

The 6th Asian Biomaterials Congress

Thiruvananthapuram, India - October 25-27, 2017

Poster Presentations

Session:1 October 25, 2017; 16:00 to 17:00

PP1-1	Abisegapriyan K.S.	Nanofibrous Polymer Laminated Magnesium Based Metallic Glass for Degradable Implant
PP1-2	Akihiro Nishiguchi	Surgical Sealants of Hydrophobically Modified, Alaska Pollock-Derived Gelatin with Enhanced Interfacial Strength
PP1-3	Akrity Anand	<i>In Situ</i> Synthesized Tib-Tin Reinforced Ti6Al4V Alloy Composites using Plasma Spraying
PP1-4	Amaravathy P.	Strontium Doped Zinc Calcium Phosphate Conversion Coating on Az31 Magnesium Alloys
PP1-5	Aswathi Gopalakrishnan	Fabrication of Cell Encapsulated Micropatterned Hydrogels of Defined Shapes
PP1-6	Aswathi R Hegde	Rosuvastatin Calcium-Loaded Pegylated-Chitosan Nanoparticles: Preparation and <i>In Vitro</i> and <i>In Vivo</i> Evaluations
PP1-7	Balasubramani V.	Performance of YSZ Coatings in The Presence of Fruit Extracts in the Oral Environment
PP1-8	Chelladurai Karthikeyan Balavigneswaran	Functional poly(D,L-Lactide) as Biomimetic Scaffolds for Improved Cell Adhesion and Proliferation
PP1-9	Bridget Jeyatha W.	Effect of Shell Nacre on Physico-Mechanical Properties of Inorganic-Organic Resin Composites
PP1-10	Dadi A. Srinivasa Rao	Surface Composition but not Bulk Composition Governs Cyto- and Hemotoxicity of Polymeric Core-Shell Nanoparticles
PP1-11	Kaushal Kumar Mahato	Thin Film Base Chitosan Lactate Added Polyvinyl Alcohol Composite Hydrogel for Controlled Release of Antimicrobial Drugs
PP1-12	Elna Paul Chalisserry	Isolation and Characterization of Nano-Crystalline Hydroxyapatite from <i>Scarus Collana</i>
PP1-13	Garima Lohiya	Physicochemical Changes in Plasma Membrane Mirror Nanoparticle-Mediated Cytotoxicity
PP1-14	Kaushita Banerjee	Formulation Optimization and Rheological Characterization of Polyglucoside-based Clove Oil Emulsion and Evaluation of its Anti-cariogenic Properties
PP1-15	Kishore Ginjupalli	Effect of Silver Nanoparticles of Varying Particle Size on the Antimicrobial Activity and Properties of Alginate Impression Material
PP1-16	Krishna Kumar	High-Altitude Herbal Mediated Silver Nanoparticles Preparation: A Future Prospective of Nano Disinfectant
PP1-17	Rubina Mathew Stephen	Solution to the Dilemma in Graft Selection: A Survey and Meta Analysis
PP1-18	Liz Hannah George	Aminoacid Inspired Supramolecular Assembled Structures of Silver for Bioimaging Applications
PP1-19	Magesh S.	Effect of RF Plasma Treatment (Ar/O ₂) on the Anti-Bacterial Activity of Biomedical Materials
PP1-20	Manjula P. M.	Controlled Cross Linking of Biomolecules for Regulating the Biomaterial Properties of Porcine Cholecyst-Derived Scaffold

PP1-21	Manu M. Joseph	Fabrication of Biogenic Nano-Chemobiotics by Silver Nanoparticle and Galactoxyloglucan for Efficient SER-Enabled Biodistribution in Solid Tumor
PP1-22	Navya Mathur	Minimally Invasive Injectable Bio-nanocomposite Hydrogel for Bone Tissue Regeneration
PP1-23	Nivedhitha J Narayanan	Functionalized Titanium and Its Biological Responses
PP1-24	Raagdeep Raj	Influence of Zirconium Concentration on Direct Hydroxyl Radical Scavenging Ability of Ceria-Zirconia ($Ce_xZr_{1-x}O_2$ ($0.4 \leq x \leq 0.8$)) Solid Solution
PP1-25	Ramya A. N.	Emergence of Gold-Mesoporous Silica Hybrid Nano-Theranostic: Dox-Encoded, Folate Targeted Chemotherapy with Modulation of SERS Finger printing for Apoptosis towards Tumor Eradication
PP1-26	Ravneet Kaur Dr.	Cryogenic Size Reduction of Bioapatite (BAP) from Pre-Sintered Scales of Silver Carp <i>Hypophthalmichthys Molitrix</i> (Cuvier and Valenciennes)
PP1-27	Reshma V.G.	Biointeractions of ZnO Nanoparticles with Human Embryonic Kidney (HEK 293) Cells
PP1-28	Reshmi Dey	Bioactivity Enhancement of Titanium by Recrystallization
PP1-29	Kaviya M.	Synthesis of Nano-Hydroxyapatite and Graphene Oxide for Drug Delivery Application
PP1-30	Rugmani Meenambal	Simultaneous Substitutions of Gd^{3+} and Dy^{3+} in $\beta-Ca_3(PO_4)_2$ as a Potential Multifunctional Bio-Probe
PP1-31	Shaikh Shazia Asger	Superhydrophilic Antibacterial Ti6Al4V Alloy by Femtosecond Laser Surface Treatment
PP1-32	Shanmuga Sharan	Evaluation of Physiochemical and Biological Properties of Gum Tragacanth Modified Graphene Oxide
PP1-33	Shashi Bhushan Arya	Electrochemical Impedance Spectroscopy and In-vitro Corrosion Behaviour of Porous Ti-20Nb-5Ag Alloy in Simulated Body Fluids
PP1-34	Sindhu Kumari B.	Synthesis, DNA Cleavage and Anticancer Studies of Highly Fluorescent Nano-Functionalized Ruthenium Complex
PP1-35	Sreelekha T.T.	Theranostic Applications of Galactoxyloglucan from Tamarind Seed Kernel
PP1-36	Thanka Rajan S.	Biofunctionalization of Titanium for Inhibition of Assimilation Using Zirconium Based Metallic Glass Coatings by Sputtering
PP1-37	Sunandan Dhar	Quantitative Estimation of Long-Range Interaction at Anionic Gold Nanoparticle-BSA
PP1-38	Takuya Mukaeda	Physical Properties and Effect of Glucose Concentration Responsive Injectable Hydrogel
PP1-39	Venkatesh V.	Innovative Approach to Develop 3D Homogeneous Composite Scaffold
PP1-40	Yogeshwar Chakrapani V.	Novel Dynamic Liquid Collector for Electrospinning 3D Structures towards Use in Craniofacial Critical Size Defects
PP1-41	Yohei Nakanishi	Unique Alignment of Bone Extracellular Matrix Orthogonal to Osteoblast Arrangement Controlled by Nanoscale Periodic Surface Topography
PP1-42	Yoshinori Arisaka	Surface-Tethering of Bone Morphogenetic Proteins onto Sulfonated Polyrotaxane Substrates
PP1-43	Agilan P.	Evaluation of In-Vitro Bioactivity and Corrosion Behavior of Polyaniline Incorporated Titania Nanotube Arrays for Biomedical Applications

PP1-44	Ananjana K.	Tunable Magnetic Nanostructures of Spions as Biofunctional Probes
PP1-45	Anil Chandra	Biocompatible Fluorescent Carbon Dots for Ratiometric Intracellular pH Sensing
PP1-46	Anoop S Nair	Dual Sensitive Gatekeepers for the Targeted Release of Chemotherapeutic Drugs from Mesoporous Silica Nanoparticles
PP1-47	Anusha Thampi V.V.	Fabrication of Titanium Boride-Bioactive Glass Functionally Graded Layers by Pulsed Laser Deposition for Biomedical Applications
PP1-48	Arun Kumar	Folic Acid and Trastuzumab Conjugated Redox Responsive Polymersomes for Breast Cancer Therapeutics
PP1-49	Seethalakshmi K.	Composite Nanofibrous Scaffolds using Polycaprolactone and Graphene by Electrospinning
PP1-50	Ashirbad Jana	A Novel Manufacturing Technique to Develop an Acetabular Cup made of UHMWPE
PP1-51	Dinesh Babu R	Emerging Applications of Nanobiomaterials in Dentistry and Orthopaedics

Session II: October 26, 2017; 16:00 to 17:00

PP2-1	Ajinkya A. Shitole	Bioengineered ZnO Nanoparticles Loaded Novel Antimicrobial Nanofibrous Membranes of Polycaprolactone/Nano Hydroxyapatite for Bone Tissue Regeneration
PP2-2	Akhila Rajan	Development of A Hydrogel Formulation from Cholecystic Extracellular Matrix for Biomedical Applications
PP2-3	Aman Mahajan	Long Term Presentation of TGF-B1 through Enzymatically Cross-Linked Injectable Hydrogels for Improved Chondrogenesis
PP2-4	Amit Chatterjee	Designing A Novel Cell Penetrating Peptide Nanofibers: Probing the Mechanism of Its Internalization in Corneal Epithelial Cells
PP2-5	Anamika Singh	Fabrication and Optimisation of Electrospun Polyurethane Nerve Conduit Filled with Aligned Chitosan-Gelatin cryogel Guidance Channel for Neural Tissue Engineering
PP2-6	Anitha Radhakrishnan	PEG Interpenetrated Alginate –Chitosan Hydrogel Scaffolds for Bone Tissue Engineering
PP2-7	Anoop Narayanan V. Dr.	Mango Leaf Extract Reduced Silver Nanorods Elicit Anticancer Activity on Colorectal Carcinoma and Breast Cancer Cell Lines
PP2-8	Ansar EB Dr.	Development of a Magnetic Levitated Three Dimensional Cell Culture Platform for Potential Biomedical Applications
PP2-9	Anuradha Kovilam	Mitochondrial Function of Tenocytes Defines the Healing Status of Injured Rotator Cuff Tendons
PP2-10	Arijit Bhattacharjee	Influence of Pore Alignment in Scaffolds on Chondrogenic Differentiation of Infrapatellar Fat Pad Derived Mesenchymal Stromal Cells
PP2-11	Arijit Bhattacharjee	Combination of Pro-Anabolic and Anti-Catabolic Factors Ameliorates Osteoarthritis in Cytokine-Induced Post-Traumatic Osteoarthritis Explant Model
PP2-12	Aruja Rustagi	Decellularized Caprine Liver Extracellular Matrix as a Scaffold for Development of Vascularized Liver Tissue Construct
PP2-13	Arun Gopinath	High-Strength Collagen-Hydroxyapatite Composites by a Simple Compression Molding Device for Bone Regeneration Applications
PP2-14	R. Ashvin	<i>In Situ</i> Simvastatin Incorporated Oxidized Alginate-Gelatin/Nano

		Whitlockite Composite Hydrogel for Cranial Bone Repair
PP2-15	Aswathy M.R	Development of Alginate Dialdehyde (ADA) and Gelatin Substrates with Tunable Elastic Modulus to Study Cell Mechanobiology in Muscle Cells
PP2-16	Athira J Nair Delma d'cruz	Accelerated Bone Regeneration in Critical Calvarial Defect by Controlled Delivery of Insulin from Scaffold
PP2-17	B N Singh	Silk Fibroin Based Composite Biomimetic Nanofibrous Artificial Extracellular Matrices for Bone Tissue Engineering Application
PP2-18	Chandra Khatua	Charge Generating Calcium Sulfate Based Composites for Bone Regeneration
PP2-19	Deepa K. Raj	Bio-Functionalized Thermo-Responsive Polymer for Corneal Tissue Engineering
PP2-20	Deepthi Sankar	Functionally and Topographically Tailored Poly(Caprolactone)/Collagen Fibrous Scaffolds for Tendon Tissue Engineering
PP2-21	Dewi Sukmawati	The Healing Effect of Mesenchymal Stem Cell-Conditioned Medium on Burn Wound Model
PP2-22	Dhivyaa Anandan	Polymeric Scaffold as Bioengineered Cardiac Patch
PP2-23	Divya V. Nair	Injectable Oxidized Alginate-ECM-Whitlockite Nanoparticle Hydrogel System for Cranial Bone Defects
PP2-24	Gajanan Kashinathrao Arbade	Herbally Derived Polycaprolactone Nanofiber Scaffolds for Antibacterial and Tissue Engineering Applications
PP2-25	Janani R	Bioinformatics Analyses on A Novel Gene on Human Chromosome 22 (<i>MIOX/KSP32</i>), A Key Biomarker for Acute Kidney Injury
PP2-26	Jissy Joseph	In Vitro Cytotoxicity Evaluation of Scaffolds for Bone Tissue Engineering
PP2-27	Joseph Christakiran M.	Hierarchically Structured Electrospun Silk-Bioactive Glass Composites for Osteochondral Interface Tissue Engineering
PP2-28	Kapender Phogat	Nano-Cellulose Derived Bio-Nanocomposite Hydrogel as Injectable Bone Scaffold
PP2-29	P.Kishore Kumar	Nano-Hydroxyapatite Based Patient Specific Porous Scaffold for Bone Regeneration Using 3D Printing and Open Cell Foam
PP2-30	Megha Satpathy	Assessing Cell-Mediated Therapeutic Angiogenesis by using 3D Cell Aggregates for Cardiac Repair
PP2-31	Eva C. Das	Bioactive Calcium Sulfate for Periodontal Regeneration: <i>In Vitro</i> Cell Interaction Study
PP2-32	Arnab Sarmah	Preparation and Rheological Characterization of Thermally Responsive Bio-Nano-Composite Hydrogels Based Injecatable Orthopedic Scaffolds
PP2-33	Jincy Joy	Hybrid Trilayered Tubular Electrospun Vascular Graft based on Gelatin for Small Diameter Blood Vessel Regeneration
PP2-34	Kenichi Nagase	Thermoresponsive Polymer Modified Nanoimprint Substrates for Cell Separation
PP2-35	Raeesa Sayyad	Silk Fibroin Based Porous Micro-Particle Scaffolds
PP2-36	Rahul V.G	Electrospinning of Polycaprolactone- Graphene Oxide Nanofibers with Simultaneous Cell Seeding- An Efficient Method for the Generation of Thicker Nanofibrous Scaffolds with Uniform Cell Distribution
PP2-37	Mukesh Kumar	Extraction and Characterization of Collagen from the Skin of Tilapia Fish and Its Application on Tissue Engineering
PP2-38	Pearlin	Small Molecule Mediated Osteogenic Differentiation of hMSCs for Bone Defect

PP2-39	Rebu Sundar	Phytochemical Incorporated Scaffolds for Tissue Engineering
PP2-40	Reshmi Raj	Cholecystic Extracellular Matrix-Polyethylene Glycol Hybrid Hydrogels for Skeletal Muscle Tissue Engineering
PP2-41	Sarada Prasanna Mallick	A Novel Approach on Cartilage Tissue Regeneration using Chitosan, Hyaluronic Acid and Poly (L-Lactide) Based Freeze Dried Scaffold
PP2-42	Shruthy Kuttappan	BMP2 Expressing Mesenchymal Stem Cells on Composite Scaffolds for Enhanced Bone Regeneration in Segmental Defects
PP2-43	Smita Patil	Spatially Controlled Functional Group Grafting of Silk Films to Induce Osteogenic and Chondrogenic Differentiation of Human Mesenchymal Stem Cells
PP2-44	M. Sriram	Co-Culture of Infrapatellar Fat Pad-Derived Mesenchymal Stromal Cells and Articular Chondrocytes in Different Culture Formats for Cartilage Tissue Engineering
PP2-45	Seung Bae Ryu	Enhanced Cell Retention Rate and In Vivo Therapeutic Potential of MSCs using In Situ Forming Hydrogel
PP2-46	Sunaina Sapru	Indian Non-Mulberry Tasar Silk Sericin Based Hydrogels as Prospective Dermal Graft
PP2-47	Vignesh Raj Sivaperumal	Cuttle Fish Bone Derived Hybrid Composite Scaffolds for Bone Tissue Engineering
PP2-48	Treesa Joy	3D Printed Membrane Bags for Encapsulating Islet Clusters for Enhanced Islet Viability and Functionality for Pancreatic Islet Transplantation
PP2-49	Tarun Agarwal	Filter Paper-Based Bioactive Scaffolds for Bone Tissue Engineering Applications
PP2-50	Namasivaya Naveen S	Carbon Fiber Polyether-Etherketone Reinforced Polyvinyl Alcohol Composites For Bone Tissue Regeneration
PP2-51	Shikha Chawla	Silk for Medical Textiles and Tissue Engineering
PP2-52	Rishita Changede	Nanoclusters of Integrin serving as functional units of cell matrix adhesions are controlled by ligand geometry and ligand specificity.
PP2-53	Lopamudra Das Ghosh	Topography Driven Cardiac Commitment of Stem Cells via Epigenetic Modulation on 3D Nanofibrous Scaffolds

Session III: October 27, 2017; 13:30 to 14:30

PP3-1	Nadeem Siddiqui	Probing Chitosan Composite as Artificial Extra Cellular Matrix for Bone Tissue Defects
PP3-2	Namrata Baruah	A Non-Invasive Sustained Dual-Drug Delivery System for Endophthalmitis
PP3-3	Nancy D.	Electrochemical Behaviour of Double Layer Surface modified Cp-Ti as Biological Implants
PP3-4	Nandani Rai	<i>In vitro</i> and <i>In vivo</i> Studies on Nanoceria and Nanoceria Based Solid Solutions in Oxidative-Stress-Related Diseases: A Review
PP3-5	Pradeep Kumar S.S	Rapid Diagnostic Kit with antibiotic Sensitivity for Urinary Tract infection (UTI)
PP3-6	Priyadarsini S.	Creating microfluidic channels on paper using 3D printer for use as point of care analytical device
PP3-7	V. K. Rajan	<i>In Vivo</i> Efficacy of Antimicrobial Nanocomposite Bandages in Polymicrobes Infected Rat Wound Model for Treatment of Bacterial and Fungal Wounds Infections

PP3-8	Rajitha P	Efficacy, Toxicity and Bio-Distribution Studies of Methotrexate Loaded Chitin Nanogel for the Treatment of Psoriasis
PP3-9	Renju Radhakrishnan	Controlled Local Delivery of Insulin for Accelerated Wound Healing
PP3-10	Rasmi Ranjan Behera	Bioactivity and Biocompatibility of Laser Deposited Ca-P-TiO ₂ Functionally Graded Biocoating on Ti-6Al-4V Alloy for Orthopedic Applications
PP3-11	Remya N.S.	Practical Considerations in Toxicity Testing of Medical Devices
PP3-12	Resmi R	Alginate Dialdehyde-Gelatin Hydrogel for Meniscal Repair
PP3-13	Rupita Ghosh	A Machinable Bioceramic Development and Its Characterization using Beta-Tricalcium Phosphate and Lanthanum Phosphate for Biomedical Applications
PP3-14	Sahil Malhotra	Naturally Derived Nanoparticles for Biomedical Applications
PP3-15	Saliu Amolegbe	Effective Controlled Release OF MCM-41- Quinine Smart Drug (mQSD) against <i>P. berghei</i> NK65
PP3-16	Sandhya Murali	Fabrication of Sulfated Chitosan Nanoparticle for Delivering Antibiotic Drug for Infectious Disease
PP3-17	Giridharan Saranya	A Ratiometric Near-Infrared Fluorogen for the Real Time Visualization of Intracellular Redox Status during Apoptosis
PP3-18	Simi. V. S	Biocompatibility, Antibacterial activity and Electrochemical behaviour of Tunable Diameter Titania Nanotube Arrays for Biomedical Applications
PP3-19	Sonal Deshpande	PLK-1 Gene Knockdown using Polymeric Nanogels Exhibiting Enhanced Endosomal Escape Efficiency
PP3-20	Sonia Prabhakaran	Effective Cost Management of Breast Cancer Treatment: An Approach through Nanomedicine
PP3-21	Soumya S. J	Nanoparticle Conjugates for Detecting Hypoxia <i>In Vitro</i>
PP3-22	Sreeja C. Nair	Formulation and <i>in vitro</i> Evaluation of Phenytoin Sodium Loaded Nanolipid Carriers (NLCs) for Intranasal Delivery in Treating Acute Epileptic Seizure
PP3-23	Suhela Tyeb	Flexible Agar-Sericin Hydrogel Film Dressing for Chronic Wounds
PP3-24	Sumitha N.S.	Magnetic Chitosan Microspheres with Tunable Degree of Degradation for Cancer Therapy
PP3-25	Alvi S.B.	Hybrid Gold Nanoparticles For The Treatment Of Melanoma By Photo Thermal Therapy
PP3-26	Syed Douhath Yousuf	Comparative Expression Analysis of MCP-1 Gene with and Without Usage of Oral Contraceptive Pills (OCP's) in Women with PCOS using Real Time PCR
PP3-27	Thanka Rajan S.	Bioactivity of Ti with Sputtered Ti-Nb-Zr-Si Thin Film Metallic Glasses for Implants
PP3-28	Payal Mukherjee	Polyether Ether Ketone Reinforced Chitosan-Polyethylene Glycol Composites for Biomedical Applications
PP3-29	Udhaya Kumar S.	Novel Fibrous Collagen-Based Cream Accelerates Fibroblasts Growth for Wound Healing Applications: In Vitro and In Vivo Evaluation
PP3-30	Vartika Dhyani	Modifications of Silk Film for Enhanced Biological Applications
PP3-31	Vibin M.	Oral Delivery of Epigallocatechin-3-gallate (EGCG) <i>via</i> Food-grade Zein Nanoparticles for Anti-obesity Applications
PP3-32	Vignesh K.K.	<i>In Situ</i> Forming Antibacterial Chitin-Fibrin Nanocomposite Gel for Controlling Bleeding & Preventing Bacterial Infections in Mediastinitis

PP3-33	Vijay Shankar Kumawat	Nano-fluorcanasite Integrated Bioactive Bio-nanocomposite Bone Scaffold using a Combined Technique of Thermally Induced Phase Separation and Progen Leaching
PP3-34	Vineeth M Vijayan	Magneto-Fluorescent Nanogels as Multifunctional Carriers for Cancer Theranostics
PP3-35	Vivek Vinod	Surface-Associated GroEL2 Protein of Mycobacteria as a Potential Adhesin Molecule that Interact with Host LOX-1 Receptor
PP3-36	Vrinda S Kumar	Phenytoin Sodium Loaded Nanomicellar Suspension for the Treatment of Epilepsy
PP3-37	Yoonsung Song	Anti-FcγRI Antibody-Mediated siRNA Delivery System for Human Monocyte Gene Silencing
PP3-38	Yogeswaran Lokanathan	Fabrication of Artificial Human Respiratory Epithelium using Collagen Type I Hydrogel for Drug Testing and Treatment of Tracheal Injury
PP3-39	Gopendra Singh	Modified Chitosan-Poly Acrylic Acid Based Hydrogels for Topical Hemostasis
PP3-40	Goutam Thakur	Cross-linked Chitosan-PVA Composite Films for Wound Healing Management
PP3-41	Kalaiyaran Thiyagarajan	Development of Affordable Nanoparticles Embedded Paper Strips for Rapid and Robust On-Site Pathogen Detection
PP3-42	Dhanya C. S.	Improving the Physiological Stability of Curcumin: Curcumin-Silver Nanoparticles as an Efficient Therapeutic Agent
PP3-43	Madhumathi.K	Enhanced Bimodal CT/MRI Contrast Imaging by Ion Substituted Nanoapatite Bone Substitutes
PP3-44	Manasa Mohan A	Novel pH/reduction Responsive Graphene Oxide (GO) Carrier for Controlled and Targeted Delivery of Anticancer Drugs
PP3-45	Maneesha K. Suresh	Amidase as a Vaccine Candidate against <i>Staphylococcus</i>
PP3-46	Jayachandran Venkatesan	Preparation and Characterization of Chitosan-Fucoidan Coated Silver Nanoparticles for Biomedical Applications
PP3-47	Jiji Swaminathan	Chitin Nanocrystals Impregnated Bacterial Cellulose Nanocomposite for Wound Dressing Application
PP3-48	Balashanmugam Pannerselvam	<i>In Vitro</i> Cytotoxic Effect of Phytosynthesized Gold Nanoparticles on Skin Cancer Cells A375
PP3-49	Josna Joseph	Nano Curcumin Incorporated Hydroxyapatite- B Tri Calcium Phosphate Scaffolds for Tissue Engineering Applications
PP3-50	Arushi Mishra	Carboxymethyl-Chitosan as a second line of defence for local management of Osteomyelitis: Preliminary in vitro evaluation
PP3-51	Suguna Priyadarshini S.	Fabrication and Preliminary Evaluation of Bilayered Concentric Composite of Beta-Tri Calcium Phosphate/Chitosan for Sustained Antibiotic Delivery