

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

A - 7 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.

A - 8 Surface modification of titanium for promoting cell scaffolding

○Sekine Kazumitsu, Naito Yoshihito, Hamada Kenichi

Tokushima University

16:30 - 17:15 **General Presentation (Oral Session)**

A - 9 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, Kani Mary, Takada Yukyo

Tohoku University

A-10 Manufacturing of pure titanium denture base using impulsive hydraulic pressure

○Kani Kouki¹, Ikeda Akira²

¹IKK Dental Laboratory(Co.,Ltd.), ²Ikeda Seikou Co., Ltd.

A-11 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)

▪ **Hall B**

9:00 - 16:30 **General Presentation (Poster Session)**

(Odd numbers: 11:15 - 12:00, Even numbers: 15:00 - 15:45 Discussion)

P - 1 Study on multi-mineral ion release from matrix of apatite-ionomer cement

○Shinonaga Yukari, Arita Kenji

Osaka Dental University

P - 2 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

P - 3 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

P - 4 Dentin-inductive property of the modified MTA with improved handling characteristics

○Sakakibara Sayaka, Toshima Hirokazu, Saitoh Masato, Endo Kazuhiko

Health Sciences University of Hokkaido

- P - 5 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
- P - 6 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
- P - 7 Evaluation of bonding properties of new resin cement, G-CEM LinkForce to new glass ceramic, initial LiSi Press
 ○Matsumoto Naofumi, Kumagai Tomohiro
 GC Corporation
- P - 8 Evaluation of bonding properties of self-adhesive resin cement to new glass ceramic Initial LiSi Press
 ○Sugawara Ayaka, Fukushima Syouichi, Kumagai Tomohiro
 GC Corporation
- P - 9 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
- P-10 The development of acrylamide monomer containing self-adhesive resin sealer
 ○Yoshihara Kumiko¹, Nagaoka Noriyuki², Yoshida Yasuhiro²
¹Okayama University, ²Hokkaido University
- P-11 Effect of different surface treatments of titanium on the adhesive strength of treated layer using epoxy stud pin
 ○Suzue Masayoshi, Valanezhad Alireza, Shiraishi Takanobu, Watanabe Ikuya
 Nagasaki University
- P-12 Influence of Ca(OH)₂-treated root canal dentin on the bond strength of resin cement
 ○Someya Tomoko, Kinoshita Hideaki, Takemoto Shinji, Kawada Eiji
 Tokyo Dental College
- P-13 Study on performance of experimental resin cement
 ○¹Nihei Tomotaro, ²Kunzelmann Karl-Heinz, ¹Ohashi Katsura, ¹Miyake Kaori, ¹Yamaguchi Hiroaki, ¹Teranaka Ayako, ¹Kameyama Yuka, ¹Wada Yuki, ¹Oshikawa Akihiro, ¹Tomiyama Kiyoshi, ¹Shimoyama Kazuo, ¹Suzuki Toshiyuki, Mukai Yoshiharu
¹Kanagawa Dental University, ²Dental School of LMU
- P-14 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 Akikazu^{1, 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
¹Yamamoto 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
¹The 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
¹Miyoshi 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
Nippon 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
Nippon 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 internal fit of CAD/CAM resin crowns

○Shimizu Sakura¹, Shinya Akikazu^{1, 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 Yuka¹, Yamaguchi Hiroaki¹, Ohashi Katsura¹, Miyake Kaori², Teranaka Ayako¹, Oshikawa Akihiro¹,
 Shimoyama Kazuo¹, Wada Yuuki¹, Tanimoto Yasuhiro², Hirayama Satoshi², Nihei Tomotarou¹
¹ Kanagawa Dental University, ² Nihon 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
 Kinki 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 Kazuaki, 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 β -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 PO₄ salt

○Sugiura Yuki, Tsuru Kanji, Ishikawa Kunio
Kyushu University

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

○Narusawa Hideaki¹, Shiba Toshikazu², Owada Hiroyuki¹, Kataoka Yu¹, Miyazaki Takashi¹
¹Showa University, ²Rigenetiss

A - 15 Chemical durability of dental glass ceramics

○Ban Seiji, Iwata Junji, Okada Ryouta, Asakura Masanori, Kawai Tatsushi
Aichi Gakuin University

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

○Hirayama Bunichi¹, Anada Takahisa¹, Shiwaku Yukari¹, Miyatake Naohisa^{1,2}, Tsuchiya Kaori¹,
Nakamura Masanori³, Takahashi Tetsu¹, Suzuki Osamu¹
¹Tohoku University, ²Honma Memorial Tohoku Orthopaedic Hospital, ³Showa University

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

○Nakano Yoshiro, Nakamura Takashi, Oka Yuzo, Usami Hirofumi, Nishida Hisataka,
Wakabayashi Kazumichi, 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, Nozaki Kosuke, 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 Yukinori^{1, 2}
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 montmorillonite 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 Hsu³, Shih-Kuang Hsu³
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 Fe³⁺ and Cr³⁺ 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

- P-64 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.
- P-65 Fabrication and application of zirconia nanoparticles with high dispersibility
○Okada Masahiro, Taketa Hiroaki, Matsumoto Takuya
Okayama University
- P-66 Fabrication and application of zirconia nanofibers via hydrothermal methods
○Okada Masahiro, Taketa Hiroaki, Matsumoto Takuya
Okayama University
- P-67 Comparative evaluation of the translucency of zirconia ceramics
○Suese Kazuhiko^{1,2}, Fujita Satoshi²
¹Osaka Dental University, ²O.D.U School of Dental Technicians
- P-68 Fluorescence properties of rare earth-containing Y-TZP
○Nishida Hisataka, Sekino Tohru
Osaka University
- P-69 CaO-SiO₂ 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
- P-70 QCM analysis for biocompatibility of titanium and zirconia
○Yoshida Eiji, Kusakawa Yoh, Hayakawa Tohru
Tsurumi University
- P-71 3D analysis of the bone regeneration after the implantation of octacalcium phosphate/gelatin composites into rat calvarial defects OCP
○Sakai Susumu, Shiwa Yukari, Anada Takahisa, Suzuki Osamu
Tohoku University
- P-72 Measurement of Coefficient of Friction between dental implant Assemblies
○Kitagawa Tsuyoshi, Tanimoto Yasuhiro
Nihon University at Matsudo
- P-73 Zinc phosphate coating on the zirconia dental implants
○Kodama Kouta, Valanezhad Alireza, Murata Hiroshi, Watanabe Ikuya
Nagasaki University
- P-74 Development of three-dimensional porous titanium web for bone defect filling
○Henmi Yoko, Naito Yoshihito, Sekine Kazumitsu, Hamada Kenichi
Tokushima University
- P-75 Effects of low-energy electron beam irradiation sterilization on cp titanium surface, compared with autoclave and gas plasma sterilization methods
○Kanatani Mitsugu¹, Nomura Akiko², Izumi Kenji¹
¹Niigata University, ²Meirin College

- P-76 Nano-hydroxyapatite coating on titanium surface treated with alkali and hydrothermal process
Wen-Fu Ho¹, ○Cheng-Wei Hsu², Hsueh-Chuan Hsu³, Shih-Ching Wu³, Shih-Kuang Hsu³
¹National Univ. of Kaohsiung, ²Da-Yeh Univ., ³Central Taiwan Univ. of Sci. and Tech.
- P-77 Processing and characteristics of anodized titanium surface immersed in Ca-containing solution
Wen-Fu Ho¹, ○Tzu-Hsiang Huang¹, Hsueh-Chuan Hsu², Shih-Ching Wu², Shih-Kuang Hsu²
¹National Univ. of Kaohsiung, ²Central Taiwan Univ. of Sci. and Tech.
- P-78 Effect of heat treatment on corrosion properties of Ti-Nb-Sn alloy
Hsueh-Chuan Hsu¹, ○Wen-Chieh Hsieh¹, Cheng-Feng Wang², Wen-Fu Ho³, Shih-Ching Wu¹, Shih-Kuang Hsu¹
¹ Central Taiwan Univ. of Sci. and Tech., ²Min-Hwei College of Health Care Management,
³National Univ. of Kaohsiung
- P-79 Electrochemical property of gold-deposited titanium treated with alkanethiol
○Saitoh Setsuo, Sasaki Kaori, Taira Masayuki, Hattori Masayuki
Iwate Medical University
- P-80 Biocompatible effect of phosphate buffered saline on long term preservation of the vacuum ultraviolet irradiated titanium discs
○Shintani Kohei¹, Kawaki Harumi¹, Horiguchi Takashi¹, Kajimoto Tadayasu¹, Yoshinari Masao²,
Kondoh Nobuo¹, Hotta Masato¹, Doi Yutaka¹
¹Asahi University, ²Tokyo Dental College
- P-81 Effect of solution treatment on mechanical properties of dental semiprecious alloys
○Hoshiya Yushi¹, Akahori Toshikazu¹, Fukui Hisao², Niinomi Mitsuo³
¹Meijo University, ²Aichi-Gakuin University, ³Tohoku 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 Yoshiaki¹, Kajima Yuka¹, Takaichi Atsushi¹, Nakamoto Takayuki², Doi Hisashi¹,
Takahashi Hidekazu¹, Nomura Naoyuki³, Hanawa Takao¹, Wakabayashi Noriyuki¹
¹Tokyo Medical and Dental University, ²Technology Research Institute of Osaka Prefecture,
³Tohoku University
- P-83 withdraw
- P-84 Polishing properties of fiber reinforced PEEK
○Okawa Seigo, Taka Norimasa, Kanatani Mitsugu, Izumi Kenji
Niigata University
- P-85 Fabrication of Titanium Oxide Nano-coating on Stainless Steel
○He Xiaoxi, Kodama Kouta, Valanezhad Alireza, Shiraishi Takanobu, Yoshida Noriaki, Watanabe Ikuya
Nagasaki University
- P-86 Dimensional accuracy of resin patterns created by 3D printers
○Ishida Yoshiki, 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 with 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