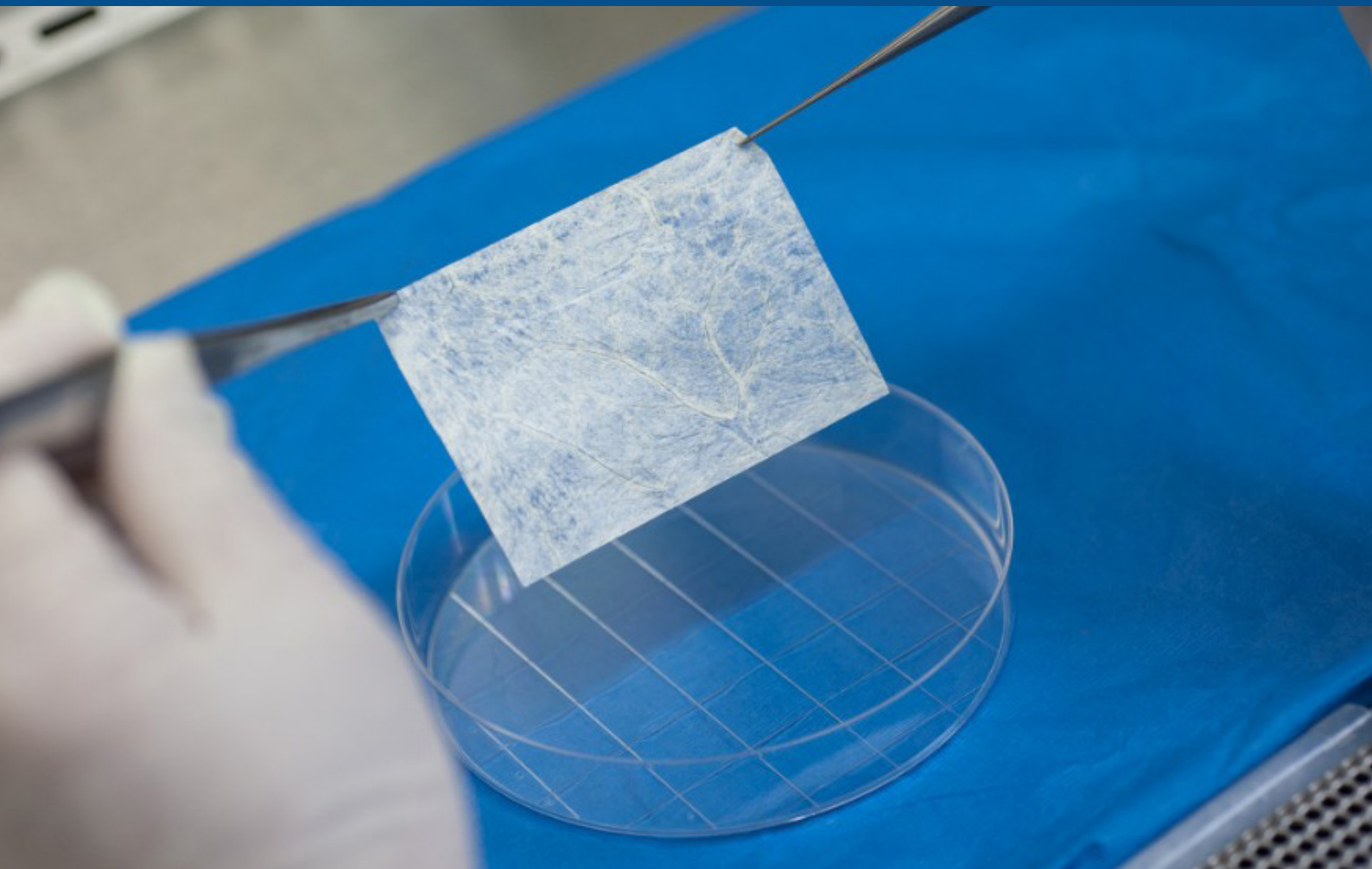


3<sup>rd</sup> Annual Conference and Expo on

# BIOMATERIALS

March 05-06, 2018 | Berlin, Germany



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# Opening Ceremony

## Keynote Forum

09:15-09:20 Introduction

**Title: Degradable metallic implants - assessment of the current situation**

09:20-09:50

Regine Willumeit-Römer, Helmholtz-Center Geesthacht, Germany

**Title: Bioinspired surfaces with gradient micro- and nanostructures and dynamic wettability**

09:50-10:20

Yongmei Zheng, Beihang University, China

## Group photo

Networking and Refreshments Break 10:20-10:35 @Foyer

10:35-11:05

**Title: Planar and curved self-assembled polymer multilayers - novel approaches for biomolecule immobilization and release on demand**

Dmitry Volodkin, Nottingham Trent University, UK

11:05-11:35

**Title: Nanoparticle modified bioactive polymeric and metallic implants**

Laszlo Sajti, Austrian Institute of Technology, Austria

Sessions: Advanced Materials | Tissue Engineering and Regenerative Medicine | Biomaterials and Nanotechnology

Session Chair: Sandra Elizabeth Rodil, Universidad Nacional Autónoma de México, México

Session Co-Chair: Je-Ken Chang, Kaohsiung Medical University, Taiwan

## Session Introduction

11:35-12:00

**Title: Weight loss, corrosion resistance and biocompatibility of titanium oxide coatings on magnesium alloys**

Sandra Elizabeth Rodil, Universidad Nacional Autónoma de México, México

12:00-12:25

**Title: Hyaluronan microenvironment enhances chondrogenic but prevents osteogenic effects of Simvastatin in adipose derived stem cells**

Je-Ken Chang, Kaohsiung Medical University, Taiwan

12:25-12:50

**Title: Preparation analysis of polymer colloid of xanthan gum-chitosan/nickel nanowires**

Hung-Bin Lee, Dayeh University, Taiwan

Lunch Break 12:50-13:50 @Theodor's Restaurant

13:50-14:15

**Title: Metallic biomaterials in endoprosthetics: the surface microstructure of retrieved hip and knee endoprostheses**

Monika Jenko, Institute of Metals and Technology, Slovenia

14:15-14:40

**Title: Development of HA-modified hydrogel for adipose derived stem cells based articular cartilage regeneration**

Mei-Ling Ho, Kaohsiung Medical University, Taiwan

14:40-15:00

**YRF: Understanding mechanical properties of electrospun networks: Analysis, tailoring and simulation**

Alexandre Morel, Empa, Switzerland

15:00-15:20

**YRF: Fabrication of thermo-responsive surfaces with nanocone array**

Qianqian Cui, Dalian University of Technology, China

## Panel Discussion 15:20-15:25

Sessions: Polymer Biomaterials | 3D printing of Biomaterials | Biomaterials in Delivery Systems

**Session Chair:** Maria Helena Gil, University of Coimbra, Portugal  
**Session Co-Chair:** Melinda Szalóki, University of Debrecen, Hungary

**Session Introduction**

**15:25-15:50** **Title: Polymeric materials for ophthalmological applications**  
Maria Helena Gil, University of Coimbra, Portugal

**Networking and Refreshments Break 15:50-16:05 @Foyer**

**16:05-16:30** **Title: Investigation of 3D printable biocompatible orthodontic polymers**  
Melinda Szalóki, University of Debrecen, Hungary

**16:30-16:55** **Title: Development of fluorescent water-soluble hyperbranched polymers in nanomaterials and biomaterials**

Tzong-Yuan Juang, China Medical University, Taiwan

**16:55-17:20** **Title: Biopolymer based films for wound dressings**  
Filipa A M M Goncalves, University of Coimbra, Portugal

**17:20-17:40** **YRF: b-cyclodextrin-linked chitosan/alginate compact polyelectrolyte complexes (CoPECS) as natural and functional biomaterials with intrinsic anti-inflammatory activity**  
Alexandre Hardy, Université de Strasbourg, France

**Video Presentation**

**17:40-18:05** **Title: Fabrication of porous materials**  
Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

**Day 2 March 06, 2018**

**Meeting Room: Bismarck**

**Keynote Forum**

**10:00-10:30** **Title: Biomaterials with unique properties for implant applications**  
Bernhard Mingler, Austrian Institute of Technology GmbH, Austria

**10:30-11:00** **Title: Carbonate apatite: Next generation artificial bone replacement**  
Kunio Ishikawa, Kyushu University, Japan

**Networking and Refreshments Break 11:00-11:15 @Foyer**

**11:15-11:45** **Title: Mechanical properties of new zirconia-based bioceramics with a metal-like behaviour**  
Helen Reveron, INSA de Lyon - Univ Lyon, France

**11:45-12:15** **Title: Natural/Synthetic Hybrid Biocomposites: Sustainable Materials**  
Mohamed Ansari M. Nainar, Universiti Tenaga Nasional, Malaysia

**Sessions: Dental Biomaterials | Biomaterials Applications | Properties of Biomaterials**

**Session Chair:** Vanja Kokol, University of Maribor, Slovenia  
**Session Co-Chair:** Jozsef Bako, University of Debrecen, Hungary

**Session Introduction**

**12:15-12:40** **Title: Biomimetic gelatine coating for less-biodegradable and surface bioactive Mg alloys**  
Vanja Kokol, University of Maribor, Slovenia

**12:40-13:05** **Title: Biodegradable polymer based electrospun nanofibers for dental applications**  
Jozsef Bako, University of Debrecen, Hungary

**Lunch Break 13:05-14:00 @Theodor's Restaurant**

**14:00-14:25** **Title: Stabilization of protein–drugs (EGF/TGF- $\beta$ /Bmp-2) by photoreactive natural polymer**  
Tae-il Son, Chung-Ang University, Republic of South Korea

**14:25-14:50** **Title: Photoactive type I (atelo) collagen as building block of advanced wound dressings**  
Giuseppe Tronci, University of Leeds, UK

- 14:50-15:15** **Title: Intracellular calcium ion signaling dependent on surface properties of biomaterials**  
**Susanne Staehlke**, University of Rostock, Germany  
**YRF: Multi-layer PVD coatings for longer lasting orthopaedic implants: A tribocorrosion evaluation**
- 15:15-15:35**  
**Raisa Chetcuti**, University of Malta, Malta  
**YRF: Assessment of Molecular Diffusion in Polyelectrolyte Multilayer Matrix**
- 15:35-15:55**  
**David Sustr**, Fraunhofer IZI-BB, Germany  
**YRF: Fabrication of calcium sulfate hemihydrate coated  $\beta$ -tricalcium phosphate through dissolution precipitation reaction**
- 15:55-16:15**  
**Eddy Eddy**, Kyushu University, Japan

**Networking and Refreshments Break 16:15-16:30 @Foyer**

**Poster Presentations: 16:30 onwards**

- BM-01** **Title: In vitro bioactivity of a biocomposite HA/ZrO<sub>2</sub> fabricated from bovine bone by high energy ball milling technique**  
**Fatemeh Mohammaddoost**, UPM, Malaysia
- BM-02** **Title: Biodegradability of an FeMn17 alloy**  
**Matjaž Godec**, Institute of Metals and Technology, Slovenia
- BM-03** **Title: Preparation of PVDF-g-PNIPAAm thermo-sensitive fiber membranes by electrostatic spinning and application in cultivation and harvest of cells**  
**Tianqing Liu**, Dalian University of Technology, China
- BM-04** **Title: Functionalized antimicrobial thin films for stainless steel implants coatings**  
**Laura Floroian**, Transilvania University of Brasov, Romania
- BM-05** **Title: Cytocompatibility and immunomodulatory properties of nanocellulose for bone-tissue regeneration**  
**Vanja Kokol**, University of Maribor, Slovenia
- BM-06** **Title: Preparation of novel dye materials and application with supercritical CO<sub>2</sub> medium : Environmentally and health-friendly system**  
**Young-A Son**, Chungnam National University, South Korea
- BM-07** **Title: Pegylated and amphiphilic Chitosan coated manganese ferrite nanoparticles for pH-sensitive delivery of methotrexate: synthesis and characterization**  
**Leila Karimi**, Islamic Azad University, IRAN

**Panel Discussion**

**Awards & Closing Ceremony**

**Bookmark your dates**

4<sup>th</sup> Annual Conference and Expo on

# Biomaterials

February 25-26, 2019 London, UK

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