The 53rd General Session of the Japanese Society for Dental Materials and Devices(JSDMD)

April 11 (Saturday)- 12 (Sunday), 2009
Tower Hall Funabori(Edogawaku Sougou Kumin Hall)
4-1-1 Funabori Edogawa-ku Tokyo 134-0091, JAPAN

April 11 (Saturday)
Hall A
9:25-9:30 Opening Remark
9:30-11:00 General Presentation (Oral Session)
[Machine and Technology 1]

A-01 Nonexcisional cross-sectional imaging of adhesive restoration using optical coherence tomography

OYasushi Shimada[1], Yasunori Sumi[2], Alireza Sadr[1], Junji Tagami[1, 3]

[1]Tokyo Medical and Dental University, [2]National Center for Geriatrics and Gerontology, [3]GCOE International Research Center for Molecular Science in Tooth and Bone Diseases

A-02 Fabrication of ceramic restoration by CAD/RP-CAM method -improvement of strength by sintering and glass infiltration-

OTaiji Sohmura[1], Yuka Nakajima[1], Nozomi Tokuyama[1], Kazuyoshi Kitahara[1], Mitsuyori Suwa[2], Yoichi Kumazawa [3], Soushu Kirihara [2]

[1]Osaka Univ., [2]Osaka Univ. Joining and Welding Res. Inst., [3]Bionic Co.,Ltd

A-03 Stress characteristics of trial FRP post core with loading

OYoji Inaba, Fumio Teraoka, Satoshi Yamaguchi, Masafumi Nakagawa, Taiji Sohmura

Osaka University

[Machine and Technology 2]

A-04 Reevaluation of the effect of water-spray in cutting teeth with the Er:YAG laser

OToru Tsujibayashi, Masanori Nagame, Tetsuo Fukuoka, Kazutoshi Kakimoto, Koichi Toyoda, Yutaka Komasa

Osaka Dental University

A-05 Dental hand skill simulation training using VR haptic device (Part V) -Measurements and evaluation for cutting force of dental hand piece-

OYoshinori Yoshida[1], Satoshi Yamaguchi[1], Kazumichi Wakabayashi[1], Tadashi Nagashima[1], Fumio Takeshige[1], Yusuke Kawamoto[2], Hiroshi Noborio[3], Taiji Sohmura[1]

[1]Osaka University, [2]TGL Inc., [3]Osaka Electro-Communication University

A-06 Dental hand skill simulation training using VR haptic device (Part VI) -Toward introduction of education curriculum-

OSatoshi Yamaguchi[1], Yoshinori Yoshida[1], Kazumichi Wakabayashi[1], Tadashi Nagashima[1], Fumio Takeshige[1], Yusuke Kawamoto[2], Hiroshi Noborio[3], Taiji Sohmura[1]

[1]Osaka University, [2]TGL Inc., [3]Osaka Electro-Communication University

SL-1 Correlation of surface characteristics of dental materials and its application in dentistry

Prof. Lim Bum-Soon

Department of Dental Biomaterials Science, School of Dentistry, Seoul National University

[Metals]

A-07 Difference of Structure of dental casting Ag-Pd-Au-Cu alloy by solidification method

OHisao Fukui[1], Toru Kanno[2], Mitsuo Niinomi[2], Toshikazu Akahori[2], Shozo Tsuruta[1], Masaaki

Nakai[2], Harumi Tsutsumi2

[1]Aichi-gakuin University, [2]Tohoku University

A-08 XAFS analysis of corrosion product of Ni-Ti alloy and stainless steel in soft tissue

OMotohiro Uo, Tsukasa Akasaka, Shigeaki Abe, Fumio Watari

Hokkaido University

A-09 Corrosion behavior of Ti treated by Pt coating and high temperature oxidation in acidic fluoride solution

OKazuhiko Endo, Hiroko Kamezawa, Masanori Hashimoto, Futami Nagano, Morio Ochi, Hiroki Ohno

Health Sciences University of Hokkaido

[Biological Reaction 1]

A-10 Osteoblasts mediated mineralization in 3D fibrin gel system

OTakuya Matsumoto, Ami Mizuno, Miki Kashiwagi, Taiji Sohmura

Osaka University

A-11 Basic Study on Osteogenesis of Osteogenic Factor-Ceramic Composite

OHideki Kawai, Uematsu Yasuaki, Tatsuhide Hayashi, Yohsuke Okeya, Yamato Sato, Masaki Asakura, Soichiro Hamashima, Tatsushi Kawai

Aichi-gakuin University

A-12 Preparation of poly(lactic acid)/calcium carbonate composite nonwoven for GBR

OAkiko Obata[1], Takashi Wakita[1, 2], Yoshio Ota[3], Toshihiro Kasuga[1], Seiji Ban[4]

[1]Nagoya Institute of Technology, [2]Yamahachi Dental Mfg., Co., [3]Yabashi Industries Co., Ltd., [4]Kagoshima University

[Biological Reaction 2]

A-13 Biocompatibility evaluation of polylactic acid (PLA) hybrid guided bone regeneration (GBR) membrane containing silicon species

ONaoshi Takeuchi[1], Miho Machigashira[1], Daisuke Yamashita[1], Motoharu Miyamoto[1], Hironobu Takeuchi[1], Takeshi Wakita[2], Akiko Obata[2], Toshihiro Kasuga[2], Kazuyuki Noguchi[1], Seiji Ban[1]

[1]Kagoshima University, [2]Nagoya Institute of Technology

A-14 Cell adhesion and proliferation on the inner surface of CNT coated 3D scaffold

OEri Hirata, Motohiro Uo, Atsuro Yokoyama, Fumio Watari

Hokkaido Univ.

A-15 The effect of CNT on the growth of hepatic cells

OSachiko Itoh, Tsukasa Akasaka, Yasutaka Yawaka, Fumio Watari

Hokkaido Univ.

SL-2 Novel biosensing devices for oral and health care analysis

Prof. Kohji Mitsubayashi

Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University

April 11 Saturday
Hall B

9:30-15:30 General Presentation (Poster Session) (11:00-12:00 Discussion)

[Award Challenge Posters P-01 - P-04]

P-01 Immune response to corrosion products of Ti alloy

OMasahiro Hiasa, Kenzo Asaoka

Tokushima University

P-02 Inhibitory action of Ti-Ag alloys on biofilm formation

OMasatoshi Takahashi, Kazuko Nakajo, Masafumi Kikuchi, Nobuhiro Takahashi, Yukyo Takada

Tohoku University

P-03 Dental hand skill simulation training using VR haptic device (Part VII) -Improvement of methods to display 3-dimensional model-

OSatoshi Yamaguchi[1], Yoshinori Yoshida[1], Kazumichi Wakabayashi[1], Tadashi Nagashima[1], Fumio Takeshige[1], Yusuke Kawamoto[2], Hiroshi Noborio[3], Taiji Sohmura[1]
[1]Osaka University, [2]TGL Inc., [3]Osaka Electro-Communication University

P-04 The formation mechanism of the biomaterial-tooth interface by functional phosphoric asid ester monomers

OKumiko Yoshihara, Satoshi Hayakawa, Noriyuki Nagaoka, Yasuhiro Yoshida, Kazuomi Suzuki, Shogo Minagi
Okayama University

[General Poster: 11:00 - 12:00 Discussion]
[Clinical Application]

P-05 Radiation light characteristics of light-curing units. -Reduction in inhomogeneity of radiation light-

OHiroyuki Arikawa, Naoyuki Shinohara, Takahito Kanie, Koichi Fujii, Seiji Ban
Kagoshima University

P-06 Development of a temporary luting agent for dental implant consisted of nano-size PMMA

OIchiro Ryukata[1], Hidetoshi Okada[1], Yoshinori Ishida[1], Kazuo Koiso[2], Isao Kawashima[1]
[1]Ohu University, [2]Ohu University,Graduate School of Dentistry

P-07 The development of making system of maxillofacial prosthetics with three-dimensional image construction -Accuracy of the digital impression-

OKyosuke Fukuda, Tomohiro Morikawa, Yoshihiro Terada
Kyushu Univ.

P-08 The high-speed ordinary-temperature ozone disinfection vessel in which again produced portable type is possible.

OKoichi Arai[1], Nobuo Ando[2]
[1]Meikai University, [2]Nippon Dental University at Tokyo

[Machine and Technology]

P-09 Position measurement of inserted implant using Optical Tracker (Part 2)-Development of coordinates transformation software-

OShinji Ono, Satoshi Yamaguchi, Naoki Kusumoto, Tamaki Nakano, Taiji Sohmura, Hirofumi Yatani
Osaka University

P-10 Measuring and Machining of crown by using an optical profile machining with 5 axis control system.

OHiroshi An, Kosuke Ueda, Hiroshi Shiotani
Osaka Electro-Communication University

P-11 Study on the Crystallographic Change of Enamel by CO_2 Laser Irradiation.

OYousuke Ga, Yoshizou Okamoto, Shigeki Matsuya
Fukuoka Dental College

P-12 A method for estimation of surface contact fatigue of dental materials

OKoichi Fujii[1], Hiroyuki Minami[2], Hiroyuki Arikawa[1], Takahito Kanie [1], Seiji Ban[1]
[1]Kagoshima University , [2]Kagoshima University Med. & Dent. Hospital

[Composite Resin]

P-13 Reinforcement of resin composite with carbon fiber

OYukinori Maruo, Masao Irie, Goro Nishigawa, Yoshiyuki Tamada, Morihiko Oka, Shingo Mori, Shogo Minagi, Kazuomi Suzuki
Okayama University

P-14 Bond strength between fiberposts and composite resin : effect of thermal cycling on bond strength

OYuuya Asakawa[1], Hidekazu Takahashi[2], Naohiko Iwasaki[2], Masahiro Kobayashi[1]
[1]Chiba Institute of Technology, [2]Tokyo Medical and Dental University

P-15 Kinetic properties of composite resins during filling procedure

OYoichi Tamura, Kiyoshi Kakuta, Hideo Ogura
Nippon Dental University School of Life Dentistry at Niigata

P-16 Application of microcapsule for resin materials

OMasanori Hashimoto, Shinichi Fujita, Futami Nagano, Kazuhiko Endo, Hiroki Ohno
Health Sciences University of Hokkaido

[Resins, Cements]

P-17 The Dynamic Viscoelasticity of Alcohol-free Trail Tissue Conditioner

OHiroki Tsuka[1], Guang Hong[1], Takeshi Maeda[1], Taizo Hamada[2]
[1]Hiroshima Univ., [2]Tohoku Univ.

P-18 Basic study for dental use of thermo-responsive polyurethane

OTakahito Kanie[1], Hiroyuki Arikawa[1], Koichi Fujii[1], Seiji Ban[1], Yuichi Tomiyasu[2], Shigeki Katsura[2]
[1]Kagoshima University, [2]Yamahachi Dental MFG

P-19 Improved mechanical propertiea Spherical filler added glass-ionomer for luting. Part I

ORika O, Masao Irie, Takashi Yamashiro, Kazuomi Suzuki
Okayama University

P-20 Effect from the flexural strength of orthodontic resin cement on the bond strength of bracket

OJun Li[1, 2], Isao Shibuya[2], Yasuhiro Tanimoto[2], Haruyoshi Takahashi[2], Norihiro Nishiyama[2]
[1]Nihon University Graduate School of Dentistry at Matsudo, [2]Nihon University School of Dentistry at Matsudo

P-21 Thermal property of a new resin applying bisfunctional siloxane oligomer - MMA copolymer

OYujin Aoyagi, Kozo Umemoto, Shigeaki Kurata
Kanagawa Dental College

P-22 Resistance of brushing abrasion of fluorine and silver doped diamond-like carbon film coated acrylic resin

OYukari Shinonaga, Kenji Arita
Tokushima University

[Impression Materials]

P-23 Effects of the spray disinfection of alginate impressions on the dimensional accuracy and deformation of stone models simulated full crown preparation with adjacent teeth

OHisako Hiraguchi, Fumishige Sudo, Yukio Akashi, Masashi Yui, Kenji Yagihara, Toshiaki Nakano, Takayuki Yoneyama
Nihon University

P-24 Properties of newly developed vinyl polysiloxane impression material

OMasayuki Hattori, Hiromichi Ichikawa, Shinji Takemoto, Masao Yoshinari, Eiji Kawada, Yutaka Oda
Tokyo Dental College

P-25 Study on the Bond Strength of Self-Wetting Hybrid Polysiloxane Impression Materials

OAkio Izumida, Minoru Ishibashi, Masanobu Yoda
Tohoku University

P-26 Wettability of Vinyl Polysiloxane Impression Materials

OTaniichirou Yamaga, OSatoru Awata, Jun Omatsu, Yoshiaki Hasegawa, Yuko Nagasawa, Yasushi Hibino, Hiroshi Nakajima
Meikai University

[Biological Tissue]

P-27 Analysis of aging in rat hard tissues

OToshiko Inoue, Makoto Saito, Masato Yamamoto, Fumio Nishimura, Takashi Miyazaki
Showa University

P-28 In vivo behavior of CNT molecular heater injected into mause tongue

OMinoru Kawaguchi[1, 3], Jun Ohno[2, 3], Tadao Fukushima[1, 3]
[1]Bioengineering Section, Fukuoka Dental College, [2]Pathology Section, Fukuoka Dental College,

[3]JST, CREST

P-29 Preparation of DNA/protamine complex and biological characteristics of complex

OTadao Fukushima[1], Jun Ohno[1], Yusuke Inoue[2], Minoru Kawaguchi[1], Tohru Hayakawa[3], Makoto Mitarai[4]

[1]Fukuoka Dental College, [2]Fukuoka College of Health Sciences, [3]Nihon University, [4]Maruha Nichiro Holdings

P-30 Branching morphogenesis of mouse submandibular gland on alginate gel with different stiffness

OHiroyuki Miyajima, Takuya Matsumoto, Sanghyun An, Taiji Sohmura

Osaka University

P-31 Neovascularization processes in a pellet culture system

OMari Akiyama, Shoji Takeda

Osaka Dental University

[Disinfection, Sterilization, Toxicity]

P-32 *In vitro* embryotoxicity testing of metal ions by ES-D3 cells with metabolism activity conditions

OKoichi Imai[1], Akito Tanoue[2], Shinji Kusakawa[2], Shoji Takeda1

[1]Osaka Dental Univ., [2]National Res. Inst. for Child Health and Development

P-33 Literature research regarding developmental and reproductive toxicity induced by dental materials

OToshio Hongo[1], Sakari Hikage[2]

[1]Tokyo Medical and Dental University, [2]Health Sciences University of Hokkaido

P-34 Effects of dose-dependent Cu (2+) ions on production of super-oxide by mouse polymorphonuclear leukocyte (neutrophil)

OMasayuki Taira, Kaori Sasaki, Setsuo Saitoh, Takashi Nezu, Yoshima Araki

Iwate Medical University

P-35 Ab-initio calculations on the structures and electronic states of ozone-water clusters

OShigeaki Abe, Tsukasa Akasaka, Motohiro Uo, Fumio Watari, Hiroto Tachikawa

Hokkaido University

P-36 Capture of bacteria by flexible carbon nanotubes

OTsukasa Akasaka, Shigeaki Abe, Motohiro Uo, Fumio Watari

Hokkaido University

P-37 Does triethylene glycol dimethacrylate produce methacrylic acid in human saliva?

OToshio Hongo[1], Sakari Hikage[2], Hidekazu Takahashi[1]

[1]Tokyo Medical and Dental University, [2]Health Sciences University of Hokkaido

Banquet (*Event Hall* in Tower Hall Funabori)

April 12 (Sunday)

Hall A

9:15-11:00 General Presentation (Oral Session)

[Ceramics 1, Cements 1]

A-16 *In vitro* osteoconductivity of hydrothermally-treated alumina substrates with $CaCl_2$ solution

OKanji Tsuru[1], Abdullah Tarique[1,2], Michito Maruta[1], Akari Takeuchi[1], Shigeki Matsuya[2], Yoshihiro Terada[1], Kunio Ishikawa[1]

[1]Kyushu University, [2]Fukuoka Dental College

A-17 Effect of stoichiometry of synthetic octacalcium phosphate (OCP) on its bone regenerative property

Naohisa Miyatake[1], Koshi N Kishimoto[1], Takahisa Anada[1], Hideki Imaizumi[2], Eiji Itoi[1], OOsamu Suzuki[1]

[1]Tohoku University, [2]Osaki Citizen Hospital

A-18 Preparation of Carbonate Apatite Block by Hydrothermal Treatment of Calcium Carbonate - Dicalcium Phosphate Mixture - the second report

OFumikazu Daitou[1], Akari Takeuchi[1], Kanji Tsuru[1], Shigeki Matsuya[2], Yoshihiro Terada[1], Kunio Ishikawa[1]

[1]Kyushu University, [2]Fukuoka Dental College

A-19 Synthesis and characterization of hydroxyapatite containing Lysine and Histidine

OHafiz Mohammad, Takuya Matsumoto, Taiji Sohmura

Osaka University

[Ceramics 2, Cements 2]

A-20 Comparison of poling for porous apatite of different porosity

OHideki Sagawa, Akiko Nagai, Kimihiro Yamashita

Tokyo Medical and Dental University

A-21 "Self-Sealing" Ability of OCP-based Cement as a Root Canal Filling Material

OYuki Imamura, Yumi Tanaka, Kimihiro Yamashita

Tokyo Medical and Dental University

A-22 Fabrication of alpha-Tricalcium Phosphate Based Apatite Cement containing Tricalcium Silicate

OMichito Maruta[1], Cardenas Lester.J[1], Akari Takeuchi[1], Kanji Tsuru[1], Shigeki Matsuya[2], Kunio Ishikawa[1]

[1]Kyushu University, [2]Fukuoka Dental College

SL-3 Present Situation of Korea Dental and Medical Education.

Prof. Kyohan Kim

Department of Dental Biomaterials, School of Dentistry, Kyungpook National University

SL-4 The mechanism of Impact Factor: citation metrics for scholarly journals and research evaluation

Yoko Miyairi

Thomson Reuters Scientific

14:15-16:30 General Presentation (Oral Session)

[Ceramics 3, Adheision]

A-23 Effect of methodology and specimen thickness on the flexure strength of zirconia

OHiroshi Kono[1], Motoharu Miyamoto[1], Daisuke Yamashita[1], Makoto Noda[1], Yuji Okuda[1], Masahiro Nawa[2], Seiji Ban[1]

[1]Kagoshima Univ., [2]Panasonic Electric Works Co., Ltd.

A-24 Bonding strength of resin-based cement for zirconia -Effect of surface treatment-

OMakiko Hashiguchi, Hideo Sato, Yasuhiro Nishi, Makoto Noda, Yuji Okuda, Eiichi Nagaoka, Seiji Ban

Kagoshima Univ. Grad. Sch.

A-25 Adhesive properties between FRP and restorative resin

OFumio Teraoka, Yoji Inaba, Masafumi Nakagawa, Taiji Sohmura

Osaka University

A-26 New adhesion theory -Cure strain and bond strength-

OKunio Wakasa[1], Shigeru Uno[2], Masayuki Okazaki[1]

[1]Hiroshima Univ, [2]Toranomon Hospital

[Resins]

A-27 Vinyl ester/Polymer mixture system (Part 7) -Effect of polymer on the mechanical properties of polymerized VE/polymer paste -

OJiro Tanaka[1], Yoshiya Hashimoto[2], Shoji Takeda[2], Kazuomi Suzuki[1]

[1]Okayama University, [2]Osaka Dental University

A-28 Influence of surface roughness to color and gloss of Estelite Sigma Quick

OYumiko Hosoya, Toshiaki Ogata, Takanobu Shiraishi
Nagasaki University

A-29 SEM observations of the Acid-Base Resistant Zone after long-term storage in water

OChiaki Ichikawa[1], Go Inoue[1], Toru Nikaido[1], Junji Tagami[1, 2]
[1]Tokyo Medical and Dental University, [2]Support Program for Improving Graduate School Education at Tokyo Medical and Dental University

A-30 Influence of irradiation duration on dentin bond strength of a composite for core foundation

OTatsuki Oto, Akimasa Tsujimoto, Satoshi Oooka, Atsushi Irokawa, Keishi Tsubota, Akitomo Rikuta, Susumu Andou, Masashi Miyazaki
Nihon University School of Detistry

A-31 Ultrasonic monitoring of the elastic modulus of composites for core foundation

OGenta Yasuda, Ryou Kawamoto, Hiroaki Tuchiya, Takeshi Yosida, Toshiki Takamizawa, Hiroyasu Kurokawa, Susumu Ando, Masashi Miyazaki
Nihon University

April 12 (Sunday)
Hall B

9:30-15:30 General Presentation (Poster Session) (11:00-12:00 Discussion)

[Non clasp denture]

P-38 Basic Properties of polymer materials for "non clasp denture"

OHidekazu Takahashi[1], Eiji Kawada[2], Yukimichi Tamaki[3], Fumio Teraoka[4], Norio Hosoi[5], Takaichi Yishida[6]
[1]Tokyo Medical and Dental University, [2]Tokyo Dental Collage, [3]Showa University, [4]Osaka University, [5]Tsurumi University, [6]Nippon Dental Collage

[Cements]

P-39 The Development of a New Apatite Glass-ionomer Cement

OAimi Yamamoto[1], Kenji Arita[1], Milanita E. Lucas[1], Yukari Shinonaga[1], Katsuhito Kato[2]
[1]The University of Tokushima, [2]GC corporation, Tokyo, Japan

P-40 Effects of a new temporary cement on final cementation

OKatsuhito Kato, Hisashi Nakaseko, Hideki Yarimizu, Tetsuro Sakuma
GC CORPORATION

P-41 Characteristics of experimental temporary cements containing flake shaped glass filler

OYuko Nagasawa, Yoshiaki Hasegawa, Jun Omatsu, Taniichiro Yamaga, Yasushi Hibino, Hiroshi Nakajima
Meikai University

P-42 Characteristics of a new temporary cement "FTC-100"

OYasushi Hibino, Yuko Nagasawa, Yoshiaki Hasegawa, Jun Omatsu, Satoru Awata, Taniichiro Yamaga, Hiroshi Nakajima
Meikai University

P-43 Bioreactivity and biocompatibility study of Strontium containing apatite cement

OKazumitsu Sekine, Ken-Ichi Hamada, Kikuji Yamashita, Fumiaki Kawano, Kenzo Asaoka
The University of Tokushima

[Ceramics]

P-44 Effect of surface treatment of zirconia ceramics on the bonding strength to resin cements

OYoshinori Ishida, Hidetoshi Okada, Ichiro Ryukata, Kazuo Koiso, Isao Kawashima
Ohu University

P-45 The fabrication and biocompatibility evaluation of ZrO2/HA composite scaffold

OSanghyun An[1], Takuya Matsumoto[1], Shiho Ishihara[2], Atsushi Nakahira[2], Taiji Sohmura[1]
[1]Osaka University, [2]Osaka Prefecture University

P-46 Mechanical properties of 2 piece type zirconia implant

OTakamitsu Yoshida[1], Kaoru Tamura[1], Sakae Nagasawa[1], Toshihide Mizoguchi[1], Takei Kashiwabara[2], Michio Ito[1]
[1]Matsumoto Dental University, [2]Kikusui Chemical Industries CO., LTD.

P-47 Preparation of porous carbonate apatite from DCPD

OAtsushi Shibatsuji, Keiichi Kanayama, Mayumi Iijima, Masanori Adachi, Toshiaki Shibutani, Yutaka Doi
Asahi university

P-48 Apatite-like compownd formation on the carbon nanotube surface in body simulated fluid

OTakamitsu Koshikawa[1], Motohiro Uo[1], Tsukasa Akasaka[1], Yoshinori Kuboki[2], Fumio Watari[1]
[1]Hokkaido University, [2]Proffessor Emeritus, Hokkaido University

P-49 Acid resistance of zirconia

OMakoto Noda, Yuuji Okuda, Hiroyuki Arikawa, Takahito Kanie, Koichi Fujii, Seiji Ban
Kagoshima University

P-50 Synergistic immunostimulating effect of CpG DNA/calcium phosphate complex

OYoshitomo Honda, Takahisa Anada, Osamu Suzuki
Tohoku University

P-51 Effect of Coloring Conditions while Sintering on Bending Strength and Hardness of Zirconia Ceramics

OSoichi Kuroda, Daiichiro Yokoyama, Sachie Kishida, Jie Rin, Minori Hatta, Aki Hasegwa, Akikazu Shinya, Harunori Gomi, Akiyoshi Shinya
The Nippon Dental Univ., at Tokyo

P-52 Microsturucture evaluation of the interface between dental zirconia ceramics and porcelain

OYohei Kawai, Motohiro Uo, Fumio Watari
Hokkaido University

[Porcelains]

P-53 Impact strength of dental all-ceramic for CAD/CAM

OMin Yan[1], Shinn-Jyh Ding[1], Hidekazu Takahashi[2]
[1]Chung Shan Medical University, [2]Tokyo Medical and Dental University

P-54 Toughening of dental porcelain by silver nano-particles

OMitsunori Uno, Ryugo Nonogaki, Toshikazu Omori, Masakazu Kurachi, Nobukazu Wakamatsu, Mayumi Iijima, Yutaka Doi , Takayasu Goto
Asahi University

[Metals]

P-55 Anodic oxidation of titanium by polarity inversion in alkaline electrolyte

OSeigo Okawa, Kikuo Homma, Mitsugu Kanatani, Kouichi Watanabe
Niigata University

P-56 Fabrication of sintered products of titanium using a PAS method (part 8) -Mechanical properties of porous titanium sheet for the surgical operation-

OWon Sik Lee, Yu Kataoka, Fukunaga Ohtsuka, Fumio Ata, Yukimichi Tamaki, Takashi Miyazaki, Ryutaro Kamijo
Showa University

P-57 Fatigue test of Ni-Ti orthodontic wires under corrosive environment

OShin-Ichi Goto, Kazuo Ohkuma, Hideo Ogura
Niponn Dental Unv.

P-58 Corrosion of anodized Ni-Ti orthodontic wire in acidic solution containing fluoride

OKikuo Homma, Kouichi Watanabe, Seigo Okawa, Mitsugu Kanatani
Niigata University

P-59 Structure and mechanical properties of Ag-Pd-Cu-Au dental alloy held in high temperature and quenched following casting

OSetsuo Saito, Kaori Sasaki, Hisashi Nezu, Masayuki Taira, Yoshima Araki
Iwate Medical University

P-60 Relation between elapsed time and casting accuracy after invested

OKen Takeuchi[1], Sakae Nagasawa[1], Takamitu Yosida[1], Kaoru Tamura[1], Yuji Kawase[1], Masatosi Yamazoe[1, 2], Mitio Ito[1]
[1]Matumoto Dental University, [2]Yamamoto Precious Metal CO., Ltd

P-61 Chemical deposition of carbonate apatite coatings on Ti with self-assembled monolayers

OMasanori Adachi, Yuusuke Yamaguchi, Nobukazu Wakamastu, Hideo Kamemizu, Mayumi Iijima, Yutaka Doi
Asahi University

[Cells]

P-62 Endocrine-disrupting activity of ultraviolet absorpters

OTomomi Hayashida, Yuji Nomura, Ryo Nishikiori, Isao Hirata, Masayuki Okazaki
Hiroshima University

P-63 Fabrication of sintered products of titanium using a PAS method (part 9)-Biocompativility of porous titanium sheet for the surgical operation-

OYu Kataoka, Fukunaga Otsuka, Won Sik Lee, Fumio Ata, Yo Shibata, Yukimichi Tamaki, Ryutaro Kamijo, Takashi Miyazaki
Showa University

P-64 Development of calcium phosphate-binding liposome

OTakahisa Anada, Yoshitomo Honda, Osamu Suzuki
Tohoku University

[Adheision]

P-65 Surface modification effects of the bonding surface treated by Sirano Pen

OAkihiro Fujisima[1], Kenichiro Takeuchi[1], Aya Kusano[1, 2], Atsufumi Manabe[1], Takashi Miyazaki[1]
[1]Showa University, [2]Japan Air Self Defense Force

P-66 Development of the self-etching primer with high hydrolytic stability

OShen Ma[1,2], Yasuhiro Tanimoto[2], Ichiko Teshima[2], Norihiro Nishiyama2
[1]Nihon University Graduate School of Dentistry at Matsudo, [2]Department of Dental Biomaterials, Nihon University School of Dentistry at Matsudo

P-67 Influence of different mixing method on physical properties of the self-adhesive resin cement

OLinlin Han, Masayoshi Fukushima, Takashi Okiji
Niigata Univ.

P-68 The tensile bond strength between dentin and bonding agent after cyclic loading

OKohyoh Soeno, Yohsuke Taira, Takashi Sawase
Nagasaki University

P-69 Adhesion to pure gold using an experimental adhesive resin containing a fluorinated polymer

OYoshinori Kadoma
Tokyo Medical and Dental University

P-70 Influence of bonding strength on surface roughness of metal core

OMichihiko Matsumoto, Shinji Takemoto, Masayuki Hattori, Masao Yoshinari, Eiji Kawada, Yutaka Oda
Tokyo Dental College

P-71 The effect of self-adhesive resin cement and surface treatment on bond strength to enamel

OJie Lin, Souichi Kuroda, Sachie Kichida, Aki Hasegawa, Minori Hatta, Daiichiro Yokoyama, Akikazu Shinya, Harunori Gomi, Yasuo Hatano, Akiyoshi Shinya
The Nippon Dental University

P-72 Long-term durability and degradation of one-bottle resin adhesives

OShinichi Fujita, Masanori Hashimoto, Kazuhiko Endo, Hiroki Ohno
Health Sciences University of Hokkaido

P-73 The effects of Colloidal Platinum Nanoparticles on resin/dentin adhesion using 4-META/MMA-TBB influenced by sodium hypochlorite.

OFutami Nagano[1], Kazuhiko Endo[1], Masanori Hashimoto[1], Shuhei Hoshika[2], Hidehiko Sano[2], Hiroki Ohno[1]
[1]Health Sciences University of Hokkaido, [2]Hokkaido University

P-74 Preparation of pseudo-dentin QCM sensor by adsorption of collagen on HAP sensor

OTakashi Nezu, Kaori Sasaki, Setsuo Saitoh, Masayuki Taira, Yoshima Araki
Iwate Medical University

P-75 Influence of grinding condition on bond strength of self-etching adhesive systems to tooth substrates

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