

Organizing Secretariat

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Registration is free but must be finalized accessing the Organizing Secretariat website www.studioprogress.it NEXT MEETINGS. The Organizing Secretariat will send an acceptance e-mail to confirm registration.

Official scientific language: English

- DPT of Laboratory Medicine
 - School of Dentistry
 - DPT of Orthopaedic Surgery
 - DPT of Mechanical and Industrial Engineering
 - DPT of Information Engineering
 - Radiological Sciences and Public Health
 - DPT of Medical and Surgical Specialties,
 - DPT of Clinical and Experimental Sciences
- on behalf of

Scientific Secretariat
*D. Russo, P. Nicolai, E. Sardini, L. Sartore,
C. Paganelli, P. Guizzi, C. Almici*

Under the Patronage of:

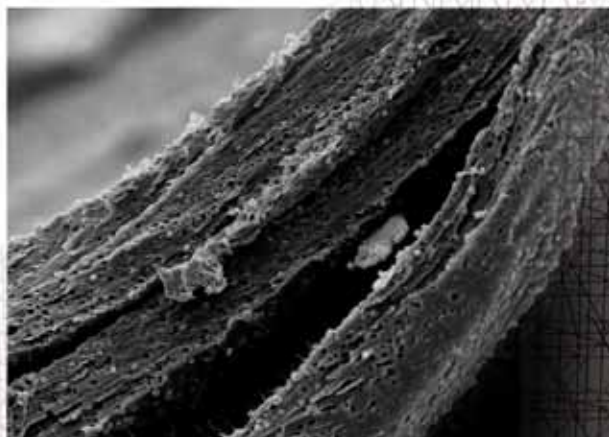


UNIVERSITÀ
DEGLI STUDI
DI BRESCIA

International Conference Bioengineering and Cell Therapy

21st September 2018

University of Brescia - School of Medicine
Main Lecture Hall - Viale Europa 11-Brescia



INVITED SPEAKERS

Almici Camillo	Laboratory for Stem Cells Manipulation and Cryopreservation, DPT of Laboratory Medicine, ASST Spedali Civili di Brescia, Brescia, Italy.
Castellano Maurizio	Unit of Endocrine-Metabolic Medicine and Rare Diseases in the Adult, DPT of Clinical and Experimental Sciences, University of Brescia, Brescia, Italy
Chinello Clizia	Clinical Proteomics and Metabolomics Unit, School of Medicine and Surgery, University of Milano-Bicocca, Vedano al Lambro, Italy
De Petro Giuseppina	Division of Biology and Genetics, DPT of Molecular and Translational Medicine, University of Brescia, Italy
Dell'Era Patrizia	Cellular Fate Reprogramming Unit, DPT of Molecular and Translational Medicine, University of Brescia, Brescia, Italy
Doglietto Francesco	Neurosurgery Unit, DPT of Medical and Surgical Specialties, Radiological Sciences, and Public Health, University of Brescia, Brescia, Italy
Faglia Rodolfo	DPT of Mechanical and Industrial Engineering, University of Brescia, Brescia, Italy.
Guizzi Pierangelo	Orthopedics and Traumatology Unit, DPT of Orthopaedic Surgery, ASST Spedali Civili di Brescia, Italy
Heijs Bram	Mass Spectrometry Imaging, Center for Proteomics & Metabolomics, Leiden University Medical Center, Leiden, The Netherlands
Le Blanc Katarina	DPT of Laboratory Medicine, Karolinska Institutet, Stockholm, Sweden
Lisignoli Gina	Laboratory of Immunorheumatology and Tissue Regeneration, Rizzoli Orthopaedic Institute, Bologna, Italy
Magni Fulvio	Clinical Proteomics and Metabolomics Unit, School of Medicine and Surgery, University of Milano-Bicocca, Vedano al Lambro, Italy
Mariani Erminia	Laboratory of Immunorheumatology and Tissue Regeneration, Rizzoli Orthopaedic Institute, Bologna, Italy DPT of Medical and Surgical Sciences, Alma Mater Studiorum University of Bologna, Bologna
Martin Ivan	DPT of Biomedicine, University Hospital, Basel, Switzerland
Mattavelli Davide	Unit of Otorhinolaryngology-Head and Neck Surgery, DPT of Medical and Surgical Specialties, Radiological Sciences, and Public Health, University of Brescia, Brescia, Italy
Missale Maria Cristina	Division of Pharmacology, DPT of Molecular and Translational Medicine, University of Brescia, Brescia, Italy
Monti Eugenio	DPT of Molecular and Translational Medicine, University of Brescia, Brescia, Italy
Nicolai Piero	Unit of Otorhinolaryngology-Head and Neck Surgery, DPT of Medical and Surgical Specialties, Radiological Sciences, and Public Health, University of Brescia, Brescia, Italy
Pizzi Marina	DPT of Molecular and Translational Medicine, University of Brescia, Brescia, Italy
Radeghieri Annalisa	DPT of Molecular and Translational Medicine, University of Brescia, Brescia, Italy
Re Federica	Unit of Blood Diseases and Stem Cell Transplantation, DPT of Clinical and Experimental Sciences, University of Brescia, Brescia, Italy
Russo Domenico	Unit of Blood Diseases and Stem Cell Transplantation, DPT of Clinical and Experimental Sciences, University of Brescia, Brescia, Italy
Sanchez Manuel S.	Division of Biomedical Engineering, School of Engineering, University of Glasgow, UK
Sardini Emilio	DPT of Information Engineering, University of Brescia, Brescia, Italy
Sartore Luciana	Science and Technology of Materials Laboratory, DPT of Mechanical and Industrial Engineering, University of Brescia, Brescia, Italy
Serpelloni Mauro	DPT of Information Engineering, University of Brescia, Brescia, Italy
Sozzani Silvano	DPT of Molecular and Translational Medicine, University of Brescia, Brescia, Italy
Tonello Sarah	DPT of Information Engineering, University of Brescia, Brescia, Italy

SCIENTIFIC PROGRAM

8:30 **Registration**

9:00 **Welcome of the Authorities**

- Rector of the University of Brescia
- Director General of ASST Spedali Civili di Brescia
- Director General of the Italian National Transplant Centre (CNT)
- President of Fondazione Comunità Bresciana

*Prof. M. Tira
Dott. E. Belleri
Dott. A. Nanni Costa
Dott. P. L. Strepavava*

Welcome on behalf of GITMO and SIES and Introduction

D. Russo

First Session

Chairman: F. Magni, M. Pizzi, E. Mariani

9:30 Scaffold Universe – Engineering the cellular microenvironment with materials and growth factors

10:00 The potential of MSCs in regenerative medicine

10:30 Lab-on-a-tissue: Using Mass Spectrometry Imaging in clinical research

11:00 Re-engineering developmental process for cartilage and bone regeneration

*M.S. Sanchez
K. Le Blanc
B.P.A.M. Heijs
I. Martin*

11:30 -12:00 Coffee break

Second Session

Chairman: M. Castellano, R. Faglia, D. Russo

12:00 High performance Gelatin/Chitosan-based Hydrogels as Scaffolds for Tissue Engineering Applications

12:20 Human Platelet Lysate production for h-MSCs expansion

12:40 Hydrogel Polymeric Scaffolds (HyPSs) bioengineered with Human Mesenchymal Stem Cells (hMSCs) for regenerative medicine employment: a pilot study

13:00 Development of artificial cartilage on chitosan-based scaffolds: critical points and preliminary data

13:20 The role of proteomics for molecular and cellular characterization of human platelet lysate and scaffolds

*L. Sartore
C. Almici*

*F. Re
G. Lisignoli
C. Chinello*

13:45 -14:30 Light Lunch

Third session

Chairman: P. Guizzi, E. Sardini, P. Nicolai

14:30 Skull base reconstructions after expanded endoscopic approaches: state of the art

14:50 3-D printing of biocompatible engineered polymers for personalized skull base reconstruction in endoscopic skull base surgery: preliminary results and future directions. the e-Bones Project

15:10 Sensing scaffolds for cell monitoring in tissue engineering

15:30 Research Activities in the Tissue Engineering Laboratory at the University of Brescia

F. Doglietto

*D. Mattavelli
S. Tonello
M. Serpelloni*

Fourth session

Chairman: G. De Petro, S. Sozzani, E. Monti

15:50 A multidisciplinary approach to build an engineered heart tissue

16:10 iPS-derived dopaminergic neurons: a new tool to model neurodegenerative disorders

16:30 Extracellular vesicles in regenerative medicine

*P. Dell'Era
M.C. Missale
A. Radeghieri*