The 67th General Session of the Japanese Society for Dental Materials and Devices (JSDMD)

April 16 (Saturday) - 17 (Sunday), 2016
• Centennial Hall Kyushu University School of Medicine
  3-1-1, Higashi-ku, Fukuoka, Japan

April 16 (Saturday)
• Hall A
  9:35 - 9:40 Opening Remark
  9:40 - 9:55 Young Investigator Award Challenge (Oral Session)
  10:00 - 11:00 General Presentation (Oral Session)
A - 1 Development of endodontic sealers with long-term antibacterial effects by application of CPC-loaded polymer particles
  ○ Kitagawa Haruaki, Kitagawa Ranna, Tsuboi Ririko, Takeda Kahoru, Sasaki Jun-ichi, Imazato Satoshi
  Osaka University
A - 2 A novel zirconia implant coating by zirconia bead
  ○ Valanezhad Alireza, Watanabe Ikuya
  Nagasaki University
A - 3 Efficacy of DNA/protamine multilayer coating on titanium implants on bone responses
  ○ Sakurai Toshitsugu, Hayakawa Tohru, Ohkubo Chikahiro
  Tsurumi University
A - 4 The effect of hierarchical titania with micro- and nano- surfaces on osteoblast behavior
  ○ Iwata Natsuko, Nozaki Kosuke, Yamashita Kimihiro, Miura Hiroyuki, Nagai Akiko
  Tokyo Medical and Dental University
A - 5 Laser treatment effectively reduces the bacterial adhesion on titanium implants
  ○ Chen Chun Ju, Ding Shinn Jy, Chen Chun Cheng
  Institute of Oral Science, Chung Shan Medical University, Taiwan

Hall A
14:00 - 15:00 Special Lecture
  Development of “Bio-3D Printer” for Tissue and Organ regeneration
  Koichi Nakayama
  Department of Regenerative Medicine and Biomedical Engineering
  Faculty of Medicine Saga University

15:45 - 16:30 General Presentation (Oral Session)
A - 6 Development of layered PLGA membranes for periodontal tissue regeneration
  ○ Yoshimoto Itsumi, Sasaki Jun-Ichi, Tsuboi Ririko, Ito Yoshihiro, Imazato Satoshi
  Osaka University
Effect of particle size of gold nanoparticles on MMP activity and cyto/genotoxicity
○Hashimoto Masanori¹, Kawakami Hayato¹, Kawai Koji², Imazato Satoshi¹
¹Osaka University, ²MIYOSHI OIL & FAT CO., LTD.

Surface modification of titanium for promoting cell scaffolding
○Sekine Kazumitsu, Naito Yoshihito, Hamada Kenichi
Tokushima University

General Presentation (Oral Session)

Microstructures and mechanical properties of experimental Ti-6Nb-4Cu, Ti-18Nb-2Cu, and Ti-24Nb-1Cu alloys
○Takahashi Masatoshi, Sato Kotaro, Sakatsume Hanako, Sasazaki Koji, Kanyi Mary, Takada Yuko
Tohoku University

Manufacturing of pure titanium denture base using impulsive hydraulic pressure
○Kani Kouki¹, Ikeda Akira²
¹IKK Dental Laboratory(Co.,Ltd.), ²Ikeda Seikou Co., Ltd.

Evaluation of metallic dental materials by accelerated dissolution test
○Tsutsumi Yusuke, Ashida Maki, Doi Hisashi, Hanawa Takao
Tokyo Medical and Dental University

April 17 (Saturday)

General Presentation (Poster Session)

Study on multi-mineral ion release from matrix of apatite-ionomer cement
○Shinonaga Yukari, Arita Kenji
Osaka Dental University

Shear Bond Strength of Experimental Resin-modified Glass Ionomer Cements for Filling to Bovine Dentin
○Shigeta Hirotaka, Nagasawa Yuko, Wada Kenichi, Hibino Yasushi, Matsumoto Ken-ichi, Awata Satoru, Omatsu Jun, Nakajima Hiroshi
Meikai University

Effect of storage condition on transparency of highly viscous conventional glass ionomers for filling
○Hibino Yasushi, Nagasawa Yuko, Shigeta Hirotaka, Awata Satoru, Matsumoto Ken-ichi, Omatsu Jun, Wada Ken-ichi, Nakajima Hiroshi
Meikai University

Dentin-inductive property of the modified MTA with improved handling characteristics
○Sakakibara Sayaka, Toshima Hirokazu, Saitoh Masato, Endo Kazuhiko
Health Sciences University of Hokkaido
Highly viscous glass-ionomer cement for filling: Interfacial gap-formation in Class I restoration and mechanical properties

Irie Masao, Tanaka Jiro, Matsumoto Takuya, Maruo Yukinori, Nishigawa Goro, Minagi Shogo, Takeda Hiroaki, Torii Yasuhiro, Yoshihara Kumiko, Nagaoka Noriyuki
Okayama University

Strengths and injectability on increase of powder/liquid ratio of mechano-chemically modified beta-TCP cement

Ida Yumika, Bae Jiyoung, Sekine Kazumitsu, Kawano Fumiaki, Hamada Kenichi
Tokushima University

Evaluation of bonding properties of new resin cement, G-CEM LinkForce to new glass ceramic, initial LiSi Press

Matsumoto Naofumi, Kumagai Tomohiro
GC Corporation

Evaluation of bonding properties of self-adhesive resin cement to new glass ceramic Initial LiSi Press

Sugawara Ayaka, Fukushima Syouichi, Kumagai Tomohiro
GC Corporation

Influence of adhesion properties after stored silane coupling agents

Ohashi Katsura, Yamaguchi Hiroaki, Miyake Kaori, Teranaka Ayako, Kameyama Yuka, Wada Yuki, Oshikawa Akihiro, Shimoyama Kazuo, Nihei Tomotaro
Kanagawa Dental University

The development of acrylamide monomer containing self-adhesive resin sealer

Yoshihara Kumiko¹, Nagaoka Noriyuki², Yoshida Yasuhiro²
¹Okayama University, ²Hokkaido University

Effect of different surface treatments of titanium on the adhesive strength of treated layer using epoxy stud pin

Suzue Masayoshi, Valanezhad Alireza, Shiraiishi Takanobu, Watanabe Ikuya
Nagasaki University

Influence of Ca(OH)₂-tREATED root canal dentin on the bond strength of resin cement

Someya Tomoko, Kinoshita Hideaki, Takimoto Shinji, Kawada Eiji
Tokyo Dental College

Study on performance of experimental resin cement

Nihei Tomotaro, Kunzelmann Karl-Heinz, Ohashi Katsura, Miyake Kaori, Yamaguchi Hiroaki, Teranaka Ayako, Kameyama Yuka, Wada Yuki, Oshikawa Akihiro, Tomiyama Kiyoshi, Shimoyama Kazuo, Suzuki Toshiyuki, Mukai Yoshiharu
¹Kanagawa Dental University, ²Dental School of LMU

Study on adhesive strength of zirconia between resin concrete using primer of silane coupling agent

Inoue Kazusa, Irie Masao, Okada Masahiro, Matsumoto Takuya
Okayama University
P-15 Effect of a functional monomer (MDP) on enamel bond durability of single-step self-etch adhesives

○Takamizawa Toshiki, Tsujimoto Akimasa, Shiratsuchi Kouji, Endo Hajime, Kawamoto Ryo, Tsubota Keishi, Miyazaki Masashi
Nihon University

P-16 The effect of light irradiation conditions for various types of core resin on bond strength to root canal dentin

○Niitsuma Akinori¹, Shinya Akikazu¹,², Shimizu Sakura¹, Kuroda Souiti¹, Gomi Harunori¹
¹Nippon Dental University, ²Univ. of Turku

P-17 Influence of Ceramic Surface Treatment on Bonding Characteristics of Resin Cements

○Takimoto Masayuki, Kurokawa Hiroyasu, Takenaka Hirotaka, Tamura Yukie, Rikuta Akitomo, Miyazaki Masashi
Nihon University

P-18 Effect of Surface Treatment on Bond Strength Between Zirconia and Composite Resin core

○Uno Mitsunori, Kawaki Harumi, Doi Yutaka, Kurachi Masakazu, Ishigami Gen
Asahi University

P-19 Thermochromism of restorative composite resins. Part3 Thermal dependence of CIEL*a*b* reflectance color values

○Arikawa Hiroyuki, Tsukada Gakuzi, Minesaki Yoshito, Kono Hiroshi, Kikuchi Masafumi
Kagoshima University

P-20 Inhibition of Streptococcus mutans with new composite resin iGOS

○Matsuura Ritaro¹, Kato Takahiro¹, Anraku Teruo¹, Yamamoto Tetsuya²
¹ Yamamoto Precious Metal Co., Ltd., ²Kochi University

P-21 Discoloration and microbial adherence of composite denture teeth materials containing of fluorinated polymer and nano silica filler

○Oike Kazuki, Fujii Kazuo, Kusakabe Syuusuke, Kotake Hirotomo, Tamaki Yukimiti, Hotta Masato
Asahi University

P-22 Influence of ethanol solution on fatigue strength of composite resin with hybrid cluster filler

○Sakaguchi Takuya¹, Nishikawa Izuru¹, Kato Takahiro², Anraku Teruo²
¹Osaka Institute of Technology University, ²Yamamoto Precious Metal Co., Ltd.

P-23 Application of composite resin to partial coverage crowns

○Yamase Masaru¹, Takahashi Hideto²
¹ The Nippon Dental University Hospital, ²Iogi Dental Clinic

P-24 Wear of composite resin to tooth enamel

○Tanaka Kensuke, Kinoshita Hideaki, Takemoto Shinji, Ohyama Takashi, Kawada Eiji
Tokyo Dental College

P-25 Development of resin materials containing metal nanoparticles with high elastic modulus, antibacterial and antioxidative property

○Kawakami Hayato¹, Kawai Koji¹, Hashimoto Masanori², Imazato Satoshi²
¹ Miyoshi Oil & Fat, ²Osaka University
P-26 Study on performance of resin composites using post and core
  ○Wada Yuuki, Miyake Kaori, Ohashi Katsura, Yamaguchi Hiroaki, Kameyama Yuka, Teranaka Ayako, Oshikawa Akihiro, Shimoyama Kazuo, Nihei Tomotaro
  Kanagawa Dental University

P-27 Rheological properties of commercial denture liners with dynamic impression - Setting characteristics of just after mixing powder and liquid -
  ○Mori Tomoyasu, Takase Kazuma, Yoshida Kazuhiro, Kurogi Tadafumi, Murata Hiroshi
  Nagasaki University

P-28 Influence of hypochlorous-acid electrolyzed water on mechanical properties of light-cured glazing agent membranes
  ○Aoki Harumi, Miyasaka Taira, Aoyagi Yusuke, Ishida Yoshiki, Miura Daisuke
  Nitpon Dental University

P-29 Aging of antimicrobial surfactant-containing acrylic resin prepared by cosolvent method
  ○Nezu Takashi, Nagano-Takebe Futami, Endo Kazuhiko
  Health Sciences University of Hokkaido

P-30 Flexural properties of glass fiber reinforced composite resin blocks for CAD/CAM - Effect of arrangement and thickness of glass fiber
  ○Yasue Tohru, Iwasaki Naohiko, Suzuki Tetsuya, Takahashi Hidekazu
  Tokyo Medical and Dental University

P-31 Influence of surface treatment to CAD/CAM hybrid resin block on bond strength of self-adhesive resin cement
  ○Kinoshita Hideaki, Harada Rino, Takemoto Shinji, Ichikawa Hiromichi, Hasegawa Kouji, Igarashi Toshio, Kawada Eiji
  Tokyo Dental College

P-32 Effects of occlusal force on wear of CAD/CAM resin blocks
  ○Kakuta Kiyoshi, Miyagawa Yukio
  Nitpon Dental University

P-33 Development of hybrid composite resin for CAD/CAM processing (Part 5): Adhesion of each block components
  ○Mizobuchi Shingo, Kato Takahiro, Anraku Teruo
  Yamamoto Precious Metal Co., Ltd.

P-34 Fracture strength of the hybrid resin crown for CAD/CAM system -The influence of the aging test-
  ○Okada Ryota, Ando Akihiro, Asakura Masaki, Ozawa Shogo, Takebe Jun, Kawai Tatsushi, Ban Seiji
  Aichi Gakuin University

P-35 Evaluation of marginal reproducibility of zirconia blank for CAD/CAM using different NC software
  ○Iwasaki Naohiko, Yasue Toru, Takahashi Hidekazu
  Tokyo Medical and Dental University

P-36 Influence of cement space on the marginal and interenal fit of CAD/CAM resin crowns
  ○Shimizu Sakura¹, Shinya Akikazu¹, ², Kuroda Soichi¹, Gomi Harunori¹
  ¹Nippon University, ²Univ. of Turku
P-37 Effect of the discoloration by the immersion test on mechanical properties of CAD/CAM resin block
○Aoyagi Yusuke, Miyasaka Taira, Aoki Harumi, Ishida Yoshiki, Miura Daisuke
The Nippon Dental University

P-38 Study on hybrid resin composites using CAD/CAM (Part 2). Wear of hybrid resin composite blocks
○Kameyama Yuka¹², Yamaguchi Hiroaki¹, Ohashi Katsura¹, Miyake Kaori¹, Teranaka Ayako¹, Oshikawa Akihiro¹, Shimoyama Kazuo¹, Wada Yuuki¹, Tanimoto Yasuhiro², Hirayama Satoshi², Nihei Tomotarou¹
¹Kanagawa Dental University, ²Nihon University School of Dentistry at Matsudo

P-39 Evaluation of PEEK orthodontic wires with friction and three point bending tests
○Tada Yoshifumi, Hayakawa Tohru, Nakamura Yoshiki
Tsurumi University

P-40 Fabrication of an apatite films using the mist assist Er:YAG laser deposition method
○Hontsu Shigeki¹, Hatoko Yuka¹, Yamamoto Ei¹, Kato Nobuhiro¹, Yoshikawa Kazushi², Yamamoto Kazuyo²
¹Kinki University, ²Osaka Dental University

P-41 Evaluation of adherence properties between perforated ultrathin amorphous calcium phosphate sheet and dentine
○Ido Yuuki¹, Yamamoto Ei¹, Kato Nobuhiro¹, Yasuo Kenzo², Yoshikawa Kazushi², Yamamoto Kazuyo², Hontsu Shigeki¹
¹Kinki University, ²Osaka Dental University

P-42 Preparation and evaluation of fluoridated hydroxyapatite sheets for dentin restoration
○Kohiga Yu¹, Hatoko Yuka¹, Kato Nobuhiro¹, Yamamoto Ei¹, Yoshikawa Kazushi², Yamamoto Kazuyo², Hontsu Shigeki¹
¹Kinki University, ²Osaka Dental University

P-43 Color stability of glass fiber-reinforced non-metal clasp denture materials
○Nagakura Manamu, Tanimoto Yasuhiro, Nishiyama Norihiro
Nihon University at Matsudo

P-44 Bond strength of restoration handling instruments with adhesive and restoration materials
○Ishida Yoshinori, Igarashi Kazuki, Yamamori Tetsuo, Terada Yoshihiro, Okada Hidetoshi
Ohu University

P-45 Development of new fluoride varnish with sustained fluoride release in long term
○Bae Ji-Myung¹, Kim Ah-Jin¹, Son Ju-Lee²
¹Wonkwang University, ²Sorabol College

P-46 Improvement of the dentinal surface acid-resistance after applied with the S-PRG filler-containing slurry material
○Han Linlin
Niigata University
April 17 (Sunday)

• Hall A

9:00 - 11:00  General Presentation (Oral Session)

A - 12 Preparation of magnesium-containing $\beta$-tricalcium phosphate block

○Arahira Takaaki, Maruta Michito, Matsuya Shigeki
Fukuoka Dental College

A - 13 Fabrication of CO3Ap foam with high mechanical strength from hemihydrate with PO$_4$ salt

○Sugiura Yuki, TsuruKanji, Ishikawa Kunio
Kyushu University

A - 14 Hydrothermal apatite synthesis from calcium oxide and polyphosphate (Part6)-Study about Post-Hydrothermal Process-

○NarasawaHideaki$^1$, Shiba Toshikazu$^2$, Owada Hiroyuki$^1$, Kataoka Yu$^1$, MiyazakiTakashi$^1$

$^1$Showa University, $^2$Rigenetiss

A - 15 Chemical durability of dental glass ceramics

○Ban Seiji, Iwata Jyunji, Okada Ryouta, AsakuraMasanori, Kawai Tatsu
Aichi Gakuin University

A - 16 Elucidation of early bone regeneration by synthetic octacalcium phosphate

○Hirayama Bunichi$^1$, AnadaTakahisa$^1$, Shiwaku Yukari$^1$, Miyatake Naohisa$^{1,2}$, Tsuchiya Kaori$^1$, Nakamura Masanori$^1$, Takahashi Tetsu$^1$, Suzuki Osamu$^1$

$^1$Tohoku University, $^2$Honma Memorial Tohoku Orthopaedic Hospital, $^3$Showa University

A - 17 The effects of low temperature degradation on the mechanical property of silica-doped high translucent zirconia

○Nakano Yoshiro, Nakamura Takashi, Oka Yuzu, Usami Hirofumi, Nishida Hisataka, Wakabayashi Kazumitsu, Sekino Toru, Yatani Hirofumi
Osaka University

A - 18 Light emitting characteristics of Tm3+ doped Y-TZP

○Okamura Shinya, Nishida Hisataka, Nakano Yoshiro, Wakabayashi Kazumichi, Nakamura Takashi, Sekino Tohru, Yatani Hirofumi
Osaka University

A - 19 Evaluation of antimicrobial activity of antibacterial yttria-stabilized zirconia against bacteria

○Yamada Risa, NozakiKosuke, Yamashita Kimihiro, Miura Hiroyuki, Nagai Akiko
Tokyo Medical and Dental University

• Hall C

12:00 - 13:00 Luncheon Seminar

Creative preparation of dental adhesive material based on incubated original polymer technology

Tatsuya Ori
Quality Assurance & Basic Development Department
SUN MEDICAL CO., LTD.
14:15 - 15:30 General Presentation (Oral Session)
A - 20 A novel drug controlled release system using phosphorylated polysaccharides
  ○Abe Shigeaki¹, Okihara Takumi², Akasaka Tsukasa¹, Yoshida Yasuhiro¹
  ¹Hokkaido University, ²Okayama University
A - 21 Development of electrically-debondable dental cements Part 3: Effects of adherend materials
  ○Kajimoto Noboru, Uyama Emi, Sekine Kazumitsu, Hamada Kenichi
  Tokushima University
A - 22 Observation of gap formation of composite resin cavity by Optical Coherence Tomography (OCT) -Effect of
  cavity design on gap formation-
  ○Takahashi Hidekazu¹, Iwasaki Naohiko¹, Sumi Yasunori²
  ¹Tokyo Medical and Dental University, ²National Center for Geriatrics and Gerontology
A-23 Application of optical time domain reflectometer for measurement of residual tooth thickness
  ○Murayama Ryosuke¹, Iino Masayoshi¹, Kurokawa Hiroyasu¹, Miyazaki Masashi¹, Mihata Yuki²
  ¹Nihon University, ²J. Morita Tokyo Mfg. Corp.
A-24 Synthesis of a new polyrotaxane-based temporary adhesive material
  ○Arisaka Yoshinori, Matsui Naoko, Tamura Atsushi, Takagaki Tomohiro, Tagami Junji, Yui Nobuhiko
  Tokyo Medical and Dental University

15:30 Closing Remark

April 12 (Sunday)
• Hall B
9:30 - 15:00 General Presentation (Poster Session)
  (Odd numbers: 11:15 - 12:00, Even numbers: 13:15 - 14:00 Discussion)
P-47 The effect of oxidative stress caused by titanium oxide nanotubes on HeLa cells
  ○Nishida Hisataka, Sekino Tohru
  Osaka University
P-48 Cell aggregation of periodontal ligament fibroblasts controlled by micro-patterns
  ○Akasaka Tsukasa, Kaga Naoyuki, Yokoyama Atsuro, Abe Shigeaki, Yoshida Yasuhiro
  Hokkaido University
P-49 Electroconductive treatment for SEM observation of wet-biological samples using room temperature ionic liquids
  Era Yuko¹, ○Abe Shigeaki¹, Kamikawa Hayato², Kawai Koji², Akasaka Tsukasa¹, Yoshida Yasuhiro¹
  ¹Hokkaido University, ²Miyoshi fat & oil
P-50 Fundamental study of antibacterial mouthguard sheet
  ○Yoshida Yuriko¹, Churei Hiroshi, Wada Takahiro, Shirako Takahiro, Fukasawa Shintaro, Uo Motohiro,
  Takahashi Hidekazu, Ueno Toshiaki
  Tokyo Medical and Dental University
P-51 Establishing a new soft tissue therapy at oral surgery using phototoxicity
  ○Ishikawa Hiroki, Imai Kouichi
  Osaka Dental University
P-52 Biological safety of dental materials in nano-component mixing conditions - Nano-zinc oxide and TEGDMA
   ○Shirai Tsubasa, Imai Koichi
   Osaka Dental University

P-53 Evaluation of cytocompatibility of montmotillonite for novel dental materials
   ○Nakanishi Ko, Abe Shigeaki, Bando Yosuke, Yamagata Shuichi, Yoshida Yasuhiro, Iida Junichiro
   Hokkaido University

P-54 Biodistribution study of heating nano device for cancer therapy
   ○Mori Koichiro1, Kawaguchi Minoru1, Fujigaya Tsuyohiko2, Tsutsumi Yusuke2, Ikebe Tetsuro1
   1Fukuoka Dental College, 2Kyushu University

P-55 Structure of transparent dentin region in the root
   ○Inoue Toshiko, Saito Makoto, Yamamoto Masato, Nishimura Fumio, Miyazaki Takashi
   Showa University

P-56 Biaxial flexural strength of heat-pressable lithium-silicate glass ceramics
   ○Ikeda Masaomi, Kamijyo Shingo, Iwasaki Naohiko, Takahashi Hidekazu
   Tokyo Medical and Dental University

P-57 Preparation and characteristics of nanocrystalline carbonated hydroxyapatite synthesized from eggshell waste
   Wen-Fu Ho1, ○Mei-Yi Liu2, Shih-Ching Wu3, Hsueh-Chuan Hsu4, Shih-Kuang Hsu5
   1National Univ. of Kaohsiung, 2Da-Yeh Univ., 3Central Taiwan Univ. of Sci. and Tech.

P-58 Evaluation of Enhancing Osteogenesis in Zirconia Dental Implants by Adding Strontia
   Wu Shih-Ching1, ○Huang Yun-Cheng1, Hsu Hsueh-Chuan1, Hsu Shih-Kuang1, Ho Wen-Fu2
   1Central Taiwan Univ. of Sci. and Tech., 2National Univ. of Kaohsiung

P-59 Effect of Fe$^{3+}$ and Cr$^{3+}$ on Coloration of Yttria-Stabilized Zirconia
   Wu Shih-Ching1, ○Huang Zong-Ping1, Hsu Hsueh-Chuan1, Hsu Shih-Kuang1, Ho Wen-Fu2
   1Central Taiwan Univ. of Sci. and Tech., 2National Univ. of Kaohsiung

P-60 Chemical durability of pressable lithium silicate glass ceramics
   ○Yokohara Hayato, Kumagai Tomohiro
   GC Corporation

P-61 Attenuation coefficients of transmitted light in Base Dentine porcelain for veneering zirconium dioxide
substructures
   ○Shiraishi Takanobu, Watanabe Ikuya
   Nagasaki University

P-62 Wettability enhancement of dental zirconia by short annealing
   ○Tsuruta Shozo, Mizuno Masanobu, Uematsu Yasuaki, Iwata Junji, Kawai Tatsushi, Yamamoto Iichiro
   Aichi Gakuin University

P-63 Surface characteristics of glass beads-blasted zirconia blasted before sintering
   ○Yoshida Keiichi, Sawase Takashi
   Nagasaki University
The influence of the sintering process on translucency of zirconia Part 2
○Narikiyo Hisayoshi, Tanaka Hidekazu, Yamazoe Masatoshi, Anraku Teruo
Yamamoto Precious Metal Co., Ltd.

Fabrication and application of zirconia nanoparticles with high dispersibility
○Okada Masahiro, Taketa Hiroaki, Matsumoto Takuya
Okayama University

Fabrication and application of zirconia nanofibers via hydrothermal methods
○Okada Masahiro, Taketa Hiroaki, Matsumoto Takuya
Okayama University

Comparative evaluation of the translucency of zirconia ceramics
○Suese Kazuhiro\textsuperscript{1,2}, Fujita Satoshi\textsuperscript{2}
\textsuperscript{1}Osaka Dental University, \textsuperscript{2} O.D.U School of Dental Technicians

Fluorescence properties of rare earth-containing Y-TZP
○Nishida Hisataka, Sekino Tohru
Osaka University

CaO-SiO\textsubscript{2} based cement recycled from dental waste materials (Part2) Application of dental stone
○Tamaki Yukimichi, Okuyama Katsushi, Hori Masaharu, Hayashi Yumiyo, Komada Yuko, Abe Masayo,
Yoshida Takakazu
Asahi University

QCM analysis for biocompatibility of titanium and zirconia
○Yoshida Eiji, Kusakawa Yoh, Hayakawa Tohru
Tsurumi University

3D analysis of the bone regeneration after the implantation of octacalcium phosphate/gelatin composites into rat calvarial defects OCP
○Sakai Susumu, Shiwaku Yukari, Anada Takahisa, Suzuki Osamu
Tohoku University

Measurement of Coefficient of Friction between dental implant Assemblies
○Kitagawa Tsuyoshi, Tanimoto Yasuhiro
Nihon University at Matsudo

Zinc phosphate coating on the zirconia dental implants
○Kodama Kouta, Valanezad Alireza, Murata Hiroshi, Watanabe Ikuya
Nagasaki University

Development of three-dimensional porous titanium web for bone defect filling
○Henmi Yoko, Naito Yoshihito, Sekine Kazumitsu, Hamada Kenichi
Tokushima University

Effects of low-energy electron beam irradiation sterilization on cp titanium surface, compared with autoclave and gas plasma sterilization methods
○Kanatani Mitsugu\textsuperscript{1}, Nomura Akiko\textsuperscript{2}, Izumi Kenji\textsuperscript{1}
\textsuperscript{1}Niigata University, \textsuperscript{2}Meirin College
P-76 Nano-hydroxyapatite coating on titanium surface treated with alkali and hydrothermal process

Wen-Fu Ho\textsuperscript{1}, Cheng-Wei Hsu\textsuperscript{2}, Hsueh-Chuan Hsu\textsuperscript{3}, Shih-Ching Wu\textsuperscript{3}, Shih-Kuang Hsu\textsuperscript{3}
\textsuperscript{1}National Univ. of Kaohsiung, \textsuperscript{2}Da-Yeh Univ., \textsuperscript{3}Central Taiwan Univ. of Sci. and Tech.

P-77 Processing and characteristics of anodized titanium surface immersed in Ca-containing solution

Wen-Fu Ho\textsuperscript{1}, Tzu-Hsiang Huang\textsuperscript{1}, Hsueh-Chuan Hsu\textsuperscript{2}, Shih-Ching Wu\textsuperscript{2}, Shih-Kuang Hsu\textsuperscript{2}
\textsuperscript{1}National Univ. of Kaohsiung, \textsuperscript{2}Central Taiwan Univ. of Sci. and Tech.

P-78 Effect of heat treatment on corrosion properties of Ti-Nb-Sn alloy

Hsueh-Chuan Hsu\textsuperscript{1}, Wen-Chieh Hsieh\textsuperscript{1}, Cheng-Feng Wang\textsuperscript{2}, Wen-Fu Ho\textsuperscript{3}, Shih-Ching Wu\textsuperscript{3}, Shih-Kuang Hsu\textsuperscript{3}
\textsuperscript{1}Central Taiwan Univ. of Sci. and Tech., \textsuperscript{2}Min-Hwei College of Health Care Management, \textsuperscript{3}National Univ. of Kaohsiung

P-79 Electrochemical property of gold-deposited titanium treated with alkanethiol

Saitoh Setsuo, Sasaki Kaori, Hattori Masayuki

P-80 Biocompatible effect of phosphate buffered saline on long term preservation of the vacuum ultraviolet irradiated titanium discs

Shintani Kohei\textsuperscript{1}, Kawaki Harumi\textsuperscript{1}, Horiguchi Takashi\textsuperscript{1}, Kajimoto Tadayasu\textsuperscript{1}, Yoshinari Masao\textsuperscript{2}, Kondoh Nobuo\textsuperscript{1}, Hotta Masato\textsuperscript{1}, Doi Yutaka\textsuperscript{1}
\textsuperscript{1}Asahi University, \textsuperscript{2}Tokyo Dental College

P-81 Effect of solution treatment on mechanical properties of dental semiprecious alloys

Hoshi Yushi\textsuperscript{1}, Akahori Toshikazu\textsuperscript{1}, Fukui Hisao\textsuperscript{2}, Niinomi Mitsuo\textsuperscript{3}
\textsuperscript{1}Meijo University, \textsuperscript{2}Aichi-Gakuin University, \textsuperscript{3}Tohoku University

P-82 The effect of heat treatment on microstructure and mechanical properties of Co-Cr-Mo alloys fabricated by selective laser melting process

Yogo Yoshiaki\textsuperscript{1}, Kajima Yuka\textsuperscript{1}, Takaichi Atsushi\textsuperscript{1}, Nakamoto Takayuki\textsuperscript{2}, Doi Hisashi\textsuperscript{1}, Takahashi Hidekazu\textsuperscript{1}, Nomura Naoyuki\textsuperscript{3}, Hanawa Takao\textsuperscript{1}, Wakabayashi Noriyuki\textsuperscript{3}
\textsuperscript{1}Tokyo Medical and Dental University, \textsuperscript{2}Technology Research Institute of Osaka Prefecture, \textsuperscript{3}Tosoh University

P-83 withdraw

P-84 Polishing properties of fiber reinforced PEEK

Okawa Seigo, TakaNorimasa, Kanatani Mitsugu, Izumi Kenji

P-85 Fabrication of Titanium Oxide Nano-coating on Stainless Steel

He Xiaoxi, Kodama Kouta, Valanezhad Alireza, Shiraishi Takanobu, Yoshida Noriaki, Watanabe Ikuya

P-86 Dimensional accuracy of resin patterns created by 3D printers

Ishida Yoshi, Miyasaka Taira, Aoki Harumi, Aoyagi Yusuke, Miura Daisuke

Nippon Dental University at Tokyo
P-87 Effect on properties of gypsum model by photocatalyst coating for imparting antimicrobial activity
   ○ Nagamatsu Yuki, Yoshida Kyouzou, Shimizu Hiroshi
   Kyushu Dental University

P-88 Preparation of antibacterial gypsum using titanium dioxide
   ○ Yoshida Kyouzou, Nagamatsu Yuki, Shimizu Hiroshi
   Kyushu Dental University

P-89 Whitening toothpaste containing apatite photocatalyst - Whitening effect of a new toothbrush with LED light-
   ○ Kamemizu Hideo, Noda Yoko, Horiguchi Takashi, Hotta Masato
   Asahi University

P-90 Temperature dependence of viscoelastic characteristics of denture adhesives
   ○ Okazaki Hitomi, Yoshida Kazuhiro, Takase Kazuma, Kurogi Tadahumi, Murata Hiroshi
   Nagasaki University