

Scientific Program

4th International Conference on

Tissue Science and Regenerative Medicine

July 27-29, 2015 Rome, Italy



OMICS International Conferences:

OLIMPICA 2



08:30-9:00

Day 1

Opening Ceremony

Keynote Forum		
09:00-09:05	Introduction	
09:05-09:30	Giorgio Calori Maria University of Milan, Italy	
09:30-09:55	Denis Barritault University Paris-EstCreteil, France	
09:55-10:20	Babak Kateb Brain Mappings Society, USA	

	Networking & Refreshments Break 10:20-10:
Track 1: Regene	eration & Therapeutics
	Session Introduction
	odd K Rosengart, Baylor College of Medicine, USA
ession Co-chai	r: Kristin Comella, Bioheart Inc., USA
10:35-10:55	Myocardial regeneration via cellular reprogramming
	Todd K Rosengart, Baylor College of Medicine, USA
10:55-11:15	Adipose stem cells in vasculogenesis and angiogenesis Kristin Comella, Bioheart Inc., USA
	Functions of natural pigments on gastric ulcer and cancer
11:15-11:35	Hyo Ihl Chang, Korea University, Republic of Korea
	Strategies to improve regeneration after peripheral nervous system trauma
11:35-11:55	Ana Maria Blanco Martinez, Federal University of Rio de Janeiro, Brasil
	Quality assurance for cell based therapeutics in 2D and 3D products
11:55-12:15	Karin Schütze, CellTool GmbH, Germany
10 15 10 25	Protein phosphatase/Smek complex negatively regulate Par3 and promote neuronal differentiation
12:15-12:35	Vicky Yamamoto, Keck School of Medicine of USC, USA
	Lunch Break 12:35-13:2
13:20-13:40	New approach for demaged fasial nerve regeneration based on stem cells
10.20 10.10	Aysegul Batioglu-Karaaltin, Istanbul University, Turkey
	Neuron point of care stem cell therapy: Intrathecal transplant of autologous bone marrow-derived stem cells
13:40-14:00	patients with cerebral palsy. Preliminary Results
	Francisco Ruiz Navarro, Austrian Society of Regenerative Medicine, Austria
rack 4: Tissue F	
rack 5: Materia	Is & Designs for Tissue Engineering
	Session Introduction
	hiva Akbarzadeh, Monash University, Australia
ession Co-chair	r: Christopher L. Antos, Technische Universität Dresden, Germany
14:00-14:20	Use of clotted human plasma and aprotinin in skin tissue engineering - A novel approach to engineering composi
14:00-14:20	skin on a porous scaffold Shiva Akbarzadeh, Monash University, Australia
14:20-14:40	Adult stem cell aging and skeletal regenerative medicine
	Shuanhu Zhou, Harvard Medical School, USA
14:40-15:00	Adhesion, growth and osteogenic differentiation of human adipose stem cells isolated by liposuction under lo
	and high negative pressure
	Lucie Bacakova, Academy of Sciences of the Czech Republic, Czech Republic
15:00-15:20	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 15:20-15:3 3D imaging of cell interactions with nanofibers scaffolds
15:35-15:55	Urszula Stachewicz, AGH University of Science and Technology, Poland
15:55-16:15	Hydrogel scaffolds in tissue engineering of the enteric nervous system
	Paola Brun, University of Padova, Italy
	Vascularized cardiac tissue from induced pluripotent-derived cardiomyocytes and endothelial cells
16:15-16:35	Kara E. McCloskey, UC Merced, USA
rack 2: Stem Co	ells-Tools to Battle Cancer
	nd Cartilage Tissue Engineering
rack of Dolle ul	Case an Introduction

Session Introduction

Session Co-chair: Mei Wan, Johns Hopkins University School of Medicine, USA		
Control Co-chall.	Introducing a polydopamine-laced hydroxyapatite-gelatin nanocomposite for customized scaffolding in bone	
16:35-16:55	tissue engineering	
	Ching-Chang Ko, University of North Carolina- Chapel Hill, USA	
16:55-17:15	Glioma tumor stem cell based models for evaluation of anti-glioma therapeutics	
	Norman L. Lehman, The Ohio State University, USA Menstrual blood derived stem cells as a renewable source of adult stem cells: Features and advantages	
17:15-17:35	Somaieh Kazemnejad, Avicenna Research Institute, Iran	
17:35-17:55	Neural progenitor cells for treating retinal degeneration	
17:33-17:33	Shaomei Wang, Regenerative Medicine Institute, USA	
	Safety study of intravenously administered human cord blood stem cells in the treatment of symptoms related to	
17:55-18:15	chronic inflammation Brian Mehling, Blue Horizon International, USA	
Day 2 July 28, 2015		
	OLIMPICA 2	
	Keynote Forum	
09:00-09:25	Nagy Habib	
	Imperial College London, UK	
09:25-09:50	Gordon Blunn	
	University College London, UK	
09:50-10:25	Richard G Pestell	
	Thomas Jefferson University, USA	
	Networking & Refreshments Break 10:25-10:40	
Track 6: Scaffolds		
Track 7: Whole O	rgan Engineering & Approaches	
Soccion Chaire Io	Session Introduction seph Purita, Institute of Regenerative and Molecular Orthopedics, USA	
	Andrea Barbetta, Sapienza University of Rome, Italy	
	Cutting edge concepts in the use of stem cell and PRP injections in an office setting	
10:40-11:00	Joseph Purita, Institute of Regenerative and Molecular Orthopedics, USA	
11:00-11:20	Bioprinted 3D vascularized network tissue constructs using cell-laden bioink	
	Andrea Barbetta, Sapienza University of Rome, Italy Increasing concentration of self-assembling peptides finely tunes properties of electrospun scaffolds and improves	
11:20-11:40	osteoblast cells adhesion	
	Paola Brun, University of Padova, Italy	
11:40-12:00	Hydrogel scaffolds in tissue engineering of the enteric nervous system	
11.40-12.00	Ignazio Castagliuolo, University of Padova, Italy	
12:00-12:20	Biomimetic polyurethane scaffolds for a stem cell based therapy in myocardial regeneration	
	Valeria Chiono, Politecnico di Torino, Italy Reciprocal interactions between iPS-derived neural cell-seeded modified collagen scaffolds and nerve tissue	
12:20-12:40	Marzena Zychowicz, Polish Academy of Sciences, Poland	
	Lunch Break 12:40-13:30	
Cassian Chain Da	Workshop on "New frontiers in hard tissue regeneration: State of art"	
	berta Di Pietro, G. d'Annunzio University of Chieti-Pescara, Italy Ivo Kalajzic, University of Connecticut Health Center, USA	
	Dental pulp stem cells: State of the art and suggestions for a true translation of research into therapy	
13:30-13:50	Gianpaolo Papaccio, University of Naples Federico II, Italy	
13:50-14:10	αSma expressing perivascular and satellite cells contribute to muscle heterotopic ossification	
	Ivo Kalajzic, University of Connecticut Health Center, USA Triggering osteocytogenesis in vitro and in vivo	
14:10-14:30	Gunter Lepperdinger, University Salzburg, Austira	
14 20 14 50	Potential of human amniotic fluid stem cells (AFSC) and natural scaffolds in bone regeneration and repair	
14:30-14:50	Roberta Di Pietro, G. d'Annunzio University of Chieti-Pescara, Italy	
	proaches in Guided Tissue Regeneration	
	segul Batioglu-Karaaltin, Istanbul University, Turkey Livia Visai, University of Pavia, Italy	
	Treatment of AVN using the chamber induction technique and biotechnologies: Indications and clinical results	
14:50-15:10	Massimiliano Colombo, University of Milan, Italy	
15:10-15:30	Scaffolds, stem cells, biophysical stimulations and nanotechnology in tissue engineering and regenerative medicine	
10.10-10.00	Livia Visai, University of Pavia, Italy	
15.00 15.00	Leukocyte-Platelet Rich Fibrin Membrane (L-PRF) alone or associated with a biomimetic implant surface act as a	
15:30-15:50	biological scaffold for hard and soft tissue regeneration	
	Nelson R Pinto, University of the Andes, Chile In vivo tissue engineering trachea using adipose derived mesenchimal stem cell and cadaveric tracheal scaffold	
15:50-16:10	Aysegul Batioglu-Karaaltin, Istanbul University, Turkey	
	In vivo imaging modalities to visualize mouse brain regenerative response after stroke and stem cell and	
16:10-16:30	biomaterial applications	

Session Chair: Norman L. Lehman, The Ohio State University, USA

16:10-16:30

biomaterial applications

Srecko Gajovic, University of Zagreb School of Medicine, Croatia

Networking & Refreshments Break 16:30-16:45 Special Session on "Developments, innovations and breakthroughs in regenerative medicine" Chair: Jonathan Schwartz, Medcial Marvels, USA Lipogems a game changer in the field of regenerative stem cell therapy 16:45-17:05 Joseph Purita, Institute of Regenerative and Molecular Orthopedics, USA Basics and clinical applications of laserneedle acupuncture, intravenous, interstitial, intraarticular and 17:05-17:25 photodynamic laser therapy Michael Weber, Webermedical Laser Treatment and Research Centers, Germany A novel chondral defect repair strategy: Biologic resurfacing through innovative bone marrow concentration system 17:25-17:45 Sciarretta Fabio Valerio, Clinica Nostra Signora della Mercede, Italy Cracking the telomere code: The first step to reverse aging 17:45-18:05 Al Sears, Dr. Al Sears' Center for Health and Wellness, USA Young Research Forum **Session Introduction** Session Chair: Karin Schütze, CellTool GmbH, Germany A direct differentiation of hiPSCs towards erythroid cells under serum-free and hypoxia condition 18:05-18:20 Nihal AlMuraikhi, Imperial College London, UK Bioceramic filler nature influence on acrylic cement properties after immersion in biological fluid 18:20-18:35 Celine Aubrun, University d'Artois, France Polybutyleneadipate-co-terephthalate (PBAT) scaffolds for tissue engineering applications 18:35-18:50 **Aysu Arslan**, Hacettepe University, Turkey Influence of electron beam irradiation onto physical and chemical properties of electrospun produced 3D matrices 18:50-19:05 Alena O Stepanova, Meshalkin Novosibirsk State Research Institute of Circulation Pathology, Russia Nanohydroxyapatite/polyhedral oligomeric silsesquioxane poly(carbonate-urea) urethane (nHA/POSS-PCU): 19:05-19:20 Applications in bone tissue engineering and regenerative medicine Shima Salmasi, University College London, UK **Poster Sessions** 10:00-11:00 Morning Session P01 to P16 16:00-17:00 **Evening Session P17 to P33** Day 3 July 29, 2015 **OLIMPICA 2 Track 9: Clinical Medicine** Track 10: Regenerative Medicine Track 11: Applications of Tissue Engineering & Regenerative Medicine Session Introduction Session Chair: Lewis K Clarke, Bay Area Rehabilitation Medicine Associates, USA Session Co-Chair: Ion N Mihailescu, National Institute for Lasers, Romania Optimizing intrinsic mechanisms of neuroregeneration in the CNS: Utilizing mitochondrial and neurosteroid chemistry 09:00-09:20 Lewis K Clarke, Bay Area Rehabilitation Medicine Associates, USA Potla regulates self-renewal activity of hematopoietic stem cells 09:20-09:40 Fumio Arai, Kyushu University, Japan Safety study of intravenously administered human cord blood stem cells in the treatment of symptoms related to 09:40-10:00 chronic inflammation Brian Mehling, Blue Horizon International, USA Soft transfer pulsed laser technologies for aplications in regenerative medicine 10:00-10:20 Ion N Mihailescu, National Institute for Lasers, Romania Networking & Refreshments Break 10:20-10:35 Nanoencapsulation of stem cells and regenerative medicine 10:35-10:55 Roberto Ebensperger, Pontificia Universidad Católica de Chile, Chile The role of LRP5 in lung angiogenesis and regeneration 10:55-11:15 Akiko Mammoto, Harvard Medical School, USA Direct digital manufacturing trends for regenerative medicine 11:15-11:35 Pedro G Morouco, Polytechnic Institute of Leiria, Portugal Biobanking of subcutaneous adipose tissue: effect of site, cryopreservation, age and BMI 11:35-11:55 Wanda Lattanzi, Università Cattolica del Sacro Cuore, Italy Artificial bone substitutes for bone repair purposes 11:55-12:15

Award Ceremony

Lunch Break 12:35-13:15

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5th International Conference on

Samin Eftekhari, Ryerson University, Canada

Tissue Science and Regenerative Medicine

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