## The 70<sup>th</sup> General Session of the Japanese Society for Dental Materials and Devices (JSDMD)

October 14 (Saturday) - 15 (Sunday), 2017

Toki Messe (URL: http://www.tokimesse.com)

6-1 Bandaijima, Chuo-ku, Niigata, 950-0078

#### October 14 (Saturday)

#### ■ Hall A

9:40 - 9:45 **Opening Remark** 

9:45 - 11:00 Young Investigator Award Challenge (Oral Session)

A - 1 Evaluation of ability of a 4-META/MMA adhesive resin incorporating FGF-2-loaded polymer particles to promote tissue regeneration

OTsuboi Ririko, Kitagawa Haruaki, Sasaki Jun-Ichi, Imazato Satoshi

Osaka University

## A - 2 Development of zirconia adhesive system Part 2

OMurakami Takahiro<sup>1</sup>, Takemoto Shinji<sup>2</sup>, Iwasaki Taro<sup>1</sup>, Nishiyama Norihiro<sup>1</sup>, Aida Masahiro<sup>1</sup> <sup>1</sup>Nihon University at Matsudo, <sup>2</sup>Iwate Medical University

A - 3 Optimum design of non-metal-clasp denture made of GFRTP

ONagakura Manamu, Tanimoto Yasuhiro, Nishiyama Norihiro

Nihon University at Matsudo

A - 4 Development of image analysis program by using Python - Relationship between a ratio of composite resin matrix and curing temperature -

OHori Miki<sup>1</sup>, Fujimoto Kotaro<sup>1</sup>, Tomino Masafumi<sup>1</sup>, Hori Tadasuke<sup>1,2</sup>

Sekine Hironao<sup>2</sup>, Kawai Tatsushi<sup>1</sup>

<sup>1</sup>Aichi Gakuin University, <sup>2</sup>Alid Inc.

A - 5 Bone response toward nanosecond-pulsed laser-treated zirconia implant

OHirota Masatsugu, Hayakawa Tohruo

Tsurumi University

#### - Hall A

## 13:10 - 14:10 **Special Lecture**

"A novel strategy collaborating with device science and technology in dental materials and devices"

Mizuno Jun

Waseda University

## 15:15 - 17:15 General Presentation (Oral Session)

A - 6 Development of composite material with comparable hardness to human-enamel

Olkeda Hiroshi, Nagamatsu Yuki, Shimizu Hiroshi

Kyushu Dental Unive	ersity
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Nagasaki University

A - 7	Synthesis of supermolecule-based photocleavable crosslinkers for smart dental materials
	OArisaka Yoshinori, Tamura Atsushi, Takagaki Tomohiro, Tagami Junji, Yui Nobuhiko
	Tokyo Medical and Dental University
A - 8	In vitro wear behavior of indirect resin composites against bovine enamel
	OTanaka Kensuke <sup>1</sup> , Someya Tomoko <sup>1</sup> , Kasahara Masaaki <sup>1</sup> , Ohyama Takashi <sup>1</sup> , Takemoto Shinji
	Yoshinari Masao <sup>1</sup> , Hattori Masayuki
	<sup>1</sup> Tokyo Dental College, <sup>2</sup> Iwate Medical University
A - 9	Evaluation of fracture strength and longevity of CAD/CAM composite crowns
	OYamaguchi Satoshi, Kani Renshirou, Kawakami Kazuma, Inoue Sayuri, Kiba Wakako, Imazato Satoshi
	Osaka University
A - 10	Effect of grinding load on machinabilities of resin blocks for CAD/CAM
	Yamamoto Yusuke, Iwasaki Naohiko, Chaiamornsup Patcharanun, Suzuki Tetsuya, Takahashi Hidekazu
	Tokyo Medical and Dental University
A - 11	Influence of bosmin treatment on the bond strength of resin cement to tooth surface
71 11	Saito Ryuichi, Ohki Tatsuya, Moriue Taisuke, Igarashi Kazuaki, Ishida Yoshinori, Okada Hidetosh
	Ohu University
۸ 12	Improvement of bonding strength between conventional glass polyalkenoate cements and zirconia
cerami	
CCI allii	
	○Fujii Yoshirou, Okada Masahiro, Irie Masao, Matsumoto Takuya
۸ 12	Okayama University
A-13	Influence of composition and P/L ratio of powder-type denture adhesives on adhesive strength and initial
	viscosity
	Okazaki Hitomi, Yoshida Kazuhiro, Murata Hirosh
	Nagasaki University
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	er 14 (Saturday)
• Hall B	
9:45 - 1	16:30 General Presentation (Poster Session)
	(Odd numbers: 11:10 - 11:55, Even numbers: 14:20 - 15:05 Discussion)
P – 1	Dynamic mechanical properties and behavior of radical generation for newly developed quick self-curing
	acrylic resin
	OTakase Kazuma, Kurogi Tadafumi, Yamada Mao, Yoshida Kazuhiro, Murata Hirosh

P-2 Effect of polymerization temperature on the properties of autopolymerizing resin

	Hiroshima University
P - 3	Study of polymer material for denture with self cleaning
	OKumasaka Tomonari, Sakakibara Jun, Hoshi Noriyuki, Kimoto Katsuhiko
	Kanagawa Dental University
P - 4	Development of hybrid composite resin for CAD/CAM processing (Part 6): High filler-filling and strengthening
	OMizobuchi Shingo, Kato Takahiro, Yamazoe Masatoshi, Anraku Teruo
	YAMAKIN Co., Ltd.
P - 5	Study on hybrid ceramics using CAD/CAM (Part 5) -Evaluation of mechanical properties hybrid ceramics by
	three-point bending test-
	○Kameyama Yuka¹, Ohashi Katsura¹, Yamaguchi Hiroaki¹, Miyake Kaori¹, Oshikawa Akihiro¹,
	Shimoyama Kazuo <sup>1</sup> , Wada Yuuki <sup>1</sup> , Tanimoto Yasuhiro <sup>2</sup> , Hirayama Satoshi <sup>2</sup> , Nihei Tomotarou <sup>1</sup>
	<sup>1</sup> Kanagawa Dental University, <sup>2</sup> Nihon University
P - 6	Mechanical properties of recent new composite resins for CAD/CAM
	○Iwasaki Naohiko, Yasue Toru, Shiozawa Maho, Yamamoto Yusuke, Tanaka Shinji
	Suzuki Tetsuya, Takahashi Hidekazu
	Tokyo Medical and Dental University
P - 7	Flexural strength of experimental resin composite block for CAD/CAM crowns
	OHibino Yasushi, Nagasawa Yuko, Shigeta Hirotaka, Eda Yoshikazu, Matsumoto Shigeki, Omatsu Jun,
	Awata Satoru, Wada Ken-ichi, Nakajima Hiroshi
	Meikai University
P - 8	In silico analysis of influence of different silane coupling ratios on compressive strength of CAD/CAM
	composite resin blocks
	OKashima Kana, Yamaguchi Satoshi, Imazato Satoshi
	Osaka University
P - 9	The effects of glass fiber reinforcement with buffering space toward high functionality of mouth guard
	OChurei Hiroshi, Wada Takahiro, Yoshida Yuriko, Tanabe Gen, Wada Takahiro, Fukasawa Shintaro,
	Shirako Takahiro, Uo Motohiro, Takahashi Hidekazu, Ueno Toshiki
	Tokyo Medical and Dental University
P - 10	Mechanical properties of experimental SiC fiber reinforced composite resin
	○Taka Norimasa¹, Aoyagi Yujin¹, Kimura Tatsuya², Okawa Seigo¹
	<sup>1</sup> Niigata University, <sup>2</sup> Medical Corporation Tokushinkai Group
P - 11	Mechanical property of SiC fiber reinforced acrylic resin
	○Aoyagi Yujin¹, Taka Norimasa¹, Kimura Tatsuya², Okawa Seigo¹
	<sup>1</sup> Niigata University, <sup>2</sup> Medical Corporation Tokushinkai Group
P - 12	Study on water resistance of light-cured glazing agents applied on resin composites
	OAoki Harumi, Miyasaka Taira, Aoyagi Yusuke, Ishida Yoshiki, Miura Daisuke, Harada Yuu, Watanabe Satoru
	Nippon Dental University at Tokyo

OMorita Koji, Tsuka Hiroki, Doi Kazuya, Abekura Hitoshi, Tsuga Kazuhiro

P - 13	Analysis of organic sulfur compounds detected from the interface between acrylic resin and noble metal alloys
	○Hiraba Haruto, Koizumi Hiroyasu, Yoneyama Takayuki, Matsumura Hideo Nihon University
P - 14	Effect of surface treatment agent on lamination bonding strength of mouth guard sheet materials
	OTanabe Gen, Churei Hiroshi, Yoshida Yuriko, Wada Takahiro, Uo Motohiro, Ueno Toshiaki Tokyo Medical and Dental University
P - 15	Evaluation of laser pretreatment on bonding durability of adhesive resin cements to polyetheretherketone (PEEK)
	○Tsuka Hiroki, Morita Koji, Doi Kazuya, Kobatake Reiko, Abekura Hitosi, Tsuga Kazuhiro Hiroshima University
P - 16	Adhesive properties of PEEK by UV irradiation
	○Okawa Seigo, Taka Norimasa, Aoyagi Yujin, Izumi Kenji Niigata University
P - 17	Effect of sandblasting on surface roughness and flexural strength of zirconia ceramics
	Okada Masahiro, Taketa Hiroaki, Torii Yasuhiro, Irie Masao, Matsumoto Takuya
	Okayama University
P - 18	Wettability enhancement of dental zirconia by short annealing (Part 3) Comparison with tooth brushing
	○Tsuruta Shozo, Iwata Junji, Mizuno Masanori, Uematsu Yasuaki, Kawai Tatsushi, Yamamoto Iichiro
	Aichi Gakuin University
P - 19	Effect of sintering conditions on properties of zirconia (Part 2)
	○Kono Hiroshi, Arikawa Hiroyuki, Kikuchi Masafumi  Kagoshima University
P - 20	Effect of hydrothermal treatment of TZ-3Y-E by yttrium nitrate on tetragonal-monoclinic transformation
1 - 20	Valanezhad Alireza, Tashima Yumiko, OWatanabe Ikuya
	Nagasaki University
P - 21	Aesthetic effect of opaque white hydroxyapatite artificial enamel sheet
	○Hirai Mizuki¹, Hontsu Shigeki¹, Katayama Ichiro¹, Kato Nobuhiro¹, Hashimoto Yoshiya²,
	Yoshikawa Kazushi <sup>2</sup> , Yamamoto Kazuyo <sup>2</sup>
	<sup>1</sup> Kinki University, <sup>2</sup> Osaka Dental University
P - 22	Characterization of calcium phosphate coated zirconia
	OKodama Kouta, Valanezhad Alireza, Murata Hiroshi, Watanabe Ikuya
	Nagasaki University
P - 23	In vivo evaluation of carbonate apatite granule: Comparison of bone substitutes in canine madible defect model
	OSugiura Yuki, Tsuru Kanji, Tsuchiya Akira, Ishikawa Kunio
	Kyushu University
P - 24	In vivo evaluation of carbonate apatite granule in canine peri-implant model
	○Tsuru Kanji, Tsuchiya Akira, Sugiura Yuki, Ishikawa Kunio
	Kyushu University

P-25 Change in new bone strength of carbonate apatite granule implanted to rabbit femur

	Kyushu University
P - 26	Novel bioactive porous hydroxyapatite developed using a phosphoric acid-etching treatment
	ODoi Kazuya, Abe Yasuhiko, Okazaki Yohei, Kobatake Reiko, Morita Koji, Tsuka Hiroki, Tsuga Kazuhiro
	Hiroshima University
P - 27	Evaluation of vertical bone augmentation using octacalcium phosphate-gelatin composites
	○Iwama Ryosuke, Shiwaku Yukari, Anada Takahisa, Takahashi Tetsu, Suzuki Osamu
	Tohoku University
P - 28	Effect of calcium phosphate materials on the differentiation of osteocyte cell line
	OSai Yuko, Anada Takahisa, Shiwaku Yukari, Takahashi Tetsu, Suzuki Osamu
	Tohoku University
P - 29	Fatigue Resistance of GUMMETAL Clasps
	OShimamoto Kazuya, Tamaki Yukimichi, Wakamatsu Nobukazu, Iwahori Masatoshi, Miyao Mtonobu
	Asahi University
P - 3 0	Influence of surface modification for structure of titanium thin membrane
	OKobatake Reiko, Doi Kazuya, Morita Koji, Tsuka Hiroki, Kubo Takayasu, Tsuga Kazuhiro
	Hiroshima University
P - 3 1	Dimensional accuracy of partial denture framework fabricated by electron beam melting system
	OAsakura Masaki, Hayashi Tatsuhide, Kobayashi Shuichiro, Aimu Koki, Kawai Tatsushi
	Aichi Gakuin University
P - 3 2	Accuracy of titanium alloy fabricated selective laser sintering
	○Shiratori Sakura¹, Kuroda Soichi¹, Shinya Akikazu¹,², Niitsuma Akinori¹, Fujishima Shin¹,
	Gomi Harunori <sup>1</sup>
	<sup>1</sup> Nippon Dental University at Tokyo, <sup>2</sup> University of Turku
P - 33	Mechanical properties of samples fabricated by selective laser sintering of titanium metal powder
	○Harada Yuu, Miyasaka, Taira, Ishida Yoshiki, Watanabe Satoru, Aoki Harumi, Aoyagi
	Yusuke, Miura Daisuke
D 2.4	Nippon Dental University at Tokyo
P-34	Study on the effective condition of heat treatment on the anisotropy control of selective laser melted Co-Cr alloy
	○Kajima Yuka <sup>1,2</sup> , Takaichi Atsushi <sup>2</sup> , Nakamoto Takayuki <sup>3</sup> , Nuttaphon Kittikundecha <sup>2</sup> , Nomura Naoyuki <sup>1</sup> ,
	Takahashi Hidekazu <sup>2</sup> , Hanawa Takao <sup>2</sup> , Wakabayashi Noriyuki <sup>2</sup> , Kawasaki Akira
	<sup>1</sup> Tohoku University, <sup>2</sup> Tokyo Medical and Dental University,
	<sup>3</sup> Technology Research Institute of Osaka Prefecture
P - 35	Milling characteristics of CAD/CAM resin blocks and ceramic blocks
	OHikita Kazuhiro, Maida Takeo, Nezu Takashi, Endo Kazuhiko, Saitoh Masato
	Health Sciences University of Hokkaido

○Tsuchiya Akira, Tsuru Kanji, Sugiura Yuki, Ishikawa Kunio

P-36	Study on 3D scanning accuracy of the bridge abutment model
	○Ishida Yoshiki, Miyasaka Taira, Aoki Harumi, Aoyagi Yusuke, Miura Daisuke, Harada Yuu, Watanabe Satoru,
	Nippon Dental University at Tokyo
P - 37	Study for the dimensional accuracy of a 3D printed arch form model -Influence of design shape and build direction-
	○Hori Tadasuke <sup>1,2</sup> , Hori Miki <sup>1</sup> , Sekine Hironao <sup>1</sup> , Kawai Tatsushi <sup>1</sup>
	<sup>1</sup> Aichi Gakuin University, <sup>2</sup> Alid Inc.
P-38	Development of visible light-polymerized soft denture liners with 2-EHMA, i-BMA and ATBC - Biocompatibility -
	OMori Tomoyasu, Takase Kazuma, Egoshi Takafumi, Murata Hiroshi
	Nagasaki University
P-39	Cell viability by 3D model with interaction between nano-zinc oxide and Bis-GMA
	Shirai Tsubasa, ○Imai Koichi
	Osaka Dental University
P - 40	Study on photodynamic therapy with 8-MOP for oral mucosal disease
	○Ishikawa Hiroki, Imai Koichi
	Osaka Dental University
P - 4 1	Micro/nano-patterning of gelatin by crosslinking with genipin
	OAkasaka Tsukasa, Abe Shigeaki, Yoshida Yasuhiro
	Hokkaido University
P - 42	Mesenchymal stem like cells derived from human skin integration-free iPS cells for bone augmentation
	OUeda Mamoru, Hashimoto Yoshiya, Honda Yoshitomo, Imai Koichi
	Osaka Dental University
P - 43	Effects of the setting and removal times of telescopic zirconia crowns on retentive force and settling
	○Yoshikawa Yusuke, Torii Katsunori, Fujiki Suguru, Shibata Shunsuke, Tanaka Junko, Tanaka Masahiro
	Osaka Dental University
P - 4 4	Proposal for fabrication of models by development of next generation material -Physical properties of super fast
	setting and fluidity dental stone-
	○Kojima Kenji, Mori Daizaburo, Kumagai Tomohiro
	GC Corporation
P - 4 5	Application of neutral electrolyzed water to prevention of infection during gypsum model trimming
	ONagamatsu Yuki, Nagamatsu Hiroshi, Ikeda Hiroshi, Shimizu Hiroshi
	Kyushu Dental University

#### Foyer

## 9:45 - 17:15 Companies Exhibition

October 15	(Sunday)
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9.00 - 11.00	<b>General Presentation</b>	(Oral	Session'	١
7.00 - 11.00	Ochci ai i i cochtanon	(OI ai	DC35IUII	,

A - 14	Controlled release property of drug models on glass ionomer cement containing nanoporous materials
	Era Yuko, Nakanishi Ko, OAbe Shigeaki, Tamai Miho, Akasaka Tsukasa, Yoshida Yasuhiro
	Hokkaido University
A - 15	Biofilm formation via oral bacterial power generation by a microbial fuel cell

OKameda Takashi, Oka Shunya, Ohkuma Kazuo Nippon Dental University at Niigata

A - 16 In vivo evaluation of carbonate apatite granule.: Comparison of bone substitutes in canine madible defect model

OIshikawa Kunio, Tsuchiya Akira, Sugiura Yuki, Tsuru Kanji

Kyushu University

A - 17 Effect of mixing ratio of OCP and gelatin on bone regeneration of rat calvaria defects

OSakai Susumu, Shiwaku Yukari, Anada Takahisa, Suzuki Osamu

Tohoku University

A - 18 Identification of the first minerals formed during endochondral ossification

OHara Emilio Satoshi, Okada Masahiro, Nagaoka Noriyuki, Matsumoto Takuya

Okayama University

A - 19 Masking effect of highly translucent multi-layer monolithic zirconia crown

Okamura Mitsunobu<sup>1</sup>, Yokosuka Masato<sup>2</sup>, Shimizu Hiroshi<sup>3</sup>, Masumi Shiniti<sup>3,</sup> Ban Seiji<sup>4</sup> <sup>1</sup>Okamura Dental Clinic, <sup>2</sup>Yokosuka Dental Clinic, <sup>3</sup>Kyushu Dental University, <sup>4</sup>Aichi Gakuin University

A - 20 Development of translucent modifier for dental zirconia

OBan Seiji, Okuda Yuji, Kawai Tatsushi

Aichi Gakuin University

Fluorescence properties of Tm<sub>3+</sub>/Er<sub>3+</sub> co-doped dental translucent zirconia

Okamrua Shinya, Nishida Hisataka, Nakano Yoshiro, Wakabayashi Kazumichi, Nakamura Takashi,

Sekino Tohru, Yatani Hirohumi

Osaka University

## **■** Conference Room

#### 12:00 - 13:00 Luncheon Seminar

Dental Materials Adviser/Senior Adviser

Uruda Eiichi

GlaxoSmithKline Consumer Healthcare Japan K.K.

## • Hall A

## 14:25 - 16:25 General Presentation (Oral Session)

- 22 Electrical and structural evaluation of β-tricalcium phosphate electret with highly dense charges
ONozaki Kosuke, Yamashita Kimihiro, Nagai Aki
Tokyo Medical and Dental Univers
- 23 Preparation of various calcium phosphates loaded with protamine and its anti-bacterial property
○Abe Kodai <sup>1</sup> , Honda Michiyo <sup>1</sup> , Iohara Keishi <sup>2</sup> , Yamamoto Takatsugu <sup>3</sup> , Hayakawa Tohr
Aizawa Mamo
<sup>1</sup> Meiji University, <sup>2</sup> Maruha Nichiro Corporation, <sup>3</sup> Tsurumi University
- 24 Apatite thin film deposition by Ca-CO <sub>3</sub> -PO <sub>4</sub> complex aqueous solution spray coating method
○Yagi Ryo¹, Hirota Masatsugu¹, Toyama Takesi², Mochizuki Chihiro³, Sato Mitsunob
Hayakawa Tohru <sup>1</sup> , Ohkubo Chikahi
<sup>1</sup> Tsurumi University, <sup>2</sup> Nihon University, <sup>3</sup> Kogakuin Univers
- 25 Hydrothermal apatite synthesis from calcium oxide and polyphosphate (Part 8) -Commercial strong phosph
as phosphate source
○Narusawa Hideaki¹, Shiba Toshikazu², Owada Hiroyuki¹, Kataoka Yu¹, Miyazaki Takas
<sup>1</sup> Showa University, <sup>2</sup> Regentiss I
- 26 Modification with magnesium ions on an alkaline heat treated titanium surface to advance bone compatibil
-Sustained-release environment of ions-
○Satsume Hanako, Takahashi Masatoshi, Kanyi Mary, Takada Yuky
Tohoku Univers
- 27 Evaluation of machinability and surface texture on the MDF titanium
○Anzai Masateru¹, , Hosni Noriyuki¹, Kumasaka Tomona
Maruo Katsuichirou <sup>1</sup> , Hayakawa Tohru <sup>2</sup> , Okubo Chikahiro <sup>2</sup> Miura Hiromi <sup>3</sup> , Kimoto Katsuhil
<sup>1</sup> Kanagawa Dental University, <sup>2</sup> Tsurumi Universi
<sup>3</sup> Toyohashi University of Technolo
- 28 Evaluation of antibacterial property of zinc or gallium-introduced titanium surface layer formed
electrochemical treatment
OShimabukuro Masaya, Tsutsumi Yusuke, Yamada Risa, Nozaki Kosuke, Ashida Maki, Doi Hisa
Nagai Akiko, Hanawa Tak
Tokyo Medical and Dental University
- 29 Effect of adding support structures for overhanging part on fatigue strength in selective laser melting
○Takaichi Atsushi¹, Kajima Yuka², Nakamoto Takayuki³, Tsutsumi Yusuke¹,Nomura Naoyu
Takahashi Hidekazu <sup>1</sup> , Hanawa Takao <sup>1</sup> , Wakabayashi Noriyu
<sup>1</sup> Tokyo Medical and Dental University, <sup>2</sup> Tohoku University
<sup>3</sup> Technology Research Institute of Osaka Prefecti

# October 15 (Sunday) ■ Hall B 9:30 - 15:45 General Presentation (Poster Session) (Odd numbers: 11:10 - 11:55, Even numbers: 13:30 - 14:15 Discussion) P-46 Biofilm adhesion on denture based resin OMiyake Kaori, Ohashi Katsura, Yamaguchi Hiroaki, Midono Tomoyasu, Kameyama Yuka, Wada Yuuki, Oshikawa Akihiro, Shimoyama Kazuo, Nihei Tomotaro Kanagawa Dental University Influence of the operating conditions on mechanical properties and fitting precision of self-cured resins Ohki Tatsuya, Saito Ryuichi, Moriue Taisuke, Igarashi Kazuaki, Ishida Yoshinori, Sekine Hideshi, Okada Hidetoshi Ohu University P-48 Polytetrafluoroethylene; possibility for the application to dental materials OKameda Takashi, Ohkuma Kazuo, Oka Shunya Nippon Dental University at Niigata Study on dental application of PEEK resin evaluated by bending behavior OMiura Daisuke, Miyasaka Taira, Aoki Harumi, Aoyagi Yusuke, Harada Yuu, Watanabe Satoru, Ishida Yoshiki Nippon Dental University. at Tokyo P - 50 Mechanical property of the composite resin using Tris(2-acryloxyethyl)isocyanurate resin OAoyagi Yusuke, Miyasaka Taira, Aoki Harumi, Ishida Yoshiki, Miura Daisuke, Harada Yuu, Watanabe Satoru Nippon Dental University at Tokyo P - 5 1 Improvement of fatigue strength and wear resistance of hybrid resin composite with cluster filler ONishikawa Izuru<sup>1</sup>, Kato Takahiro<sup>2</sup>, Anraku Teruo<sup>2</sup> <sup>1</sup>Osaka Institute of Technology, <sup>2</sup>YAMAKIN CO., Ltd P - 5 2 Evaluation of composite resin polishing performance of new ion implantable polishing paste

Olino Masayoshi, Kurokawa Hiroyasu, Murayama Ryosuke, Kotaku Mayumi,

Suda Syunichi, Miyazaki Masashi

Nihon University

Study on characteristics of indirect restorative hybrid composite resin

ONihei Tomotaro<sup>1</sup>, Kameyama Yuka<sup>1</sup>, Wada Yuuki<sup>1</sup>, Yamaguchi Hiroaki<sup>1</sup>, Ohashi, Katsura<sup>1</sup>, Miyake Kaori<sup>1</sup>

Oshikawa Akinori<sup>1</sup>, Shimoyama Kazuo<sup>1</sup>, Tanimoto Yasuhiro<sup>2</sup>, Hirayama Satoshi<sup>2</sup>

<sup>1</sup>Kanagawa Dental University, <sup>2</sup>Nihon University at Matudo

P-54 Discoloration resistance of novel flowable composite resins

OMiyagawa Azusa, Ueno Takayuki, Kumagai Tomohiro

GC Corporation

Effect of various calcium hydroxide reagents on the bond strength of adhesive resin cements to root canal dentin

OSomeya Tomoko, Kasahara Masaaki, Kyogoku Kei, Hasegawa Koji, Noguchi Tatsumi, Hattori Masayuki

Tokyo Dental College

P - 5 6	Interfacial gap-formation in Class I restoration and bond strength to tooth of glass-ionomer cement for filling:
	Effect of pretreating agent to tooth
	○Irie Masao, Maruo Yukinori, Nishigawa Goro, Minagi Shogo, Yoshihara Kumiko,
	Nagaoka Noriyuki, Matsumoto Takuya
	Okayama University
P - 57	Influence of micro-level residual of temporary luting cement in composite resin for abutment on bond strength in luting cement
	○Igarashi Kazuaki, Moriue Taisuke, Ohki Tatsuya, Saito Ryuichi, Ishida Yoshinori,
	Okada Hidetoshi, Sekine Hideshi
	Ohu University
P - 58	Influence of surface conditioning to CAD/CAM resin block on bond strength of MMA resin cement
	OKurokawa Hiroyasu, Shibasaki Sho, Yabuki Chiaki, Shiratsuchi Koji,
	Takimoto Masayuki, Miyazaki Masashi
	Nihon University
P-59	Dentin bond strengths of universal adhesive systems to tooth erosive lesion models
	ORikuta Akitomo, Suzuki Takayuki, Furuichi Tetsuya, Sai Keiichi,
	Suda Shunichi, Tsubota Keishi, Miyazaki Masashi
	Nihon University
P-60	Influence of different smear layers on dentin bond durability of self-etch adhesives
	○Takamizawa Toshiki, Tsujimoto Akimasa, Imai Arisa, Nojiri Kie, Suzuki Takayuki,
	Sai Keiichi, Miyazaki Masashi
	Nihon University
P-61	Development of titanium adhesive systems (Part 1)
	○Iwasaki Taro, Murakami Takahiro, Nagakura Manamu, Tanimoto Yasuhiro, Nishiyama Norihiro
	Nihon University at Matsudo
P-62	Influence of sand-blasting powder on bond strength to teeth and restorative materials
	OTsubota Keishi, Ouchi Hajime, Shiratsuchi Koji, Ishii Ryo, Iino Masayoshi,
	Rikuta Akitomo, Miyazaki Masashi
	Nihon University
P-63	Study on self-adhesive resin-based luting cement as available with primer
	OWada Yuuki, Midono Tomoyasu, Miyake Kaori, Kameyama Yuka, Ohashi Katsura,
	Oshikawa Akihiro, Shimoyama Kazuo, Nihei Tomotaro
	Kanagawa Dental University
P - 64	New method for titanium oxide nano-structure formation on the zirconia implant
	○He Xiaoxi, Valanezhad Alireza, Watanabe Ikuya
	Nagasaki University
P - 65	Hydroxyapatite preparation from oyster shell powders through ball milling and heat treatment
	○Ho Wen-Fu¹, Hsu Hsueh-Chuan², Wu Shih-Ching², Hsu Shih-Kuang²
	<sup>1</sup> National University of Koahsiung, <sup>2</sup> Central Taiwan University

P - 66	Biocompatible evaluation of zirconia with antibacterial peptides (ABP) and osteopontin-motif peptide (OMP) co-grafted on surface
	○Wu Shih-Ching <sup>1</sup> , Hsu Shih-Kuang <sup>1</sup> , Hsu Hsueh-Chuan <sup>1</sup> , Ho Wen-Fu <sup>2</sup>
	<sup>1</sup> Central Taiwan University, <sup>2</sup> National University of Koahsiung
P - 67	Hydroxyapatite coating of novel porous titanium alloy for biomedical application
	OHsu Hsueh-Chuan <sup>1</sup> , Ho Wen-Fu <sup>2</sup> , Hsu Shih-Kuang <sup>1</sup> , Wu Shih-Ching <sup>1</sup>
	<sup>1</sup> Central Taiwan University, <sup>2</sup> National University of Koahsiung
P - 68	Bone formation of DNA coating titanium implant with different steric structure
	OMiyamoto Nagahiro <sup>1</sup> , Yamachika Rina <sup>1</sup> , Sakurai Toshitsugu <sup>1</sup> , Iohara Keishi <sup>2</sup> ,
	Hosoya Noriyasu <sup>1</sup> , Hayakwa Tohru <sup>1</sup>
	<sup>1</sup> Tsurumi University, <sup>2</sup> Maruha Nichiro Corporation
P - 69	Adsorption/desorption measurements of antibacterial proteins on titanium surface by twin-sensor type QCM
	ONezu Takashi, Nagano-Takebe Futami, Endo Kazuhiko
	Health Sciences University of Hokkaido
P - 70	Adsorption analysis of lipoteichoic acid to titanium by using QCM
	○Yoshida Eiji, Hayakawa Tohru
	Tsurumi University
P - 7 1	Fluoride uptake from fluoride-containing luting materials to hydroxyapatite discs
	Okuyama Katsushi, Komada Yuko, Abe Masayo, Horiguchi Keiji, Nishikawa Motonori,
	Tamaki Yukimichi
	Asahi University
P - 72	Mechanical property and microstructural analysis of an ion-releasing S-PRG filler contained cement
	OShimizubata Makoto, Inokoshi Masanao, Wada Takahiro, Takahashi Rena, Uo Motohiro,
	Minakuchi Shunsuke
D 72	Tokyo Medical and Dental University
P - 73	The study for the improvement of compressive strength and operability of the synthesized calcium silicate cement
	OKang Donghoon, Wada Takahiro, Uo Motohiro, Okiji Takashi
	Tokyo Medical and Dental University
P - 74	Effect of coating on mechanical property of resin-modified glass ionomer cements
	OShigeta Hirotaka, Nagasawa Yuko, Eda Yoshikazu, Matsumoto Shigeki, Awata Satoru,
	Omatsu Jun, Wada Ken-ichi, Hibino Yasushi, Nakajima Hiroshi
	Meikai University
P - 75	Microstructure and fatigue properties of dental semiprecious alloy subjected to solution treatment
	OMizuno Tsubasa <sup>1</sup> , Akahori Toshikazu <sup>1</sup> , Ninomi Mitsuo <sup>1</sup> , Fukui Hisao <sup>2</sup>
<b>~</b>	<sup>1</sup> Meijo University, <sup>2</sup> Aichi Gakuin University
P - 76	Corrosion behavior of stainless steel in antiseptics and disinfectants; chlorhexidine gluconate, povidone iodine and glutaraldehyde

	OKanyi Mary, Takahashi Masatoshi, Sakatsume Hanako, Takada Yukyo
	Tohoku University
P - 77	Dentin structure exposed to excimer UV irradiation
	OInoue Toshiko, Saito Makoto, Nishimura Fumio, Miyazaki Takashi
	Showa University
P - 78	Biological apatite crystallite alignment analysis of human maxillary cortical bone with microbeam X-ray diffraction
	OKasahara Masaaki, Someya Tomoko, Igarashi Toshio, Aichi Tetsuya, Ichikawa Hiromichi,
	Yoshinari Masao, Hattori Masayuki
	Tokyo Dental College
P-79	Mechanical Properties of calcified tissue mimicking ageing processes caused by x-ray irradiation
	○Tobe Takuma, Shibata Yo, Shimoura Naofumi, Zhou Jun, Wurihan, Tanaka Reina, Miyazaki Takashi Showa University
P-80	Difference in the force between the ligation methods by edgewise appliance in the simulation of a lower incisor linguoversion
	○Tochigi Keisuke, Arai Kazuhito, Saze Naomi, Koda Takashi
	Nippon Dental University at Tokyo
P - 8 1	Detection of dental alloy derived elements contained in tissues of oral lichen planus using synchrotron radiation fluorescence X-ray analysis
	○Uo Motohiro¹, Wada Takahiro¹, Aoyagi Yujin², Akiba Yosuke²
	<sup>1</sup> Tokyo Medical and Dental University, <sup>2</sup> Niigata University
P-82	Study on the weight-drop impact test of dental composites and ceramics
	○Watanabe Satoru, Miyasaka Taira, Ishida Yoshiki, Harada yuu, Aoki Harumi
	Aoyagi Yusuke, Miura Daisuke
	Nippon Dental Univ. at Tokyo
P-83	Spherical nanoindentation stress-strain response of human enamel
	OShimomura Naofumi, Tanaka Reina, Tobe Takuma, Zhou Jun
	Wurihan, Shibata Yo, Shimada Yukie, Miyazaki Takashi
	Showa University
P - 84	Information system utilizing cavity of teeth or dentures
	○Imai Koichi, Shirai Tsubasa, Ishikawa Hiroki, Nakanishi Tamaki
	Osaka Dental University
Octobe	r 15 (Sunday)
• Foyer	
9:00 -	16:25 Companies Exhibition