

November 20th, Saturday, Main Hall

9:10-11:00 Symposium I

“Forefront of Oral Biology Research”

- Moderator: Dr. Eijiro Jimi
(Kyushu Dental College, Japan)
- SI-1 Runx2 and FGF Signaling
Dr. Toshihisa Komori
(Nagasaki University, Japan)
- SI-2 Transcriptional Regulation of Endochondral Ossification
Dr. Kenji Hata
(Osaka University, Japan)
- SI-3 Control of Runx2 Activity and Stability by Post-translational Modification
Dr. Hyun-Mo Ryoo
(Seoul National University, Korea)

11:00-12:00 Special Lecture 1

- Moderator: Dr. Yoshiro Takano
(President of JADR)
- L-1 How could JADR Contribute to Reducing Inequality with Improved Oral Research Worldwide?
Dr. Maria Fidela de Lima Navarro
(President of IADR)

15:20-16:20 Special Lecture 2

- Moderator: Dr. Yoshiro Takano
(President of JADR)
- L-2 Crosstalk between NFI-C and TGF- β 1 Signaling Regulates Differentiation and Homeostasis of Tooth Odontoblast
Dr. Joo-Cheol Park
(Seoul National University, Korea)

16:20-18:00 Symposium II “Oral Care and Oral Health”

- Moderator: Dr. Yasuaki Kakinoki
(Kyushu Dental College, Japan)
- SII-1 Oral Care and Oral Health
Dr. Hideaki Amano
(Hiroshima University, Japan)
- SII-2 Periodontal Disease and Systemic Health
Dr. Kazuhisa Yamasaki
(Niigata University, Japan)
- SII-3 The Role of Dental Hygienists in an Aged Society in Japan
Dr. Kayo Teraoka
(Tokyo Medical and Dental University, Japan)
- SII-4 Oral Health Care Training in the New Dental Hygiene Education Curriculum in Japan
Dr. Hisako Hikiji
(Kyushu Dental College, Japan)

November 21st, Sunday, Main Hall

9:00-11:00 Symposium III

“Firm Bridge between Dentistry and Bio-sensing Technology”

Moderator: Dr. Kazuhiro Tominaga
(Kyushu Dental College, Japan)

SIII-1 Electrochemical Detection of Protease Gingipain Responsible for
Periodontal Diseases

Dr. Shigenori Takenaka
(Kyushu Institute of Technology, Japan)

SIII-2 Bio-Microdevices for Manipulation and Analysis of Microliquids and Cells

Dr. Takashi Yasuda
(Kyushu Institute of Technology, Japan)

SIII-3 New Measuring System for Disease Activity of Periodontitis

Dr. Keisuke Nakashima
(Kyushu Dental College, Japan)

11:00-12:00 Special Lecture 3

Moderator: Dr. Tatsuji Nishihara
(Kyushu Dental College, Japan)

L-3 LytTR Regulatory Systems: A Novel Class of Signal Transduction System
in Oral Biofilm

Dr. Justin Merritt
(University of Oklahoma, USA)

Poster Presentation 1 November 20th, Saturday,

Poster Presentation area

14:15-15:15 (2nd Floor, hall) The Young Investigator Award

001. CD44 Mediated Internalization of Aggrecan G1 Domain by Chondrocytes

W. ARIYOSHI, T. OKINAGA, and T. NISHIHARA

Div. of Infections and Molecular Biology, Kyushu Dental College, Kitakyushu, Japan

002. Combination Chemotherapy using Autoinducer-analog and Antibiotics for *Porphyromonas gingivalis* Biofilm

Y. ASAHI¹, Y. NOIRI¹, J. IGARASHI², H. MAEZONO¹, and S. EBISU¹

¹Graduate School of Dentistry, Osaka University, Suita Osaka, Japan, ²Otsuka Chemical Co. Ltd, Tokushima, Japan

003. Effect of n-6/n-3 Polyunsaturated Fatty Acids Ratio on Periodontal Health

M. IWASAKI¹, G. TAYLOR², P. MOYNIHAN³, A. YOSHIHARA¹, K. MURAMATSU⁴, R. WATANABE⁴, and H. MIYAZAKI¹

¹Graduate School of Medical and Dental Sciences, Niigata University, Niigata City, Japan,

²School of Dentistry, University of Michigan, Ann Arbor, MI, ³Newcastle University School of Dental Sciences, Newcastle Upon Tyne, England, UK, ⁴Dept. of Health and Nutrition, Faculty of Human Life Studies, University of Niigata Prefecture, Niigata City, Japan

004. Analysis of Cathepsin K in Human Periodontal Ligament Cells

N. OZAKI, S. YAMADA, C. FUJIHARA, T. TAUCHI, T. KAJIKAWA, T. AWATA, Y. OZAWA, and S. MURAKAMI

Department of Periodontology, Osaka University, Suita Osaka, Japan

005. Stability of Beta Tricalcium Phosphate-coated Mini-implants in Rat Tooth Sockets

S. SANDA¹, D. SAKAI², R. WADDINGTON³, Y. KOMASA², and J. OKAZAKI¹

¹ Department of Removable Prosthodontics and Occlusion, Osaka Dental University, Osaka, Japan,

²Department of Geriatric Dentistry, Osaka Dental University, Osaka, Japan, ³School of Dentistry, Tissue Engineering and Reparative Dentistry, University of Wales, Cardiff, Wales

006. Pharyngeal Dentition of Medaka: Tooth Replacement and Stem Cell Niche

D. ABDUWELI, and Y. TAKANO

Biostructural Science, Tokyo Medical & Dental University, Tokyo, Japan

007. Effects of the Inhibition of Smad3 Phosphorylation on Wound Healing

A. YASUE¹, N. YONEDA², T. WATANABE², and E. TANAKA¹

¹Department of Orthodontics and Dentofacial Orthopedics, Institute of Health Biosciences, The University of Tokushima Graduate School, Tokushima, Japan, ²Department of Orthodontics and Dentofacial Orthopedics, The University of Tokushima Graduate School of Oral Sciences, Tokushima, Japan

008. Hyper-Occlusal Loading Affects to the Expression of Collagen Modifying Enzymes

M. KAKU, M. KAWASAKI, R. MARCELO, and K. UOSHIMA

Niigata University Graduate School of Medical and Dental Sciences, Div. of Bio-Prosthetics, Niigata, Japan

009. Inflammatory Regulation of Voltage-Dependent Sodium Channels in Dental Pulp Cells

H. KIM¹ and Y. SHIBUKAWA²

¹Tokyo Dental College, Chiba, Japan, ²Dept. of Physiology, Tokyo Dental College, Chiba, Japan

010. Analysis of Osteoclast Activation in the Pathogenesis of Rheumatoid Arthritis

K. MATSUMOTO¹, N. ISHIMARU², T. IZAWA¹, Y. HAYASHI², and E. TANAKA¹

¹Department of Orthodontics and Dentofacial Orthopedics, The University of Tokushima Graduate School, Tokushima, Japan, ²Department of Oral Molecular Pathology, The University of Tokushima Graduate School, Tokushima, Japan

011. Eosinophil Cationic Protein Enhances the Growth of Human Gingival Fibroblasts

T. SATO¹, Y. SOGA², T. YAMAGUCHI², H. MAEDA¹, and S. TAKASHIBA¹

¹Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University, Okayama, Japan, ²Department of Periodontics and Endodontics, Okayama University Hospital, Okayama, Japan

012. Effects of Human Recombinant Amelogenin on the Metabolism of Cementoblasts

R. KUNIMATSU¹, K. TANIMOTO¹, Y. TANNE¹, T. KAMIYA¹, T. INUBUSHI², Y.-C. HUANG¹, T. MITSUYOSHI¹, Y. YOSHIMI¹, M. MIYAUCHI², T. TAKATA², and K. TANNE¹
¹Department of Orthodontics and Craniofacial Developmental Biology, Hiroshima University, Hiroshima, Japan, ²Department of Oral Maxillofacial Pathobiology, Hiroshima University, Hiroshima, Japan

013. TNF Antagonist Prevents Inhibitory Effects of LPS on Bone Formation

H. NAKACHI¹, N. TOMOMATSU¹, M. YAMASHIRO¹, K. AOKI², T. AMAGASA¹, and K. OHYA³
¹Maxillofacial Surgery, Tokyo Medical and Dental University, Tokyo, Japan, ²Pharmacology, Dept. of Hard Tissue Engineering, Center of Excellence (G-COE) Program, Tokyo Medical and Dental University, Tokyo, Japan, ³Pharmacology, Dept. of Hard Tissue Engineering, Tokyo Medical and Dental University, Tokyo, Japan

014. SOCS Regulates Cell Cycle Arrest in Periodontopathic Bacterium-Infected Macrophages

T. OKINAGA, W. ARIYOSHI, and T. NISHIHARA
Div. of Infections and Molecular Biology, Kyushu Dental College, Kitakyushu, Japan

14:15-15:15 (2nd Floor, hall) Dental Materials

015. Effects of Fluoride-releasing Dental Materials on Bovine Enamel Erosion

K. WATANABE¹, K. XUAN², S. TAKAHASHI¹, T. OGIHARA¹, and S. WATANABE¹
¹Pediatric Dentistry, Meikai University School of Dentistry, Sakado, Japan, ²Pediatric Dentistry, Fourth Military Medical University, Shanxi, China

016. Effect of Non-vital Bleaching on Dentin Bond Strength

U.U.K.P.C. PERERA¹, K. WAIDYASAKERA¹, T. NIKAIDO¹, and J. TAGAMI^{1,2}
¹Cariology and Operative Dentistry Tokyo Medical & Dental University, Tokyo, Japan ²Global COE, Tokyo Medical & Dental University, Tokyo, Japan

017. Photocatalytic Activity of Synthetic Oxyapatite

Y. KOMADA¹, H. KAMEMIZU², K. KANAYAMA¹, Y. DOI², and T. SHIBUTANI¹
¹Dept. of Periodontology, Asahi University, Gifu, Japan, ²Dental Materials & Technology, Asahi University, Gifu, Japan

14:15-15:15 (2nd Floor, hall) Pulp Biology and Regeneration

018. Dentin Sialophosphoprotein Expression in Engineered Dental Pulp-like Tissue

T. KANEKO¹, Y. YAMANAKA¹, K. YOSHIBA², N. YOSHIBA², H. SUDA³, and T. OKIJI²

¹Div. of Cariology, Operative Dentistry and Endodontics, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, ²Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, ³Tokyo Medical & Dental University, Tokyo, Japan

019. The Expression of Fibroblast Growth Factor Receptors (FGFRs) in Odontoblasts

O. BABA¹, T. TERASHIMA², M. OTA³, M.J. TABATA⁴, and Y. TAKANO⁵

¹Biostructural Science, Tokyo Medical & Dental University, Tokyo, Japan, ²Maxillofacial Anatomy, Tokyo Medical & Dental University, Tokyo, Japan, ³Molecular Craniofacial Embryology, Tokyo Medical & Dental University, Tokyo, Japan, ⁴Biostructural Science, Tokyo Medical and Dental University, Tokyo, Japan, ⁵Biostructural Science, Dept. of Hard Tissue Engineering, Tokyo Medical & Dental University, Tokyo, Japan

020. Localization of Intercellular Coupling between Collateral Processes of Human Odontoblasts

H. IKEDA, and H. SUDA

Dept. of Pulp Biology and Endodontics, Tokyo Medical & Dental University, Tokyo, Japan

14:15-15:15 (2nd Floor, hall) Mineralized Tissue

021. The Effects of RANKL Antagonist Peptide on Bone Formation

M. KHAN¹, K. AOKI², A. YAMAGUCHI³, and K. OHYA²

¹Pharmacology, Dept. of Hard Tissue Engineering, Global Center of Excellence Program (G-COE), Tokyo Medical and Dental University, Tokyo, Japan, ²Pharmacology, Dept. of Hard Tissue Engineering, Tokyo Medical and Dental University, Tokyo, Japan, ³Section of Oral Pathology, Tokyo Medical and Dental University, Tokyo, Japan

022. X-ray Phase Contrast Imaging of Dental Tissues

T. SAKAE¹, H. OKADA¹, H. NAKADA², K. SUZUKI³, and H. YAMAMOTO²

¹Nihon University, Matsudo Chiba, Japan, ²Nihon University, Chiba, Japan, ³Dept. of Histology, Nihon University, Chiba, Japan

023. Micro-CT Assessment of Remineralization by Calcium, Phosphate and Fluoride Agents

H. HAMBÄ¹, G. INOUE¹, T. NIKAIIDO¹, A. SADR², and J. TAGAMI²

¹Cariology & Operative Dentistry, Tokyo Medical & Dental University, Tokyo, Japan, ²Global Center of Excellence Program, Tokyo Medical & Dental University, Tokyo, Japan

024. Morphological Changes of Mandibular Bone in Cartilage Calcification Insufficient Rats

T. INOUE¹, H. AMANO¹, M. TANAKA², S. KOBAYASHI², and T. MIYAZAKI¹

¹Showa University, Tokyo, Japan, ²St. Marianna University School of Medicine, Kanagawa, Japan

025. Development of Mouse Tooth Germ without Outer Enamel Epithelium

M.J. TABATA, N. NISHII, H. ISEKI, O. BABA, and Y. TAKANO

Biostructural Science, Tokyo Medical & Dental University, Tokyo, Japan

026. Hyaluronic Acid Induces Osteogenesis in Periosteal Cell

S. MITSUGI^{1,2}, W. ARIYOSHI¹, T. OKINAGA¹, T. TAKAHASHI², and T. NISHIHARA¹

¹Div. of Infections and Molecular Biology, Kyushu Dental College, Kitakyushu, Japan, ²Div. of Oral and Maxillofacial Reconstructive Surgery, Dept. of Oral and Maxillofacial Surgery, Kyushu Dental College, Kitakyushu, Japan

14:15-15:15 (2nd Floor, hall) Craniofacial Biology

027. Lack of Teeth and Expression of Myosins in Masticatory Muscles

A. YAMANE¹, M. NARIYAMA², Y. KOUTA³, and Y. ASADA⁴

¹Biophysics, Tsurumi University, Yokohama, Japan, ²Pediatric Dentistry, Tsurumi University, Yokohama, Japan, ³Tsurumi University, Yokohama, Japan, ⁴School of Dental Medicine, Tsurumi University, Yokohama, Japan

14:15-15:15 (2nd Floor, hall) Oral and Maxillofacial Surgery

028. Analysis of Apoptotic Mechanisms on HDACi Treated-Osteosarcoma Cells

H. TAKAKU¹, T. OKINAGA², O. TAKAHASHI¹, K. IWANAGA¹, M. HABU¹, W. ARIYOSHI², K. TOMINAGA¹, and T. NISHIHARA²

¹Div. of Maxillofacial Diagnostic and Surgical Science, Dept. of Oral and Maxillofacial Surgery, Kyushu Dental College, Kitakyushu, Japan, ²Div. of Infections and Molecular Biology, Dept. of Health Promotion, Kyushu Dental College, Kitakyushu, Japan

029. The Investigation of HO-1 in Mechanical Stretch Induced Inflammation

M. TAKAO¹, T. OKINAGA¹, W. ARIYOSHI¹, K. IWANAGA², M. HABU², K. TOMINAGA², and T. NISHIHARA¹

¹Div. of Infections and Molecular Biology, Dept. of Health Promotion, Kyushu Dental College, Kitakyushu, Japan, ²Div. of Maxillofacial Diagnostic and Surgical Science, Dept. of Oral and Maxillofacial Surgery, Kyushu Dental College, Kitakyushu, Japan

**14:15-15:15 (2nd Floor, hall) JADR Travel Award WINNER*
/ Neuroscience**

030. PKC dependent modulation of spike firing in mesencephalic trigeminal nucleus.

G. CHUNG*, S.B. OH, J-S. KIM, Y KANG

School of Dentistry, Seoul Nat'l Univ., Seoul, Korea, Graduate School of Dentistry, Osaka Univ., Suita, Osaka

14:15-15:15 (2nd Floor, hall) Oral Health Research/ Behavioral, Epidemiologic and Health Services Research

- 031. Oral Status of Chimpanzees in Primate Research Institute Kyoto University**
Y. MOMOI¹, W. SAITO¹, T. OGAWA¹, T. IKAWA¹, Y. NOMURA¹, S. IMAI¹, N. HANADA¹, T. MIYABE², A. WATANABE², A. KANEKO², S. WATANABE², and M. TOMONAGA²
¹Tsurumi University School of Dental Medicine, Yokohama, Japan, ²Primate Research Institute Kyoto University, Inuyama, Japan
- 032. Effects of an Oral Health Program for High School Students**
K. SHINADA¹, M. UENO², T. ZAITSU³, F.A.C. WRIGHT⁴, and Y. KAWAGUCHI²
¹School of Oral Health Care Sciences, Tokyo Medical & Dental University, Faculty of Dentistry, Tokyo, Japan, ²Oral Health Promotion, Tokyo Medical and Dental University, Tokyo, Japan, ³Dept. of Oral Health Promotion, Tokyo Medical and Dental University, Tokyo, Japan, ⁴Centre for Oral Health Strategy, NSW, Australia, Westmead, NSW, Australia
- 033. Secular Changes of Overjet and Overbite among Middle School Students**
J. SUZUKI¹, Y. SHIBUYA², R. HOSOKAWA², N. TANDA³, E. ITO², and T. KOSEKI⁴
¹Div. of Preventive Dentistry, Tohoku University, Sendai, Japan, ²Tohoku University, Sendai, Japan, ³Dept. of Preventive Dentistry, Tohoku University, Sendai, Japan, ⁴Preventive Dentistry, Tohoku University Graduate School of Dentistry, Sendai, Miyagi, Japan

14:15-15:15 (2nd Floor, hall) Geriatric Oral Research

- 034. TMD in Osteoporosis and Occlusional Disorder using Animal Model**
A. ELSHAWI¹, N. WAKAMATSU¹, M. IINUMA¹, M. NAGAYAMA², and Y. TAMURA¹
¹Dept. of Pediatric Dentistry, Asahi University, Mizuho, Japan, ²Dept. of Oral Pathology, School of Dentistry, Asahi University, Mizuho, Japan
- 035. Effect of Professional Oral Health Care on Elderly: Randomized Trial**
T. MORINO¹, N. HARUTA², K. OOKAWA³, Y. HAGIWARA⁴, and M. SEKI⁴
¹Shizuoka Junior College, University of Shizuoka, Shizuoka, Japan, ²Special Nursing Home for the Elderly "Ryusouen", Shizuoka, Japan, ³Industrial Research Institute of Shizuoka Prefecture, Shizuoka, Japan, ⁴School of Dentistry, Nihon University, Tokyo, Japan

036. Effects of Melatonin on Rat Bone Marrow Cells

E. MOTEGI¹, T. NEZU¹, T. ISHII¹, M. NOMURA¹, K. SUEISHI¹, S. ABE², Y. SATOU², M. YOSHINARI², and T. INOUE²

¹Orthodontics, Tokyo Dental College, Chiba-shi, Chiba-ken, Japan, ²Oral Health Science Center, Tokyo Dental College, Chiba-shi, Chiba-ken, Japan

14:15-15:15 (2nd Floor, hall) Cariology Research

037. Impact of Nano-carbonate Apatite on Remineralization as Measured by QLF

D. INABA¹, A.H. KIM², B.-I. KIM², and E. DE JOSSELIN DE JONG³

¹Dept. of Oral Health and Development, Iwate Medical University, Morioka, Japan, ²Dept. of Preventive Dentistry & Public Oral Health, Yonsei University, Seoul, South Korea, ³School of Dental Sciences, University of Liverpool, Liverpool, United Kingdom

038. Biomineralization Ability of Two Calcium Silicate-based Endodontic Materials

L. HAN, and T. OKIJI

Div. of Cariology, Operative Dentistry and Endodontics, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan

14:15-15:15 (2nd Floor, hall) Oral Medicine and Pathology

039. Epigenetic Modifications Alter Expression of Antimicrobial Peptides in Oral Carcinoma

Y. KAMINO¹, J. SATO¹, M. SAITOH², T. ARAKAWA³, T. TAKUMA⁴, and Y. ABIKO²

¹Health Sciences University of Hokkaido, Sapporo, Japan, ²Institute of Personalized Medical Science, Health Sciences University of Hokkaido, Sapporo, Japan, ³Oral Biochemistry, Health Sciences University of Hokkaido, Hokkaido, Japan, ⁴Dept. of Oral Biochemistry, Health Sciences Univ. at Hokkaido, Tobetsu, Hokkaido, Japan

040. Apoptosis Markers in Oral Lichen Planus

B.P. CALENIC¹, K. OKAMURA², K. YAEGAKI³, and S. TOVARU⁴

¹Nippon Dental University School of Tokyo, Tokyo, Japan, ²Dept. of Morphological Biology, Fukuoka Dental College, Fukuoka, Japan, ³Dept. of Oral Health, Nippon Dental University, Tokyo, Japan, ⁴Dept. of Oral Medicine, Faculty of Dentistry University of Medicine and Pharmacy Carol Davila, Bucharest, Romania

14:15-15:15 (2nd Floor, hall) Education Research

041. Trial of Bidirectionality Lecture through PBL Method in Current Curriculum

H. KATSURAGI

Microbiology, Nippon Dental University, Niigata, Japan

042. Survey Questions of E-learning about Dental Student

T. NAKAHARA¹, T. NISHIHARA²

¹General Education, Kyushu Dental College, Kitakyushu, Fukuoka, Japan, ²Div. of Infections and Molecular Biology, Kyushu Dental College, Kitakyushu, Japan

14:15-15:15 (2nd Floor, hall) Microbiology/Immunology

043. The Water-Soluble Mushroom Extracts Perturb the Biofilm Formation

A. YANO¹, S. KIKUCHI¹, and Y. YOSHIDA²,

¹Iwate Biotechnology Research Center, Iwate, Japan, ²Dept. of Dental Pharmacology, Iwate Medical University School of Dentistry, Morioka, Japan

044. Divalent Cations Enhance Short-Time Fluoride Exposure-induced Inhibition on Streptococcal Acidogenicity

H. DOMON-TAWARAYA¹, K. NAKAJO², J. WASHIO², S. FUKUMOTO¹,
and N. TAKAHASHI²

¹Div. of Pediatric Dentistry, Tohoku University, Sendai, Japan, ²Div. of Oral Ecology and Biochemistry, Tohoku University, Sendai, Japan

045. Detection of Periodontal Pathogens in Gingival Tissues using Novel MAb

G.A. RAJAKARUNA¹, K. UCHIDA², M. UMEDA¹, A. FURUKAWA², Y. SUZUKI², N. LOKMAN², Y. IZUMI¹, and Y. EISHI²

¹Sect. of Periodontology, Dept. of Hard Tissue Engineering, Tokyo Medical & Dental University, Tokyo, Japan, ² Dept. of Human Pathology, Tokyo Medical & Dental University, Tokyo, Japan

046. Amphotericin B and Lipid A Synergistically Up-regulate Cytokine Production

R. TAMAI, M. SUGAMATA, A. SUGIYAMA, and Y. KIYOURA

Dept. of Oral Medical Science, Ohu University School of Dentistry, Koriyama, Fukushima, Japan

047. Differential Expression of Drosomycin-like Defensin in Human Oral Cells

J. SATO¹, S. HATAKEYAMA¹, M. SAITOH², M. NISHIMURA¹, M. YAMAZAKI¹, Y. KURASHIGE², T. KAKU¹, and Y. ABIKO³

¹ Div. of Clinical Oral Pathology, Dep. of Human Biology and Pathophysiology, Health Sciences University of Hokkaido, Sapporo, Japan, ² Div. of Pediatric Dentistry, Dep. of Oral Growth and Development, Health Sciences University of Hokkaido, Hokkaido, Japan, ³ Div. of Oral Medicine and Pathology, Dep. of Dental Science, Institute of Personalized Medical Science, Health Sciences University of Hokkaido, Sapporo, Japan

14:15-15:15 (2nd Floor, hall) Periodontal Research

048. γ -glutamyl Transpeptidase (GGT) Is a Potent Risk Factor of Periodontitis

M. MIYAUCHI, Y. KAWAZOE, and T. TAKATA

Dept. of Oral and Maxillofacial Pathobiology, Hiroshima University, Hiroshima, Japan

049. Expansion and Differentiation of Periodontal Ligament STRO-1⁺/CD146⁺ Cells with FGF-2

T. HIDAKA, T. NAGASAWA, T. KADO, K. SHIRAI, and Y. FURUICHI

Dept. of Periodontology & Endodontology, Health Sciences University of Hokkaido, Ishikari-Toubetsu, Japan

050. Reduction of CCL-2 in Rheumatoid Arthritis Rats by Laser Irradiation

L. ZHANG, J. ZHAO, N. KUBOYAMA, and Y. ABIKO

Depts. of Biochemistry and Molecular Biology, Nihon University, Matsudo, Chiba, Japan

051. Infection with *Aggregatibacter actinomycetemcomitans* and Preeclampsia

E. HIRANO, N. SUGITA, A. KIKUCHI, Y. SHIMADA, J. SASAHARA, R. IWANAGA, K. TANAKA, and H. YOSHIE

Grad. School of Medical and Dental Sciences, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan

052. Enhanced HSPs Gene Expression in *Aggregatibacter actinomycetemcomitans* LPS-challenged Human Trophoblasts

Y. LI, Y. SHIBATA, and Y. ABIKO

Dept. of Biochemistry and Molecular Biology, Nihon University, School of Dentistry at Matsudo, Matsudo, Chiba, Japan

053. Probing Force and Required Time for Accurate Root Surface Detection

E. ITO¹, Y. TAKAHASHI², T. OHBA³, M. TAKAHASHI³, R. FUNAHASHI³, I. YUKI³, R. HOSOKAWA¹, and T. KOSEKI¹

¹Dept. of Preventive Dentistry, Tohoku University Graduate School of Dentistry, Sendai, Japan,

²School of Oral Health Science, Kyushu Dental College, Kitakyusyu, Japan, ³Yamagata Dental Hygienist School, Yamagata, Japan

14:15-15:15 (2nd Floor, hall) Prosthodontics/Implantology

054. Influence of Flexural Modulus of Posts on Composite Resin Cores

N. KUMAGAE¹, W. KOMADA¹, D. OKADA¹, K. YOSHIDA¹, H. TAKAHASHI², and H. MIURA¹

¹Tokyo Medical and Dental University, Tokyo, Japan, ²Advanced Biomaterials, Tokyo Medical and Dental University, Tokyo, Japan

055. Fracture Resistance of RCT-teeth Restored with Various Composite Core Materials

P. PANITIWAT, and P. SALIMEE

Prosthodontics, Chulalongkorn University, Bangkok, Thailand

056. Effect of Foot Position and Jaw Function on Body Sway

Y. NISHIYAMA¹, M. OHNUKI¹, C. OHKUBO¹, H. MIYAMOTO², N. OKAMOTO¹, H. OSADA¹, M. SATO¹, and R. MATSUDA¹

¹Dept. of Removable Prosthodontics, Tsurumi University, Yokohama, Japan, ²Inter-Reha Co., Ltd, Tokyo, Japan

057. Up-regulation of TGF- β /BMP Signaling by β -TCP Implanted in Dog Mandible

J. ZHAO¹, T. WATANABE², and Y. ABIKO¹

¹Dept. of Biochemistry and Molecular Biology, Nihon University, Matsudo, Chiba, Japan, ²Dept. of Anatomy, Kanagawa Dental College, Kanagawa, Japan

Poster Presentation 2 November 21st, Sunday,

Poster Presentation area

12:30-13:30 (2nd Floor, Hatton Award presentation area)

Presentation by Candidate for Hatton Award 2011

058. Relationship Between Functional Monomer and Acid-base Resistant Zone

T. TAKAGAKI¹, H. NURROHMAN², T. NIKAIDO¹, and J. TAGAMI²

¹Tokyo Medical & Dental University, Tokyo, Japan, ²Tokyo Medical & Dental University Global COE Program, Tokyo, Japan

059. Roles of Heparan Sulfate Modifications in Dentinogenesis

S. HAYANO, H. KUROSAKA, M. SAITO, I. KALUS, T. DIERKS, T. YAMASHIRO

Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan

060. The Anti-biofilm Effects of Macrolide Antibiotics on *Porphyromonas gingivalis*

H. MAEZONO, Y. NOIRI and S. EBISU

Restorative Dentistry and Endodontology, Osaka University, Suita, Japan

061. Brain-Derived Neurotrophic Factor (BDNF) Induces Migration of Endothelial Cells

S.MATSUDA, T.FUJITA, H.SHIBA and H.KURIHARA

Hiroshima University Graduate School of Biomedical Sciences, Hiroshima, Japan

062. Osteoactivin Expression in Periodontal Cells Subject to Orthodontic Forces

K.KAWATA, K.K. KUROISHI, S. KOBAYASHI, T. GOTO

Kyushu Dental College, Kitakyushu, Japan

15:30-16:30 (2nd Floor, hall) Dental Materials

063. Bactericidal Activity of Neutral Electrolyzed Water Gel

Y. NAGAMATSU¹, K.K. CHEN², K. TAJIMA¹, and H. KAKIGAWA¹,
¹Kyushu Dental College, Kitakyushu, Japan, ²Kaohsiung Medical University, Kaohsiung City, Taiwan

064. Study on Selective Removal of Caries using Laser Absorption Properties

T. KAMONO¹, K. YOSHIKAWA¹, N. IWATA¹, K. AWAZU², and K. YAMATO¹
¹Operative Dentistry, Osaka Dental University, Osaka, Japan, ²Medical Beam Physics Laboratory, Div. of Sustainable Energy and Environmental Engineering, Graduate School of Engineering, Osaka University, Osaka, Japan

15:30-16:30 (2nd Floor, hall) Pulp Biology and Regeneration

065. Responses of Immunocompetent Cells in Dentin Bridge Formation after Pulpotomy

M. ZHANG¹, E. JIMI², and M. KOU³
¹Div. of Oral Pathology, Kyushu Dental College, Kitakyushu-city, Japan, ²Div. of Molecular Signaling and Biochemistry, Kyushu Dental College, Kitakyushu-city, Japan, ³Div. of Oral Pathology, Kyushu Dental College, Kitakyushu, Japan

066. Effects of Gelatin Sponges on Several Cell Lines

A. WASHIO¹, C. KITAMURA¹, M. TERASHITA², and T. NISHIHARA³,
¹Cariology and Periodontology, Kyushu Dental College, Kitakyushu, Japan, ²Clinical Communication, Kyushu Dental College, Kitakyushu, Japan, ³Health Promotion, Kyushu Dental College, Kitakyushu, Japan

15:30-16:30 (2nd Floor, hall) Diagnostic Sciences

067. Investigation of Thyroid Glands in Oral SCC Patients by US

N. WAKASUGI-SATO, T. TANAKA, S. KITO, S. MATSUMOTO-TAKEDA, and Y. MORIMOTO
Oral Diagnostic Science, Kyushu Dental College, Kitakyushu, Japan

068. Investigation of Observation System for Root Canal with Image Fiber

S. YOSHII¹, Y. LIU², C. KITAMURA¹, M. TERASHITA³, T. NISHIHARA⁴, and T. UEDA²

¹Div. of Pulp Biology, Operative Dentistry, and Endodontics, Dept. of Cariology and Periodontology, Kyushu Dental College, Fukuoka, Japan, ²Graduate School of Information, Production and Systems, Waseda University, Fukuoka, Japan, ³Clinical Communication, Kyushu Dental College, Kitakyusyu, Japan, ⁴Div. of Infections and Molecular Biology, Dept. of Health Promotion, Kyushu Dental College, Fukuoka, Japan

15:30-16:30 (2nd Floor, hall) Pharmacology/Therapeutics/Toxicology

069. Anti-allodynia Effects of Glycine Transporter Inhibitors in Neurophathic Pain Models

N. MOTOYAMA¹, K. MORITA², T. KITAYAMA², F. NISHIMURA¹, T. KANEMATSU², and T. DOHI³

¹Dept. of Dental Science for Health Promotion, Hiroshima University, Hiroshima, Japan, ²Dept. of Dental Pharmacology, Hiroshima University, Hiroshima, Japan, ³Dept. of Clinical Pharmacology, Nihon Pharmaceutical University, Saitama, Japan

070. P2Y₁₁ Purinoceptors Mediates the Chemotaxis Response in Rat Neutrophils

F. ALKAYED¹, and Y. TAMURA²

¹Dental Pharmacology, Asahi University, Mizuho Gifu, Japan, ²Dept. of Pediatric Dentistry, Asahi University, Mizuho, Japan

15:30-16:30 (2nd Floor, hall) Mineralized Tissue

071. Hyaluronic Acid Enhances BMP-2 Induced Osteogenesis in MG63 Cells

M. KAWANO¹, W. ARIYOSHI², K. IWANAGA¹, T. OKINAGA², M. HABU¹, K. TOMINAGA¹, and T. NISHIHARA²

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072. Effects of Calcium Hydroxide on Osteoblast Differentiation and Mineralization

H. NASA, S. ITOH, S. IMAZATO, and S. EBISU

Restorative Dentistry and Endodontology, Osaka University, Suita, Japan

073. Regulatory Effect on Osteoclast Differentiation of Soluble Factors

T. KANEUJI¹, W. ARIYOSHI¹, T. OKINAGA¹, T. TAKAHASHI², and T. NISHIHARA¹

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15:30-16:30 (2nd Floor, hall) Craniofacial Biology

074. Effect of Fixed Appliance on Maxilla during Development

E. NODAI, H.-Y. HSU, and K. YAMAGUCHI

Orofacial Functions and Orthodontics, Kyushu Dental College, Kitakyushu, Japan

075. Histochemical Analysis of Root Resorption in Rats by Jiggling Forces

Y. MATSUDA, M. MOTOKAWA, M. KAKU, T. KAWATA, T. FUJITA, J. OHTANI, H.

SUNAGAWA, H. KOSEKI, S. ABEDINI, H. HAYASHI, A. TERAU, S. KOJIMA, N.

TSUBAMOTO, E. ISHIKAWA, and K. TANNE

Dept. of Orthodontics and Craniofacial Developmental Biology, Hiroshima University, Hiroshima, Japan

076. Effect of Mouth Breathing on Chewing Activity in Daily Life

N. IKENAGA, S. DAIMON, H.-Y. HSU, and K. YAMAGUCHI

Orofacial Functions and Orthodontics, Kyushu Dental College, Kitakyushu, Japan

15:30-16:30 (2nd Floor, hall) Oral and Maxillofacial Surgery

077. Histone Deacetylase Inhibitor Induces Apoptosis in Oral Squamous Cell Carcinoma

O. TAKAHASHI¹, T. OKINAGA¹, K. IWANAGA², W. ARIYOSHI¹, M. HABU², K.

TOMINAGA², and T. NISHIHARA¹

¹Div. of Infections and Molecular Biology, Kyushu Dental College, Kitakyushu, Japan, ²Div. of Maxillofacial Diagnostic and Surgical Science, Dept. of Oral and Maxillofacial Surgery, Kyushu Dental College, Kitakyushu, Japan

078. Effects of Ultrasound and EDBL on Cytotoxicity in Ca9-22

K. IWANAGA¹, O. TAKAHASHI¹, T. OKINAGA², M. KAWANO¹, W. ARIYOSHI², T. NISHIHARA², and K. TOMINAGA¹

¹Div. of Maxillofacial Diagnostic and Surgical Science, Dept. of Oral and Maxillofacial Surgery, Kyushu Dental College, Kitakyushu, Japan, ²Div. of Infections and Molecular Biology, Dept. of Health Promotion, Kyushu Dental College, Kitakyushu, Japan

079. HDAC Inhibitor Induces Cell Cycle Arrest in Myeloma Cells

S. FUJII¹, T. OKINAGA², W. ARIYOSHI², O. TAKAHASHI¹, K. IWANAGA¹, M. HABU¹, K. TOMINAGA¹, and T. NISHIHARA²

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15:30-16:30 (2nd Floor, hall) Diagnostic Sciences

080. A Case of Septic Arthritis of the TMJ without Malocclusion

S. KITO¹, T. TANAKA², N. WAKASUGI-SATO¹, S. MATSUMOTO-TAKEDA¹, and Y. MORIMOTO²

¹Oral Diagnostic Science, Kyushu Dental College, Kitakyushu, Japan, ²Kyushu Dental College, Kitakyushu, Japan

081. Utility of Dynamic MR Sialography for Dry Mouth

T. TANAKA, S. KITO, N. WAKASUGI-SATO, S. MATSUMOTO-TAKEDA, and Y. MORIMOTO

Oral Diagnostic Science, Kyushu Dental College, Kitakyushu, Japan

082. New Method for Pain Evaluation : 1st Report; Analysis Method

S. SAKUMA¹, K. NAKATA², F. OTSUKA¹, K. INAMOTO², S. NAGATA³, K. ANDO¹, M. SHIMIZU⁴, H. IKEDA¹, I. MORITA⁵, H. HATTORI¹, T. MORI¹, H. NAKAGAKI⁵, K. KURITA⁴, H. NAKAMURA², and Y. ITO¹

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Sumitomo Pharma Co., Ltd, Osaka, Japan, ⁴Dept. of Oral and Maxillofacial Surgery School of Dentistry, Aichi Gakuin University, Nagoya, Japan, ⁵Dept. of Preventive Dentistry and Dental Public Health School of Dentistry, Aichi-Gakuin University, Nagoya, Japan

083. New Method for Pain Evaluation : 2nd Report; Correlation with VAS

K. INAMOTO¹, K. NAKATA¹, S. SAKUMA², S. NAGATA³, A. ORIMOTO¹, R. KAWAI¹, F. OTSUKA², M. SHIMIZU⁴, I. MORITA⁵, K. KURITA⁴, H. NAKAGAKI⁵, Y. ITO², and H. NAKAMURA¹

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15:30-16:30 (2nd Floor, hall) Oral Health Research/ Behavioral, Epidemiologic and Health Services Research

084. Prediction of Potential Caries Risk of Elderly by Combination of Modified Saliva Check SMTM and the Quantitative Saliva sIgA Method

A. TADA¹, H. MIYAZAKI², S. YONEDA³, A. YOSHIHARA⁴, and H. SENPUKU³

¹Hyogo University, Kakogawa, Japan, ²Div. of Preventive Dentistry, Dept. of Oral Health Science, Graduate School of Medical and Dental Sciences, Niigata University, Niigata city, Japan, ³Dept. of Bacteriology I, National Institute of Infectious Diseases, Tokyo, Japan, ⁴Niigata University School of Dentistry, Niigata city, Japan

085. Smoking among Medical, Dental and Pharmacology Students at Qassim University

M. ALRSHEEDI

Qassim University, Qassim, Saudi Arabia

15:30-16:30 (2nd Floor, hall) Geriatric Oral Research

086. Osteoporosis Screening with Dental Alveolar Bone Density Evaluation System

Y. TAKAISHI¹, A. KAMADA², T. IKEO³, T. MIKI⁴, and T. FUJITA⁵

¹Takaishi Dental Clinic, Himeji, Japan, ²Dept. of Biochemistry, Osaka Dental University, Hirakata, Osaka, Japan, ³Dept. of Biochemistry, Osaka Dental University, Hirakata Osaka, Japan, ⁴Dept. of Geriatrics, Osaka City University, Osaka, Japan, ⁵Katsuragi Hospital, Kobe, Japan

087. Tongue Microbiota Is Disturbed in Elderly Adults Fed by Tube

T. TAKESHITA¹, M. YASUI¹, Y. NAKANO², and Y. YAMASHITA¹

¹Section of Preventive and Public Health Dentistry, Div. of Oral Health, Growth and Development, Kyushu University Faculty of Dental Science, Fukuoka, Japan, ²Dept. of Chemistry, Nihon University School of Dentistry, Tokyo, Japan

15:30-16:30 (2nd Floor, hall) Oral Medicine and Pathology

088. Neutral Endopeptidase and Endothelin-converting Enzyme in Human Buccal Mucosal Epithelium

N. KINOSHITA, S. AWANO, A. YOSHIDA, I. SOH, T. MINEOKA, and T. ANSAI
Dept. Community Oral Health Science, Kyushu Dental College, Kitakyushu, Japan

089. Ameloblastin Regulates Osteogenic Differentiation by Inhibiting Src Kinase

Y. KUDO, S. IIZUKA, M. MIYAUCHI, and T. TAKATA
Oral and Maxillofacial Pathobiology, Hiroshima University, Hiroshima, Japan

15:30-16:30 (2nd Floor, hall) Microbiology/Immunology

090. Branched-chain Amino Acids Utilization by *Streptococcus mutans*

T. ARIMOTO, M. TANIGUCHI, M. TAKAHASHI, and T. IGARASHI
Dept. of Oral Microbiology, Showa University, Tokyo, Japan

091. Products from Bacteria Play Multiple Functions in Biofilm Formation

H. SENPUKU¹, A. OGAWA¹, N. NARISAWA¹, S. YONEDA², E.B. TUNA¹, T. KAWARAI³,
and K. OCHIAI⁴

¹Dept. of Bacteriology, National Institute of Infectious Diseases, Tokyo, Japan, ²Coll. of Dentistry, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Japan, ³Dept. of Microbiology, The Nippon Dental University School of Life Dentistry at Tokyo, Tokyo, Japan, ⁴Dept. of Microbiology, Nihon University School of Dentistry, Tokyo, Japan

092. Quantification of Propidium Monoazide (PMA)-treated Endodontic Bacteria with Real-Time PCR

M. NAGAYOSHI¹, T. NISHIHARA², T. OKINAGA², W. ARIYOSHI², A. YOSHIDA³, M. TERASHITA⁴, and C. KITAMURA¹

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- 093. Bacteriocin Susceptibility and Production in *Streptococcus mutans***
M. MATSUO¹, E. NAGATA², T. OHO², and H. KOMATSUZAWA¹
¹ Dept. of Oral Microbiology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan, ²Dept. of Preventive Dentistry, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan
- 094. Identification of *Porphyromonas gingivalis* Client Proteins with *Streptococcus oralis* GAPDH**
K. MAEDA, M. KUBONIWA, M. IWASAKI, M. TOE, E. HASHINO, and H. NAGATA
Dept. of Preventive Dentistry, Osaka University, Graduate School of Dentistry, Suita, Osaka, Japan
- 095. Novel Quantitative Detection Method for *Aggregatibacter actinomycetemcomitans* JP2**
N. DEWAKE¹, A. YOSHIDA¹, Y. TAKAHASHI¹, S. AWANO¹, H. MIYAZAKI², and T. ANSAI¹
¹Div. of Community Oral Health Science, Kyushu Dental College, Kitakyushu, Japan, ²Dept. of Preventive Dentistry, Graduate School of Medical and Dental Sciences, Niigata University, Niigata, Japan
- 096. Effects of Lipoproteins on the Plaque formation of Murine Macrophages**
M. MORISHITA¹, K. NAKASHIMA¹, T. OKINAGA², W. ARIYOSHI², M. YOKOTA¹, and T. NISHIHARA²
¹Div. of Periodontology, Dept. of Cariology and Periodontology, Kyushu Dental College, Kitakyushu, Fukuoka, Japan, ² Div. of Infections and Molecular Biology, Dept. of Health Promotion, Kyushu Dental College, Kitakyushu, Fukuoka, Japan
- 097. Purified Fraction of EMD inhibits the Proliferation of Epithelial cells**
S. FUJIMOTO¹, N. SAITO², W. ARIYOSHI³, T. OKINAGA³, K. YAMAGUCHI¹, and T. NISHIHARA³
¹ Div. of Orofacial Functions and Orthodontics, Dept. of Growth and Development of Functions, Kyushu Dental College, Kitakyushu, Japan, ²Div. of Pulp Biology, Operative Dentistry and Endodontics, Dept. of Cariology and Periodontology, Kyushu Dental College, Kitakyushu, Japan, ³ Div. of Infections and Molecular Biology, Dept. of Health Promotion, Kyushu Dental College, Kitakyushu, Japan

15:30-16:30 (2nd Floor, hall) Periodontal Research

098. Synthetic Ameloblastin Peptide Stimulates Differentiation of Human Periodontal Ligament Cells

M. KITAGAWA¹, M. MIYAUCHI², and T. TAKATA²

¹Center of Oral Clinical Examination, Hiroshima University, Hiroshima, Japan, ²Dept. of Oral and Maxillofacial Pathobiology, Hiroshima University, Hiroshima, Japan

099. Amelogenin without N-terminal Domain Affects the Metabolism of Cementoblasts

Y. YOSHIMI¹, K. TANIMOTO¹, R. KUNIMATSU¹, Y. TANNE¹, T. KAMIYA¹, T. INUBUSHI¹, Y.-C. HUANG¹, T. MITSUYOSHI¹, M. MIYAUCHI², T. TAKATA², and K. TANNE¹

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100 Functions of PI3K and MAPK on Wnt5a Expression in THP-1

H. NANBARA¹, N. WARA-ASWAPATI², T. NAGASAWA³, Y. YOSHIDA⁴, R. YASHIRO⁵, Y. BANDO⁶, H. KOBAYASHI¹, J.A. BOCH⁷, and Y. IZUMI¹

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101 Role of Pili in *S. sanguinis* to the Cell Adhesion

R. SAEKI¹, M. MORISHITA², T. MAEDA¹, H.I. OGAWA¹, T. OKINAGA³, W. ARIYOSHI³, and T. NISHIHARA³

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15:30-16:30 (2nd Floor, hall) Prosthodontics/Implantology

102 Biomechanics of Mandibular Torus Development in Response to Lateral Loading

K. NAKAMURA¹, K. TAJIMA², K.-K. CHEN³, Y. NAGAMATSU², and S. MASUMI¹

¹Occlusion & Maxillofacial Reconstruction, Kyushu Dental College, Kitakyushu, Japan,

²Biomaterials, Kyushu Dental College, Kitakyushu, Japan, ³Kaohsiung Medical University, Kaohsiung City, Taiwan

103 Effect of PDL Elastic Modulus on Biomechanical Behavior of Mandible

K.-K. CHEN¹, K. TAJIMA², K. NAKAMURA³, Y. NAGAMATSU², and S. MASUMI³

¹Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung City, Taiwan,

²Biomaterials, Kyushu Dental College, Kitakyushu, Japan, ³Occlusion & Maxillofacial Reconstruction, Kyushu Dental College, Kitakyushu, Japan

104 Effect of Splint Therapy on Non-reducing TMJ Disc Displacement

T. FUJII, Y. YAMABE

Nagasaki University Hospital, Nagasaki-city, Japan

105 Failure Modes of RCT-teeth with Different Ferrule and Post Size

A. PONGPATTARIN and P. SALIMEE

Prosthodontics, Chulalongkorn University, Bangkok, Thailand

15:30-16:30 (2nd Floor, hall) Dental Anesthesiology Research

106 Changes in Brain Regional Activity during Intravenous Sedation

Y. SHINOHE, N. SAKAMOTO, K. SATO, M. SATO, S. JOH

Iwate Medical University, Morioka, Japan