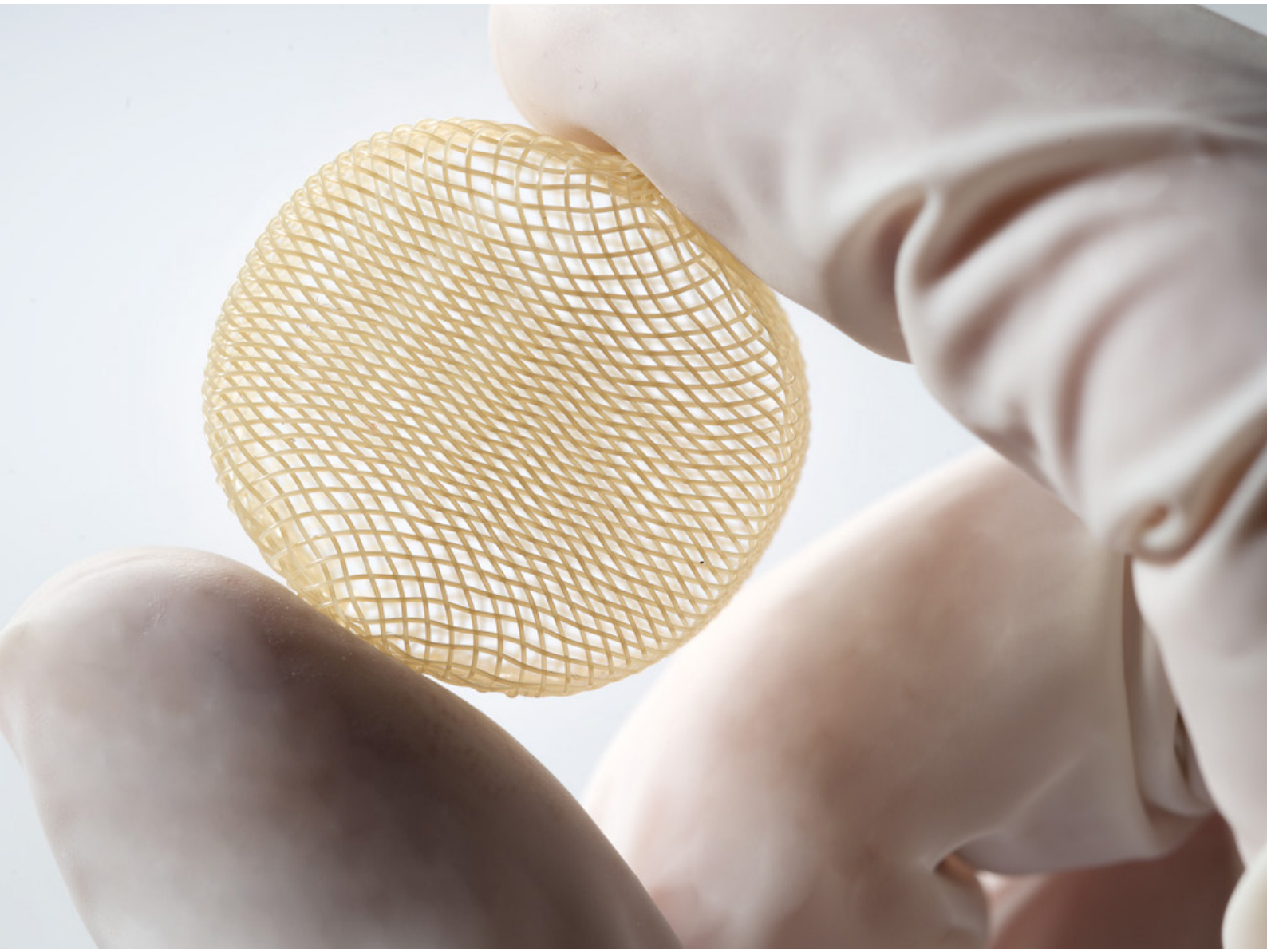
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914th Conference

Scientific Program

Proceedings of
2nd Annual Conference and Expo on

Biomaterials

March 27-28, 2017 Madrid, Spain



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Day 1 | March 27, 2017

08:00-09:00 Registrations

Avila

conferenceseries.com **09:00-09:15**

Opening Ceremony

Keynote Forum

09:15-09:20 Introduction

09:20-09:55 Title: Science and technology of multifunctional ultrananocrystalline diamond (UNCD™) coatings and applications to a new generation of implantable medical devices
Orlando Auciello, University of Texas at Dellas, USA

09:55-10:30 Title: An improved biofabrication process to enhance cell survival and distribution in bioprinted scaffolds for cartilage regeneration
Jose Manuel Baena, BRECA Health Care, Spain

Group Photo and Coffee Break: 10:30-10:45 @ Zamora

Sessions:

Tissue Engineering and Regenerative Medicine | 3D Printing of Biomaterials | Biomaterials Applications

Session Chair: Elisabeth Engel, University of Catalonia, Spain
Session Co-Chair: Miguel Angel Mateos Timoneda, CIBER-BBN, Spain

Session Introduction

10:45-11:10 Title: Tailoring microenvironments for *in situ* regeneration
Elisabeth Engel, University of Catalonia, Spain

11:10-11:35 Title: Biomaterials as a tool for teaching and learning training programs on surgery
Avelina Sotres Vega, National Institute of Respiratory Diseases, Mexico

11:35-12:00 Title: Design of a composite bioink for bioprinting applications
Miguel Angel Mateos Timoneda, CIBER-BBN, Spain

12:00-12:25 Title: Development of nanostructured biomaterials for bone and osteo-articular regeneration
Sybille Facca, University of Strasbourg, France

12:25-12:50 Title: Design and characterization of bioinks with hyaluronic acid for tissue and bone-3D bioprinting
Jose Manuel Baena, BRECA Health Care, Spain

Lunch Break: 12:50-13:50 @ Zamora

13:50-14:15 Title: The effect of scaffold topography on behavior of dental pulp stem cells
Deniz Yucel, Acıbadem University, Turkey

14:15-14:40 Title: Bio-inspired microstructures for directional liquid transport
Cristina Plamadeala, Johannes Kepler University Linz, Austria

Sessions:

Advanced Biomaterials | Biomaterials and Nanotechnology

Session Chair: Mónica López Fanarraga, Instituto de Investigación Sanitaria Valdecilla, Spain
Session Co-Chair: Isabel Rodriguez, IMDEA-Nanoscience, Spain

14:40-15:05 Title: Bio-degradable carbon nanotubes display intrinsic anti-tumoral effects
Mónica López Fanarraga, Instituto de Investigación Sanitaria Valdecilla, Spain

15:05-15:30 Title: Modulation of cell behavior on artificial materials by functional nano-topographies for applications in regenerative medicine
Isabel Rodriguez, IMDEA-Nanoscience, Spain

15:30-15:55 Title: Two stage, dual action cancer therapy with targeted porous silicon nanoparticles
Anna Cifuentes-Rius, Monash University, Australia

Networking & Refreshment: 15:55-16:10 @ Zamora

16:10-16:35 **Title: Metallic 3D-printing for orthopedic surgery: question of surface and cell compatibility**

Michaela Fousova, UCT Prague, Czech Republic

Video Presentation

16:35-17:00 **Title: Stages for pore formation during fabrication of porous materials**

Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

Day 2 | March 28, 2017

Avila

Keynote Forum

10:00-10:35 **Title: Fibrin interactions with matrix dependent cells: Applications and mechanism**

Raphael Gorodetsky, Hadassah Medical Centre, Israel

Sessions:

Polymer Biomaterials | Dental Biomaterials | Properties of Biomaterials

Session Chair: Thierry Delair, University of Lyon, France
Session Co-Chair: Jose Ramon Sarasua, University of the Basque Country, Spain

Session Introduction

10:35-11:00 **Title: Polyelectrolyte nano-complexes-Safe and efficient tools for the delivery of drugs or vaccine**

Thierry Delair, University of Lyon, France

Networking & Refreshment: 11:00-11:15 @ Zamora

11:15-11:40 **Title: Biodegradable polyesters for biomedical applications: Alternatives to polylactides and polylactones**

Jose Ramon Sarasua, University of the Basque Country, Spain

11:40-12:05 **Title: A novel design of low cost Mastitis level measurement based on electrical resistivity**

Ruchi Singla, Chandigarh Engineering College, India

12:05-12:30 **Title: An analysis of dental implant materials with an exclusive focus on Zirconia Vs Titanium**

Saurabh Gupta, Axiss Dental Pvt Ltd, India

12:30-12:55 **Title: The use of Silica nano-particles and microwave irradiation in dental PMMA repairs: Experimental investigation into the mechanical properties and dimensional stability of the repaired PMMA after aging**

Nour el Houda, University of Monastir, Tunisia

Lunch Break: 12:55-13:55 @ Zamora

Poster presentations 14:00-15:00

BM 01 **Title: Development of scaffolds for Regenerative Medicine**

Jose Manuel Baena, BRECA Health Care, Spain

BM 02 **Title: Novel extended-released polymeric matrix for Monascus fermented rice extract (RYR) delivery**

Marco Consumi, University of Siena, Italy

BM 03 **Title: Wear particle embedded 3D agarose gels for biocompatibility testing of orthopedic medical devices**

Richard Hall, University of Leeds, UK

BM 04 **Title: Dissolving microneedles: An attractive approach to transdermal drug delivery**

Nakeum Jang, Raphas Co. Ltd., KOREA (South)

BM 05	**Title: Novel resorbable and osteoconductive nurse'A phase-silicocarnotite scaffold induced bone formation** **Patricia Mazon Canales,** University of Alicante, Spain
BM 06	**Title: Evaluation of anti-biofilm properties of titanium nitride coatings. An *in vitro* study** **Anna Arvidsson,** Dentsply IH AB, Sweden
BM 07	**Title: Isolation of low volumes of silicon nitride particles from tissue** **Richard Hall,** University of Leeds, UK
BM 08	**Title: Dissolving microneedles: An attractive approach to transdermal drug delivery** **Jung Dong Kim,** Raphas Co. Ltd., KOREA(South)
BM 09	**Title: Multi-walled carbon nanotubes (MWCNTs) as cytotoxic drug delivery systems in the treatment of cancer** **Eloisa Gonzalez-Lavado,** Universidad de Cantabria-IDIVAL, Spain
BM 010	**Title: Nanogels preparation for controlled bioactives' delivery** **Iordana Neamtu,** PETRU PONI Institute of Macromolecular Chemistry, Romania

Poster presentations 15:10-16:00

BM 011	**Title: Co-immobilization of glucose oxidase and catalase on electrodes' surface: A multifunctional tool for biosensing applications** **Tiago Monteiro,** Universidade NOVA de Lisboa, Portugal
BM 012	**Title: New method for magnetic composite deposition onto a stent surface** **Aurica P Chiriac,** PETRU PONI Institute of Macromolecular Chemistry, Romania
BM 013	**Title: Evaluation of anti-biofilm properties of titanium nitride coatings. An *in vitro* study** **Ingela Mattisson,** Dentsply IH AB, Sweden
BM 014	**Title: Production and characterization of bioceramic nanopowders of biological origin** **Zeynep Orman,** Yildiz Technical University, Turkey
BM 015	**Title: Nanostructures based on poly(aspartic acid) and bovine albumine by self assembling procedure** **Loredana Elena Nita,** PETRU PONI Institute of Macromolecular Chemistry, Romania
BM 016	**Title: Formation and characterization of biomimetic Calcium phosphate coatings on nanostructured surfaces of anodized Titanium** **Shaghayegh Javadi,** Tehran university, Iran

Networking & Refreshment: 16:00-16:15 @ Zamora

Award and Closing Ceremony 16:15 onwards @ Avila

