4th Hiroshima Conference on Education and Science in Dentistry

Conference Program

October 9 (Sun), 10 (Mon), 2011
International Conference Center Hiroshima
in Peace Memorial Park

Hiroshima University Faculty of Dentistry
Program
Program

October 9 (Sunday)

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<tr>
<th>Time</th>
<th>Session and Speakers</th>
<th>Chairs</th>
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<tr>
<td>13:30 – 13:40</td>
<td>Opening Address</td>
<td>Takashi Takata</td>
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<td>Martha Somerman</td>
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<td>Toshihisa Kawai</td>
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<td>15:25 – 17:30</td>
<td>Session I (Research): “Transplantable Cells and Biomaterials for Regenerative Medicine”</td>
<td>Yukio Kato</td>
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<td>Yukio Kato (15:25 – 15:30)</td>
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<td>Hiroo Iwata (15:30 – 16:10)</td>
<td>Yukio Kato</td>
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<td>Takashi Tsuji (16:10 – 16:50)</td>
<td>Nawarat Wara-aswapati</td>
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<td>Hiroshi Egusa (16:50 – 17:30)</td>
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<td>Eiko Tsuchiya</td>
<td>Kazuo Tanne</td>
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Welcome Reception

19:30 – 21:30
Hiroshima Andersen
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<tr>
<th>Time</th>
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<tr>
<td>9:00 – 11:00</td>
<td>Session II  (Research) “Frontier Researches in Biodental Sciences”</td>
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<td><strong>&lt; Regeneration I &gt; - Research Aiming for Improved QOL through Oral Health</strong></td>
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<td></td>
<td>Nattanan Govitvattana (9:00 – 9:04)</td>
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<td>Yukiko Nakajima (9:04 – 9:08)</td>
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<td>Masae Kitagawa (9:08 – 9:12)</td>
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<td>Joji Kusuyama (9:12 – 9:16)</td>
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<td>Shen Jiefei</td>
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<td>Danilo Janune (9:16 – 9:20)</td>
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<td>Isao Hirata (9:20 – 9:24)</td>
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<td>Remarks (9:24 – 9:28)</td>
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<td><strong>&lt; Regeneration II &gt; - Research Aiming for Improved QOL through Oral Health</strong></td>
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<td></td>
<td>Maki Uyama (9:28 – 9:32)</td>
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<td>Naoko Sakagami (9:32 – 9:36)</td>
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<td>Hsin-Chung Cheng</td>
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<td>Tikara Matsumoto (9:36 – 9:40)</td>
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<td>Wern-Joo Sohn (9:40 – 9:44)</td>
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<td>Keun-Bae Song</td>
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<td>Mikihito Kajiya (9:44 – 9:48)</td>
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<td>Qimei Gong (9:48 – 9:52)</td>
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<td>Lee, Yi-Sheng (9:52 – 9:56)</td>
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<td>Remarks (9:56 – 10:00)</td>
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<td><strong>&lt; Microbiology &gt;</strong></td>
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<td>Rini Devijanti Ridwan (10:00 – 10:04)</td>
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<td>TDK Herath (10:04 – 10:08)</td>
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<td>Xin Xu (10:08 – 10:12)</td>
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<td>RMDL. Rajakaruna (10:12 – 10:16)</td>
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<td>Lim Ratanak (10:16 – 10:20)</td>
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<td>Takao Watamoto (10:20 – 10:24)</td>
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<td><strong>&lt; Biomaterial and Clinical &gt;</strong></td>
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<td>Huynh Cong Nhat Nam (10:28 – 10:32)</td>
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<td>Zhang Xu (10:32 – 10:36)</td>
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<td>Chun-Cheng Hung</td>
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<td>Pei-Lin Lai (10:36 – 10:40)</td>
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<td>Chanthiriga Ramasindaramun (10:40 – 10:44)</td>
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<td>Tan Bee Siew (10:44 – 10:48)</td>
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<td>Vorn Vutha</td>
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<td>Kim, Dong-kook (10:48 – 10:52)</td>
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<td>Rajda Noisombut (10:52 – 10:56)</td>
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<td>Remarks (10:56 – 11:00)</td>
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<td>11:00 – 11:30</td>
<td>Session III  (Education) : “Standardization and Mutual Recognition of Dental Education in Asia”</td>
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<td>Wacharaporn Tasachan (11:00 – 11:15)</td>
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<td>Upul B. Dissanayake</td>
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<td>Khoo Suan Phaik (11:15 – 11:30)</td>
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<td>Kazuhiro Eto</td>
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<td>11:30 – 12:00</td>
<td>Poster Award Ceremony</td>
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<td>Closing Remarks</td>
<td>Martha Somerman</td>
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Oral Presentation
Sunday, October 9    13: 40 — 14: 25

Special Lecture I

Personalized medicine: Is dentistry ready?

Martha J. Somerman
The National Institute of Dental and Craniofacial Research
at the National Institutes of Health
Sunday, October 9  14: 25 — 15: 10

**Special Lecture II**

Innate Defense Peptides in the Oral Cavity

*Toshihisa Kawai*

The Forsyth Institute, Department of Immunology
Sunday, October 9    15:25 — 17:30

**Session I (Science):**

“Transplantable Cells and Biomaterials for Regenerative Medicine”

**15:25 – 15:30**
Introduction
Yukio Kato
Hiroshima University

**15:30 – 16:10**
Cell Surface Modification with Polymers for Biomedical Studies
Hiroo Iwata
Kyoto University

**16:10 – 16:50**
Fully Functional Bioengineered Tooth Replacement as a Future Tooth Regenerative Therapy
Takashi Tsuji
Tokyo University of Science

**16:50 – 17:30**
The Impact of Gingival Fibroblast-Derived iPS Cells on Dental Science
Hiroshi Egusa
Osaka University
Plenary Lecture

Research Activities of Hiroshima University: Now and Future
Hiroshima University, Executive and Vice-President (Research)

Eiko Tsuchiya
Executive and Vice president (Research) Hiroshima University
Monday, October 10  9:00 — 11:00

Session Ⅱ (Science) : Frontier Researches in Biodental Sciences

<Regeneration I> in conjunction with “Research Aiming for Improved QOL through Oral Health”
9:00–9:28

9:00 – 9:04
IL-6 induced Rex-1 expression in stem cells from human exfoliated deciduous teeth
Nattanan Govitvattana
Chulalongkorn University

9:04 – 9:08
Effect of advanced glycation end-products on calcified tissue formation in rat dental pulp cell cultures
Yukiko Nakajima
University of Tokushima

9:08 – 9:12
F-spondin promotes the differentiation of human periodontal ligament cells
Masae Kitagawa
Hiroshima University

9:12 – 9:16
Cot/Tp12 is functionally involved in the stretch-induced down-regulation of PPARgamma1 expression in osteoblasts
Joji Kusuyama
Kagoshima University

9:16 – 9:20
Novel effects of CCN3 that may direct the differentiation of chondrocytes
Danilo Janune
Okayama University

9:20 – 9:24
Calcium phosphate nucleation ability on the Titanium surface modification by self assembled monolayers
Isao Hirata
Hiroshima University

9:24 – 9:28  Remarks
Regeneration II in conjunction with “Research Aiming for Improved QOL through Oral Health”
9:28–10:00

9:28 – 9:32
Regulation of both osteoblastic and myogenic differentiation by proteasome inhibitor bortezomib
Maki Uyama
Hokkaido University

9:32 – 9:36
Effects of mechanical loading on the condyle in a rat mandibular distraction model
Naoko Sakagami
Niigata University

9:36 – 9:40
A crucial role of osteocytes in osteoclastic bone resorption during orthodontic tooth movement
Tikara Matsumoto
Tokyo Medical and Dental University

9:40 – 9:44
Signaling modulations of Rgs19 in palatal EMT process
Wern-Joo Sohn
Kyungpook National University

9:44 – 9:48
Anti-M3 muscarinic acetylcholine receptor antibody causes aquaporin-5 dependent hypo-secretion of saliva in a mouse model of Sjögren’s syndrome
Mikihito Kajiya
The Forsyth Institute

9:48 – 9:52
Anti-inflammatory effect of erythropoietin on human dental pulp cells
Qimei Gong
Sun Yat-sen University

9:52 – 9:56
Flavonoids promoting osteogenic differentiation of dental pulp stem cells
Lee, Yi-Sheng
Taipei Medical University

9:56 – 10:00 Remarks
10:00 – 10:04
*Actinobacillus actinomycetemcomitans* fimbrial adhesin profile from patients with aggressive periodontitis in Clinic of Periodontic Faculty of Dentistry Airlangga University
Rini Devijanti Ridwan
Airlangga University

10:04 – 10:08
Systems biology unravels a novel pathogenic mechanism of heterogeneous *P. gingivalis* lipid A structures in chronic periodontitis
T.D.K. Herath
University of Hong Kong

10:08 – 10:12
Tea catechin epigallocatechin gallate suppresses cariogenic virulence factors of *Streptococcus mutans*
Xin Xu
West China School of Stomatology, Sichuan University

10:12 – 10:16
Retained microbial flora in toothbrushes following usage of herbal & fluoridated toothpastes
R.D.M.D.L. Rajakaruna
University of Peradeniya

10:16 – 10:20
Prevalence of oral herpes patients in dental clinic of the Faculty of Odonto-Stomatology from 2005 to 2009
Lim Ratanak
University of Health Sciences

10:20 – 10:24
Discovery of novel antifungal small-molecules in *Candida albicans*
Takao Watamoto
Osaka University

10:24 – 10:28 Remarks
10:28 – 10:32
The efficiency of milk and egg white in storage of avulsed teeth
Huynh Cong Nhat Nam
University of Medicine and Pharmacy of Ho chi Minh City

10:32 – 10:36
A biomimetic strategy to induce remineralization of partially demineralized dentine
Zhang Xu
Dental College of Tianjin Medical University

10:36 – 10:40
The effect of recasting on the quality of pure titanium castings by MgO-based investment
Pei-Lin Lai
Kaohsiung Medical University

10:40 – 10:44
Synthesis and characterization of nanosilica as filler for the novel dental resin system
Chanthiriga Ramasindarum
University of Malaya

10:44 – 10:48
Characteristics of toothbrushing in 4-5 year-old children in Selangor Malaysia
Tan Bee Siew
International Medical University (IMU)

10:48 – 10:52
Evaluation of quality of life according to temporomandibular disorder associated symptoms in
dental hospital worker
Kim, Dong-kook
Wonkwang University

10:52 – 10:56
Oral Impacts affecting daily performance in Thai secondary school students
Rajda Noisombut
Khon Kaen University

10:56 – 11:00 Remarks
Monday, October 10  11:00 — 11:30

Session III (Education): Standardization and Mutual Recognition of Dental Education in Asia
11:00 – 11:30

11:00 – 11:15
Chulalongkorn University Faculty of Dentistry Curriculum Reform
Wacharaporn Tasachan
Chulalongkorn University

11:15 – 11:30
Challenges of Dental Education in Asia: Advocating Standardization and Collaboration
Khoo Suan Phaik
International Medical University (IMU)
Sunday, October 9  17:50 — 18:50

Poster Discussion
11:30 – 12:00
Closing Remarks
-Poster Awarding Ceremony-

  Rosnah Mohd Zain
  Dean, University of Malaya

Closing Remarks
-Summary of Meeting-

  Martha Somerman
  Director of the National Institute of Dental and Craniofacial Research at the National Institutes of Health

Closing Announcement
**Airlangga University, Indonesia**

01-1  
Interleukin-8 and Interleukin-10 expression on traumatic ulcer treated with lactoferrin 10mg/ml  
N.F. Ayuningtyas

01-2  
*Actinobacillus actinomycetemcomitans* fimbrial adhesin profile from patients with aggressive periodontitis in Clinic of Periodontic Faculty of Dentistry Airlangga University  
R.D. Ridwan

01-3  
Variant analysis of HLA-DRB1 on immunogenetic pathway of sIgA secretion in saliva as dental caries risk (Study in javanesse population in Surabaya-Indonesia)  
P. Soesilawati

**Chulalongkorn University, Thailand**

02-1  
IL-6 induced Rex-1 expression in stem cells from human exfoliated deciduous teeth  
N. Govitvattana and P. Pavasant

02-2  
Stress-induced IL-1® release in HPDL via vesicles and P2X7R/Pannexin-1 complex  
K. Kanjanamekanant P. Luckprom and P. Pavasant

02-3  
Estradiol-induced osteoprotegerin in dental pulp cells via surface estrogen receptor  
J. Manokawinchoke, P. Ritprajak and P. Pavasant

**University of Health Sciences, Cambodia**

03-1  
Prevalence of oral herpes patients in dental clinic of the Faculty of Odonto-Stomatology from 2005 to 2009  
V. Vutha, T. Tuy, S. Yem and R. Lim

**University of Medicine and Pharmacy of Ho chi Minh City, Vietnam**

04-1  
The efficiency of milk and egg white in storage of avulsed teeth.  
H.C.N. Nam, L.D. Lanh and D.V.N. Mai

**University of Hong Kong, China**

05-1  
Systems biology unravels a novel pathogenic mechanism of heterogeneous *P. gingivalis* lipid A structures in chronic periodontitis  
International Medical University (IMU), Malaysia

06-1
Characteristics of toothbrushing in 4-5 year-old children in Selangor Malaysia

T. Bee-Siew and I.A. Razak

06-2
Stem cells from human exfoliated deciduous teeth (SHED): trend analysis


Kaohsiung Medical University, Taiwan

07-1
The effect of recasting on the quality of pure titanium castings by MgO-based investment

P.L. Lai, C-C. Hung and J-C. Wang

Khon Kaen University, Thailand

08-1
Oral impacts on quality of life in adolescent cleft patients

A. Pisek and W. Pitiphat

08-2
Oral impacts affecting daily performance in Thai secondary school students

R. Noisombut, N. Chuchokchai, C. Kunkitti and P. Buengmoom

Kyungpook National University, Korea

09-1
Genome wide screening of mesenchymal signalling molecules involved in epithelial differentiation during palatogenesis


09-2
Signaling modulations of Rgs19 in palatal EMT process


University Malaya, Malaysia

10-1
The site of the lesion should be considered when identifying biomarkers for OSCC


10-2
Synthesis and characterization of nanosilica as filler for the novel dental resin system

C. Ramasindarum, N.H. Abu kasim, B. Vengadaesvaran and N.N. Naziron
University of Peradeniya, Sri Lanka
11-1
Retained microbial flora in toothbrushes following usage of herbal & fluoridated toothpastes
R.D.M.D.L. Rajakaruna, M.C.N. Fonseka, J.A.M.S. Jayatilake and U.B. Dissanayake

Sun Yat-sen University, China
12-1
Effect of Ca/P concentration on the surface topography and micro-mechanical properties of Ti-Alloy micro-arc oxidation coating
Y. Wang, H.B. Pan2C.Y. Ning and S.Q. Yang
12-2
Anti-inflammatory effect of erythropoietin on human dental pulp cells
Q. Gong, J. Ling, H. Jiang and J. Wang

Taipei Medical University, Taiwan
13-1
Flavonoids promoting osteogenic differentiation of dental pulp stem cells

Dental College of Tianjin Medical University, China
14-1
A biomimetic strategy to induce remineralization of partially demineralized dentine
Z. Xu, G.O. Ping and A. Kishen

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15-1
Tea catechin epigallocatechin gallate suppresses cariogenic virulence factors of Streptococcus mutans
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16-1
Evaluation of quality of life according to temporomandibular disorder associated symptoms in dental hospital worker
D.K. Kim, H.D. Lim and Y.M. Lee

Hokkaido University, Japan
17-1
Regulation of both osteoblastic and myogenic differentiation by proteasome inhibitor bortezomib
M. Uyama, M. Sato, M. Kawanami and M. Tamura
Tohoku University, Japan
18-1
Functional role of Platelet-derived growth factors involved in ameloblasts and odontoblasts proliferation

Y. Sugawara, T. Iwamoto, M. Arakaki, M. Ono, M. Futagi, A. Yamada, T. Nakamura and S. Fukumoto

Niigata University, Japan
19-1
Pharmacological manipulation of oral mucosa keratinocytes by blocking ALDH activity


19-2
Zoledronic acid induces S-phase arrest via a DNA damage response in normal human oral keratinocytes


19-3
Histological and immunohistological analyses of oral mucosal epithelial organization and kinetics compromised by Bisphosphonates


19-4
Effects of mechanical loading on the condyle in a rat mandibular distraction model


Tokyo Medical and Dental University, Japan
20-1
A crucial role of osteocytes in osteoclastic bone resorption during orthodontic tooth movement

T. Matsumoto, K. Moriyama and A. Yamaguchi

Osaka University, Japan
21-1
Discovery of novel antifungal small-molecules in Candida albicans

T. Watamoto, H. Egusa and H. Yatani

Okayama University, Japan
22-1
Novel effects of CCN3 that may direct the differentiation of chondrocytes

University of Tokushima, Japan
23-1
Effect of advanced glycation end-products on calcified tissue formation in rat dental pulp cell cultures
Y. Nakajima, Y. Inagaki, M. Bando, Y. Hiroshima, J. Kido and T. Nagata

Kagoshima University, Japan
24-1
Cot/Tpl2 is functionally involved in the stretch-induced down-regulation of PPARgamma1 expression in osteoblasts
J. Kusuyama

Hiroshima University, Japan
25-1
Newly developed carbonate apatite-chitosan scaffold for in vitro bone tissue engineering
M.D. Ariani, A. Matsuura, I. Hirata, T. Kubo, M. Okazaki and Y. Akagawa
25-2
The aspects of osseointegration of the implants placed in the reinforced bone by using interconnected porous calcium hydroxyapatite (IP-CHA)
25-3
Development of implant/interconnected porous calcium hydroxyapatite complex
H. Oue, K. Doi, T. Kubo, K. Koretake, K. Hayashi, S. Kajihara, K. Imura and Y. Akagawa
25-4
Fungicidal effect of novel antimicrobial peptides derived from Lactobacillus rhamnosus L8020
Y. Takamoto, H. Nikawa, Y. Takayama, E. Okura, H. Ishii, T. Taji and T. Uchida
25-5
Expression and function of Retinoic acid-inducible gene-I (RIG-I) in oral keratinocyte and fibroblast
25-6
CaCC activity, localization and stability of TMEM16E
T.T. Tran, S. Fujimoto, K. Mizuta, C. Hirono, M. Sugita and N. Kamata
25-7
RHAMM induces proliferative activities of cementifying fibroma cells
H. Hatano, H. Shigeishi, Y. Kudo, K. Higashikawa, T. Takata and N. Kamata
25-8
Fabrication and basic properties of poly (DL-lactide-co-glycolide) containing carbonated apatite
Immobilization of antimicrobial agent Et-QAC on the surface of denture acrylics and its evaluation of anticandidal activity

Y. Takayama, Y. Takamoto, H. Ishii, E. Okura, K. Kawahara and H. Nikawa

Application of immobilizing disinfectant to the hydroxyapatite

M. Hiramatsu, Y. Takamoto, E. Okura, H. Ishii, Y. Takayama and H. Nikawa

Evaluation of physical properties of commercially artificial saliva

E. Okura, H. Nikawa, H. Ishii, Y. Takamoto and Y. Takayama

Evaluation of antibacterial activity of commercial artificial saliva

H. Ishii, E. Okura, Y. Takamoto, Y. Takayama and H. Nikawa

Effects of biomimetic diamond-like carbon coated titanium on the differentiation of osteoblast and osteoclast cells

S. Iwata, S. Makihira, H. Nikawa, T. Taji, Y. Mine, T. Takahagi and K. Okamoto

The effect of bacteriocins derived from Lactobacillus rhamnosus against oral pathogens


Bacteriocins of Lactobacillus rhamnosus L8020 inhibits Porphyromonas gingivalis Lipopolysaccharide-induced pro-inflammatory cytokine secretion in murine macrophage-like RAW264.7 cells


Calcium phosphate nucleation ability on the Titanium surface modification by self assembled monolayers

W. Jiang, I. Hirata, Z. Xianghui, M. Okazaki and K. Kato

Anti-M3 muscarinic acetylcholine receptor antibody causes aquaporin-5 dependent hypo-secretion of saliva in a mouse model of Sjögren’s syndrome

M. Kajiya, S. Armazrooa, S-B. Woo, S. Cha, and T. Kawai

F-spondin promotes the differentiation of human periodontal ligament cells

M. Kitagawa, M. Miyauchi and T. Takata

Long-term cryopreservation of rat MSCs by use of a programmed freezer with a magnetic field

An establishment of jaw cleft treatment with bone regeneration by use of mesenchymal stem cells derived from bone marrow

K. Sumi, K. Tanimoto, Y. Tanne, M. Yoshioka, M. Sugiyama and K. Tanne

Amelogenin-guided biomineralization of hydroxyapatite crystal on tooth enamel

K. Tanimoto, R. Kunimatsu, Y. Yoshimi, M. Yoshioka, Y. Tanne and K. Tanne

Immunohistochemical study of periodontal tissue regenerative process by BDNF


Isolation and osteogenic differentiation of jaw bone marrow derived mesenchymal stem cells in beagle dogs

T. Ueda, H. Kawaguchi, K. Wada, K. Takeda, T. Fujita, Y. Uchida and H. Kurihara

The inhibitory effect of irsogladine maleate against Toll-like receptor 2 induction mediated by Porphyromonas gingivalis in human gingivalis epithelial cells


Two cases of bisphosphonate-related osteomyelitis of the mandible with solid type periosteal reaction

M. Zaman, T. Nakamoto, Y. Suei and K. Tanimoto

Adipose tissue inflammation and smoking synergistically suppress leptin expression in Japanese obese males: Potential mechanism of resistance to weight loss among obese smokers

S. Nagayasu, S. Suzuki, A. Yamashita and F. Nishimura

Age-related changes of sensory thresholds in the oro-facial region and the relationship of sensory thresholds with dysphagia

R. Nishimura, K. Yamashita, K. Hara, H. Amano and M. Sugiyama

Inhibitory effect of bLF on LPS-induced crosstalk among TLR pathways in osteoblast

M. Okada, T. Morimoto, T. Inubushi, M. Miyauchi and T. Takata

EMT induction by humoral factors in oral squamous cell carcinoma cell

G. Okui, K. Higashikawa, A. Rizqiawan, H. Shigeishi, S. Ono and N. Kamata

New role of PRIP in regulation of lipolysis

T. Okumura, K. Harada, M. Hirata, N. Kamata and T. Kanematsu
How many tooth-related genes are there in shark genome?

M. Shinkawa, H. Nikawa, M. Ohara, S. Makihira and K. Kawahara

Evaluation of the course work education employing Cognitive Behavior Therapy

M. Shirakura, H. Oka, T. Kamiya, F. Suehiro, M. Sugai and M. Kobayashi

Complex formation mechanism of CDT holotoxin of Aggregatibacter actinomycetemcomitans

M. Tanaka, K. Tsuruda, O. Matangkasombut, M. Ohara and M. Sugai

MEPE-associated phosphorylated ASARM is a potential target to facilitate bone mineralization

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