

15th Annual Meeting of the Japanese Association of Regenerative Dentistry (JARD)

Date : October 21, 2017 (Saturday)

Venue: Centennial Memorial Hall, Osaka Dental University
(Osaka Tenmabashi Campus)

President at the Meeting: Prof. Koichi Imai, Department of Biomaterials,
Osaka Dental University

Program (General Session)

Oral Presentation

- O-1. Periodontal regeneration induced by porous alpha-tricalcium phosphate with immobilized basic fibroblast growth factor in a canine model of 2-wall periodontal defects
○ Kazuya Matsuse¹, Yoshiya Hashimoto², Sachiro Kakinoki³,
Tetsuji Yamaoka³, Shosuke Morita¹
¹First Department of Oral and Maxillofacial Surgery, Osaka Dental University,
²Department of Biomaterials, Osaka Dental University,
³Department of Biomedical Engineering, National Cerebral and Cardiovascular Center Research Institute
- O-2. Derivation of MSC-like cells from human skin derived iPSCs in the different feeder-free conditions
○ Mamoru Ueda¹, Yoshiya Hashimoto², Yoshitomo Honda³,
Shunsuke Baba⁴, Shosuke Morita¹,
¹First Department of Oral and Maxillofacial Surgery, Osaka Dental University, ²Department of Biomaterials, Osaka Dental University, ³Institute of Dental Research, Osaka Dental University,
⁴Department of Oral Implantology, Osaka Dental University.
- O-3. Effect of aragonite derived from *Montipora digitata* on proliferation of human normal dermal fibroblasts and collagen fiber production *in vitro*
○ Tomoharu Okamura¹, Kazuya Tominaga², Tetsunari Nishikawa, Koichi Imai³, Akio Tanaka⁴
¹Dept of Oral Pathology, ²Innovations in Dental Education,
³Department of Dental Material, ⁴Department of Pathology, Osaka Dental Univ.
- O-4. Study on photodynamic therapy with 8-MOP for oral mucosal disease
○ Hiroki Ishikawa¹, Koichi Imai², Shosuke Morita¹
¹First Department of Oral and Maxillofacial Surgery, Osaka Dental University
²Department of Biomaterials, Osaka Dental University
- O-5. Evaluation of biodegradation mechanism on epigallocatechin gallate-conjugated gelatin sponge
○ Anqi Huang¹, Peqi Li¹, Tomonari Tanaka², Yoshiya Hashimoto¹,
Yoshitomo Honda¹, Shunsuke Baba¹
¹Osaka Dental Univ., ²Kyoto Inst. Tech.
- O-6. Analysis of titania nanosheet adsorption behavior using a quartz crystal microbalance sensor
○ Yuichiro Tashiro¹, Satoshi Komasa¹, Akiko Miyake²,
Hiroshi Nishizaki¹, Joji Okazaki¹
¹Dept. of Removable Prosthodontics and Occlusion, Osaka Dental Univ.,
²Dept. of Oral Health Engineering, Osaka Dental Univ. Faculty of Health Sciences
- O-7. Study on differentiation of cells by the zinc exposure to odontoblast-like cells
○ Hiroyo Karube¹
¹Cooperative Major in Advanced Biomedical Sciences, Waseda Univ.
- O-8. Double staining immunohistochemistry using Osteocalcin antibody
○ Mari Akiyama, Koichi Imai
Dept. of Biomaterials, Osaka Dental Univ.

Poster session

- P-1. Effects of direct pulp capping on hard tissue formation by using alginate gel containing BMP
○Kozo Yamaji¹, Akihito Yokoyama², Kumiko Matsuzaki², Naoko Ohara¹, Yasushi Shimada², Yasuo Shinno², Kei Takahashi¹, Yasuhiko Tabata³, Masahiro Yoshiyama²
¹Department of Operative Dentistry, Okayama University Hospital,
²Department of Operative Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences,
³Institute for Frontier Life and Medical Sciences, Kyoto University
- P-2. Osteogenic differentiation of iPS cells derived from human blood cells
○Takahito Okudaira¹, Hiroshi Kato^{1,2}, Daigo Hasegawa¹, Katsuhito Watanabe¹, Toshifumi Azuma², Takahiko Shibahara¹
¹Dept. of oral and maxillofacial surgery, Tokyo Dental College
²Dept. of oral and maxillofacial surgery, Ikegami General Hospital
³Dept. of biochemistry, Tokyo Dental College.
- P-3. Comparison of dentin transplantation and autologous bone grafting in bone regeneration
○ Kenichirou Yasui¹, Yoshiyuki Arima¹, Eiki Hara¹, Yuji Nakayama¹, Li Peiqi², Azumi Eiko¹, Hosoyama Yukiko¹, Inami Kaoru¹, Nishiura Aki¹, Yoshiya Hashimoto³, Shunsuke Baba², Naoyuki Matsumoto¹
¹ Department of Orthodontics, Osaka Dental Univ, ² Department of Oral Implantology, ³Department of Biomaterials, Osaka Dental Univ,
- P-4. An easy method to fabricate atelocollagen/gelatin sponge biomaterial with lyophilization technique
Masao Yoshinari¹, ○Longqiang Yang², Tadashi Miura¹, Koji Tanabe³, Shinji Takemoto³, Masataka Kasahara⁴, Seiko Shintani²
¹Oral Health Science Center, Tokyo Dental College, ²Department of Pediatric Dentistry, Tokyo Dental College, ³Department of Biomedical Engineering, Iwate Medical University, ⁴Department of Pharmacology, Tokyo Dental College
- P-5. Effect of nano modified titanium surface on adsorption of rat periodontal ligament cells
○Yukari Hara, Satoshi Komasa, Shigeki Yoshimine, Hiroshi Nishizaki, Joji Okazaki
Osaka Dental University
- P-6. Effect of nano modified titanium surface on adsorption of rat periodontal ligament cells
○Yukari Hara, Satoshi Komasa, Tetsuji Kusumoto, Chen Luyuan, Mai Hatoko, Yin Derong, Hiroshi Nishizaki, Joji Okazaki
Osaka Dental University
- P-7 Development of new implant material aimed at increase of bioactivity
○Mai Hatoko, Satoshi Komasa, Zhang Honghao, Mariko Nishizaki, Chisato Terada, Chen Luyuan, Yin Derong, Hiroshi Nishizaki, Joji Okazaki
Osaka Dental University
- P-8 Evaluation of the osteointegration of a novel alkali-treated implant system in vivo
○Yin Derong¹, Satoshi Komasa¹, Zhang Honghao¹, Mariko Nishizaki¹, Chisato Terada¹, Chen Luyuan¹, Mai Hatoko¹, Hiroshi Nishizaki¹, Joji Okazaki¹
¹ Department of Removable Prosthodontics and Occlusion Osaka Dental University
- P-9 Protective effects and safety of molecular hydrogen on H9c2 cardiomyocytes model
○Hideto Ariumi¹, Yuji Yoshiyama¹
¹Kitasato Univ.,
- P-10 Pathway analysis of adiponectin receptors in pro-osteoblastic cells
○Aiko Kamada, Yoshihiro Yoshikawa, Eisuke Domae, Takashi Ikee
Dept. of Biochemistry, Osaka Dental Univ.

- P-11 BMP-2 promotes osteoclast differentiation by osteoblasts
○Yoshihiro Yoshikawa, Eisuke Domae, Aiko Kamada, Takashi Ikeo
Dept. of Biochemistry, Osaka Dental Univ.
- P-12. Dentin remineralization effect of detin by gel form desensitizer with fluoride
○Matsuda Yasuhiro¹, Okuyama Katsushi², Yamoto Hiroko³, Izumikawa Masanobu¹,
Yui Tomoo¹, Ito Shuichi¹, Hayashi Mikako³ and Saito Takashi¹
¹ Health Sciences University of Hokkaido., Div Clinic Cariol Endodont
² Asahi Univ Sch Dent., Dept Dent Mater Sci.
³ Osaka Univ Grad Sch Dent., Dept Rest Endo
- P-13. The effects of pulp capping materials on dental pulp cells
○Chun-Chan Ting¹, Tomiko Nishitani¹, Yuko Takashi¹, Tamaki Katsumata¹,
Shoko Tatsuyama¹, Aiichiro Katsumata¹, Tomohiro Hoshika¹,
Tetsuya Matsuguchi², Yoshihiro Nishitani¹
¹Dept. of Restorative Dentistry and Endodontology, ²Dept. of Biochemistry,
Kagoshima University Graduate School of Medical and Dental Sciences
- P-14. Establishment of three dimensional tumor microenvironment using oral cancer cells
○Hiroki Ishikawa¹, Koichi Imai², Shosuke Morita¹
¹First Department of Oral and Maxillofacial Surgery, Osaka Dental University
²Department of Biomaterials, Osaka Dental University
- P-15. Study of cell viability by interaction with nanomaterial
- Mixing condition of nano-zinc oxide and Bis-GMA -
○Tsubasa Shirai¹, Koichi Imai¹
¹Department of Biomaterials, Osaka Dental Univ.
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First Announcement

16th Annual Meeting of the Japanese Association of Regenerative Dentistry (JARD)

Date: December 1 (Saturday)
(A social gathering will be held on Nov. 30 (Friday))

Venue: Aichi-Gakuin University (1-100 Kusumoto-cho Chikusa-ku, Nagoya, Aichi)

**President at the Meeting: Prof. Tatsushi Kawai (School of Dentistry,
Aichi-Gakuin University)**