal differentiation
Vicky Yamamoto, Keck School of Medicine of USC, USA

Lunch Break

Title: New approach for damaged facial nerve regeneration based on stem cells
Aysegul Batioglu-Karaaltin, Istanbul University, Turkey
Title: Neuron point of care stem cell therapy: Intrathecal transplant of autologous bone marrow-derived stem cells in patients with cerebral palsy. Preliminary Results
Francisco Ruiz Navarro, Austrian Society of Regenerative Medicine, Austria

Session Introduction
Session Chair: Shiva Akbarzadeh, Monash University, Australia
Session Co-chair: Christopher L. Antos, Technische Universität Dresden, Germany
Title: Use of clotted human plasma and aprotinin in skin tissue engineering - A novel approach to engineering composite skin on a porous scaffold
Shiva Akbarzadeh, Monash University, Australia
Title: Adult stem cell aging and skeletal regenerative medicine
Shuanhu Zhou, Harvard Medical School, USA
Title: Adhesion, growth and osteogenic differentiation of human adipose stem cells isolated by liposuction under low and high negative pressure
Lucie Bacakova, Academy of Sciences of the Czech Republic, Czech Republic
Title: Calcineurin instructs when to stop regenerating once the correct size of zebrafish appendages is reached
Christopher L. Antos, Technische Universität Dresden, Germany

Networking & Refreshments Break

Title: 3D imaging of cell interactions with nanofibers scaffolds
Urszula Stachewicz, AGH University of Science and Technology, Poland
Title: Hydrogel scaffolds in tissue engineering of the enteric nervous system
Paola Brun, University of Padova, Italy
Title: Vascularized cardiac tissue from induced pluripotent-derived cardiomyocytes and endothelial cells
Kara E. McCloskey, UC Merced, USA
Session Chair: Norman L. Lehman, The Ohio State University, USA
Session Co-chair: Mei Wan, Johns Hopkins University School of Medicine, USA

- **Title**: Introducing a polydopamine-laced hydroxyapatite-gelatin nanocomposite for customized scaffolding in bone tissue engineering
  - **Ching-Chang Ko**, University of North Carolina-Chapel Hill, USA
- **Title**: Glioma tumor stem cell based models for evaluation of anti-glioma therapeutics
  - **Norman L. Lehman**, The Ohio State University, USA
- **Title**: Menstrual blood derived stem cells as a renewable source of adult stem cells: Features and advantages
  - **Somaieh Kazemnejad**, Avicenna Research Institute, Iran
- **Title**: Neural progenitor cells for treating retinal degeneration
  - **Shaomei Wang**, Regenerative Medicine Institute, USA
- **Title**: Safety study of intravenously administered human cord blood stem cells in the treatment of symptoms related to chronic inflammation
  - **Brian Mehling**, Blue Horizon International, USA

**Keynote Forum**

- **Nagy Habib**, Imperial College London, UK
- **Gordon Blunn**, University College London, UK
- **Richard G Postell**, Thomas Jefferson University, USA

**Session Chair**: Joseph Purita, Institute of Regenerative and Molecular Orthopedics, USA
**Session Co-Chair**: Andrea Barbetta, Sapienza University of Rome, Italy

- **Title**: Cutting edge concepts in the use of stem cell and PRP injections in an office setting
  - **Joseph Purita**, Institute of Regenerative and Molecular Orthopedics, USA
- **Title**: Bioprinted 3D vascularized network tissue constructs using cell-laden bioink
  - **Andrea Barbetta**, Sapienza University of Rome, Italy
- **Title**: Increasing concentration of self-assembling peptides finely tunes properties of electrospun scaffolds and improves osteoblast cells adhesion
  - **Paola Brun**, University of Padova, Italy
- **Title**: Hydrogel scaffolds in tissue engineering of the enteric nervous system
  - **Ignazio Castagliuolo**, University of Padova, Italy
- **Title**: Biomimetic polyurethane scaffolds for a stem cell based therapy in myocardial regeneration
  - **Valeria Chiono**, Politecnico di Torino, Italy
- **Title**: Reciprocal interactions between iPSC-derived neural cell-seeded modified collagen scaffolds and nerve tissue
  - **Marzena Zychowicz**, Polish Academy of Sciences, Poland

**Workshop on “New frontiers in hard tissue regeneration: State of art”**

- **Session Chair**: Roberta Di Pietro, G. d’Annunzio University of Chieti-Pescara, Italy
- **Session Co-Chair**: Ivo Kalajzic, University of Connecticut Health Center, USA
- **Title**: Dental pulp stem cells: State of the art and suggestions for a true translation of research into therapy
  - **Gianpaolo Papaccio**, University of Naples Federico II, Italy
- **Title**: αSma expressing perivascular and satellite cells contribute to muscle heterotopic ossification
  - **Ivo Kalajzic**, University of Connecticut Health Center, USA
- **Title**: Triggering osteocytogenesis in vitro and in vivo
  - **Gunter Lepperdingruber**, University Salzburg, Austria
- **Title**: Potential of human amniotic fluid stem cells (AFSC) and natural scaffolds in bone regeneration and repair
  - **Roberta Di Pietro**, G. d’Annunzio University of Chieti-Pescara, Italy

**Session Chair**: Aysegul Batioglu-Karaaltin, Istanbul University, Turkey
**Session Co-Chair**: Livia Visai, University of Pavia, Italy
- **Title**: Treatment of AVN using the chamber induction technique and biotechnologies: Indications and clinical results
  - **Massimiliano Colombo**, University of Milan, Italy
- **Title**: Scaffolds, stem cells, biophysical stimulations and nanotechnology in tissue engineering and regenerative medicine
  - **Livia Visai**, University of Pavia, Italy
- **Title**: Leukocyte-Platelet Rich Fibrin Membrane (L-PRF) alone or associated with a biomimetic implant surface act as a biological scaffold for hard and soft tissue regeneration
  - **Nelson R Pinto**, University of the Andes, Chile
- **Title**: In vivo tissue engineering trachea using adipose derived mesenchimal stem cell and cadaveric tracheal scaffold
  - **Aysegul Batioglu-Karaaltin**, Istanbul University, Turkey
- **Title**: In vivo imaging modalities to visualize mouse brain regenerative response after stroke and stem cell and biomaterial applications
  - **Srecko Gajovic**, University of Zagreb School of Medicine, Croatia
Special Session on “Developments, innovations and breakthroughs in regenerative medicine”

Chair: Jonathan Schwartz, Medical Marvels, USA
Title: Lipogems a game changer in the field of regenerative stem cell therapy
Joseph Purita, Institute of Regenerative and Molecular Orthopedics, USA
Title: Basics and clinical applications of laser needle acupuncture, intravenous, interstitial, intra-articular and photodynamic laser therapy
Michael Weber, Weber medical Laser Treatment and Research Centers, Germany
Title: A novel chondral defect repair strategy: Biologic resurfacing through innovative bone marrow concentration system
Sciarretta Fabio Valerio, Clinica Nostra Signora della Mercede, Italy
Title: Cracking the telomere code: The first step to reverse aging
Al Sears, Dr. Al Sears’ Center for Health and Wellness, USA

Young Research Forum

Session Chair: Karin Schütze, CellTool GmbH, Germany
Title: A direct differentiation of hiPSCs towards erythroid cells under serum-free and hypoxia condition
Nihal AlMuraikhi, Imperial College London, UK
Title: Bioceramic filler nature influence on acrylic cement properties after immersion in biological fluid
Celine Aubrun, University d’Artois, France
Title: Polybutylene adipate-co-terephthalate (PBAT) scaffolds for tissue regeneration
Aysu Arslan, Hacettepe University, Turkey
Title: Influence of electron beam irradiation onto physical and chemical properties of electrospun produced 3D matrices
Alena O Stepanova, Meshalakin Novosibirsk State Research Institute of Circulation Pathology, Russia
Title: Nanohydroxyapatite/polyhedral oligomeric silsesquioxane poly(carbonate-urea) urethane (nHA/POSS-PCU): Applications in bone tissue engineering and regenerative medicine
Shima Salmasi, University College London, UK

Poster Sessions

Morning Session P01 to P16
Evening Session P17 to P33

OLIMPICA 2

Track 9: Clinical Medicine
Track 10: Regenerative Medicine
Track 11: Applications of Tissue Engineering & Regenerative Medicine

Session Chair: Lewis K Clarke, Bay Area Rehabilitation Medicine Associates, USA
Session Co-Chair: Ion N Mihailescu, National Institute for Lasers, Romania
Title: Optimizing intrinsic mechanisms of neuroregeneration in the CNS: Utilizing mitochondrial and neurosteroid chemistry
Lewis K Clarke, Bay Area Rehabilitation Medicine Associates, USA
Title: Pot1a regulates self-renewal activity of hematopoietic stem cells
Fumio Arai, Kyoto University, Japan
Title: Safety study of intravenously administered human cord blood stem cells in the treatment of symptoms related to chronic inflammation
Brian Mehling, Blue Horizon International, USA
Title: Soft transfer pulsed laser technologies for applications in regenerative medicine
Ion N Mihailescu, National Institute for Lasers, Romania

Networking & Refreshments Break

Title: Nanoencapsulation of stem cells and regenerative medicine
Roberto Ebensperger, Pontificia Universidad Católica de Chile, Chile
Title: The role of LRPS in lung angiogenesis and regeneration
Akiko Mam Moffo, Harvard Medical School, USA
Title: Dire digital manufacturing trends for regenerative medicine
Pedro G Moro, Polytechnic Institute of Leiria, Portugal
Title: Biobanking of subcutaneous adipose tissue: effect of site, cryopreservation, age and BMI
Wanda Lattanzi, Università Cattolica del Sacro Cuore, Italy
Title: Artificial bone substitutes for bone repair purposes
Samin Eftekhari, Ryerson University, Canada

Award Ceremony

Lunch Break

5th International Conference on Tissue Science and Regenerative Medicine

November 07-09, 2016   Istanbul, Turkey
Conference Venue
TRYP Barcelona Apolo Hotel
Avinguda del Paral·lel, 57-59
Barcelona 08004
Spain