



Annual Conference and Expo on

Biomaterials

March 14-16, 2016 London, UK



OMICS International Conferences



Day 1 Monday, March 14, 2016

08:30-09:30 Registrations Open

Madison



09:30-09:55 Opening Ceremony

| | official desires.com | | |
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| | Keynote Forum | | |
| 09:55-10:00 | Introduction | | |
| | Title: Bone graft substitute materials | | |
| 10:00-10:30 | Gordon Blunn, University College London, UK | | |
| | Title: Electron microscopic recording of ATP-induced myosin head power and recovery | | |
| 10.20 11.00 | strokes in hydrated muscle myosin filaments using a film-sealed hydration chamber | | |
| 10:30-11:00 | Harvo Sugi, Teikyo University, Japan | | |
| _ | Coffee Break @ Foyer Area 11:00-11:25 | | |
| | Session Introduction | | |
| Soccions: Tra | ack 2: Polymer Biomaterials | | |
| | ack 5: Biomaterials Applications | | |
| | ack 17: 3D Printing of Biomaterials | | |
| | ir: Andrew Lewis, Biocompatibles UK Ltd, UK | | |
| | Chair: George Youssef, San Diego State University, USA | | |
| | Title: Particulate embolization agents: Impact of biomaterial physicochemical properties on clinical performance | | |
| 11:25-11:50 | Andrew Lewis, Biocompatibles UK Ltd, UK | | |
| | Title: Uncovering the fundamentals behavior of annulus fibrosus using composite mechanics | | |
| 11.50-12:15 | George Youssef, San Diego State University, USA | | |
| | Title: A comparison of arterial distribution of bead prototypes in a rabbit renal artery embolization model | | |
| 12:15-12:40 | Hugh Kilpatrick, Biocompatibles UK Ltd, UK | | |
| | Title: Profiling physiochemical properties of drug-eluting bead emulsions: In vitro design evaluation | | |
| 12:40-13:05 | and clinical application | | |
| 12.10 10.00 | Marcus Caine, Biocompatibles UK Ltd, UK | | |
| | Title: Folate-conjugated star branched PLLA-b-(PEG), copolymer as nanocarrier for targeted delivery | | |
| 13:05-13:30 | Ing Hong Ooi, International Medical University, Malaysia | | |
| | Lunch Break @ Restaurant 13:30-14:20 | | |
| | Title: Thermoresponsive triblock copolymers as injectable gels | | |
| 14:20-14:45 | Theoni K Georgiou, Imperial College London, UK | | |
| | Title: Encapsulated mesenchymal stem cells promote local neoangiogenesis by a paracrine effect | | |
| 14:45-15:10 | Andrew Lewis, Biocompatibles UK Ltd, UK | | |
| | Title: Novel drug-eluting beads (DEBs) containing tyrosine kinase inhibitors (TKIs) for cancer therapy | | |
| 15:10-15:30 | Alice Hagen, Biocompatibles UK Ltd, UK | | |
| Sessions: Tro | ick 1: Advanced Biomaterials | | |
| | ack 3: Dental Biomaterials | | |
| Track 8: Biomaterials Engineering | | | |
| | ack 9: Biomaterials: Synthesis and Characterization | | |
| | ack 13: Biomaterials in Biological Engineering | | |
| Session Chair: Stella W Pang, City University of Hong Kong, Hong Kong | | | |
| 15:30-15:55 | Title: Promoting cell migration in confined channels with bends | | |
| | Stella W Pang, City University of Hong Kong, Hong Kong | | |
| | Coffee Break @ Foyer Area 15:55-16:20 | | |

| 16:45-17:10 | Title: Biocompatibility of new fiber-reinforced composite materials for craniofacial bone reconstruction | | |
|------------------|--|--|--|
| | Title: Biocompatibility of new fiber-reinforced composite materials for craniofacial bone reconstruction Horatiu Rotaru, Iuliu Hatieganu University of Medicine and Pharmacy, Romania | | |
| | Title: Human embryonic kidney cell behaviour on a new β -type titanium alloy by Alamar Blue assay Mehdi Razavi, Brunel University, UK | | |
| | Mehdi Razavi, Brunel University, UK | | |
| 17 10 17 25 | Title: From muscle balancing to capsular balancing MAASH technique for total hip arthroplasty (THA) | | |
| 17:10-17:35 | Felipe G. Delgado Lopez, Hospital Sant Celoni, Spain | | |
| Panel Discussion | | | |

| | Day 2 | | | |
|-------------------------|--|--|--|--|
| Tuesday, March 15, 2016 | | | | |
| | Madison | | | |
| Sessions: Tro | ick 7: Biomaterials and Nanotechnology | | | |
| Tro | ack 10: Tissue Engineering and Regenerative Medicine | | | |
| Session Chai | r: Anand Ramamurthi, Cleveland Clinic, USA | | | |
| Session Co-C | hair: Dora Alicia Cortes Hernandez, CINVESTAV-Mexico, USA | | | |
| 10:30-10:55 | Title: Cathepsin-K antibody-conjugated pro-matrix regenerative nanoparticles for abdominal aortic | | | |
| | aneurysm repair | | | |
| | Anand Ramamurthi, Cleveland Clinic, USA | | | |
| | Title: Synthesis and characterization of MnGaFe ₂ O ₄ magnetic nanoparticles for their potential use | | | |
| 10:55-11:20 | in biomedical applications | | | |
| | Dora Alicia Cortes Hernandez, CINVESTAV-Mexico, USA | | | |
| | Coffee Break @ Foyer Area 11:20-11:45 | | | |
| 11:45-12:10 | Title: Novel bioresorbable scaffolds for 3D cell culture and tissue repair | | | |
| | Donald A Wellings, SpheriTech Ltd, UK | | | |
| | Title: Innovative substituted hydroxyapatites and collagen scaffolds for enhanced adhesion, growth and | | | |
| 12:10-12:35 | proliferation of human osteoblasts in vitro | | | |
| | Maria Tomoaia Cotisel, Babes-Bolyai University, Romania | | | |
| 12:35-12:55 | Title: Production of a new bio-inspired neuro-regeneration structure | | | |
| | Esra Altun, Marmara University, Turkey | | | |
| 12:55-13:15 | Title: Dynamics of natural killer cells cytotoxicity in microwell arrays with connecting channels | | | |
| | Xu Yuanhao, City University of Hong Kong, Hong Kong | | | |
| | Lunch Break @ Restaurant 13:15-14:05 | | | |
| 14:05-14:25 | Title: Electrospinning of PVDF aligned fibers and their potential in neural tissue engineering | | | |
| | Luanda Chaves Vieira Lins, National Institute of Applied Sciences, France | | | |
| 14.25 14.45 | Title: The role of nanotopography on the design of an optimum nanohydroxyapatite/polyhedral oligomeric silsesquioxane poly(carbonate-urea) urethane nanocomposite scaffold for bone tissue engineering | | | |
| 14:25-14:45 | Shima Salmasi, University College London, UK | | | |
| | Title: Emergent design of an hierarchically structured bio-intelligent scaffold for vasculogenesis | | | |
| 14-45-15-10 | and accelerated healing | | | |
| | Julian F Dye, University of Oxford, UK | | | |
| Sessions: Tr | ack 4: Properties of Biomaterials | | | |
| | ack 11: Biomaterials for Therapeutic and Investigative Delivery | | | |
| Tr | ack 12: Biomaterials in Delivery Systems | | | |
| Session Chai | r: Xiaohui Zhang, Lehigh University, USA | | | |
| 15:10-15:35 | Title: Biomechanical characterization of Von Willebrand factor – A giant multimeric plasma protein | | | |
| 15:10-15:35 | Xiaohui Zhang, Lehigh University, USA | | | |
| 15:35-16:00 | Title: In vitro methods for evaluation of novel radiopaque embolic flow properties | | | |
| 15:55-16:00 | Marcus Caine, Biocompatibles UK Ltd, UK | | | |
| 16:00-16:20 | Title: Novel method for the evaluation of drug release from drug-eluting beads | | | |
| | Tanya Sian Swaine, Biocompatibles UK Ltd, UK | | | |
| 16:20-16:40 | Title: Synthesis and characterization of Y ₂ O ₃ : Tm ³⁺ ,Yb ³⁺ upconversion nanoparticles for bioimaging | | | |
| | Adrine Malek Khachatourian, KTH - Royal Institute of Technology, Sweden | | | |

| | Coffee Break @ Foyer Area 16:40-17:05 | |
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| | Poster Presentations @ Madison 16:40-17:05 | |
| BM-01 | Title: Thermo-responsive ABC triblock terpolymers for 3D printing | |
| | Anna Constantinou, Imperial College London, UK | |
| BM-02 | Title: Strategy for polymer network preparation and ensuring intramolecular conditions for further coupling applications | |
| | Aurica P Chiriac, Petru Poni Institute of Macromolecular Chemistry, Romania | |
| BM-03 | Title: Preparation of a new drug delivery carrier based on hydrogels of hyaluronic acid crosslinked with poly(itaconic anhydride-co-3, 9-divinyl-2, 4, 8, 10-dioxaspiro (5.5) undecane) copolymers | |
| | Aurica P Chiriac, Petru Poni Institute of Macromolecular Chemistry, Romania | |
| BM-04 | Title: Silibinin-conjugated graphene and hyaluronic acid platforms for osteosarcoma targeting | |
| | Giulia Neri, University of Messina, Italy | |
| BM-05 | Title: Densified titanium implants embedded with BMP-2 | |
| | Hyun-Do Jung, Korea Institute of Industrial Technology, Korea | |
| BM-06 | Title: Functionalized copolymer matrix based on poly(maleic anhydride-co-3, 9-divinyl-2, 4, 8, | |
| | 10-tetraoxaspiro (5.5) undecane) with potential biomedical applications | |
| | Iordana Neamtu, Petru Poni Institute of Macromolecular Chemistry, Romania | |
| BM-07 | Title: Production of the polyurethane/zeolite nanocomposites with electrospinning method for biomedical engineering applications | |
| | Mehmet Onur Aydogdu, Marmara University, Turkey | |
| BM-08 | Title: Biocompatible surgical meshes from de-cellularized amniotic membrane and polyurethane Yabin Zhu, Ningbo University, China | |
| BM-09 | Title: Dynamic freeze casting using titanium (Ti) powders for producing porous Ti | |
| | Hyun-Do Jung, Korea Institute of Industrial Technology, Korea | |
| | Title: Osteogenic potential of ALLOB® combined with bioceramics in spinal fusion | |
| BM-10 | Sandra Pietri, Bone Therapeutics, Belgium | |
| | Title: In vitro characterisation method for comparative evaluation of drug loaded embolic distal perfusion | |
| BM-11 | Marcus Caine, Biocompatibles UK Ltd, UK | |
| | Title: Hybrid calcium phosphate coatings for titanium implants | |
| BM-12 | Elena Kharapudchenko, National Research Tomsk Polytechnic University, Russian Federation | |
| | Title: Study the effect of pulsed e-beam on properties of biodegradable PLLA scaffolds prepared by | |
| BM-13 | different methods | |
| | Valeriya Kudryavtseva, National Research Tomsk Polytechnic University (TPU), Russia | |
| | Awards Ceremony | |
| | Panel Discussion | |

| Day 3 | |
|----------------------------------|---------------------------|
| Wednesday, March 16, 2016 | |
| Scientific Partnering Meetings | |
| | Coffee Break @ Foyer Area |
| Scientific Partnering Meetings | |
| | Lunch Break @ Restaurant |
| Thanks giving & Closing ceremony | |

Bookmark your dates

2nd Annual Conference and Expo on

Biomaterials

March 27-28, 2017 Madrid, Spain

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