

The 69th General Session of the Japanese Society for Dental Materials and Devices (JSDMD)

April 15 (Saturday) - 16 (Sunday), 2017

Nippon Dental University School of Life Dentistry at Tokyo

1-9-20 Fujimi, Chiyoda-ku, Tokyo 102-8159, Japan

April 15 (Saturday)

▪ Hall A

9:25 - 9:30 **Opening Remark**

9:30 - 10:15 **Young Investigator Award Challenge (Oral Session)**

10:15 - 11:00 **General Presentation (Oral Session)**

A - 1 Calcification of periodontal ligament by collagen type III-coated hydroxyapatite

○Kosuke Nozaki, Kazuhisa Fujita, Kimihiro Yamashita, Hiroyuki Miura, Akiko Nagai
Tokyo Medical and Dental University

A - 2 Surface modification of orthodontic stainless steel with bioactive glass -Obtaining aesthetic surface and enamel remineralization ability-

○Kyotaro Kawaguchi, Masahiro Iijima, Takeshi Muguruma, Naohiko Kawamura, Kazuhiko Endo
Health Sciences University of Hokkaido

A - 3 Luminescence properties of Tm-Er co-doped ZrO₂ phosphor

○Hisataka Nishida, Tohru Sekino, Takashi Nakamura, Hirofumi Yatani
Osaka University

A - 4 Surface treatment for glass-ceramics by using corona discharge

○Hiroshi Ikeda, Yuki Nagamatsu, Hiroshi Shimizu
Kyushu Dental University

A - 5 Effect of surface treatment on bending strength of zirconia ceramics

○Masahiro Okada, Hiroaki Taketa, Yasuhiro Torii, Takuya Matsumoto
Okayama University

A - 6 Biaxial flexural strengths of pressed lithium disilicate

○Seiji Ban, Jyunji Iwata, Masanori Asakura, Tatsushi Kawai
Aichi Gakuin University

Hall A

14:00 - 15:00 **Special Lecture**

「Micro natural art - Diatom world -」

Tamotsu Nagumo
Nippon Dental University at Tokyo

15:45 - 17:00 **General Presentation (Oral Session)**

- A - 7 Characteristics of translucent dental zirconia doped with Tm³⁺
 ○Shinya Okamura, Hisataka Nishida, Yoshiro Nakano, Kazumichi Wakabayashi, Takahi Nakamura,
 Tohru Sekino, Hirohumi Yatani
 Osaka University
- A - 8 Hydrothermal apatite synthesis from calcium oxide and polyphosphate(Part7)-Heat of Reaction
 ○Hideaki Narusawa¹, Toshikazu Shiba², Hiroyuki Owada¹, Yu Kataoka¹, Takashi Miyazaki¹
¹Showa University, ²RigeneTiss
- A - 9 Study of bone formation of apatite paste derived from Ca-amino acid complexes.-Influence of amino acid
 ligand-
 ○Takuya Waki¹, Toshitsugu Sakurai¹, Chihiro Mochizuki², Mitsunobu Sato², Tohru Hayakawa¹,
 Chikahiro Ohkubo¹
¹Tsurumi University, ²Kogakuin University
- A - 10 Calcium fluoride deposition on hydroxyapatite materials in the presence of polyol molecules
 ○Sei Tsutsui, Yukari Shiwaku, Takahisa Anada, Osamu Suzuki
 Tohoku University
- A - 11 Hydration structure of water on ion-substituted hydroxyapatite
 ○Daisuke Kobayashi, Shoki Kai, Masahiro Okada, Takuya Matsumoto
 Okayama University

April 15 (Saturday)

▪ Hall B

9:40 - 16:30 **General Presentation (Poster Session)**

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

- P - 1 Hydrothermal treatment of the zinc phosphate coated zirconia dental implants to formation of calcium
 phosphate coating
 ○Kouta Kodama, Alireza Valanezhad, Hiroshi Murata, Ikuya Watanabe
 Nagasaki University
- P - 2 Effect of application techniques on shrinkage stress of different composite resin materials
 ○Shebl Shahenda¹, Alireza Valanezhad², Abdel-Karim Usama¹, Abdalla Ali¹, Elkafrawy Hend¹,
 Ikuya Watanabe²
¹Tanta University, ²Nagasaki University
- P - 3 Study of apatite deposition in a simulated body fluid immersion experiments
 ○Ryo Yagi, Hajime Suzuki, Takuya Waki, Masatsugu Hirota, Tohru Hayakawa, Chikahiro Ohkubo
 Tsurumi University
- P - 4 Development of novel porous titanium/implant complex
 ○Reiko Kobatake, Kazuya Doi, Koji Morita, Hiroki Tsuka, Takayasu Kubo, Kazuhiro Tsuga
 Hiroshima University

- P - 5 Evaluation of antibacterial ability of peptide immobilized dental zirconia implant using L-Dopa as cross-linker
Shih-Ching Wu¹, ○Yi-Chen Ye¹, Shih-Kuang Hsu¹, Hsueh-Chuan Hsu¹, Wen-Fu Ho²
¹Central Taiwan University of Science and Technology, ²National University of Koahsiung
- P - 6 Wettability enhancement of dental zirconia by short annealing (Part2) Cell proliferation ability
○Shozo Tsuruta, Mayu Kawase, Masanobu Mizuno, Yasuaki Uematsu, Tatsushi Kawai,
Iichiro Yamamoto
Aichi Gakuin University
- P - 7 Evaluation of tissue regenerative potential of experimental bilayered PLGA membranes for GTR
○Itsumi Yoshimoto, Ririko Tsuboi, Haruaki Kitagawa, Jun-ichi Sasaki, Satoshi Imazato
Osaka University
- P - 8 Micro/nano-patterning of curable dental materials
○Tsukasa Akasaka, Naoyuki Kaga, Atsuro Yokoyama, Shigeaki Abe, Yasuhiro Yoshida
Hokkaido University
- P - 9 Tensile strength of the transparent dentin region in the tooth root
○Toshiko Inoue, Makoto Saito, Fumio Nishimura, Takashi Miyazaki
Showa University
- P - 10 Evaluation of electrospun hydroxyapatite/gelatin/poly(vinyl)alcohol nanofibrous scaffold for bone regeneration
Shih-Ching Wu¹, ○Yi-Ru Zhang¹, Wen-Fu Ho², Shih-Kuang Hsu¹, Hsueh-Chuan Hsu¹
¹Central Taiwan University of Science and Technology, ²National University of Koahsiung
- P - 11 Application of neutral electrolyzed water to prevention of infection through gypsum model
○Yuki Nagamatsu¹, Hiroshi Nagamatsu¹, Kyozo Yoshida¹, Keiko Nakamura², Hiroshi Ikeda¹,
Hiroshi Shimizu¹
¹Kyushu Dental University, ²Fukuoka Dental College
- P - 12 Influence of inhibitory effect of coating material containing S-PRG filler on enamel demineralization
○Hirokazu Toshima, Masayuki Kaga, Kazuhiko Endo, Masato Saitoh
Health Sciences University of Hokkaido
- P - 13 New method to prevent tetragonal-monoclinic transformation in zirconia implants
○Alireza Valanezhad, Yumiko Tashima, Ikuya Watanabe
Nagasaki University
- P - 14 Antibacterial activity and mineral induction ability of proprietary MTA cements
○Masayoshi Morita, Katsuya Nakayama, Satoshi Yamaguchi, Haruaki Kitagawa, Satoshi Imazato
Osaka University
- P - 15 Determination of setting behavior of self-adhesive resin cement utilizing tooth primer for reinforced of
adhesion
○Hiroyasu Kurokawa, Koji Shiratsuchi, Sho Shibasaki, Chiaki Yabuki, Shunichi Suda, Masashi Miyazaki
Nihon University

- P - 1 6 Bond strength to tooth structure and flexural properties of glass-ionomer cement for filling: Effect of coating agent
 ○Masao Irie, Yukinori Maruo, Goro Nishigawa, Shogo Minagi, Kumiko Yoshihara, Yukinori Nagaoka, Takuya Matsumoto
 Okayama University
- P - 1 7 Evaluation of clinical powder-liquid ratio in temporary luting carboxylate type cement
 ○Kazuaki Igarashi, Taisuke Moriue, Tatsuya Ohki, Ryuichi Saito, Yoshinori Ishida, Hidetoshi Okada, Yoshihiro Terada
 Ohu University
- P - 1 8 Effect of ambient water on change in compressive strength of resin-modified glass ionomer cements with time
 ○Hirotaka Shigeta, Yuko Nagasawa, Satoru Awata, Jun Omatsu, Ken-ichi Wada, Yasushi Hibino, Hiroshi Nakajima
 Meikai University
- P - 1 9 Study of vertical bone augmentation by subperiosteal onlay graft of octacalcium phosphate/gelatin composites onto rat calvaria -
 ○Ryosuke Iwama, Yukari Shiwaku, Takahisa Anada, Osamu Suzuki
 Tohoku University Graduate School of Dentistry
- P - 2 0 Experimental study of osteogenesis with non-sintered porous carbonate apatite -
 ○Tadakatsu Kasai, Kazuhiro Watanabe, Shinichirou Sumitomo, Takashi Horiguchi, Yutaka Doi
 Asahi University
- P - 2 1 Development of carbonate apatite bone graft material -Comparison of bone substitutes in canine extraction sites-
 ○Hijiri Masuda, Yusuke Shigemitsu, Tomohiro Kumagai
 GC Corporation
- P - 2 2 Effect of sintering conditions on mechanical properties of zirconia
 ○Hiroshi Kono, Hiroyuki Arikawa, Masafumi Kikuchi
 Kagoshima University
- P - 2 3 Study on characteristics of lithium disilicate ceramics
 ○Katsura Ohashi, Kaori Miyake, Hiroaki Yamaguchi, Yuka Kameyama, Yuuki Wada, Akihiro Oshikawa, Kazuo Shimoyama, Tomotaro Nihei
 Kanagawa Dental University
- P - 2 4 Effects of silicon sputter deposition on the bond strength between zirconia and resin core materials
 ○Mitsunori Uno¹, Harumi Kawaki¹, Ayumu Honda¹, Ryugo Nonogaki¹, Toshiko Sawada¹, Motonori Nishikawa¹, Masakazu Kurachi¹, Hajime Ishigami¹, Yoshiyuki Yokogawa², Yutaka Doi¹
¹Asahi University, ²Osaka City University
- P - 2 5 Toothbrush abrasion resistance of the stain porcelain for zirconia
 ○Yuta Endo, Hidekazu Tanaka, Masatoshi Yamazoe, Takahiro Kato
 Yamamoto Precious Metal Co.,Ltd.

- P - 2 6 Antibacterial activity and surface roughness of high-strength dental stone added photocatalyst
 ○Kyouzou Yoshida, Yuki Nagamatsu, Hiroshi Ikeda, Hiroshi Shimizu
 Kyushu Dental University
- P - 2 7 Preparation of emulsion-colored hydroxyapatite sheet with enamel restoration and aesthetic appreciation
 ○Shigeki Hontsu¹, Yoshiya Hashimoto², Kazushi Yoshikawa², Kazuyo Yamamoto²
¹Kinki University, ²Osaka Dental University
- P - 2 8 Effect of thermal oxidation on the properties of porous titanium scaffold
 ○Alireza Valanezhad¹, Mohammad Khodaei², Ikuya Watanabe¹
¹Nagasaki University, ²Majlesi Islamic Azad University
- P - 2 9 Mechanical strength of dental Ag-Pd-Cu-Au system alloy subjected to simple solution treatment
 ○Tsubasa Mizuno¹, Toshikazu Akahori¹, Mitsuo Niinomi¹, Hisao Fukui²
¹Meijo University, ²Aichi-Gakuin University
- P - 3 0 A study on corrosion resistance and bioactivity of calcium phosphate coated Magnesium by electrodeposition
 Shih-Kuang Hsu¹, ○Hsiao-Mei Huang¹, Hsueh-Chuan Hsu¹, Wen-Fu Ho², Shih-Ching Wu¹
¹Central Taiwan University of Science and Technology, ²National University of Koahsiung
- P - 3 1 Microstructures and mechanical properties of new beta Ti alloy by thermomechanical processing
 Wen-Fu Ho¹, ○Jin-Sian Chen¹, Hsueh-Chuan Hsu², Shih-Ching Wu², Shih-Kuang Hsu²
¹National University of Koahsiung, ²Central Taiwan University of Science and Technology
- P - 3 2 Evaluation of experimental investments for dental titanium casting
 Wen-Fu Ho¹, ○Shu-Wen Li¹, Hsueh-Chuan Hsu², Shih-Ching Wu², Shih-Kuang Hsu²
¹National University of Koahsiung, ²Central Taiwan University of Science and Technology
- P - 3 3 Synthesis and characterization of titania nanotubes prepared by anodization and ultrasound assistance
 Wen-Fu Ho¹, ○Chun-Yu Lin¹, Hsueh-Chuan Hsu², Shih-Ching Wu², Shih-Kuang Hsu²
¹National University of Koahsiung, ²Central Taiwan University of Science and Technology
- P - 3 4 Mechanical properties and microstructure of as-cast Ti-Nb-Sn-Mo alloys for biomedical applications
 Wen-Fu Ho¹, ○Chao-Yong Jheng¹, Hsueh-Chuan Hsu², Shih-Ching Wu², Shih-Kuang Hsu²
¹National University of Koahsiung, ²Central Taiwan University of Science and Technology
- P - 3 5 Optical properties and corrosion resistance of colored Ti-Nb-Mo alloy for dental applications
 Hsueh-Chuan Hsu¹, ○Pei-Chi Li¹, Cheng-Feng Wang², Wen-Fu Ho³, Shih-Kuang Hsu¹, Shih-Ching Wu¹
¹Central Taiwan University of Science and Technology, ²Min-Hwei College of Health Care Management,
³National University of Koahsiung
- P - 3 6 A study on structure and characteristics hydroxyapatite-coated porous Ti-Nb-Mo alloy
 Hsueh-Chuan Hsu¹, ○Min-Hung Shih¹, Wen-Fu Ho², Shih-Ching Wu¹, Shih-Kuang Hsu¹
¹Central Taiwan University of Science and Technology, ²National University of Koahsiung
- P - 3 7 Comparison of corrosion damages caused by cleaning solutions on stainless steel used for fabrication of surgical instruments
 ○Mary Kanyi, Masatoshi Takahashi, Hanako Sakatsume, Yukyo Takada
 Tohoku University

April 16 (Sunday)

▪ Hall A

9:30 - 11:00 **General Presentation (Oral Session)**

- A - 12 Modification with magnesium ions on a titanium surface given by an alkaline heat treatment so as to aim advance of bone compatibility -Establishment of modification conditions-
○Hanako Sakatsume, Masatoshi Takahashi, Mary Kanyi, Yukyou Takada
Tohoku University
- A - 13 Evaluation of antibacterial property on copper-introduced surface layer formed by electrochemical treatment
○Masaya Shimabukuro, Yusuke Tsutsumi, Risa Yamada, Kosuke Nozaki, Maki Ashida, Peng Chen,
Hisashi Doi, Akiko Nagai, Takao Hanawa
Tokyo Medical and Dental University
- A - 14 Investigation of accelerated corrosion reaction of titanium under drying thin electrolyte layer simulating oral cavity environment
○Yusuke Tsutsumi, Maki Ashida, Hisashi Doi, Takao Hanawa
Tokyo Medical and Dental University
- A - 15 Development of electrically-debondable dental cements (Part4) - Observation of failure mechanism -
○Noboru Kajimoto, Emi Uyama, Kazumitsu Sekine, Kenichi Hamada
Tokushima University
- A - 16 Preparation of magnesium-containing β -tricalcium phosphate cement using different powder preparation
○Takaaki Arahira, Michito Maruta, Shigeki Matsuya
Fukuoka Dental College
- A - 17 Analysis of arsenic in MTA cement and effect of glutathione on arsenic-induced toxicity on pulpal-like cells
○Noriko Hiraishi¹, Yukihiko Tamura², Yusuke Tsutsumi³, Takao Hanawa, Junji Tagami¹
Tokyo Medical and Dental University

▪ Hall D

12:00 - 13:00 **Luncheon Seminar**

Adhesive System in Tokuyama Dental Corporation

Yasuhiro Ogawa
Tokuyama Dental Corporation

14:15 - 15:30 **General Presentation (Oral Session)**

- A - 18 Identification of the first minerals formed during endochondral ossification
○Satoshi Emilio Hara, Masahiro Okada, Noriyuki Nagaoka, Takuo Kuboki, Takuya Matsumoto
Okayama University
- A - 19 Characterization of the first minerals formed during secondary ossification
○Takuya Matsumoto, Satoshi Emilio Hara, Masahiro Okada
Okayama University

- A - 20 Wear of various types of composite resin against bovine enamel
 ○Kensuke Tanaka, Rino Harada, Tomoko Someya, Hideaki Kinoshita, Masaaki Kasahara,
 Takashi Ohyama, Shinji Takemoto
 Tokyo Dental College
- A - 21 Influence of phytic acid and EDTA as dentin chelating agents on bond strength and hardness of self-adhesive cements
 ○Muana Hosea Lal Rin, Noriko Hiraishi, Masatoshi Nakajima, Junji Tagami
 Tokyo Medical and Dental University
- A - 22 Influence of the operation on flexural strength and elastic modulus in self-cured resins
 ○Tatsuya Ohki, Ryuichi Saito, Kazuaki Igarashi, Yoshinori Ishida, Hidetoshi Okada
 Ohu University

15:30 **Closing Remark**

April 16 (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 - 3 8 Effect of Nd:YVO₄ nanosecond laser machining on flexural strength of fully sintered zirconia
 ○Miku Kazama-Koide, Kazuo Ohkuma, Yukio Miyagawa
 Nippon Dental University at Niigata
- P - 3 9 Tensile bond strength of adhesive resin cement for CAD/CAM resin block
 ○Kazuhiro Hikita, Hirokazu Toshima, Masato Saitoh, Takeo Maida, Takashi Nezu, Kazuhiko Endo
 Health Sciences University of Hokkaido
- P - 4 0 A study of cutting parameter on dental zirconia for CAD/CAM application
 Shih-Ching Wu¹, ○An-Jie Lo¹, Hsueh-Chuan Hsu¹, Wen-Fu Ho², Shih-Kuang Hsu¹
¹Central Taiwan University of Science and Technology, ² National University of Koahsiung
- P - 4 1 Physical, mechanical and biological properties of short-fiber reinforced composite
 Jafarnia Shiva¹, ○Alireza Valanezhad², Shahabi Sima¹, Ikuya Watanabe^{1,2}
¹Tehran University of Medical sciences, ²Nagasaki University
- P - 4 2 Toothpaste containing apatite photocatalyst - Whitening effect of sonic vibration using a new toothbrush with LED light (Part III) -
 ○Hideo Kamemizu, Yoko Noda, Takashi Horiguchi, Motonori Nishikawa, Masato Hotta
 Asahi University
- P - 4 3 Basic study for the dimensional accuracy between a 3D printed object and a digital data for production
 ○Tadasuke Hori¹, Miki Hori², Tatsushi Kawai²
¹Alid inc., ²Aichi-Gakuin University

- P - 4 4 Effect of horizontal shift of center of magnetic assembly and that of keeper on retentive force of dental magnetic attachments
 ○Masatoshi Takahashi, Hanako Sakatsume, Mary Kanyi, Yukyo Takada
 Tohoku University
- P - 4 5 Cutting properties of fiber reinforced PEEK (polyetheretherketone) with carbide bur
 ○Seigo Okawa, Norimasa Taka, Mitsugu Kanatani, Kenji Izumi
 Niigata University
- P - 4 6 Thermo-chromism of restorative composite resins. (Part 4) Thermal dependence of refractive indices of composite resins
 ○Hiroyuki Arikawa, Yoshito Minesaki, Hiroshi Kono, Masafumi Kikuchi
 Kagoshima University
- P - 4 7 Bonding properties of fiberglass reinforced composite resin blocks for CAD/CAM - Effect of arrangement of fiberglass -
 ○Tohru Yasue, Naohiko Iwasaki, Hidekazu Takahashi, Tetsuya Suzuki
 Tokyo Medical and Dental University
- P - 4 8 Study on hybrid ceramics using CAD/CAM (Part 3)-Characteristics of novel hybrid ceramic blocks-
 ○Yuka Kameyama¹, Hiroaki Yamaguchi¹, Katsura Ohashi¹, Kaori Miyake¹, Akihiro Oshikawa¹,
 Kazuo Shimoyama¹, Yuuki Wada¹, Yasuhiro Tanimoto², Satoshi Hirayama², Tomotarou Nihei¹
¹Kanagawa Dental University, ²Nihon University School of Dentistry at Matsudo
- P - 4 9 The effect of isolated silanol groups present on the filler surface on the mechanical strength of indirect composite resin
 ○Shuhei Takahashi, Hidefumi Fujimura, Mitsuji Teramae, Toshiyuki Nakatsuka
 Shofu
- P - 5 0 Study on hybrid ceramics using CAD/CAM (Part 4) -Adhesion effect of MMA-type luting cement-
 ○Tomotaro Nihei¹, Yuka Kameyama¹, Hiroaki Yamaguchi¹, Katsura Ohashi¹, Kaori Miyake¹, Akihiro Oshikawa²,
 Kazuo Shimoyama¹, Yuuki Wada¹, Yasuhiro Tanimoto², Satoshi Hirayama²
¹Kanagawa Dental University, ²Nihon University School of Dentistry at Matsudo
- P - 5 1 Properties of bulk fill flowable composite resins
 ○Keiko Nitta¹, Rie Nomoto¹, Yuji Tsubota^{1,2}, Masuji Tsuchikawa³, Tohru Hayakawa¹
¹Tsurumi University, ²Tsubota Dental Clinic, ³Sun Medical Co., Ltd.
- P - 5 2 Influence of accelerated deterioration on bending strength of hard resins
 ○Yoshiki Ishida, Taira Miyasaka, Harumi Aoki, Yusuke Aoyagi, Daisuke Miura
 Nippon Dental University at Tokyo
- P - 5 3 Difference of mechanical strength in biaxial and three-point bending test
 ○Takumasa Kimura, Nobuhito Takagi, Takayuki Ueno, Tomohiro Kumagai
 GC Corporation
- P - 5 4 Development of dental composite resin utilizing low viscous and low shrinking novel monomers
 ○Yusuke Aoyagi, Taira Miyasaka, Harumi Aoki, Yoshiki Ishida, Daisuke Miura
 Nippon Dental University at Tokyo

- P - 5 5 The development of acrylamide monomer containing pulp capping materials
 ○Kumiko Yoshihara¹, Noriyuki Nagaoka¹, Yasuhiro Yoshida²
¹Okayama university, ²Hokkaido University
- P - 5 6 Development of visible light-polymerized soft denture liners with i-BMA and ATBC- Setting characteristics -
 ○Tomoyasu Mori, Kazuma Takase, Takafumi Egoshi, Hiroshi Murata
 Nagasaki University
- P - 5 7 The performance of resin composite for constructing tooth foundation (Part 2) - Three point bending strength and dentin bond strength -
 ○Yuuki Wada, Kaori Miyake, Katsura Ohashi, Yuka Kameyama, Akihiro Oshikawa, Kazuo Shimoyama,
 Tomotaro Nihei
 Kanagawa Dental University
- P - 5 8 Dispersed/dissolved state of cetylpyridinium chloride in HEMA-MMA monomer mixture
 ○Takashi Nezu, Futami Nagano-Takebe, Kazuhiko Endo
 Health Sciences University Hokkaido
- P - 5 9 Dimensional changes in stone casts resulting from long-term immersion of silicone impressions taken with individual tray in disinfectant solutions
 ○Hisako Hiraguchi, Takayuki Yoneyama
 Nihon University
- P - 6 0 Influence of different smear layers on enamel bond durability of self-etch adhesives
 ○Toshiki Takamizawa, Akimasa Tsujimoto, Arisa Imai, Hajime Endo, Keishi Sai, Masashi Miyazaki
 Nihon University
- P - 6 1 Comparison of lamination bonding strength of mouth guard sheet materials due to change in wetting temperature
 ○Gen Tanabe, Hiroshi Churei, Yuriko Yoshida, Takahiro Shirako, Takahiro Wada, Toshiaki Ueno
 Tokyo Medical and Dental University
- P - 6 2 Bond strength of self-adhesive resin cement with tooth primer to dentin
 ○Keiichi Yoshida, Takashi Sawase
 Nagasaki University Hospital
- P - 6 3 Influence of the oxygen-inhibited layer on bonding performance of dental adhesive systems
 ○Akimasa Tsujimoto, Toshiki Takamizawa, Kie Nojiri, Hajime Ouchi, Takayuki Suzuki, Masashi Miyazaki
 Nihon University
- P - 6 4 Evaluation of laser pretreatment on shear bond strength of adhesive resin cement to polyetheretherketone (PEEK)
 ○Hiroki Tsuka, Koji Morita, Kazuya Doi, Yasuhiko Abe, Kazuhiro Tsuga
 Hiroshima University
- P - 6 5 Effect on tensile bond strength of resin composite to ultraviolet and mutli-purpose bonding system treated adherends

○Takuo Yamamura^{1,2}, Taiyu Gen¹, Shusuke Kusakabe¹, Masayasu Ando², Masato Hotta¹
¹Asahi University, ²Chubu Implant Academy

- P - 6 6 Improving the durability of resin-dentin bonds with an antibacterial monomer MDPB
○Masanori Hashimoto, Nanako Hirose, Haruaki Kitagawa, Satoshi Yamaguchi, Satoshi Imazato
Osaka University
- P - 6 7 Evaluation of initial dentin bonding properties of novel self-adhesive resin cement G-CEM ONE
○Ayaka Sugawara, Tomohiro Kumagai
GC Corporation
- P - 6 8 Layering mechanism of MDP-Ca salt produced in demineralization of enamel and dentin apatite
○Takehiro Yaguchi, Manamu Nagakura, Yasuhiro Tanimoto, Norihiro Nishiyama
Nihon University at Matsudo
- P - 6 9 Development of zirconia adhesive system using silane adhesive system
○Takahiro Murakami, Norihiro Nishiyama, Masahiro Aida
Nihon University at Matsudo
- P - 7 0 Effect of the amounts of lower left lateral incisor linguoversion on the force in multi-bracket appliance
○Keisuke Tochigi, Naomi Saze, Takashi Koda, Kazuhito Arai
Nippon Dental University at Tokyo
- P - 7 1 Canine and first molar widths of stainless steel preformed arch wire
○Takashi Koda, Naomi Saze, Keisuke Tochigi, Kazuhito Arai
Nippon Dental University at Tokyo
- P - 7 2 Enamel micro-crack examination using DIAGNOcam with fluorescence-staining
○Toshio Maseki, Yoichiro Nara
Nippon Dental University at Tokyo
- P - 7 3 Influence of composition and P/L ratio of powder-type denture adhesives comprised of CMC-Na and PVM-MA on adhesive strength
○Hitomi Okazaki, Kazuhiro Yoshida, Hiroshi Murata
Nagasaki University
- P - 7 4 Surface properties of glass fiber-reinforced non-metal-clasp denture materials
○Yasuhiro Tanimoto, Manamu Nagakura, Masahiro Teshima, Norihiro Nishiyama
Nihon University at Matsudo