

# 2<sup>nd</sup> Asian Biomaterials Congress – PROGRAMME

Friday 26 June 2009

9 Engineering Drive 1, Faculty of Engineering

- LT 7A Auditorium
- Seminar Rm 1
- Seminar Rm 2

07:30 – 08:30	<b>Registration &amp; Breakfast Net Working (EA Foyer)</b>	
	<b><u>Opening Ceremony</u></b>	
08:30 – 08:40	<b>Welcome Address by 2<sup>nd</sup> ABMC Conference Chairman Prof SH Teoh</b>	
08:40 – 08:50	<b>Welcome Address by President, Asian Biomaterials Federation, Prof T Okano</b>	
08:50 – 09:00	<b>Welcome Address By Dy Dean, Faculty of Engineering, National University of Singapore, Prof Lim SC</b>	
	<b><u>Session 1 – Advanced Biomaterials and Regenerative Medicine</u></b> <span style="float: right;">Session Chair: SH Teoh</span>	
09:00 – 09:30	<b>S1.1-KN: T Okano, Cell Sheet Tissue Engineering for Human Clinical Applications</b>	
09:30 – 10:00	<b>S1.2-KN: Jerry Chan, Fetal Mesenchymal Stem Cells for Bone Tissue Engineering:</b>	
10:00- 10:30	<b>Coffee Break / Posters Viewing (EA Foyer)</b>	
	<b><u>Session 2 – Bioactive Biomaterials</u></b> Session Chairs: Y Leng; N Blanchemain	<b><u>Session 3 – Advanced Scaffolds Development</u></b> Session Chair: N Kawazoe; M Wang
10:30 – 11:00	S2.1-IN: Leng Y, Characterization and In Vitro Antibacterial Activity Evaluation of Electrochemically Deposited Fluoridated Calcium Phosphate Thin Film	S3.1-IN: Wang M, The Composite and Hybridization Approach in Tissue Engineering Scaffold Development
11:00 – 11:30	S2.2-IN: Chai F, Prolonged Local Antibiotics Delivery from Cyclodextrin Polymers Functionalised Hydroxyapatite	S3.2-IN: Kawazoe N, Porous Scaffolds with Controlled Structures for Tissue Engineering
11:30 – 12:00	S2.3-IN: Blanchemain N, Vascular Prosthesis with in situ Sustained Antibacterial Activity : from Biomaterial to Device	S3.3-IN: Feinberg S, Computed Tomography-based Tissue-engineered Scaffolds in Craniomaxillofacial Surgery
12:00 – 12:15	S2.4-O:Teo YE, Drug Elution Characteristics Study of Gentamicin Sulfate Incorporated Polycaprolactone-Tricalcium Phosphate Scaffold	S3.4-O: Lee JW, Development of a Scaffold for Bone Tissue Regeneration that Releases BMP-2 Fabricated Using a Solid Freeform Fabrication Method
12:15 – 12:30		S3.5-O: Gao C, Composite PLLA/fibrin Gel Scaffolds Containing Functional Genes for Regulating the Differentiation of Stem Cells
12:30 – 13:30	<b>LUNCH / Posters Viewing (EA Foyer)</b>	
13.30 – 14.00	<b><u>Session 4 – Bio-Inspired Biomaterials</u></b> <span style="float: right;">Session Chair: T Okano</span> <b>S4.1-KN: Ritchie RO, Bio-Inspired Structural Materials</b>	
	<b><u>Session 5 – Bone Regeneration I</u></b> Session Chairs :RO Ritchie, M Kikuchi	<b><u>Session 6 – Biopolymers and Devices</u></b> Session Chairs: H Griesser, L Poole-Warren
14:00 – 14:30	S5.1-IN: Kikuchi M, Development of Artificial Bone with Bone-Like Nanostructure using Self-Organization of Hydroxyapatite and Collagen	S6.1-IN: L Poole-Warren, Bioactive Conducting Polymers for Enhanced Neural Cell Interaction with Electrode Coatings: Techniques and Tradeoffs
14:30 – 14:45	S5.2-O: Thian ES, Silicon-Substituted Hydroxyapatite Coating Enhances Surface Wettability on Titanium Substrate for Improved Cell Response	S6.2-O: Shin YM, A Novel Surface Modification Strategy for Biomedical Applications: Modulation of Cell Responses on the Gelatin Immobilized PLCL Nanofibrous Meshes Using Polydopamine as a Linker
14:45 – 15:00	S5.3-O:Yamamoto M, Cell Adhesion Peptide Gradient in a Three-dimensional Scaffold Directs Spatial Osteoblastic Differentiation of Mesenchymal Stem Cells	S6.3-O: Chong M, Effect of Architecture on the Properties of Microthin Polycaprolactone Films

15:00 - 15:15	S5.4-O: Lee K, Tissue Engineering Using rhBMP-2 Therapy for Bone Reconstruction: Comparative Analysis with DBM, Cortical Powder, Cortico-cancellous Powder, Cancellous Powder and Hydroxyapatite Coated TCP	S6.4-O: Ishihara K, Antithrombogenic Polymer Alloy with Well-defined Block-type Phospholipid Polymer and Segmented Polyurethane for Cardiovascular Medical Devices
15:15 - 15:30	S5.5-O: Kanokpanont S, In Vitro Biocompatibility of Thailand's Biomaterials for Bone Substitutes: A Comparison of Thai Silk Fibroin-based and Chitosan-based Materials	S6.5-O: Ohya Y, Biodegradable Shape-Memory Polymer Networks of Cross-linked Branched Oligo( $\epsilon$ -caprolactone) Exhibiting Sharp Temperature-Sensitivity
15:30 - 15:45	S5.6-O: Yin L, View of Micromechanical Behavior of Hydrated and Dehydrated Cortical Bone Tissues in Microindentation Using Confocal Laser Scanning Microscopy	S6.6-O: Griesser H, Poly-N-isopropyl Acrylamide Graft Coatings : Dependence of Properties on Microstructure
15:45 - 16:00	<b>Coffee Break / Posters Viewing (EA Foyer)</b>	
	<b><u>Session 7 – Biocompatibility and Cell Engineering</u></b> Session Chairs: CQ Chen, F Chai	<b><u>Session 8 – Cell-Biomaterials Interactions and Delivery</u></b> Session Chairs: XD Zhang, : N Kawazoe
16:00 - 16:30	S7.1-IN: Chen GQ, Biocompatibility of Polyhydroxyalkanoates and Related Mechanisms	S8.1-IN: Zhang XD, Induction of Chondrogenic Differentiation of MSCs by Collagen-based Gels
16:30 - 16:45	S7.2-O: Wen J, Charge Effects on the Cell Recognition of Functionalized Superparamagnetic Magnetite Nanoparticles	S8.2-O: Ji J, pH-Amplified Exponential Growth Multilayers for Surface-mediated Peptide Delivery into Cells
16:45 - 17:00	S7.3-O: Lee EH, Microcarrier for Human Mesenchymal Stem Cell Proliferation and Differentiation	S8.3-O: Li XH, Electrospun Core-sheath Ultrafine Fibers as Carriers for DNA Delivery System
17:00 - 17:15	S7.4-O: Bacakova L, Three Types of Micropatterned Surfaces for Regionally-Selective Cell Adhesion and Directed Cell Growth	S8.4-O: Gao CY, Self-assembled Multilayer Nanofilms and Microcapsules for Drug Loading and Cell Growth Factor Delivery
17:15 - 17:30	S7.5-O: Miskon A, Effect of Extracellular Matrix Components on Beating Behavior of Cardiomyocytes and Differentiation Behavior of Stem Cells in vitro	S8.5-O: He B, Novel Supramolecular Hydrogels for Drug Delivery
17:30 - 17:45	S7.6-O: Xia Y, Cell-Biomaterial Interaction Study on Different Chemically Modified Poly (L-Lactic Acid) Surface with Relatively Low Cell Seeding Density	S8.6-O: Li L, Novel Cationic Amino Acid-based Liposomes for Serum-enhanced Gene Delivery
17:45 - 18:00	S7.7-O: Tutak W, Toxicity Induced Enhanced Extracellular Matrix Production in Osteoblastic Cells Cultured on Single Walled Carbon Nanotube Networks	S8.7-O: Kim MS, Development of Functional Nanofibers for Controlled Release of Basic Fibroblast Growth Factor
18:00 - 18:15	S7.8-O: Wadbua P, Morphology and Biological Property of Electrospun Nanofibrous Scaffolds Using Heavy-Chain, Light-Chain and Mixture of Silk Fibroin	S8.8-O: Sieh S Implications of 3D Culture System for Study of Prostate Cancer Behaviour
19:30 - 20:00	<b>Welcome Reception (Atrium Ballroom, Holiday Inn Atrium)</b>	

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07:30 – 09:00	<b>Registration &amp; Breakfast Net Work (EA Foyer)</b>		
	<b>Session 9 – Tissue Engineering and Stem Cells</b>		Session Chairs: SH Teoh, HR Song
8.30 – 09.00	<b>S9.1-KN: Song HR, Advances in Long Bone Tissue Engineering</b>		
09:00 – 9:30”	<b>S9.2-KN: Tabata Y, Biomaterial Technology for Regeneration Therapy and Stem Cell Biology</b>		
9:30 – 10:00	<b>S9.3-KN: Hanry Yu, Biomaterials to Facilitate Controls of Cell-Matrix and Cell-Cell Interactions in Soft Tissue Construction</b>		
10:00- 10:30	<b>Coffee Break / Posters Viewing (EA Foyer)</b>		
	<b>Session 10 –Bio-carrier Devices</b> Session Chairs: K Itaka, J Chan	<b>Session 11 – Bioceramics</b> Session Chairs: M Kikuchi, ES Thian,	<b>Session 12 – Bone Regeneration II</b> Session Chairs: HR Song, JH Lee
10:30-10:45	S10.1-IN: Itaka K, Engineered Supra-Macromolecular Assemblies as Nanodevices for Gene and Nucleic Acid Delivery	S11.1-O: Kim SG, Achievement of Anti-septic Function of the Hydroxyapatite Coated Titanium Plate Linked with a Single Compound	S12.1-IN: Lee JH, Preparation and Characterization of PCL Scaffolds with Concentration Gradient of Growth Factors
10:45 – 11:00		S11.2-O: Xiao YM, Bioactivity and Cytocompatibility of Porous b-TCP Ceramics Combining with Icaritin	
11:00 – 11:15	S10.2-O: Tan TA, The CATS Biodevice Implant: Development of a Novel Concept and Biodevice for Cancer Treatment	S11.3-O: Wang KF, Study on Calcium Phosphate Precipitation with Proteins on Bioceramics in vitro	S12.2-O: Bae JH, Bone Regeneration using Bioabsorbable PCL-TCP (Polycaprolactone-Tricalcium phosphate) Scaffold in Micropig Medial Open Wedge High Tibial Osteotomy Model
11:15 – 11:30	S10.3-O: Ji J, Selective Cell Uptake of Phosphorylcholine Conjugated Gold Nanorods for Near-infrared Photothermal Cancer Therapy	S11.4-O: Nakamura M, Adhesion Morphology and Motility of Osteoblastic Cells Cultured on Polarized Hydroxyapatite	S12.3-O: Chun KW, Bone Regeneration of Polycaprolactone-Tricalcium Phosphate Scaffolds with Platelet Rich Plasma in Segmental Defect of Rabbit Model
11:30 – 11:45	S10.4-O: Yui N, Integrated System of Multifunctional Envelop-type Nano Device with Cytocleavable Polyrotaxane for Intranuclear DNA Release	S11.5-O: Chen XF, Morphological Control and in vitro Bioactivity of Nanoscale Bioactive Glasses	S12.4-O: Zhang ZY, Bioreactor Enhanced Cellular Scaffold Constructs for Rat Critical Sized Femoral Defect Healing
11.45 – 12:00	S10.5-O: Weil T, Tailored Dendritic and Protein-based Nanocarriers for Specific Cell Staining and Efficient Gene Delivery	S11.6-O: Bognalbal E, Modification of Properties of Plastic Denture Material by Reinforcement with Nanoparticles of CaCO <sub>3</sub> Derived from Seashells	S12.5-O: Abbah SA, Evaluation of a Polycaprolactone Based Bioresorbable Scaffold for Bone Regeneration at Load Bearing Sites
12:00 – 12:15	S10.6-O: Niu XF, Porous Poly(L-Lactic Acid) Scaffold Containing Chitosan Microspheres for Controlled Delivery of BMP-2-derived Synthetic Peptide	S11.7-O: Sopyan L, Protein Foaming-Consolidation Method: A Novel Method to Produce Porous Ceramics with Controllable Properties	S12.6-O: Lam XFC, Bioresorbable Composite PLDLLA/TCP Scaffolds for Bone Engineering: Mechanical and In Vitro Degradation Evaluations
12:15 -12:30	S10.7-O: Choi W, Temperature-Sensitive Pluronic-Based Nano-carriers Made by a Simple Photo-Polymerization	S11.8-O: Lee TY, In Vitro Evaluation of 10T1/2 Cells on Bioceramics and its Correlation with In Vivo Studies	S12.7-O: Grausova L, Influence of Boron-doped Nanocrystalline Diamond Films on the Osteoblast Growth and Differentiation
12:30 – 13:30	<b>LUNCH / Poster Viewing (EA Foyer)</b>		

13.30 – 14.00	<b>Session 13 - Nanoparticles for Cancer Treatment</b> <span style="float: right;">Session Chair: Harry Yu</span> <b>S13.1-KN: Prof Feng SS, Biomaterials for Nanomedicine: Nanoparticles of Biodegradable Polymers for Diagnosis and Treatment of Cancer</b>		
	<b>Session 14 – Tissue Engineering</b> Session Chairs: Kang IK, TF Xi	<b>Session 15 – Nano Fibres Tech</b> Session Chairs: Y Tabata, SS Feng	<b>Session 16 – Adv Biomaterials Eng</b> Session Chairs: Harry Yu, S Feinberg
14:00 – 14:15	S14.1-IN: Le AD, Engineering the Pathological Niche in the Generation of an Animal Disease Model	S15.1-O: Zhang YZ, Electrospun Poly(lactide/Silk Fibroin-Gelatin Composite Tubular Scaffold: Feasibility as a Tissue Engineering Blood Vessel	S16.1-O: Cooper-White JJ, Directing Osteogenic & Myogenic Differentiation of Human bmMSCs: Interplay of Stiffness & Adhesive Ligand Presentation
14:15 – 14:30		S15.2-O: Leong WS, Formation of 3-D Poly(caprolactone) Scaffold with Nanotopology using Electrospinning	S16.2-O: Lou X, Dynamic Mechanical Responses of PHEMA and PHEMA-TiO <sub>2</sub> Composite Hydrogels to the Change of Rheological Conditions
14:30 – 14:45	S14.2-IN: Kang IK, The Role of Silver Nanoparticles in Electrospun Nanofibrous Scaffolds for Tissue Engineering	S15.3-O: Pan ZJ, Mechanical Properties and Cell Proliferation of Continuous Electrospun Ornithotoxus huwenna Spidroin /PLLA Nanofiber Bundles	S16.3-O: Seo JH, Bioconjugation of Water-soluble Phospholipid Polymer with Protein for the Enhanced Conformation Recovery from Thermal Shock
14:45 – 15:00		S15.4-O: Hyunsun G, Preparation of Nanofibrous Scaffold Electrospun from Polycaprolactone and Single-walled Carbon Nanotube (SW-CNT) for Tissue Engineering	S16.4-O: Wu XJ, Synthesis of Poly(lactide) for Tissue Engineering: Tin versus Zirconium Initiator
15:00- 15:15	S14.3-IN: Xi TF, Distribution, Translocation and Accumulation of Silver Nanoparticles in Rats	S15.5-O: Yoon H, A New Drug Delivery System Consisted of Electrospun Micro/Nanofiber Mats	S16.5-O: Lin CJ, Surface Constructions of the Nano-Micro Nest-like CaP Structured Biomaterials on Ti Medical Alloys for Highly Improving their Biocompatibility
15:15 – 15:30		S15.6-O: Wang JN, Adhesion and Proliferation of SD Albino Rats Bone Marrow Mesenchymal Stem Cells on Regenerated Antheraea Yamamai/ Bombyx Mori Silk Fibroin Blend Films	S16.6-O: Lu XO, Biomedical Evaluation of Chitosan/Bovine Serum Albumin Composite Micropatterns
15.30 -15.45	S14.4-O: Leo HL, Computational Fluid Dynamic Study of a Stacked-Plate Bioartificial Liver Device		S16.7-O: Kirdsiri P, Effect of Organic Burnt-out Agents on Physico-chemical Properties of Porous Bioactive Glass-ceramics
15:45 – 16:00	S14.5-O: Lee JM, The Role of Dynamic Tensile Stimulation for Regeneration of Achilles Tendon		S16.8-O: Lee TY, The Effects of Induced Cancer Metastases on Bone Viscoelastic Properties in the Rat Model Using Nanoindentation
16:00 – 16:15	<b>Coffee Break / Posters Viewing (EA Foyer)</b>		
	<b>Session 17 – Metallic Biomaterials</b> Session Chairs: AD Lee, TY Lee		
16:15 – 16:30	S17.1-O: Fan HS, Osteoinductivity of Porous Titanium with H <sub>2</sub> O <sub>2</sub> /TaCl <sub>5</sub> Treatment		
16:30 – 16:45	S17.2-O: Qi M, Corrosion Kinetics and Mechanism of Mg Alloy in Cl <sup>-</sup> Contained Solution		
16:45 – 17:00	S17.3-O: Leng Y, Mg Substituted Hydroxyapatite: Synthesis, Characterization and ab initio Simulation		
17:00 – 17:15	S17.4-O: Younesi M, Development of Nickel Free Stainless Steel-hydroxyapatite New Bio-composites and Study of their Tribology in Ringer's Physiological Solution		
17:15 – 17:30	S17.5-O: Seifi M, Novel Titanium Nickel Shape Memory Alloy Foams for Bone Tissue Engineering		
17:30 – 17:45	S17.6-O: Sopyan L, Porous Magnesium Doped Biphasic Calcium Phosphate (BCP) Microcarriers: Effect of Magnesium Level on Cell Proliferation Performance		
17:45 – 18:00	S17.7-O: Rezvani A, Bioactive Surface Formation on Ti-6Al-4V ELI Alloy via Pack Siliconizing		
18:00 – 18:15	S17.8-O: Lu XO, Theoretical Study of Ca Adsorption on Titanium Oxide Surfaces		
17.00 – 19.00	<b>Asian Biomaterials Council Meeting (Board Rm)</b>		
19:30 – 22:30	<b>Banquet (Changi Rm, Holiday Inn Atrium)</b>		

**Posters Presentation, 26 June 2009, 10:00 to 17:00**

ABMC-1-01(P)	Yang	Y.	Tianjin Normal Univ	China	A Study of Cell Adhesion on Multi-wall Carbon Nanotube
ABMC-1-02(P)	Liu	Isaac	Keele Univ	UK	A New Indentation-Based Creep Test for Multi-scale Mechanical Characterization of Biological Membranes
ABMC-1-03(P)	Wu	Xujun	Univ of Bath	UK	Fabrication of Honeycomb-Structured Polylactide and Poly (lactide-co-glycolide) Films and Their Uses for Osteoblast-Like Cell Culture
ABMC-1-04(P)	Kobayashi	Jun	Tokyo Women's Med Univ	Japan	Rapid Prototyping of Micropatterned Cells and Microchannels by Maskless Photolithography
ABMC-1-05(P)	Zhong	Rui	Chinese Acad of Med Sc	China	Surface Functionalization and Characterization of Active Carbon Fiber as the Material for the Removal of Low-density lipoprotein
ABMC-1-06(P)	Tsuji	Hiroshi	Kyoto Univ	Japan	Minimum Line-Width on Silicone Rubber Modified by Carbon Negative-Ion Implantation for Self-Aligned Adhesion of Mesenchymal Stem Cells and Orientation Control of Nucleus
ABMC-1-07(P)	Han	Dong Keun	Korea Inst of Sci and Tech	S Korea	Specific Interaction of Cells with Biodegradable Polymers Containing Some Peptide Ligands for BioMed Applications
ABMC-1-08(P)	Lam	Christopher X. F.	Natl Univ of Spore	Spore	Control of Mechanical Properties of Rapid Prototyped Scaffolds by Varying Process Parameters
ABMC-1-09(P)	Lipik	Vitali	Nanyang Tech Univ	Spore	Synthesis of Diblocks Copolymers PCL-b-PLA and Optimization of its Mechanical Characteristics
ABMC-1-10(P)	Shen	Xinyu	Wuhan Univ	China	Hierarchical Fabrication of Homogeneous Hydroxyapatite/Collagen Nanocomposite and Nanocomposite Scaffold for BioMed Applications
ABMC-1-11(P)	Xie	Ruijuan	Soochow Univ	China	Preparation and Characterization of Silk Fibroin Microspheres
ABMC-1-12(P)	Jo	Jun-Ichiro	Kyoto Univ	Japan	Small Interfering RNA Complexed with Cationized Polysaccharide Modifies Differentiation Direction of Bone Marrow-derived Mesenchymal Stem Cells
ABMC-1-13(P)	Hsu	Po-Yen	Natl Chi Nan Univ	Taiwan	Observation of the Surface Morphology Changes Caused by Cell-Substrate Interactions of Human Non-Small Lung Cells and Lung Cancer Cells Cultured on 3-aminopropyltriethoxysilane Modified Silicon Dioxide Surface
ABMC-1-14(P)	Akiyama	Shota	Kansai Univ	Japan	Preparation of Stereocomplex from Enantiomeric Mixture Polylactide-grafted Polyrotaxanes as Biodegradable Supramolecular Biomaterials
ABMC-1-15(P)	Sakaue	Hiroshi	Kansai Univ	Japan	Preparation of Biodegradable Polyrotaxane Nano-aggregates Consisting of Amphiphilic PEG-poly(lactide) Block Copolymer and $\alpha$ -Cyclodextrins
ABMC-1-16(P)	Sommani	Piya-nuch	Kyoto Univ	Japan	Mesenchymal Stem Cell Patterning and Its Differentiation into Neuron on Silicone Rubber Modified by Carbon Negative-Ion Implantation
ABMC-1-17(P)	Kawakami	Hiro-yoshi	Tokyo Metropolitan Univ	Japan	Preparation of Liposomes Retaining SOD Mimic for Brain Targeting
ABMC-1-18(P)	Tank	Kash-mira	Saurashtra Univ	India	Synthesis of Cobalt Doped Hydroxyapatite Nano-particles
ABMC-1-19(P)	Shin	Hojoon	Japan Adv Inst of Sci and Tech	S Korea	Preparation of Polyrotaxane Hydrogels Based on Water-soluble Hydrolyzable Polyrotaxane
ABMC-1-20(P)	Jung	Hong-Hee	NEON Med	S Korea	Porous Poly (lactic-co-glycolic acid) Microsphere Loaded Demineralized Bone Matrix Particles for Bone Tissue Engineering
ABMC-1-21(P)	Jung	Hong-Hee	NEON Med	S Korea	Non-Degradable Porous PVA Hydrogel for Articular Cartilage Replacement
ABMC-1-22(P)	Lee	Yong-Keun	Yonsei Univ College of Dentistry	S Korea	Injectable Bone Substitute Composed of PLGA/HA Composite Microspheres Containing Antibiotics
ABMC-1-23(P)	Han	Dong-Wook	Pusan Natl Univ	S Korea	Effects of Human Osteoblast Culture on Biomechanical Properties of Porous Bioceramic Scaffold according to Cell-Seeding Methods
ABMC-1-24(P)	Han	Dong-Wook	Pusan Natl Univ	S Korea	Biological Safety Evaluations of Silver Nanoparticles with Anti-microbial Activity
ABMC-1-25(P)	Causa	Filippo	Univ "Magna Graecia"	Italy	Surface Conjugation of Bioactive Peptide Sequences on a Polyester Scaffold for Tissue Engineering
ABMC-1-26(P)	Tian	Meng	Sichuan Univ	China	Low Molecular Weight Chitosans and Their Effect on Hepatocytes
ABMC-1-27(P)	Hildebrand	Hart-mut F.	Univ Lille Nord France	France	Characterization of Prosthetic Dental Components Showing Aging or Corrosion Problems
ABMC-1-28(P)	Park	Kyung Min	Ajou Univ	S Korea	<i>In Situ</i> Forming Hydrogels Composed of Tetrionic/Gelatin/Heparin via Enzymatic Reaction for Tissue Engineering and Drug Delivery
ABMC-1-29(P)	Baek	Jin-Young	Kyungpook Natl Univ	S Korea	Immobilized of Biomolecules on Hydroxyapatite/titania Composite Nanofibers by Using TEOS for BioMed Application

ABMC-1-30(P)	Saito	Yusuke	Japan Adv Inst of Sci and Tech	Japan	Effect of Ligand-conjugated Polyrotaxane on Multivalent Interaction Based on Supramolecular Structure
ABMC-1-31(P)	Hyun	Hoon	Japan Adv Inst of Sci and Tech	S Korea	Preparation of Azidated Polyrotaxane for Site-Controlled Modification Through Click Chemistry
ABMC-1-32(P)	Liu	Jiixin	Chinese Acad of Med Scs & Peking Union Med College	China	Platelet Adhesion on Grafted Polybutylene Terephthalate
ABMC-1-33(P)	Liu	Jiixin	Chinese Acad of Med Scs & Peking Union Med College	China	Preparation of Sulfonic Groups-immobilized Polybutylene Terephthalate and its Adsorption for Low-density Lipoprotein from Hyperlipemia Plasma
ABMC-1-34(P)	Lee	Keun Soo	Korea Bone Bank	S Korea	Comparative Analysis of Various Commercial Human Demineralized Bone Matrix
ABMC-1-35(P)	Leng	Xiang Yu	Natl Univ of SPore	SPore	Surface Modification of Poly ( $\epsilon$ - Caprolactone) Films by Plasma Engraftment of Hydrogels
ABMC-1-36(P)	Kimura	Tsu-yoshi	Tokyo Med and Dental Univ	Japan	Investigation of the Expression Behavior of the Pressure-compacted Plasmid DNA in Cultured Cell
ABMC-1-37(P)	Sun	Dong-Hao	Soochow Univ	China	The Physical Properties and Cell Compatibility of a Water-insoluble Silk Fibroin Film
ABMC-1-38(P)	Kim	Sung Soo	Korea Res Inst of Chemical Tech	S Korea	Polymeric Calcium Phosphate Cements Incorporated with Poly- $\gamma$ -glutamic Acid: Comparative Study of Poly- $\gamma$ -glutamic Acid and Citric Acid
ABMC-1-39(P)	Kim	Sung Soo	Korea Res Inst of Chem Tech	S Korea	Preparation and Characterization of Calcium Phosphate Cements Incorporated with Polyacids and Their Salts
ABMC-1-40(P)	Chumanee	Prissad-awan	Chulalongkorn Univ	Thailand	Cellulose Production by <i>Acetobacter Xylinum</i> from Cashewy Apple Juice
ABMC-1-41(P)	Kim	Eun Jung	Kyungpook Natl Univ	S Korea	Ultrasmall Polymer-coated Gold Nanoparticles for Molecular Imaging
ABMC-1-43(P)	Hyunsun	Go	Chosun Univ	S Korea	Micro/nanofibrous Biocomposite Electrospun from PCL and Silk Powder for Tissue Engineering
ABMC-1-44(P)	Park	Chan-Jin	Kangnung Natl Univ	S Korea	Cell Adhesion on Mg-ion Implanted Surface with Plasma Source Ion Implantation Method
ABMC-1-45(P)	Cho	Lee-Ra	Kangnung Natl Univ	S Korea	Bone Response of Mg-ion Implanted Clinical Implants with Plasma Source Ion Implantation Method
ABMC-1-46(P)	Kim	Dae-Gon	Kangnung Natl Univ	S Korea	Removal Torque and Histomorphometric Investigation of Surface Modified Commercial Implants: An Experimental Study in the Rabbit Tibia
ABMC-1-47(P)	Morcellet	Michel	Univ Lille Nord France	France	Immobilization of a Therapeutic Molecule onto Polyester Vascular Prostheses via Cold Plasma Treatments
ABMC-1-48(P)	Fukunaga	Michi-hiko	Kyushu Univ	Japan	The Simulation of Deep Squatting of Artificial Knee Joint using a 2D Knee Model

**Posters Presentation, 27 June 2009, 10:00 to 17:00**

ABMC-2-01(P)	Sakai	Shinji	Kyushu Univ	Japan	Development of Microcapsules for Producing Spherical Tissues of < 150 $\mu\text{m}$ in Size
ABMC-2-02(P)	Kim	Jong Young	Pohang Univ of Sci and Tech	S Korea	The Fabrication of SFF-based PCL/HA Scaffold Using Multi-head Deposition System for Bone Tissue Engineering
ABMC-2-03(P)	Jeong	Lim	Chungnam Natl Univ	S Korea	Effect of Silver Incorporation on Cellular Response of Silk Fibroin Nanofibers
ABMC-2-04(P)	Lee	Sang Joon	Chonnam Natl Univ Med School	S Korea	An Efficient Reverse Gene Transfer to Neonatal Cardiomyocytes
ABMC-2-05(P)	Lee	Sang Joon	Chonnam Natl Univ Med School	S Korea	Effect of Chemical Structure and Molecular Weight of Polyethylenimine Gene Carrier on the Transgene Expression by Reverse Transfection
ABMC-2-06(P)	Chung	Dong June	Sungkyunkwan Univ	S Korea	Natural Polymer Scaffolds Application for Peripheral Nerve Regeneration in Animal Model
ABMC-2-07(P)	Chung	Dong June	Sungkyunkwan Univ	S Korea	Characteristics of Electrospun Gelatin Nanofibers Crosslinked with Genipin
ABMC-2-08(P)	Chung	Dong June	Sungkyunkwan Univ	S Korea	Synthesis and Characterization of Poly(lactic acid-co-lysine) for Coating Material of Drug Eluting Stent
ABMC-2-09(P)	Chung	Dong June	Sungkyunkwan Univ	S Korea	pH-Responding Superabsorbent Hydrogel Synthesized by Bulk Polymerization
ABMC-2-10(P)	Huang	Meina	Chongqing Univ	China	Biodegradable and shape memory porous polyurethane scaffolds for the treatment of non-union
ABMC-2-10(P)	Lei	Yifeng	Southwest Jiaotong Univ	China	Effect of Annealing on Blood Compatibility of Titanium Oxide Films
ABMC-2-11(P)	Nguyen	Chau	Chonnam Natl Univ Med School	S Korea	Lymph node-targeted Magnetic Resonance Imaging of Superparamagnetic Iron Oxide nanoparticles by Macrophage-specific Uptake after Systemic Delivery
ABMC-2-12(P)	Hirano	Yos-hiaki	Kansai Univ	Japan	Synthesis and Evaluation of New Type Alginate Hydrogel Using Self-assembly $\beta$ -Sheet Peptides
ABMC-2-13(P)	Kwon	Oh Hyeong	Kumoh Natl Inst of Tech	S Korea	Fabrication and Characterization of Chitosan-Based Blend Nanofibers for BioMed Applications
ABMC-2-14(P)	Kwon	Oh Hyeong	Kumoh Natl Inst of Tech	S Korea	Chitosan/PCL Composite Nanofibers Containing Insulin for Wound Dressing Materials
ABMC-2-15(P)	Younesi	Mousa	Shiraz Univ	Iran	Producing of New Toughened PP/HA-LLDPE Ternary Bio-composite Using a Two-step Blending Method
ABMC-2-16(P)	Chang	Po-Chun	Univ of Michigan	United States	PDGF-B Gene Delivery Using Gene-Activated Matrix Accelerates Oral Implant Osseointegration
ABMC-2-17(P)	Leng	Y. X.	Southwest Jiaotong Univ	China	Investigation on Antithrombogenicity of Surface Biological Modified Tantalum Oxide Films
ABMC-2-18(P)	Leng	Y. X.	Southwest Jiaotong Univ	China	Deposition of Diamond-Like Carbon Films on UHMWPE Substrate and its Wear-resistance
ABMC-2-19(P)	Jo	Sun-Young	Korea Atomic Energy Research Inst	S Korea	Fabrication and Characterization of PCL-BCP-HPMC Hybrid Bone Graft Substitutes
ABMC-2-20(P)	Junying	Chen	Southwest Jiaotong Univ	China	Laminin Immobilization on Titanium Oxide Film Surface for Antithrombogenic and Enhanced Endothelial Cell Adhesion
ABMC-2-21(P)	Tran	Ngoc Quyen	Ajou Univ	S Korea	GRGDS-conjugated in situ Forming Supramolecular Hydrogels for Bioactive Injectable Scaffold
ABMC-2-22(P)	Nguyen	Dai Hai	Ajou Univ	North Korea	Disulfide Cross-linked Heparin-Pluronic Nanogels for Intracellular Protein Delivery
ABMC-2-23(P)	Wan	Guojiang	Southwest Jiaotong Univ	China	Anti-thrombogenic Behavior of $\text{TiO}_{2-x}$ Films: The Semiconductor Interfacial Electrochemical Perspective
ABMC-2-24(P)	Fengjuan	Jing	Southwest Jiaotong Univ	China	Endothelial Cells Adhesion Behavior of Gelatin-immobilized Plasma-polymerized Acrylic Acid Films on Medical Stainless Steel
ABMC-2-25(P)	Fengjuan	Jing	Southwest Jiaotong Univ	China	The Behavior of Titanium Oxide Films Prepared by High Power Pulsed Magnetron Sputtering
ABMC-2-26(P)	L	Quan-Li	Southwest Jiaotong Univ	China	Biospecific Recognition of Endothelial Progenitor Cells Surface Modification of Titanium for Endothelialization Inducing
ABMC-2-27(P)	Kang	Yun Ok	Chungnam Natl Univ	S Korea	Characterization of Poly(vinyl alcohol) Nanofibers Coated with Chitosan as Wound Dressing
ABMC-2-28(P)	Yoon	Young Il	Chungnam Natl Univ	S Korea	Fabrication and Characterization of poly(lactic acid) (PLA)-based nano-/microfibrous 3-D Scaffolds Using Conjugate Electrospinning
ABMC-2-29(P)	Cho	Byoung Min	Chungnam Natl Univ	S Korea	Surface Charge on Polycarbonate Mats Prepared by Electrospinning
ABMC-2-30(P)	Cheon	Ja Young	Chungnam Natl Univ	S Korea	Cellular Response on PVA Nanofibers Containing Silver Nanoparticles
ABMC-2-31(P)	Lee	Myung Sun	Chungnam Natl Univ	S Korea	Design of Superhydrophobic Nanofibrous Surfaces by Nature Inspired Tech (II)
ABMC-2-32(P)	Lee	So Young	Chungnam Natl Univ	S Korea	Characterization and Cell Behavior of PVA Nanofibers Coated with Biopolymers
ABMC-2-33(P)	Hattori	Ryuta	Daido Inst of Tech	Japan	Preliminary Study for Phoplasty for Vertebral Compression Fractures by Using Shape Memory Alloy

ABMC-2-34(P)	Tatematsu	Naohiro	Daido Inst of Tech	Japan	Hydroxyapatite Coating Formation on the Titanium Surface in vitro as Result of Ultrasound Waving
ABMC-2-35(P)	Martin	Richard	Univ of Kent	UK	A Study of the Formation of Amorphous Calcium Phosphate and Hydroxyapatite on Melt Quenched Bioglass <sup>®</sup> Using Surface Sensitive Shallow Angle X-ray Diffraction
ABMC-2-36(P)	Zhao	Ansha	Southwest Jiaotong Univ	China	The Effect of Physico-chemical Property of Titanium Dioxide on Plasma Protein Adsorption
ABMC-2-37(P)	Hamiane	Messaoud	Univ of Boumerdes	Algeria	Synthesis of a Bioceramic Materials based on Local Raw Material used in Stomatology
ABMC-2-38(P)	Park	Min-Jeong	Kyungpook Natl Univ	S Korea	Surface Modification of Magnetite Nanoparticles and Their Intracellular Uptake
ABMC-2-39(P)	Ma	Kun	Natl Univ of SPore	SPore	<i>In vitro</i> Differentiation of Bone Marrow-derived Mesenchymal Stem Cells into 3D Epidermis-like Cells in Organotypic Coculture
ABMC-2-40(P)	Wong	Wah Jie	Natl Univ of SPore	SPore	An Evaluation of PCL-TCP Scaffolds as Co-delivery Systems for Heparin and Bone Morphogenetic Protein (BMP-2)
ABMC-2-41(P)		Geeta	Indian Inst of Tech Delhi	India	Tissue Engineering of Blood Vessels Using PCL/PLCL based Braided Scaffold
ABMC-2-42(P)	Saxena	Shalini	Indian Inst of Tech Delhi	India	Nanoconstruction of Polypropylene Surface for Medical Application
ABMC-2-43(P)	Punantapong	Boonyong	King Mongkut's Univ of Tech N Bangkok	Thailand	Evolution of Solute Transport Involved Elastic Deformation in Saturated Porous Media
ABMC-2-44(P)	Ren	Li	South China Univ of Tech	China	Plasma-induced Graft Polymerization of Poly (Ethylene Glycol) Methyl Ether Methacrylate onto RGP Contact Lens
ABMC-2-45(P)	Widjaja	Leonardus Kresna	Nanyang Tech Univ	SPore	Synthesis of Diblocks and Triblocks Copolymers of $\epsilon$ -Caprolactone, L-Lactide, and Trimethylene Carbonate as Biodegradable Thermoplastic Elastomers
ABMC-2-46(P)	Park	Sung Yun	Natl Univ of SPore	SPore	The Use of Dynamic Mechanical Analysis to Measure the Viscoelastic Properties of Rat Bone
ABMC-2-47(P)	Saran	Kushagra	Natl Univ of SPore	SPore	Measurements of the Geometrical Variance in Viscoelastic Property along the Long Bone Using Resonant Ultrasound Spectroscopy
ABMC-2-48(P)	Yamaguchi	Jun	Japan Adv Inst of Sci and Tech	Japan	Dynamic Polymer Surface Based on Water-soluble Polyrotaxane