

BIOCERAMICS30 Poster Presentations

Presentation Time: 12:45 – 14:15

Odd Numbers: Saturday 27th October

Even Numbers: Sunday 28th October

P-01	#0005 <u>Andrei Victor Sandu</u> Surface influence on deposition of hydroxyapatite on zirconia
P-02	#0019 <u>Jing Luo</u> Template effecting on morphology of hydroxyapatite and template-mediated mechanism study
P-03	#0029 <u>Masanobu Kamitakahara</u> Evaluation of spherical porous hydroxyapatite/octacalcium phosphate granules loaded with ascorbic acid phosphate
P-04	#0033 <u>Suzuka Kojima</u> Avidin-immobilized peptide-calcium phosphate composites exhibiting high binding activity to biotin
P-05	#0036 <u>Yuki Suzuki</u> Isotope microscopic evaluation of osteogenesis penetration into hydrogel
P-06	#0050 <u>Ipek Karacan</u> Adhesion and scratch testing of antibiotic-loaded HAp/PLA biocomposite thin films on metallic implants
P-07	#0066 <u>Motoharu Hanasaki</u> Investigation of hydroxyapatite/poly(lactic acid) composite particles formation by emulsion diameter measurement
P-08	#0072 <u>Aoi Suzuki</u> Formation of calcium phosphate particles in the presence of hyaluronic acid and adsorption capacity for protein
P-09	#0073 <u>Shota Watanabe</u> Fabrication of hydroxyapatite/cellulose-fiber composite with sheet-like structure
P-10	#0074 <u>Toshiki Kudo</u> Fabrication and in vitro properties of starfish-derived porous β -tricalcium phosphate/gelatin composite
P-11	#0078 <u>Simone Sprio</u> Multi-doped biomimetic apatites as 3-D porous scaffolds obtained by low-temperature fabrication processes
P-12	#0090 <u>Takeshi Toshima</u> Morphology dependence of dicalcium phosphate dihydrate in the powder operability
P-13	#0092 <u>Naohiro Horiuchi</u> Plate-shaped hydroxyapatite synthesis using sebacic acid
P-14	#0110 <u>Fukue Nagata</u> In vitro cytotoxicity test of poly(lactic acid)/hydroxyapatite core-shell nanoparticles
P-15	#0115 <u>Elfira Megasari</u> The evaluation of setting time and FTIR spectroscopy of carbonate apatite cement as endodontic sealer
P-16	#0117 <u>Yuya Honda</u> Preparation and evaluation of spray-dried nano-hydroxyapatite/saccharide complex for oral administration
P-17	#0121 <u>Naren Raja</u> Low temperature fabrication of self-setting calcium phosphate scaffold using 3D printing technology
P-18	#0122 <u>Taishi Yokoi</u> Unique dicarboxylate ion incorporation in octacalcium phosphate

P-19	#0123 <u>Tomohiro Uchino</u> Biological evaluation of active ingredient controlled-release calcium phosphate cement
P-20	#0125 <u>Shuhei Yoshida</u> Fabrication of strontium-substituted hydroxyapatite ceramics preferred orientation to c-plane by reactive templated grain growth method
P-21	#0128 <u>Tomoyo Goto</u> Adsorption property of dye on needle-shaped hydroxyapatite synthesized by solvothermal treatment
P-22	#0143 <u>Karlis Gross</u> The influence of microstructure on the polarization of hydroxyapatite
P-23	#0144 <u>Nicola Doebelin</u> A novel validation concept for phase quantification by XRD
P-24	#0146 <u>Kyubin Byun</u> Fabrication of micro-sized calcium deficiency hydroxyapatite beads for bioapplications
P-25	#0149 <u>Hiroaki Komuro</u> Insight into cellular uptake mechanism and gene delivery of hydroxyapatite nanoparticles in cardiomyocytes
P-26	#0176 <u>Jonathan Li</u> Modification of continuous pore structures in α -tricalcium phosphate ceramics
P-27	#0013 <u>Akira Furukawa</u> CO ₂ laser bonding of silicate-substituted strontium apatite on PEEK and osteointegration on its surface
P-28	#0015 <u>Kazutaka Masamoto</u> Bioactivity of precursor of apatite on polyetheretherketone (PEEK)
P-29	#0027 <u>Mineo Hashizume</u> Hydroxyapatite deposition on poly(ether ether ketone) substrate surfaces utilizing solution processes
P-30	#0037 <u>Toshiki Miyazaki</u> Apatite formation on titania powders with different valences
P-31	#0063 <u>Tania Penafior Galindo</u> Particulate titania coating on poly(dimethylsiloxane) films for improving osteoconductive ability
P-32	#0113 <u>Takeshi Yabutsuka</u> Enzyme immobilization behavior on hydroxyapatite microcapsules under alkaline condition
P-33	#0138 <u>Akira Watazu</u> Titanium nitride film on titanium film by magnetron DC sputtering method
P-34	#0170 <u>Hiroaki Kanaoka</u> Synthesis of titanium phosphate compound on titanium substrate in reflux environment
P-35	#0173 <u>Misato Iwatsu</u> Visible light-induced antimicrobial activity of nitrogen-doped TiO ₂ on Ti treated with NaOH, hot water, and ammonia atmospheric heat treatment
P-36	#0177 <u>Ryoya Ito</u> Preparation of layered zirconium phosphates modified with phenyl groups and characteristics on incorporation of zinc ions
P-37	#0178 <u>Jin Nakamura</u> Synthesis of layered calcium silicate modified with amino- and phenyl groups with improved chemical stability
P-38	#0180 <u>Aurora Antoniac</u> Bioactive Co-Cr alloy obtained by incorporation of apatite nuclei after sandblasting process

P-39	#0016 <u>Takuya Kataoka</u> Synthesis of europium(iii) complex-based hydroxyapatite nanocrystals for biolabeling applications
P-40	#0032 <u>Katsuya Kato</u> Effect of different amino-functionalized mesoporous silica characteristics on nucleic acids selective adsorption
P-41	#0054 <u>Takamasa Kaneko</u> Morphological controlled synthesis of mesoporous silica particles
P-42	#0118 <u>Misaki Shibata</u> Magnetic property and heat-generatin ability of iron nitrides
P-43	#0077 <u>Daiheon Lee</u> Chitosan-catechol as a direct writable bioink under cell culture medium
P-44	#0096 <u>Elin Karlina</u> Mechanical properties of dental composite prototype with addition of acetone when preparing dental composite prototype on filler volume variations
P-45	#0139 <u>Hidemitsu Wakabayashi</u> VSC adsorptive property of zinc or iron oxide in comparison with that of layered double hydroxide containing zinc of iron
P-46	#0141 <u>Shinji Takemoto</u> Loading of fluvastatin onto gelatin-coated titanium implants
P-47	#0147 <u>Shigeaki Abe</u> Controlled drug release property of nano-porous silica micro particles and their cytocompatibility
P-48	#0154 <u>Veni Takarini</u> Dental porcelain surface from Sumatera natural sand characterization
P-49	#0159 <u>Atia Sidiqa</u> Synthesis and characterization of calcium hydroxide from Indonesian limestone as endodontic intra-canal medicament
P-50	#0004 <u>Petrica Vizureanu</u> Surface characterization of a new TiMoSi alloy with medical applications
P-51	#0007 <u>Bogdan Istrate</u> Structural characterization of Mg-0.5Ca-xY biodegradable alloys
P-52	#0008 <u>Corneliu Munteanu</u> Some tribological aspects of Mg-0.5Ca-xY biodegradable materials
P-53	#0012 <u>Seiji Yamaguchi</u> Iodine-loaded bioactive titanium metal and its alloys by chemical and heat treatment
P-54	#0058 <u>Masami Hashimoto</u> MC3T3-E1 cellular response and protein detection on surface potential-controlled TiO ₂ scale in serum-containing medium
P-55	#0065 <u>Shin Watanabe</u> Effect of crystalline calcium phosphate coating prepared in an aqueous solution on corrosion resistance of bioabsorbable magnesium alloy
P-56	#0076 <u>Masakazu Kawashita</u> Surface structure and in vitro apatite-forming ability of copper-, zinc-, or silver-doped titanium
P-57	#0009 <u>Elise Verron</u> Bone metastases treatment by a local delivery of gallium
P-58	#0084 <u>Khiam Aik Khor</u> Graphene reinforced titania as a keratoprosthesis skirt material

P-59	#0093 <u>Honglian Dai</u> Citrate-based biomaterials reducing the oxidative damage of stem cells via regulating cellular redox signaling pathways for oxidative stress-induced diseases therapy
P-60	#0130 <u>Yuta Yamada</u> Hydroxyapatite ceramics with preferred orientation to a-plane promote differentiation of mesenchymal stem cells into osteoblasts
P-61	#0035 <u>Miki Nagashima</u> Significant wound healing of simonkolleite powder using a pig model
P-62	#0057 <u>Reedwan Auniq</u> Phase separation effect in gelation of 53s 3DOM bioactive glass
P-63	#0148 <u>Sang-Won Park</u> Shear bond strength of zirconia to titanium implant using glass bonding
P-64	#0153 <u>Azadeh Rezaei</u> The role of Si in bone nodule formation
P-65	#0030 <u>Anne Klemm</u> Grain boundary corrosion in Sr and Ca doped TiO ₂ bone scaffolds
P-66	#0091 <u>Xuanming Lu</u> Synthesis of hierarchically porous MgO monoliths with a co-continuous structure
P-67	#0114 <u>Yosuke Hara</u> Iron(III) oxyhydroxide and oxide monoliths with controlled multiscale porosity: synthesis and their adsorption performance
P-68	#0169 <u>Kota Kaga</u> NH ₃ adsorption property of calcium phosphate granules with morphology originated from shell structure
P-69	#0017 <u>Shi Yun Tong</u> A novel mechanically blended biodegradable composite with antibacterial efficiency
P-70	#0061 <u>Takayuki Murakami</u> Evaluation of elution behavior of silver ions from silver containing carbonate hydroxyapatite composites
P-71	#0071 <u>Naoki Osada</u> Cotton-wool-like resorbable bone void fillers containing β -TCP and calcium carbonate particles
P-72	#0081 <u>Kaiying Wang</u> Optimum blend of poly(ϵ -caprolactone)/chitosan-based antibacterial composite
P-73	#0105 <u>Hasnat Zamin</u> Fabrication of bioactive polycaprolactone by incorporation of precursors of apatite
P-74	#0116 <u>Yeonjeong Noh</u> Fabrication of novel hemostatic film with oxidized cellulose and sugar-containing hydroxyapatite
P-75	#0135 <u>Yudai Sigarami</u> Rf-magnetron sputtered silica interlayer on β -TCP granules for mesoporous silica coating
P-76	#0167 <u>Seito Katayama</u> Shear-induced viscosity increase of silica nanoparticle suspensions in the presence of amphiphilic block copolymer
P-77	#0174 <u>Takuya Kurimoto</u> Evaluation for the mechanical properties of the PBS-HAp-AF composite
P-78	#0051 <u>Yuka Igarashi</u> Properties of starch-reinforced calcium phosphate bone paste incorporated with strontium ion

P-79	#0131 <u>Indra Primathena</u> Composition and functional groups evaluation of Indonesian portland cement as material for dental application
P-80	#0163 <u>Codruta Sarosi</u> The nanofiller effect on adhesion and shear bond strength of experimental graphene dental orthodontic cements
P-81	#0099 <u>Junji Ikeda</u> What should we focus on the evaluating durability of ceramic for artificial joint?
P-82	#0126 <u>Rina Ito</u> In vitro evaluations of cation-substituted hydroxyapatite ceramics fabricated by ultrasonic spray-pyrolysis process using osteoblasts
P-83	#0164 <u>Takahiro Shimizu</u> Kinetic control of silicic acid polycondensation and synthesis of porous silica by using peptides
P-84	#0168 <u>Kazuki Ojio</u> Synthesis of porous calcium phosphate using bacteria as a template
P-85	#0080 <u>Yuzuha Ichikawa</u> Effect of pore structure of apatite-fiber scaffold on differentiation of p19.CL6 cells into cardiomyocytes
P-86	#0151 <u>Youfa Wang</u> The synthesis and properties of PLGA/PRGD/ β -TCP porous composites
P-87	#0155 <u>Julia Rogowska-Tylman</u> Deposition of nanohydroxyapatite particles on electrospun fibers for tissue engineering
P-88	#0095 <u>Min-Hua Chen</u> Hafnium-doped hydroxyapatite nanoparticles with ionizing radiation for lung cancer treatment
P-89	#0098 <u>Ika Dewi Ana</u> Incorporation of protein ovalbumin into carbonate apatite
P-90	#0103 <u>Whuisu Shim</u> Formation of plant-inspired polyphenol complex for ophthalmic drugs
P-91	#0112 <u>Takayuki Terukina</u> Preparation of calcium phosphate coated simvastatin-loaded PLGA microspheres dispersed alginate hydrogel beads as a controlled drug delivery carrier
P-92	#0161 <u>Clementine Aubry</u> New strategy for introducing bioactive species in modified porous biphasic ceramic scaffold