



# International Experts Summit on Biomaterials and Regenerative Medicine



**JUNE 15-17, 2026**



**ROME, ITALY**

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**TENTATIVE PROGRAM**



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**BiomaterialsSummit-2026@iconicconferences.net**



**<https://www.biomaterials.theiconicmeetings.com/>**

## Day 1 (June 15, 2026)

08:30-09:30 Registrations in Main Hall

09:30-09:35 Introduction

09:35-10:00 Opening Ceremony

### Plenary session

10:00-10:40 **Title: Hydrogels in Periodontal and Craniofacial Regeneration: Current Applications and Next-Generation Biomaterials**

**David Mooney**, Harvard University, USA

10:40-11:20 **Speaker Slot available**

11:20-11:35

Refreshments Break@ Foyer

11:35-12:15 **Title: Exploring the piezoelectric phenomenon: From polymers to human tissues and advanced applications in tissue engineering**

**Rui L. Reis**, University of Minho, Portugal

12:15-12:30

Group Photo

12:30-13:30

Lunch Break

### Keynote Session

13:30-14:00 **Title: Neutrophil-based drug delivery systems**

**Hélder A. Santos**, University of Groningen, Netherlands

14:00-14:30

**Title: Mammalian mesenchymal stromal cells enhance zebrafish fin regeneration**

**Jerome Guiccheux**, University of Nantes, France

14:30-15:00 **Speaker Slot available**

### Featured Talks

15:00-15:20	<p><b>Title: Collagen fiber density observed in metastatic ovarian cancer promotes tumor cell adhesion</b></p>
	<p><b>Kristyn S. Masters, University of Colorado, USA</b></p>
15:20-15:40	<p><b>Title: Cembgn-Loaded Hydrogel Regulates Macrophage Polarization For Bone Repair</b></p>
	<p><b>Kai Zheng, Nanjing Medical University, China</b></p>
15:40-16:00	<p><b>Title: 3D printing of nanoparticle-containing scaffolds for cancer phototherapy, magnetic hyperthermia therapy, and tissue regeneration</b></p>
	<p><b>Rúben F. Pereira, University of Porto, Portugal</b></p>
16:00-16:20	<p><b>Speaker Slot available</b></p>
16:20-16:30	<p><b>Refreshments Break@ Foyer</b></p>
16:30-16:50	<p><b>Title: Nanostraw electroporation for temporal RNA sampling from living 2D and 3D cell culture systems</b></p>
	<p><b>Andy Tay, National University of Singapore, Singapore</b></p>
16:50-17:10	<p><b>Title: Scalable Fabrication of Mixed Solvent Phase Separation Cellulose Acetate Hemodialysis Membranes with Enhanced Performance and Blood Compatibility through Optimized Pore Architecture</b></p>
	<p><b>Jean-Pierre Benjamin Boross de Levay, King Abdullah University of Science and Technology , Saudi Arabia</b></p>
17:10-17:30	<p><b>Title: 3D Printing of Ultra-High-Resolution Biocompatible Metamaterials for Patient-Specific Bone Implants via <math>\mu</math>-DLP</b></p>
	<p><b>Milena Siapera, Imperial College London, UK</b></p>
17:30-17:50	<p><b>Speaker Slot available</b></p>
<p><b>Poster Presentations @ 17:50-19:00</b></p> <p><b>Speaker Slots available</b></p>	

Day 2 June 16, 2026

08:30-09:30 Registrations in Main Hall

Plenary Session

09:30-10:10 **Title: Black phosphorus in the regenerative medicine: a multi-organ perspective on disease modulation and tissue repair**

**Boccaccini, Aldo R.**, University of Erlangen-Nuremberg, Germany

10:10-10:50 **Speaker Slot available**

10:50-11:00 Refreshments Break@ Foyer

Keynote Session

11:00-11:30 **Title: Metal-directed nanomedicines for imaging-guided disease treatment**

**Mohammad-Ali Shahbazi**, University Medical Center Groningen, Netherlands

11:30-12:00 **Speaker Slot available**

Featured Talks

12:00-12:20 **Title: Composite Electrospun Fibers Containing Optimized B-and Cu-Doped Bioactive Glass Sol-Gel Particles for Potential Soft Tissue Engineering Applications**

**Liliana Liverani**, University of Erlangen-Nuremberg, Germany

12:20-12:40 **Title: Safety and Feasibility of Extended Platelet-Rich Fibrin as a Solo Barrier Membrane for Ridge Preservation: A Case Series**

**Nima Farshidfar**, University of Bern, Switzerland

12:40-13:00 **Title: Cell tumbling enhances stem cell differentiation in hydrogels via nuclear mechanotransductions**

**Pamela C Cai**, University of Chicago, USA

13:00-14:00	Group Photo & Lunch Break
14:00-14:20	<p><b>Title: Hypoxia mimetics restore bone biomineralisation in hyperglycaemic environments</b></p> <p><b>Gavin Jell</b>, University College London, UK</p>
14:20-14:40	<p><b>Title: Direct Cross-Linking of Cucurbit uril Pseudopolyrotaxanes to Prepare Slide-Ring Hydrogels</b></p> <p><b>Matthew J. Webber</b>, University of Notre Dame, USA</p>
<b>Speaker Slots available</b>	
Day 3 (June 17, 2026)	
08:30-09:30	Registrations in Main Hall
Plenary session	
09:30-10:10	<p><b>Title: Morphometric-Assisted Prediction of Developmental Toxicity Using Stem Cell-Based Embryo Models in Microwells</b></p> <p><b>Clemens A van Blitterswijk</b>, Maastricht University, Netherlands</p>
10:10-10:50	<b>Speaker Slot available</b>
10:50-11:10	Refreshments Break@ Foyer
Keynote session	
11:10-11:40	<p><b>Title: 3D Printing of Photocrosslinked Alginate Dialdehyde-Gelatin Hydrogels Reinforced with Cobalt-Containing Mesoporous Bioactive Glass Nanoparticles for Developing Skin Wound Dressings</b></p> <p><b>Rainer Detsch</b>, Universität Erlangen-Nürnberg, Germany</p>
11:40-12:10	<b>Speaker Slot available</b>
12:10-13:10	Group Photo & Lunch Break

## Featured Talks

13:10-13:30	<b>Title: Multiresponsive Nanorobots: Manipulation Strategies and Biomedical Applications</b>
13:30-13:50	<b>ZHANG Kejia</b> , University of Hong Kong, Hong Kong
13:50-14:10	<b>Title: miRNA modules for precise, tunable control of gene expression</b>
14:10-14:30	<b>Viviana Grdinaru</b> , California Institute of Technology, USA
14:30-14:50	<b>Title: Hydroxyapatite-Mediated Mechanical Modulation of GelMA Hydrogels Influences Osteogenic Differentiation of 3D Spheroids</b>
<b>Won-Gun Koh</b> , Yonsei University, South Korea	
<b>Title: Therapeutic reprogramming of glioblastoma phenotypic states using multifunctional heparin nanoparticles</b>	
<b>Jons Hilborn</b> , Uppsala University, Sweden	

Speaker Slots are available to 18:30