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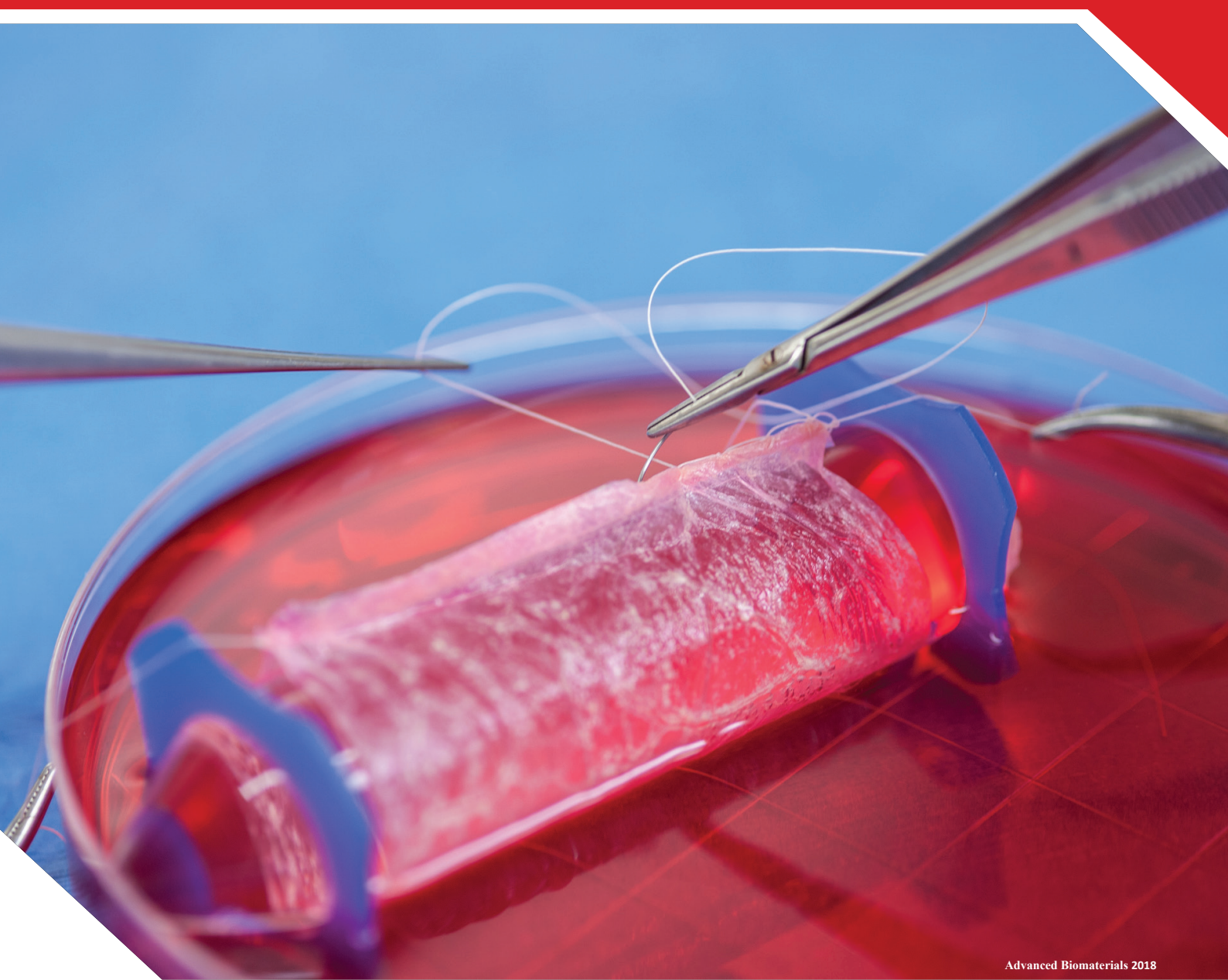
of Excellence in Medical Publishing

Scientific Program

WORLD CONGRESS ON

ADVANCED BIOMATERIALS AND TISSUE ENGINEERING

OCTOBER 17-18, 2018 | ROME, ITALY



Advanced Biomaterials 2018

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Day 1: October 17, 2018

Conference Hall

Keynote Forum

Introduction 09:55-10:00

- 10:00-10:40** **Title: Polymeric and inorganic nanomaterials as promising tools for the battle against microbial biofilms**
Iolanda Francolini, Sapienza University of Rome, Italy
- 10:40-11:20** **Title: The effect of pore structure of collagen scaffold on cultured human chondrocytes in cartilage tissue engineering**
Mahdi Hadi, Tofigh Daru Research & Engineering Company, Iran

Group Photo

Refreshments and Networking Break @ Mercure: 11:20-11:40

Sessions: Biomaterials | Tissue Engineering | 3D printing of Biomaterials | Tissue Engineering in Tissue Repair | Regenerative Medicine | Biomaterials & Nanotechnology | Tissue Engineering and their Applications

Session Chair: Gianfranco Donelli, Microbial Biofilm Laboratory, Italy

Session Co-Chair: Iolanda Francolini, Sapienza University of Rome, Italy

Young Researcher's Forum

- 11:40-12:05** **Title: The potential of innovative marine-derived Biomaterials**
Cinzia Ferrario, University of Milan, Italy
- 12:05-12:30** **Title: Routine checking for cells viability in deposition 3D printing**
Chloé Devillard, Claude Bernard University Lyon1, France,
- 12:30-12:55** **Title: Investigating the structure-activity relationship of amphiphilic nucleophiles to hydrolyze major classes of pesticides in micellar medium**
Subhashini Pandey, Institute for Stem Cell Biology and Regenerative Medicine (inStem), India.

Lunch Break @ Restaurant: 13:00-14:00

- 14:00-14:25** **Title: Developing 17- β -estradiol releasing electrospun polyurethane scaffolds for pelvic floor repair**
Sarah Shafaat, KROTO Research Institute, UK.
- 14:25-14:50** **Title: Numerical simulation of tumor growth: A modified mathematical model for behavior of spheroidal tumor growth in a microfluidic device containing microwell structure**
Ali Taghibakhshi, Sharif University of Technology, Iran

Refreshments and Networking Break @ Mercure: 14:50-15:10

Poster Presentations

- WCAB-001** **Title: 3D alginate hydrogels: Impact of substrate stiffness on cellular response**
Alejandra Suarez-Arnedo, Universidad de Los Andes, Colombia
- WCAB-002** **Title: Fabrication of a PDMS thin film with surface modification as a scaffold for animal cells**
Ayoung Choi, KAIST, Republic of Korea

WCAB-003 **Title: Marine by-products as source for functional and health-promoting biomaterials for tissue engineering applications**

Stefania Scialla, Institute of Nanotechnology (NANOTEC), Italy

WCAB-004 **Title: Altered expression of miR-9, miR-143 and LMNA is related to clinicopathologic and epidemiologic features in bladder cancer in Tunisia**

Nouha Setti Boubaker, Laboratory of proteins engineering and bioactive molecules (LIP-MB), Tunisia

WCAB-005 **Title: Development of biomimetic scaffolds for controlled release of bioactive agent**

Farah Alwani Azaman, Athlone Institute of Technology, Ireland

Panel Discussions

Day 2: October 18, 2018

Conference Hall

Keynote Forum

10:00-10:40 **Title: Nanodiamond surface modification and technology development of a high dose non-steroidal anti-inflammatory drug contained in a medical patch**

Whung-Whoe Kim, Korea Atomic Energy Research Institute, Korea

10:40-11:20 **Title: Engineering biomolecule-responsive hydrogels medical applications disconnections**

Hossein Hosseinkhani, Innovation Center for Advanced Technology, USA

Group Photo

Refreshments and Networking Break @ Mercure: 11:20-11:40

Sessions: Biomaterials | Tissue Engineering | 3D printing of Biomaterials | Tissue Engineering in Tissue Repair | Regenerative Medicine | Biomaterials & Nanotechnology | Tissue Engineering and their Applications

Session Introduction

Session Chair: Whung-Whoe Kim, Korea Atomic Energy Research Institute, Korea

Session Co-Chair: Hossein Hosseinkhani, Innovation Center for Advanced Technology, USA

11:40-12:10 **Title: A new approach to regenerative cartilage tissue engineering using temperature-sensitive therapeutic hydrogels**

Juana Mendenhall, Morehouse College, Atlanta

12:10-12:40 **Title: Novel biomaterials to prevent periprosthetic joint infection**

Dan Li, Northwestern University, Chicago

Lunch Break @ Restaurant: 12:40-13:40

13:40-14:10 **Title: Nanodiamond surface modification and technology development of a high dose non-steroidal anti-inflammatory drug contained in a medical patch**

Rym Taktak, National School of Engineers of Sfax, Tunisia

14:10-14:40 **Title: Role of catalytic residues of Mur protein from Deinococcus radiodurans**

Amir Miraj Ul Hussain Shah, Key Laboratory of Chinese Ministry of Agriculture for Nuclear-agricultural Sciences, China

Award and Closing Ceremony

B2B Meetings & Panel Discussions