

The 58th Annual Meeting of
Japanese Association for Oral Biology
August 24 – August 26, 2016
Health Sciences University of Hokkaido
School of Dentistry, JAPAN



JAOB JAPANESE ASSOCIATION FOR
ORAL BIOLOGY since 1958

Plenary Lecture Accorded by the LOTTE Foundation (Open Lecture for Citizenry)

(August 25, 13 : 00-14 : 00)

PL-1

Modeling human psychiatric/neurological disorders using iPS cell technologies and transgenic non-human primates

Hideyuki Okano

Dept Physiol, Keio Univ Sch Med

Special Symposium Accorded by the LOTTE Foundation: A new horizon for gene-targeting medical technologies (August 25, 14 : 10-16 : 10)

FS-1

The maturation of gene therapy: oral and general application on the horizon

Baum, Bruce J.

Natl Inst Dent Craniofac Res

FS-2

Development of therapeutic modality for fibrosis by use of VA-liposome HSP 47

Niitsu Y

Molecular Target Exploration Lab, Center for FMI, Hokkaido Univ

FS-3

Front-line of genetic engineering using genome editing technology

Sakuma T

Dept Math and Life Sci, Grad Sch Sci, Hiroshima Univ

Lecture by JAOb/Lion Dent Research Awards Winner (August 25, 11 : 10-12 : 00)

L-1

Exploration of functional regulators for branching morphogenesis of salivary gland epithelia by microanalysis of gene expression

Sakai T

Dept Oral-facial Disorders, Osaka Univ Grad Sch Dent

JAOb/Rising Members Award Winner (August 26, 11 : 00-12 : 00)

Y-1

Involvement of circadian clock in bone metabolism

Hirai T

Dept Pharmacol, Sch Dent, Aichi-Gakuin Univ

Y-2

Mutant activin-like kinase 2 in fibrodysplasia ossificans progressiva are activated via T203 by BMP type II receptors

Fujimoto M^{1,2}, Ohte S¹, Osawa K¹, Miyamoto A¹, Tsukamoto S¹, Mizuta T¹, Kokabu S¹, Suda N², Katagiri T¹

¹Div Pathophysiol, Res Center for Genomic Med, Saitama Med Univ, ²Div Orthodont, Dept Human Dev Fostering, Meikai Univ Sch Dent

Y-3

Molecular mechanisms of sweet-suppressing effect by gymnemic acids on the sweet taste receptor, TAS1R2/TAS1R3

Sanematsu K¹, Shigemura N¹, Ninomiya Y²

¹Sect Oral Neurosci, Grad Sch Dent Sci, Kyushu Univ, ²Div Sensory Physiol, Res Dev Center for Taste and Odor Sensing, Kyushu Univ

Y-4

Attenuation of the PI3 kinase/Akt signaling pathway by *Porphyromonas gingivalis* gingipains RgpA, RgpB, and Kgp

Nakayama M^{1,2}

¹Dept Oral Microbiol, Grad Sch Med, Dent and Pharma Sci, Okayama Univ, ²Adv Res Center for Oral and Craniofac Sci, Dent Sch, Okayama Univ

Symposium of JAOB: Current status of basic research for tissue regeneration (August 25, 9 : 00-11 : 00)

KS-1

Epiprofin regulates dental epithelial stem cell fate to the ameloblast lineage and differentiation through its multiple functions

Yamada Y¹, Sakai K^{1,2}, Chiba Y^{1,5}, Mahboubi D¹, Ikeuchi T¹, Ishikawa M^{1,3}, Nakamura T^{1,4}, Fukumoto S^{1,5}

¹Lab Cell Dev Biol, NIDCR, NIH, ²Dept Oral Maxillofac Surg, Nagoya Univ Grad Sch Med, ³Dept Restorative Dent, Div Oper Dent, Tohoku Univ, Grad Sch Dent, ⁴Div Mol Pharmacol Cell Biophysics, Dept Oral Biol, Tohoku Univ Grad Sch Dent, ⁵Div Pediatr Dent, Dept Oral Health Dev Sc, Tohoku Univ Grad Sch Dent

KS-2

Laminin active peptides conjugated matrices as a biomaterial for tissue engineering

Nomizu M, Katagiri F, Hozumi K, Kikkawa Y

Dept Clin Biochem, Tokyo Univ Pharmacy Life Sci

KS-3

Senescence changes the extracellular matrix environment in adult neurogenesis

Arikawa-Hirasawa E, Kerever A, Yamada T

Res Inst for Dis of Old Age, Grad Sch Med, Juntendo Univ

KS-4

Regenerative approach of salivary gland targeting stem cells

Sakai T

Dept Oral-facial Disorders, Osaka Univ Grad Sch Dent

KS-5

SCF^{β-TRCP} E3 ubiquitin ligase promotes lipid synthesis in an mTORC-dependent manner

Inuzuka H¹, Fukushima H¹, Shimizu K², Wei W², Fukumoto S¹

¹Center for Adv Stem Cell and Regenerative Res, Tohoku Univ, ²Beth Israel Deaconess Med Center, Boston, MA

Symposium of Science Council of Japan (August 26, 9 : 00-11 : 00)

CS-1

Signal transduction between oral biology and clinical dental research

Yamaguchi A

Oral Health Sci Center, Tokyo Dent Coll

CS-2

Periodontal tissue regeneration with BDNF (brain-derived neurotrophic factor)

Kurihara H

Dept Periodont Med, Div Appl Life Sci, Inst Biomed Health Sci, Hiroshima Univ
CS-3
Costimulation Research – from bench to bedside and back to bench–
Azuma M
Tokyo Med Dent Univ, Grad Sch Med Dent Sci; Member, Science Council of Japan
CS-4
Future directions of clinical treatment of orofacial pain disorders: Any hope for feedback from basic research?
Yatani H
Dept Fixed Prosthodont, Osaka Univ Grad Sch Dent
CS-5
Orofacial pain its underlying mechanism and clinical relevance
Iwata K
Dept Physiol, Sch Dent, Nihon Univ

Main Symposium A (August 25, 9 : 00–11 : 00)

MSA-1
In vivo imaging analyses for monitoring the intracellular signaling with biological functions: monitoring of Ca^{2+} responses in salivary acinar cells with salivary secretions and blood flow

Tanimura A, Nezu A, Morita T
Div Pharmacol, Sch Dent, Health Sci Univ Hokkaido

MSA-2
In vitro analysis of homeostatic mechanism of bone using two-photon microscopy
Hikita A
Dept Cartilage & Bone Regeneration, Grad Sch Med, The Univ Tokyo

MSA-3
Functional analyses of bone cells by integrative approaches of multimodal super resolution microscopy
Iimura T^{1~4}, Lee J-W²

¹Ehime Univ, Proteo-Science Center (PROS), ²Ehime Univ, Advanced Research Support Center (ADRES), ³Ehime Univ, Grad Sch Med, ⁴Ehime Univ Hosp, Artificial Joint Integrated Center
MSA-4

Electron microscopy of tissues, cells and molecules in hydrophilic environment
Sato C¹, Ebihara T¹, Okuda K², Kawata M³, Sato M¹, Yamazawa T⁴, Mizunoe Y², Sugimoto S²
¹Biomed-sps AIST, ²Dept Bacteriol, The Jikei Univ Sch Med, ³Cd-fmat AIST, ⁴Dept Mol Physiol, The Jikei Univ Sch Med

Main Symposium B (August 25, 15 : 00–17 : 00)

MSB-1
Oral microecosystem —Listen to the silent majority—
Takahashi N
Div Oral Ecol Biochem, Dept Oral Biol, Tohoku Univ Grad Sch Dent
MSB-2
Scardovia wiggiae and its potential role as a caries pathogen
Kressirer C, Tanner A
The Forsyth Institute, Cambridge, MA, USA

MSB-3

The strategy for oral biofilm -The best use of oral *Veillonella*-

Mashima I^{1,2}, Theodore CF², Miyakawa H², Nakazawa F²

¹Postdoctoral Fellow of JSPS, ²Dept Oral Microbiol, Sch Dent, Health Sci Univ Hokkaido

MSB-4

Polymicrobial *Candida* biofilms: friends and foe in the oral cavity

Ramage G

Oral Sci Res Group, Glasgow Dent Sch, Sch Med, Dent Nursing, Univ Glasgow, UK

Main Symposium C (August 26, 9 : 00-11 : 00)

MSC-1

Structure and function of maturation stage ameloblasts: An overview

Takano Y

Tokyo Med Dent Univ (Emeritus)

MSC-2

The role of KLK4 and maturation-stage ameloblasts

Yamakoshi Y¹, Kobayashi-Kinoshita S²

¹Dept Biochem Mol Biol, Sch Dent Med, Tsurumi Univ, ²Dept Pediatr Dent, Sch Dent Med, Tsurumi Univ

MSC-3

Expression and function of TRP channel involved in enamel mineralization

Okabe K¹, Ogata K^{1,2}, Shin M¹, Oka K², Okamoto F¹, Kajiya H¹

¹Cell Physiol, Fukuoka Dent Coll, ²Pediatr Dent, Fukuoka Dent Coll

MSC-4

Function of V-ATPase for highly calcification during enamel maturation

Harada H¹, Ida-Yonemochi H², Sahara Y³, Ohshima H², Fujiwara N¹, Otsu K¹

¹Dept Anat, Iwate Med Univ, ²Div Anat Cell Biol Hard Tissue, Niigata Univ Grad Sch, ³Dept Physiol, Iwate Med Univ

MSC-5

Role of glucose metabolism in cell differentiation of maturation stage ameloblasts

Ida-Yonemochi H

Div Anat Cell Biol Hard Tissue, Niigata Univ Grad Sch Med Dent Sci

Main Symposium D (August 26, 13 : 10-15 : 10)

MSD-1

Studies on molecular mechanisms underlying dementia induced by periodontal disease and masticatory dysfunction in mice

Michikawa M

Dept Biochem, Nagoya City Univ Sch Med Sci

MSD-2

Modulation of higher brain function in association with food characteristics during growth period

Ono T

Orthodont Sci, Tokyo Med Dent Univ

MSD-3

Activating and inhibitory system in the peripheral-central neuronal networks of orofacial sensation

Kuramoto E, Iwai H, Yamanaka A, Goto T

Dept Oral Anat Cell Biol, Grad Sch Med Dent Sci, Kagoshima Univ

MSD-4

How human brains activate by tastes in the mouths? : From brain mapping to the network

Goto T

Dept Oral Maxillofac Radiol, Tokyo Dent Coll

Lunchon Seminar (August 25, 12 : 00-12 : 50)

LS-1

Multi-modal applications of light microscopy for morphological and functional analyses of hard-tissue —
From DIC (differential interference contrast) to innovative fluorescence microcopies—

Iimura T^{1~4}, Lee J-W²

¹Ehime Univ, Proteo-Science Center (PROS), ²Ehime Univ, Advanced Research Support Center (ADRES), ³Ehime Univ, Grad Sch Med, ⁴Ehime Univ Hosp, Artificial Joint Integrated Center

LS-2

Author workshop for young researchers supported by Elsevier: How to make a scientific paper including publishing ethics and image processing

Ohshima H^{1,2}

¹Div Anat Cell Biol Hard Tissue, Niigata Univ Grad Sch Med Dent Sci, ²EIC of J Oral Biosci

LS-3-1

New insights into the taste reception (umami and salty)

Shigemura N^{1,2}

¹Sect Oral Neurosci, Grad Sch Dent Sci, Kyushu Univ, ²Res Dev Center for Taste and Odor Sensing, Kyushu Univ

LS-3-2

Importance of umami taste sensitivity maintenance on elderly's health with dentistry

Satoh-Kuriwada S, Shoji N, Sasano T

Div Oral Diagnosis, Tohoku Univ Grad Sch Dent

Satellite Symposium 1 (August 24, 12 : 30-14 : 10)

SS1-1

How much has implant dentistry satisfied patients?

Furusawa T¹, Kuboki Y²

¹Grad Sch Sci Engin, Yamagata Univ/ Furusawa Dental Clinic, ²Fac Earth Environ Sci, Hokkaido Univ

SS1-2

New solution to oral implant for gingival integration

Yagami K¹, Sadaoka S¹, Kuboki Y², Furusawa T³, Ametani A⁴

¹Dept Stomatol for Health Promotion, Grad Sch, Matsumoto Dent Univ, ²Fac Earth Environ Sci, Hokkaido

Univ, ³Grad Sch Sci Engin, Yamagata Univ, ⁴HI-LEX Corp

SS1-3

Application of CNTs to the surface treatment of titanium

Yokoyama A

Dept Oral Funct Prosthodont Hokkaido Univ Grad Sch Dent Med

SS1-4

The efficacy and limitation of hydroxyapatite coated implants

Ochi M, Nakanishi Y, Hirose Y

Health Sci Univ Hokkaido Sch Dent Div Fixed Prosthodont Oral Implantol

SS1-5

Fusion of dentin materials and bone inductive surgery for bone regeneration

Murata M¹, Akazawa T²

¹Oral and Maxillofac Surg, Health Sci Univ Hokkaido, ²Industrial Technology Research, Hokkaido Research Organization

SS1-6

Application of autologous platelet rich plasma (PRP) for hard and soft tissues reconstruction around the dental implants

Okudera H

Tokyo Dental Plastic Society

SS1-7

Elucidation of the mechanism for the titanium-fixation in living bone: discovery of the implant proteins and its clinical application

Kuboki Y¹, Furusawa T², Yagami K³

¹Fac Earth Environ Sci, Hokkaido Univ, ²Grad Sch Sci Engin Yamagata Univ, ³Dept Social Dent Matsumoto Dent Univ

Satellite Symposium 2 (August 24, 12 : 30-14 : 10)

SS2-1

Three-dimensional ultrastructural analysis on hard tissue interface

Hirashima S^{1,2}, Ohta K¹, Kanazawa T¹, Togo A^{1,3}, Okayama S¹, Kusukawa J², Nakamura K¹

¹Dept Anat, Kurume Univ Sch Med, ²Dent Oral Med Center, Kurume Univ Sch Med

³EM Lab, Cent Res Unit of Kurume Univ Sch Med, ⁴CMRIBD, Kurume Univ Sch Med

SS2-2

3-dimentional evaluation of dentinal caries using FIB/SEM tomography

Miura J¹, Shimizu M¹, Enomoto S², Arai S²

¹Div Interdisci Dent Osaka Univ Grad Sch Dent, ²Inst Mater Systems for Sustainability, Nagoya Univ

SS2-3

The osteocyte network formation is influenced by the collagen-bundle formation

Hashimoto M¹, Nagaoka N², Iimura T³, Oshima Y³, Hara T⁴, Kamioka H¹

¹Dept Orthodont Okayama Univ Grad Sch Med Dent Pharm Sci, ²ARCOCS Okayama Univ Sch Dent

³Div Bio Imaging PROS Ehime Univ, ⁴NIMS

SS2-4

3D observation of the titanium implant and bone tissue interface

Nagaoka N¹, Yoshihara K², Maruo Y³

¹ARCOCS, Okayama Univ Grad Sch Med Dent Pharm Sci, ²Center Innov Clinic Med, Okayama Univ

Hosp, ³Dept Occlusal Oral Funct Rehabil, Okayama Univ Hosp

SS2-5

Morphological observation of bone formation around titanium implants using FIB-SEM in type 2 diabetic rats

Kawamoto S¹, Hashiguchi C², Sonomura T³, Nishimura M¹

¹Dept Oral Maxillofac Prosthodont, Grad Sch Med Dent Sci, Kagoshima Univ, ²Dept Periodontol, Grad Sch Med Dent Sci, Kagoshima Univ, ³Anat II, Kanazawa Med Univ

Satellite Symposium 3 (August 24, 12 : 30-14 : 10)

SS3-1

Overview (New concept for receptor-mediated signaling)

Tanimura A

Div Pharmacol, Sch Dent, Health Sci Univ Hokkaido

SS3-2

New strategy for acetylcholinesterase inhibitors in bone regenerative medicine

Sato T, Yoda T

Dept Oral Maxillofac Surg, Fac Med, Saitama Med Univ

SS3-3

$\alpha 7$ nicotinic acetylcholine receptor: a promising therapeutic target for osteoporosis

Saeki M¹, Egusa H²

¹Niigata Univ Grad Sch Med Dent, Sci Div Dent Pharmacol, ²Tohoku Univ Grad Sch Dent, Div Mol Regen

Prosthodont

SS3-4

Neuropsychopharmacology of muscarinic acetylcholine receptors

Takuma K^{1,2}, Hasebe S¹, Nakazawa T^{1,3}, Hashimoto H^{2,3}, Matsuda T⁴, Ago Y³

¹Dept Pharmacol, Osaka Univ Grad Sch Dent, ²Osaka Univ United Grad Sch Child Dev, ³Lab Mol Neuropharmacol, Osaka Univ Grad Sch Pharm Sci, ⁴Lab Med Pharmacol, Osaka Univ Grad Sch Pharm Sci

SS3-5

Involvement of serotonin and serotonin receptors in the migraine pathophysiology

Cui Y

Mol Dynamics Imaging Unit, RIKEN Center for Life Sci Technol

SS3-6

Cholinergic regulation of medium spiny neuron activity in the rat nucleus accumbens

Kobayashi M

Dept Pharmacol, Nihon Univ Sch Dent

Satellite Symposium 4 (August 24, 12 : 30-14 : 10)

SS4-1

Involvement of neuron-glial interaction in the trigeminal ganglion in neuropathic pain

Kaji K^{1,2}, Shinoda M¹, Shimizu N², Iwata K¹

¹Dept Physiol, Nihon Univ Sch Dent, ²Dept Orthodont, Nihon Univ Sch Dent

SS4-2

Role of proteinases in dental enamel development

Shin M^{1,2}, Okamoto F¹, Kajiya H¹, Ogata K¹, Okabe K¹

¹Div Cell Physiol, Fukuoka Dent Coll, ²Div Biosci, Ohio State Univ

SS4-3

Live cell fluorescence imaging for the prevention of oral diseases

Nishide S, Fujioka Y, Horiuchi K, Horiguchi M, Satoh A, Nepal P, Wang J, Nanbo A, Ohba Y

Dept Cell Physiol, Hokkaido Univ Grad Sch Med

Satellite Symposium 5 (August 24, 12 : 30-14 : 10)

SS5-1

Distribution of blood vessels and nerves at palatine by the three-dimensional positional observation

Miwa Y

Dept Anat, Nippon Dent Univ

SS5-2

Microvascular architecture of the palatine mucosa

Toda I

Dept Anat, Osaka Dent Univ

SS5-3

Vascular structure and function of palatal microcirculation

Matsuo M¹, Takahashi SS², Hamada N³

¹Div Dent Anat, Kanagawa Dent Univ Grad Sch Dent, ²Div Circulation Control Dent, Kanagawa Dent

Univ Grad Sch Dent, ³Div Microbiol, Dept Oral Sci, Kanagawa Dent Univ Grad Sch Dent

SS5-4

Lymphatic architecture of *Suncus murinus* (House Musk shrew) palatum

Ando Y¹, Hatakeyama S², Fujimura A¹

¹Div Func Mor, Dept Anat, Iwate Med Univ Sch Dent, ²Div Orthodont, Dept Dev Oral Health Sci, Iwate

Med Univ Sch Dent

Satellite Symposium 6 (August 24, 12 : 30-14 : 10)

SS6-1

Evaluation of temporal alteration of orthodontic pain

Adachi K¹, Suda N², Sakagami H¹

¹Meikai Univ Sch Dent, Div Pharmacol, ²Meikai Univ Sch Dent, Div Orthod

SS6-2

Spatiotemporal properties of cortical excitation induced by periodontal stimulation in the model with experimental tooth movement

Kobayashi M

Dept Pharm, Nihon Univ Sch Dent

SS6-3

Oral pain and TRPV1 channel

Kido M^{1,2}, Yoshizumi J³, Takao T², Yoshimoto R⁴, Ohyama Y³, Ajima R¹, Takaoka Y⁵, Toyofuku A⁶

¹Sect Anat Physiol, Saga Med Sch, ²Mol Cell Biol Oral Anat, Grad Sch Dent, Kyushu Univ, ³Sect Oral

Maxillofacial Surg, Kyushu Univ, ⁴Sect Periodont, Grad Sch Dent, Kyushu Univ, ⁵Dev Med Infomatics Bioinformatics, Kobe Univ, ⁶Psychosomatic Dent, Grad Sch Tokyo Med Dent Univ

Satellite Symposium 7 (August 24, 14 : 20-16 : 00)

SS7-1

Type IX secretion system and gliding motility in Bacteroidetes phylum bacteria

Nakayama K

Div Microbiol Oral Infect, Dept Mol Microbiol Immunol, Nagasaki Univ Grad Sch Biomed Sci

SS7-2

The role of *Porphyromonas gingivalis* hydrogen sulfide in mouse inflammation

Shioya K

Dept Oral Microbiol, Matsumoto Dent Univ

SS7-3

Epidemiology and transmission of *Porphyromonas gulae* among dogs and owners

Sasaki H, Watanabe K, Hamada N

Div Microbiol, Dept Oral Sci, Kanagawa Dent Univ

SS7-4

Structural and mechanistic insights into a distinct type of pilus

Shoji M¹, Xu Q², Shibata S¹, Naito M¹, Sato K¹, Wilson IA³, Nakayama K¹

¹Nagasaki Univ Grad Sch Biomed Sci, Dept Microbiol Oral Infect, ²Stanford Synchrotron Radiation Lightsource, SLAC National Accelerator Laboratory, USA, ³The Scripps Research Institute, USA

SS7-5

Osteoimmunology in periodontal disease

Tsukasaki M¹, Komatsu N¹, Nakashima T², Takayanagi H¹

¹Dept Immunol, Grad Sch Med Fac Med, The Univ Tokyo, ²Dept Cell Signal, Grad Sch Med Dent Sci, Tokyo Med Dent Univ

Satellite Symposium 8 (August 24, 14 : 20–16 : 00)

SS8-1

Molecular basis of redox regulation for reactive persulfides

Akaike T

Dept Environ Health Sci Mol Toxicol, Tohoku Univ Grad Sch Med

SS8-2

Redox cross talk regulation between Nrf2 and eIF2 α -ATF4 pathway

Itoh K

Dept Stress Response Sci, Hirosaki Univ Grad Sch Med

SS8-3

Redox biology and dental disease –Periodontitis as vascular disease by alteration of redox balance–

Lee M

Yokosuka • Shonan • Disaster Health Emerg Res Center, Kanagawa Dent Univ

SS8-4

8-Nitro-cGMP is a novel bone expansion factor

Miyamoto Y

Dept Biochem, Showa Univ Sch Dent

Satellite Symposium 9 (August 24, 14 : 20–16 : 00)

SS9-1

The novel mechanism underlying Alzheimer's disease-like neuropathology and cognitive deficits following *Porphyromonas gingivalis* periodontal infection

Wu Z^{1,2}, Nakanishi H¹

¹Sect Aging Sci Pharmacol, ²OBT Res Center, Kyushu Univ Grad Sch Dent

SS9-2

The oscillation in the insular cortex implicated in taste-dependent feeding behavior

Toyoda H¹, Sato H¹, Saito M², Kang Y¹

¹Dept Neurosci Oral Physiol, Osaka Univ Grad Sch Dent, ²Dept Oral Physiol, Kagoshima Univ Grad Sch Med Dent Sci

SS9-3

Modulation of taste sensitivity by orexigenic and anorexigenic factors: Effect of obesity

Yoshida R^{1,2}

¹Sect Oral Neurosci, Grad Sch Dent Sci, Kyushu Univ, ²OBT Res Center, Fac Dent Sci, Kyushu Univ

SS9-4

Peripheral neural mechanisms underlying ectopic orofacial pain

Shinoda M, Kaji K, Honda K, Sugiyama T, Iwata K
Dept Physiol, Nihon Univ Sch Dent

Satellite Symposium 10 (August 24, 14 : 20-16 : 00)

SS10-1

Analysis of in vivo bone marrow mesenchymal stem cells by fate mapping approach
Mizoguchi T

Inst for Oral Sci, Matsumoto Dent Univ

SS10-2

Regulation of developmental switching of salivary gland between “morphogenesis” and “differentiation”
Matsumoto S¹, Kurimoto T², Fujii S³, Kikuchi A¹

¹Dept of Mol Biol Biochem, Osaka Univ Grad Sch Med, ²1st Dept OMFS, Osaka Univ Grad Sch Dent,

³Sect Oral Pathol, Kyushu Univ Grad Sch Dent

SS10-3

Activated PDGFR α signaling in pericytes switches the cell fate
Iwayama T^{1,2}, Wakisaka S¹, Murakami S²

¹Dept Oral Anat Dev Biol, Osaka Univ Grad Sch Dent, ²Dept Periodontol, Osaka Univ Grad Sch Dent

SS10-4

Unveiling novel regulatory mechanisms of osteoclasts by combinatorial approaches of functional live-imaging and molecular omics

Lee J-W¹, Iimura T^{1,2}

¹Ehime Univ, PROS, Div Bio-Imaging, ²Ehime Univ, Adv Res Support Center (ADRES)

SS10-5

The altered phenotype of tumor endothelial cells in tumor microenvironment
Hida K, Maishi N

Vascular Biol, Frontier Res Unit, Inst for Genetic Med, Hokkaido Univ

Satellite Symposium 11 (August 24, 14 : 20-16 : 00)

SS11-1

Experience of personal identification of unidentified bodies using dental findings in the Great East Japan Earthquake 2011

Ohbayashi Y, Miyake M

Dept Oral Maxillofac Surg, Fac Med, Kagawa Univ

SS11-2

Repeated problems of personal identification using dental findings in past disasters

Sakuma A, Saitoh H, Iwase H

Dept Legal Med, Grad Sch Med, Chiba Univ

SS11-3

Why we need to become a specialist in forensic dentistry
Katsumura S¹, Sato K^{1,2}

¹Dept Forensic Med Dent, Tsurumi Univ Sch Dent Med, ²Inst for Res Educ Preemptive Med, Tsurumi Univ

SS11-4

Disaster victim identification by dental records : Response of dental society
Sasaki K¹, Aoki T², Suzuki T³, Satoh M⁴

¹Tohoku Univ Grad Sch Dent, Div Adv Prosthet Dent, ²Tohoku Univ Grad Sch Information Sci, ³Tohoku Univ Grad Sch Dent, Div Dent Digital Forensics, ⁴Miyagi Pref Dent Assoc

Satellite Symposium 12 (August 24, 14 : 20-16 : 00)

SS12-1

SCADA is Unique! 22 years history of the JDA / DENTSPLY Student Clinician Research Program

Okumura T¹, Ishida Y²

¹Dept Human-Comp Interface Design, Shizuoka Inst Sci Technol, ²Div Dent Edu Res Dev, Niigata Univ Grad Sch Med Dent Sci

SS12-2

Show the Spirit of Scientist !!! ~ What we found from SCRP~

Kobayashi R

Nihon Univ Sch Dent at Matsudo

SS12-3

Let's participate in SCRP! ~ SCADA and oral biology~

Kusuyama J

Dept Oral Biochem, Kagoshima Univ Grad Sch Med Dent Sci

Satellite Symposium 13 (August 24, 16 : 10-17 : 50)

SS13-1

Salivary glands: a unique and valuable system for oral biology and all biomedical science

Baum BJ

Scientist Emeritus, Natl Inst Dent Craniofac Res

SS13-2

RNA interactions between tissues in fetal mouse salivary glands

Hayashi T^{1,2,3}, Kashimata M², Hoffman MP³

¹Dept Anat, Kitasato Univ Sch, Allied Health Sci, ²Dept Dent Pharmacol, Asahi Univ Sch Dent, ³NIH, NIDCR

SS13-3

The Rho GTPase Cdc42 is required for maintenance of submandibular gland lumen

Shitara A, Weigert R

NCI, NIH

SS13-4

Physiological analysis of mouse salivary gland fluid secretion

Kondo Y¹, Nakamoto T², Mukaibo T¹, Munemasa T¹, Kusuda Y¹, Miyagi Y¹, Tsuka S¹, Masaki C¹, Hosokawa R¹

¹Div Oral Reconstr Rehabil, Kyushu Dent Univ, ²Dept Prosthodont, Sch Dent, Matsumoto Dent Univ

SS13-5

Tissue-autonomous development of the circadian rhythm in salivary glands

Uchida H

Dept Pathol, Sch Dent Med, Tsurumi Univ

Satellite Symposium 14 (August 24, 16 : 10-17 : 50)

SS14-1

The paradigm shift in taste research ~Identification and application of taste stem cells~

Iwatsuki K

Tokyo Univ Agric, Dept Nutr Sci Food Safety

SS14-2

Molecular mechanisms for the sweet-inducing effect of miraculin

Sanematsu K¹, Yoshida R^{1,2}, Shigemura N¹, Ninomiya Y³

¹Sect Oral Neurosci, Grad Sch Dent, Kyushu Univ, ²OBT Res Centr, Kyushu Univ, ³R&D TAOS, Kyushu Univ
SS14-3

Reduction of neurogenesis and olfactory function by impaired mastication and its recovery

Kashiwayanagi M, Utsugi T

Dept Sensory Physiol, Asahikawa Med Univ

SS14-4

The intracortical integration mechanism for information of odor and taste

Mizoguchi N¹, Kobayashi M², Muramoto K¹

¹Div Physiol, Dept Human Dev Foster, Meikai Univ Sch Dent, ²Dept Pharmacol, Nihon Univ Sch Dent
SS14-5

Evaluation of the masking of dimethyl sulfide odors by food derived volatiles through the use of trained odor sensor mice

Osada K

Div Physiol, Dept Oral Biol, Sch Dent, Health Sci Univ Hokkaido

Satellite Symposium 15 (August 24, 16 : 10-17 : 50)

SS15-1

From understanding mechanisms of swallowing to treatment strategy of dysphagia

Inoue M, Tsujimura T, Magara J, Tsuji K

Div Dysphagia Rehabil, Niigata Univ Grad Sch Med Dent Sci

SS15-2

Effects of histamine and serotonin on mesencephalic trigeminal neurons and jaw-closing motoneurons

Inoue T, Nakamura S, Nakayama K, Mochiduki A, Kiyomoto M

Dept Oral Physiol, Showa Univ Sch Dent

SS15-3

By what neuronal pathways do emotions affect mastication?

Yoshida A, Sato F, Kato T

Dept Oral Anat Neurobiol, Osaka Univ Grad Sch Dent

SS15-4

The pain pathway in the trigeminal nerve system, and the descending pain control by the cerebral motor cortex

Goto T, Kuramoto E, Iwai H

Dept Oral Anat Cell Biol, Grad Sch Med Dent Sci, Kagoshima Univ

SS15-5

Glial cell involvement in extraterritorial pain associated with trigeminal nerve injury

Iwata K, Shinoda M, Katagiri A

Dept Physiol, Sch Dent, Nihon Univ

Satellite Symposium 16 (August 24, 16 : 10-17 : 50)

SS16-1

The importance and difficulty of the periodontal treatment

Mitani A, Kikuchi T

Dept Periodontol, Sch Dent, Aichi-Gakuin Univ

SS16-2

Challenge for the novel therapeutics of periodontal regeneration

Ogata Y

Dept Periodontol, Nihon Univ Sch Dent at Matsudo

SS16-3

Periodontal tissue regeneration by transplantation of adipose tissue-derived multi-lineage progenitor cell

Takedachi M¹, Sawada K¹, Lee CM², Iwayama T¹, Yamamoto S¹, Morimoto C¹, Hirai A¹, Sano Y¹, Matsuyama A³, Okura H³, Kitamura M¹, Murakami S¹

¹Osaka Univ Grad Sch Dent, Dept Periodontol, ²Osaka Univ Grad Sch Med, Dept Med Innov, ³Natl Inst Biomed Innov, Health Nutr, Res on Dis Bioresources, Platform of Therapeut for Rare Dis

SS16-4

Challenge for development of regenerative medicinal products using autologous cells

Hata K

Japan Tissue Engineering Co., Ltd.

SS16-5

Importance of the platform system for the regenerative medicine popularization in dentistry

Tobita M

Dept Plast Reconstr Surg, Juntendo Univ Sch Med

■ Oral Presentation

(August 25, 9 : 00-9 : 30)

O1-C1

Osteoprotegerin regulates the differentiation of Peyer's patch M cell
○Kimura S¹, Mutoh M², Iwanaga T¹ ('Div Histo. & Cyto, Hokkaido Univ Grad Sch Med, ²Dept Orthodont, Hokkaido Univ Grad Sch Dent Med)

O1-C2

CXCL4 is a novel nickel binding protein and augments nickel allergy
○Kuroishi T¹, Tanaka Y^{1,2}, Endo Y¹, Sugawara S¹ ('Div Oral Immunol, Tohoku Univ Grad Sch Dent, ²Div Ped Dent, Tohoku Univ Grad Sch Dent)

O1-C3

Identification and characterization of dendritic cells in murine salivary glands
○Lu L^{1,2}, Tanaka Y^{2,3}, Sugawara S² ('Div Oral Diag, Tohoku Univ Grad Sch Dent, ²Div Oral Immunol, Tohoku Univ Grad Sch Dent, ³Div Ped Dent, Tohoku Univ Grad Sch Dent)

(August 25, 9 : 30-10 : 00)

O1-C4

Analyses of locally recruiting T cells in the oral mucosa inflammation
○Hirunwidchayarat W, Ohno T, Kang SW, Nagai S, Azuma M (Dept Mol Immunol, Tokyo Med Dent Univ Grad Sch Dent Sci)

O1-C5

Role of PI3K in Tr1 cells differentiation
○Niken A, Azuma M, Nagai S (Div Mol Immunol, Tokyo Med Dent Univ Grad Sch Med Dent Sci)

O1-C6

IL-12/IL-18 mediated activation of human V γ 9V δ 2 T cells
○Domae E¹, Goda S², Yoshikawa Y¹, Kamada A¹, Ikeo T¹ ('Dept Biochem, Osaka Dent Univ, ²Dept Oral Sci, Kanagawa Dent Univ Grad Sch Dent)

(August 25, 10 : 00-10 : 30)

O1-C7

The role of cathepsin S in Th17 cell differentiation by *Porphyromonas gingivalis* lipopolysaccharide
○Dekita M^{1,2}, Wu Z², Nakanishi H², Takahashi I¹ ('Sect Orthod Dentofac Orthop, Kyushu Univ Grad Sch, ²Sect Aging Sci Pharmacol, Fac Dent Sci, Kyushu Univ)

O1-C8

Effects of bisphosphonate on M1-polarized THP-1 cells induced by lipopolysaccharides
○Kaneko J^{1,2}, Hikiji H³, Okinaga T¹, Ariyoshi W¹, Nishihara T¹ ('Div Infect Mol Biol, Kyushu Dent Univ, ²Div Oral Maxillofac Surg, Kyushu Dent Univ, ³Sch Oral Health Sci, Kyushu Dent Univ)

O1-C9

Involvement of inflammasome in IL-1 α -inducing activity of *Streptococcus sanguinis*
○Saeki A¹, Hasebe A¹, Kamezaki R¹, Suzuki T², Shibata K¹ ('Dept Oral Mol Microbiol, Hokkaido Univ Grad Sch Dent Med, ²Div Bacter Pathogenesis, Tokyo Med Dent Univ Grad Sch Med Dent Sci)

(August 25, 10 : 30-11 : 00)

O1-C10

Comparative analysis of periodontal-pathogen *Treponema denticola* strains
○Nagano K, Hasegawa Y, Yoshida Y, Yoshimura F (Div Microbiol, Aichi Gakuin Univ Sch Dent)

O1-C11

Exploration of genes putatively involved in biofilm formation of *Prevotella intermedia* by a genome comparison between strains 17 and 17-2
○Yamanaka T, Nambu T, Maruyama Y, Wang P, Mashimo C, Yamane K (Dept Bacteriol, Osaka Dent Univ)

O1-C12

Metatranscriptomic analyses of microbiota in peri-implantitis and periodontitis lesions
○Watanabe T¹, Shiba T², Kachi H³, Takeuchi Y², Maruyama F⁴, Izumi Y², Nakagawa I¹ ('Lab Food-borne Pathog Microbiol, Res Center for Food Safety, Grad Sch Agri & Life Sci, The Univ of Tokyo, ²Sect Periodontol, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ³Sect Maxillofac Surg, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ⁴Dept Microbiol, Kyoto Univ Grad Sch Med)

(August 25, 11 : 00-11 : 30)

O1-C13

Salivary microbiome reflects the severity of periodontitis
○Kageyama S, Takeshita T, Asakawa M, Shibata Y, Yamashita Y (Sect Prev Dent Public Health, Kyushu Univ Grad Sch Dent)

O1-C14

Effects of persimmon tannin on regrowth of polymicrobial biofilms
○Tomiyama K¹, Ishizawa M¹, Watanabe K², Kawata A³, Saito M⁴, Takahashi O³, Hamada N², Exterkate R⁵, Mukai Y¹ ('Dept Cariol Restorative Dent, Kanagawa Dent Univ, ²Dept Microbiol, Kanagawa Dent Univ, ³Dept Neuroanat, Histol, Embryol, Kanagawa Dent Univ, ⁴Div Operative Dent, Tohoku Univ, Grad Sch Dent, ⁵Dept Preventive Dent, Academic Centre for Dent Amsterdam (ACTA), The Netherlands)

O1-C15

Novel strategy for biofilm inhibition using small molecules targeting molecular chaperone DnaK
○Arita-Morioka K¹, Nagao J², Narita Y², Hashimoto M², Tasaki S², Ikezaki S², Cho T², Tanaka Y² ('Adv Sci Res Cent, Fukuoka Dent Coll, ²Div Infect Biol, Fukuoka Dent Coll)

(August 25, 15 : 00-15 : 40)

O1-C16

NF- κ B regulates the endochondral bone formation
○Nakatomi C¹, Kokabu S¹, Matsubara T¹, Nakatomi M², Urata M¹, Jimi E¹ ('Div Mol Signal Biochem, Kyushu Dent Univ, ²Div Anat, Kyushu Dent Univ)

O1-C17

Dgcr2 contributes to the chondrocytes differentiation by modulating TGF- β signaling
○Kajiwara K (Dept Mol Life Sci, Tokai Univ, Sch Med)

O1-C18

The roles of promyelocytic leukemia zinc finger (PLZF) protein in chondrocyte differentiation and proliferation
 ○Naito M, Kasahara M, Ohashi A, Takahashi T (Dept Anat, Nihon Univ Sch Dent)

O1-C19

Expression of Syndecan family in the developing condylar cartilage of the fetal mouse mandible
 ○Fujikawa K, Takahashi M, Shibata S (Div Maxillofac Anat, Tokyo Med Dent Univ Grad Sch Med Dent Sci)

(August 25, 15 : 40-16 : 20)

O1-C20

Analysis of transgenic mice overexpressing Fam20C in osteoblasts
 ○Hirose K¹, Sato S¹, Sharyo M¹, Noda Y¹, Komori T², Toyosawa S¹ ('Dept Oral Pathol, Osaka Univ Grad Sch Dent, ²Dept Cell Biol, Nagasaki Univ Grad Sch Biomed Sci)

O1-C21

Micro/nano structural properties in peri-implant jaw bone of human cadaver
 ○Matsunaga S¹, Koresawa K^{1,2}, Odaka K^{1,2}, Hirouchi H¹, Morita S^{1,2}, Yamaguchi A², Abe S¹ ('Dept Anat, Tokyo Dent Coll, ²HRC, Tokyo Dent Coll)

(withdrawn)

O1-C22

Basic and clinical reproduction by bone metabolism marker and self-blood-derived PRP derived substance
 ○Okudera H (Tokyo Plastic Dental Society)

(August 25, 16 : 20-16 : 40)

O1-C24

Hyperpolarizing responses by Zn²⁺ in osteoblastic MC3T3-E1 cells
 ○Guang M, Yoshida T, Nakamura T, Wakamori M (Div Mol Pharmacol Cell Biophys, Dept Oral Biol, Tohoku Univ Grad Sch Dent)

O1-C25

Analysis of TRP channels in human oral squamous cell carcinoma
 ○Aijima R^{1,2}, Yoshimoto R³, Cao AL^{1,4}, Mori K², Zhang JQ⁴, Ohsaki Y⁴, Danjo A², Yamashita Y², Kiyoshima T³, Kido M¹ ('Div Histol & Neuroana, Fac Med, Saga Univ, ²Dept Oral & Maxillofac Surg, Fac Med, Saga Univ, ³Sect Oral Pathol, Grad Sch Dent, Kyushu Univ, ⁴Sect Mol Cell Biol & Oral Anat, Grad Sch Dent, Kyushu Univ)

(August 25, 9 : 00-9 : 40)

O1-D1

Functions of uncarboxylated osteocalcin in cancer progression
 ○Hayashi Y^{1,4}, Kawakubo-Yasukochi T², Kuratani A^{1,3}, Nakamura S⁴, Hirata M¹ ('Sect Mol Cell Biochem, Kyushu Univ Grad Sch Dent, ²Dept Immunol Mol Pharmacol, Fukuoka Univ Pharm Sci, ³OBT Res Cent, Kyushu Univ Grad Sch Dent, ⁴Sect Oral Maxillofac Oncol, Kyushu Univ Grad Sch Dent)

O1-D2

Arl4c expression and its involvement in tumorigenesis of colorectal cancer, lung adenocarcinoma and squamous cell carcinoma
 ○Fujii S¹, Matsumoto S² ('Sect Oral Pathol, Kyushu Univ, Grad Sch Dent, ²Dept Mol Biol Biochem, Osaka Univ Grad Sch Med)

O1-D3

β -TRCP-mediated FNIP2 degradation to control Birt-Hogg-Dube (BHD) complex and modulate mTORC activity involved in the onset of BHD syndrome
 ○Nagashima K^{1,2,3}, Fukushima H¹, Hoshikawa S¹, Watahiki A¹, Fukumoto S¹, Okabe K² ('Cent Adv Stem Cell & Regen Res, Tohoku Univ Grad Sch Dent, ²Div Cell Physiol, Fukuoka Dent Coll, ³Div Oral Surg, Fukuoka Dent Coll)

Minimal essential region required Kruppel-like factor 5 expression and the regulation by Sp3

○Mihara N (Dept Biochem, Nippon Dent Univ Sch Life Dent at Tokyo)

(August 25, 9 : 40-10 : 10)

O1-D5

Ubiquitin proteasome pathway regulates Borealin stability and its significance
 ○Tsunematsu T, Kudo Y, Yamada A, Arakaki R, Ishimaru N (Dept Oral Mol Pathol, Tokushima Univ Grad Sch Inst Biomed Sci)

O1-D6

Is chemokine CXCL14, a multi-step tumor suppressor, a differentiation regulator of squamous epithelial cells ?
 ○Ikoma T¹, Yang X^{2,3}, Ozawa S¹, Maehata Y², Hata R^{2,3} ('Dept Oral Maxillofac Surg, Grad Sch Dent, Kanagawa Dent Univ, ²Dept Oral Sci, Grad Sch Dent, Kanagawa Dent Univ, ³Oral Health Sci Res Center, Grad Sch Dent, Kanagawa Dent Univ)

Topographical mapping of premalignant epithelium on excised tongue mucosal lesions

○Soeno Y (Dept Pathol, Nippon Dent Univ Sch Life Dent at Tokyo)

(August 25, 10 : 10-10 : 50)

O1-D8

Regulatory mechanisms for malignant properties by blood group antigen Lewis y in oral squamous cell carcinomas
 ○Hamamura K, Togari A (Dept Pharmacol, Aichi-Gakuin Univ Sch Dent)

O1-D9

Intercellular crosstalk defined by exosomes from oral squamous carcinoma cells determines its pathological process
 ○Morioka M^{1,2}, Kawakubo-Yasukochi T², Nakamura S¹ ('Sect Oral Maxillofac Oncol, Kyushu Univ Grad Sch Dent, ²Dept Immunol, Fukuoka Univ Fac Pharm Sci)

The relationship between Galectin-1 expression at the tumor invasion front and tumor metastasis of oral gingival squamous cell carcinoma

○Noda Y, Satou S, Hirose K, Sharyo M, Toyosawa S (Dept Oral Pathol, Osaka Univ Grad Sch Dent)

O1-D11

Induction of NETosis-like cell death of gingival epithelial cells by butyrate stimulation promotes release of inflammation-related molecules

○Tsuda H, Murofushi T, Yamaguchi Y, Suzuki N (Dept Biochem, Nihon Univ Sch Dent)

(August 25, 10 : 50-11 : 30)

O1-D12

MMP-20 regulates enamel development via cadherin/catenin signaling

○Shin M¹, Okamoto F¹, Kajiya H¹, Ogata K¹, Okabe K¹ (¹Div Cell Physiol, Fukuoka Dent Coll, ²Div Biosci, Ohio State Univ)

O1-D13

The semaphorin 4D-RhoA-Akt signal regulates amelogenin secretion in coordination with cell polarity during ameloblast differentiation

○Otsu K¹, Ida-Yonemochi H², Fujiwara N¹, Harada H¹ (¹Div Dev Bio Reg Med, Iwate Med Univ Sch Dent, ²Div Anat Cell Biol Hard Tissue, Niigata Univ Grad Sch Med Dent Sci)

O1-D14

Runx1 and Cbfb in dental enamel epithelium is important for enamel formation in mouse

○Sarper S¹, Miura J², Yamaguchi S³, Imasato S³, Morita C¹, Yamashiro T¹ (¹Dept Orthodont, Osaka Univ Grad Sch Dent, ²Div Interdisci Dent Osaka Univ Grad Sch Dent, ³Dept Biomater Sci, Osaka Univ Grad Sch Dent)

Molecular biological analyses of tooth enamel and scale ganoine in certain primitive fishes

○Ishiyama M¹, Mikami M², Nakatomi M³, Oka S⁴, Sato A⁵, Tabata M⁶, Sasagawa I⁷ (¹Dept Histol, Nippon Dent Univ Sch Life Dent, Niigata, ²Dept Microbiol, Nippon Dent Univ Sch Life Dent, Niigata, ³Div Anat, Kyushu Dent Univ, ⁴Dept Biol, Nippon Dent Univ Sch Life Dent, Niigata, ⁵Dept Anat Histocytol, Tsurumi Univ Sch Dent Med, ⁶Dept Biostruct Sci, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ⁷Adv Res Cent, Nippon Dent Univ Sch Life Dent)

O1-D15

(August 25, 15 : 00-15 : 40)

O1-D16

The role of non-muscle myosin II during mouse incisor morphogenesis

○Yamanaka A¹, Hu J², Goto T¹, Klein O² (¹Dept Anat Oral Sci, Kagoshima Univ Grad Sch Med Dent Sci, ²Program in Craniofac Biol, Univ California, SF)

O1-D17

Hertwig's epithelial sheath cells join the extracellular matrix expression in periodontal ligament

○Oka K¹, Itaya S¹, Ogata K¹, Toda M¹, Fujiwara N², Ohtsu K², Tatsuoka M¹, Ozaki M¹, Harada H² (¹Div Pediatr Dent, Fukuoka Dent Coll, ²Div Dev Bio Reg Med Iwate Med Univ Sch Dent)

O1-D18

Expression of Meis2 in mouse dental pulp cells/tissue and osteoblasts/bone

○Kawashima N¹, Saito M², Okiji T¹ (¹Dept Pulp Biol Endod, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ²Div Oper Dent, Tohoku Univ Grad Sch Dent)

O1-D19

Transplantation of dental pulp cells for acute spinal cord injury in a rat model

○Otani K^{1,2}, Sakuma S³, Honda M² (¹Adv Center for Tissue Engineering Ltd., ²Div Oral Anat Aichi-Gakuin Univ Sch Dent, ³Div Crown Bridge Aichi-Gakuin Univ Sch Dent)

(August 25, 15 : 40-16 : 10)

O1-D20

Effect of aspirin on dentinogenesis of stem cells from apical papilla

○Tanaka Y, Yamaza T, Tomoda E, Sonoda S, Uehara N, Kyumoto Y, Kukita T (Sect Mol Cell Biol Oral Anat, Kyushu Univ Grad Sch Dent)

O1-D21

Nitric oxide accelerates dentinogenic capacity of rat dental pulp stem cells

○Sonoda S^{1,2}, Yamaza T¹, Tomoda E¹, Tanaka Y¹, Kukita T¹ (¹Sect Mol Cell Biol Oral Anat, Kyushu Univ Grad Sch Dent, ²Sect Periodontol, Kyushu Univ Grad Sch Dent)

O1-D22

YAP/TAZ signaling in 3D culture clumps of mesenchymal stem cells/extracellular matrix complex

○Komatsu N, Kajiya M, Fujita T, Kurihara H (Dept Periodontal Med, Hiroshima Univ Inst Biomed Health Sci)

(August 25, 16 : 10-16 : 50)

O1-D23

Analysis of deciduous teeth-derived stem cells from patients with cleft lip and palate

○Yamaza T¹, Yamaza H², Sonoda S¹, Tomoda E^{1,2}, Tanaka Y¹, Uehara N¹, Kyumoto Y¹, Nonaka K², Kukita T¹ (¹Sect Mol Cell Biol Oral Anat, Kyushu Univ Grad Sch Dent, ²Sect Pediatr Dent, Kyushu Univ Grad Sch Dent)

O1-D24

Runx signaling is specifically involved in the fusion between the primary palate and the secondary palate by regulating Tgfb3 signaling

○Sarper S, Kurosaka H, Mihara K, Aoyama G, Yamashiro T (Dept Orthodont, Osaka Univ Grad Sch Dent)

O1-D25

Retinoic acid affects craniofacial patterning by regulating sonic hedgehog signaling

○Wang Qi, Yamashiro T, Kurosaka H (Dept Orthodont, Osaka Univ Grad Sch Dent)

O1-D26

Hand2 transforms upper jaw to lower jaw by regulating the expression of homeobox transcription factors

○Funato N (Res Center for Med and Dent Sci, Tokyo Med Dent Univ)

(August 26, 9 : 00-9 : 30)

O2-C1

The role of Runx1 in the salivary gland morphogenesis

○Ono H¹, Sarper S², Yamashiro T², Sakai T¹ (¹Dept Oral-Facial Disorders, Osaka Univ Grad Sch Dent, ²Dept Orthodont, Osaka Univ Grad Sch Dent)

O2-C2

Peroxidase activity of several types granules of pre- and postnatal rat sublingual glands by analyze electron microscopy

○Moriguchi K, Honda M (Div Oral Anat, Aichi-Gakuin Univ Sch Dent)

O2-C3

Characterization of dynamic features of basic proline rich lacrimal protein (BPLP) in human whole saliva
○Sega T¹, Imai A², Kato T³, Saitoh E¹ (¹Grad Sch Technol, Niigata Inst of Technol, ²Dept Dent Hygiene, The Nippon Dent Univ Coll at Niigata, ³Dept Chem, Tokyo Dent Coll)

(August 26, 9 : 30-10 : 00)

O2-C4

Alpha 1-adrenoceptor agonist- and hypotonicity-induced trafficking of AQP5 in rat parotid acinar cells
○Bragiel A, Pieczonka T, Ishikawa Y (Dept Med Pharmacol, Tokushima Univ Grad Sch Inst Biomed Sci)

O2-C5

Involvement of hemodynamics on acetylcholine-induced tissue-wide synchronization of Ca²⁺ oscillations in rat submandibular gland
○Nezu A¹, Morita T¹, Ishii H², Tanimura A¹ (¹Div Pharmacol, Health Sci Univ Hokkaido Sch Dent, ²Div Physiol, Health Sci Univ Hokkaido, Sch Dent)

O2-C6

The effectiveness of Pilocarpine for dry mouth patients –long-term medication for human and mouse –
○Ono H, Ikai K, Sakai T (Dept Oral-Facial Disorders, Osaka Univ Grad Sch Dent)

(August 26, 10 : 00-10 : 30)

O2-C7

Effects of melatonin on cartilage
○Hattori T, Nishida T, Kubota S (Dept Biochem Mol Dent, Okayama Univ Grad Sch Med Dent Pharm Sci)

O2-C8

Differentiated embryo chondrocyte 1 (DEC1) is a novel negative regulator of hepatic fibroblast growth factor 21 (FGF21) in aging mice
○Bhawal U¹, Suzuki M², Fujita Y², Uchiyama T³, Arikawa K⁴, Shibutani K², Hiratsuka K¹ (¹Dept Biochem Mol Biol, Nihon Univ Sch Dent at Matsudo, ²Dept Anesthesiol, Nihon Univ Sch Dent at Matsudo, ³Dept Prev Public Oral Health, Nihon Univ Sch Dent at Matsudo, ⁴Dept Social Dent (Medical Informatics), Nihon Univ Sch Dent at Matsudo)

O2-C9

The role of GLP-1 in osteocalcin-mediated regulation of whole body metabolism
○Mizokami A^{1,2}, Kawakubo-Yasukochi T³, Takeuchi H⁴, Hirata M² (¹OBT Res Ctr, Kyushu Univ, ²Sect Mol Cell Biochem, Kyushu Univ, ³Dept Immunol Mol Pharmacol, Fac Pharm Sci, Fukuoka Univ, ⁴Div Appl Pharmacol, Kyushu Dent Univ)

(August 26, 10 : 30-11 : 00)

O2-C10

The elongation of vascular endothelial cells is induced by the inhibition of PI3K-Akt and mTORC1 signaling
○Tsujii-Tamura K, Tamura M (Dept Oral Biochem Mol Biol, Hokkaido Univ Grad Sch Dent Med)

O2-C11

A putative mechanism of vasculogenesis estimated from morphological analysis of the chick embryo
○Hara Y¹, Inoue K², Sato T¹ (¹Dept Anat Histocytol Tsurumi Univ Sch Dent Med, ²Inst of Electron Microscopy, Tsurumi Univ Sch Dent Med)

O2-C12

Anti-angiogenic activity of the extracellular matrix protein fibulin-7 and its C-terminal fragment *in vivo*
○Ikeuchi T¹, Forcinito P¹, de Vega S², Amaral J³, Rodriguez I³, Hirasawa E², Yamada Y¹ (¹Mol Biol Sect, Lab Cell and Dev Biol, NIDCR, NIH, ²Res Inst for Disease of Old Age, Juntendo Univ Grad Sch Med, ³Lab Retinal Cell and Mol Biol NEI, NIH, Bethesda, MD, USA)

(August 26, 11 : 00-11 : 20)

O2-C13

Protective effects of hydrogen-rich water on free radical initiators-induced oxidative stress injuries in three-dimensional gingival tissue equivalents
○Xiao L¹, Miwa N² (¹Dept Pharmacol, Nippon Dent Univ Sch Life Dent at Tokyo, ²Prefec Univ of Hiroshima)

O2-C14

Bilirubin induces cell death of human deciduous teeth-derived stem cells
○Tomoda E^{1,2}, Yamaza T¹, Yamaza H², Tanaka Y¹, Sonoda S¹, Nonaka K², Kukita T¹ (¹Sect Mol Cell Biol Oral Anat, Kyushu Univ Grad Sch Dent, ²Sect Pediatr Dent, Kyushu Univ Grad Sch Dent)

(August 26, 13 : 10-13 : 40)

O2-C15

The cricothyroid joint in elderly Japanese individuals
○Abe S, Matsunaga S, Yamamoto M, Kitamura K (Dept Anat, Tokyo Dent Coll)

O2-C16

Gloss anatomical study on the human lingual vein
○Seki S¹, Sunohara M¹, Miwa Y¹, Baba O², Kitamura S³, Sato I¹ (¹Dept Anat, Nippon Dent Univ Sch Life Dent at Tokyo, ²Dept Maxillofac Anat, Tokushima Univ Grad Sch Inst Biomed Sci, ³Fac Health Sci, Morinomiya Univ of Med Sci)

Age-related of pulp chamber in maxillary premolar using micro-computed tomography

○Asami R¹, Aboshi H², Iwawaki A¹, Otaka Y³, Tanaka A⁴, Saka H^{1,5} (¹Div Forensic Odontol, Meikai Univ Sch Dent, ²Dept Leg Med, Nihon Univ Sch Dent, ³Div Dent Radiol, Meikai Univ Sch Dent, ⁴Tanaka Dental Clinic, ⁵Forensic Odontol Center, Meikai Univ Sch Dent)

(August 26, 13 : 40-14 : 00)

O2-C18

Planning and carry out the program of the training seminar for dental identification at the mass disaster
○Yamada Y (Dept Disaster Relief Med/Dent Div Forensic Kanagawa Dent Univ Grad Sch Dent)

O2-C19

The study of protection of the portable intraoral X-ray unit
○Iwawaki A¹, Ootaka Y², Asami R¹, Tanaka A³, Saka H^{1,4} (¹Div Forensic Odontol, Dept Diagn Ther Sci, Meikai Univ Sch Dent, ²Div Dent Radiol, Dept Diagn Ther Sci, Meikai Univ Sch Dent, ³Tanaka Dental Clinic, ⁴Forensic Odontol Center, Meikai Univ Sch Dent)

(August 26, 14 : 00-14 : 40)

O2-C20

PfbA of *Streptococcus pneumoniae* contributes to the evasion from host innate immunity
○Yamaguchi M, Hirose Y, Goto K, Sumitomo T, Nakata M, Kawabata S (Dept Oral Microbiol, Osaka Univ Grad Sch Dent)

O2-C21

Streptococcus pyogenes-produced endopeptidase O contributes to evasion from complement-mediated bacteriolysis via binding to human complement factor C1q
○Ogawa M, Sumitomo T, Mori Y, Yamaguchi M, Nakata M, Kawabata S (Dept Oral Microbiol, Osaka Univ Grad Sch Dent)

O2-C22

Influenza A virus-induced surface display of GP96 promotes adherence of *Streptococcus pyogenes* to epithelial cells
○Sumitomo T, Nakata M, Mori Y, Ogawa M, Yamaguchi M, Kawabata S (Dept Oral Microbiol, Osaka Univ Grad Sch Dent)

O2-C23

Evaluation of resistant mechanism of two-component system against nisin A in *Streptococcus pyogenes*
○Kawada-Matsuo M, Komatsuzawa H (Dept Oral Microbiol, Kagoshima Univ Grad Sch Med Dent Sci)

(August 26, 14 : 40-15 : 10)

O2-C24

Two arginine residues of *Streptococcus gordonii* Hsa are associated with bacterial hemagglutination and aggregation of platelet
○Tashiro Y, Takahashi Y, Konishi K (Dept Microbiol, Nippon Dent Univ Sch Life Dent at Tokyo)

O2-C25

The distribution and frequency of oral *Veillonella* species in saliva from Thai children associated with oral hygiene status
○Theodore C^{1,2}, Mashima I^{1,3}, Nakazawa F¹ (¹Div Microbiol, Sch Dent Health Sci Univ Hokkaido, ²Dept Oral Biol, Fac Dent, Univ Indonesia, ³Postdoc JSPS)

O2-C26

The sequence analysis of the novel *Veillonella* species isolated from tongue biofilm of Thai children
○Mashima I^{1,2}, Theodore C², Nakazawa F² (¹Postdoc JSPS, ²Div Microbiol, Sch Dent, Health Sci Univ Hokkaido)

(August 26, 9 : 00-9 : 30)

O2-D1

Effect of local GDNF administration on functional recovery of facial sensation following inferior alveolar nerve transection
○Watanabe M¹, Shinoda M², Sugano N¹, Satou S¹, Iwata K² (¹Dept Periodontol, Nihon Univ Sch Dent, ²Dept Physiol, Nihon Univ Sch Dent)

O2-D2

The expression of cell adhesion molecules advancing inferior alveolar nerve regeneration
○Suzuki T¹, Kondo M², Sugano N¹, Iwata K², Sato S¹ (¹Dept Periodontol, Nihon Univ Sch Dent, ²Dept Physiol, Nihon Univ Sch Dent)

O2-D3

Odontoblast mechanical stimuli-induced action potential recording in rat TG neurons
○Sato M, Kimura M, Kojima Y, Higashikawa A, Shimada M, Ogura K, Mochizuki H, Kono K, Shibukawa Y, Tazaki M (Dept Physiol, Tokyo Dent Coll)

(August 26, 9 : 30-10 : 10)

O2-D4

Jaw opening-reflex modulation is adapted to the bite-raising during fictive mastication in rabbits
○Matsunaga T, Morita T, Hiraba K (Div Physiol, Aichi-Gakuin Univ Sch Dent)

O2-D5

Electrophysiological properties of Phox2b-positive neurons situated in the reticular formation dorsal to the trigeminal motor nucleus in rats
○Nagoya K^{1,2}, Nakamura S², Nakayama K², Mochizuki A², Kiyomoto M², Inoue T² (¹Div Oral Rehabil Med, Showa Univ Sch Dent, ²Dept Oral Physiol, Showa Univ Sch Dent)

O2-D6

Identification of rat supratrigeminal nucleus receiving inputs from masticatory muscle spindles
○Sato F, Kato T, Yoshida A (Dept Oral Anat Neurobiol, Osaka Univ Grad Sch Dent)

O2-D7

PRIP regulates neuroinflammation-induced anorexia
○Yamawaki Y, Kanematsu T (Dept Cell Mol Pharmacol, Hiroshima Univ Inst Biomed Health Sci)

(August 26, 10 : 10-10 : 40)

O2-D8

Sequential changes in rat cortical responses to periodontal stimulation during experimental tooth movement
○Horinuki E^{1,2}, Shimizu N¹, Koshikawa N², Kobayashi M² (¹Dept Orthodont, Nihon Univ Sch Dent, ²Dept Pharmacol, Nihon Univ Sch Dent)

O2-D9

The role of macrophages in ectopic orofacial pain following inferior alveolar nerve injury
○Batbold D¹, Shinoda M¹, Yamaguchi S², Iwata K¹ (¹Dept Physiol, Nihon Univ Sch Dent, ²Tokyo Med Dent Univ Grad Sch Med Dent Sci)

O2-D10

Extracellular ATP signaling through vesicular nucleotide transporter among neurons, satellite glia cells and microglia-like cells in the rat trigeminal ganglion
○Iwai H, Kuramoto E, Yamanaka A, Goto T (Dept Anat Oral Sci, Kagoshima Univ Grad Sch Med Dent Sci)

(August 26, 10 : 40-11 : 20)

O2-D11

The regulatory mechanism of MyoD transcriptional activity by TLE3
○Kokubu S, Nakatomi C, Matsubara T, Jimi E (Div Mol Signal Biochem, Dept Health Promotion, Kyushu Dent Univ)

O2-D12

Effects of LPS generated from *Porphyromonas gingivalis* on muscle mass in the whole body
○Kawamura N¹, Ohnuki Y², Okumura S², Gomi K¹, Ujiie Y¹, Umeki D³, Ito A³ (¹Dept Periodontol, Tsurumi Univ Sch Dent Med, ²Dept Physiol, Tsurumi Univ Sch Dent Med, ³Dept Orthodont, Tsurumi Univ Sch Dent Med)

O2-D13

Epac1-dependent hypertrophic effects of beta-2-adrenoceptor stimulation differ between slow- and fast-twitch muscles
 ○Ohnuki Y¹, Umeki D², Nariyama M³, Ito A², Kawamura N⁴, Yagisawa Y², Okumura S¹ (¹Dept Physiol, Tsurumi Univ Sch Dent Med, ²Dept Orthodont, Tsurumi Univ Sch Dent Med, ³Dept Pediatr Dent, Tsurumi Univ Sch Dent Med, ⁴Dept Periodontal, Tsurumi Univ Sch Dent Med)

O2-D14

Role of β -adrenergic receptor subtype-specific signaling on masseter muscle
 ○Ito A¹, Ohnuki Y², Umeki D¹, Ishikawa M³, Kawamura N⁴, Yagisawa Y¹, Nakamura Y¹, Okumura S² (¹Dept Orthodont Tsurumi Univ Sch Dent Med, ²Dept Physiol Tsurumi Univ Sch Dent Med, ³Dept Oral Anat Tsurumi Univ Sch Dent Med, ⁴Dept Periodontal Tsurumi Univ Sch Dent Med)

(August 26, 13 : 10-13 : 50)

O2-D15

PP2A Ca is involved in osteoblast and adipocyte differentiation
 ○Okamura H¹, Yoshida K^{1,2}, Teramachi J² (¹Dept Histol Oral Histol, Tokushima Univ Grad Sch Inst Biomed Sci, ²Dept Oral Health Care Educ, Tokushima Univ Grad Sch Inst Biomed Sci)

O2-D16

A novel role of Epiprofin in bone metabolism
 ○Nakamura T¹, Nakamura T^{1,2}, Wakamori M¹, Fukumoto S² (¹Div Mol Pharmacol Cell Biophys, Tohoku Univ Grad Sch Dent, ²Div Ped Dent, Tohoku Univ Grad Sch Dent)

O2-D17

Pannexin 3 and connexin 43 modulate skeletal development through their distinct functions and expression patterns
 ○Ishikawa M¹, Geneva W², Ikeuchi T³, Sakai K³, Fukumoto S⁴, Yamada Y³ (¹Div Oper Dent, Tohoku Univ Grad Sch Dent, ²Div Biol Biomed, Washington Univ in St. Louis, ³Lab Cell and Dev Biol, Natl Inst Dent Craniofac Res, Natl Inst of Health, ⁴Div Ped Dent, Tohoku Univ Grad Sch Dent)

O2-D18

PKR regulates *Porphyromonas gingivalis*-induced NLRP3 expression through by NF- κ B pathway in osteoblasts
 ○Yoshida K¹, Okamura H² (¹Dept Oral Health Care Educ, Tokushima Univ Grad Sch Inst Biomed Sci, ²Dept Histol Oral Histol, Tokushima Univ Grad Sch Inst Biomed Sci)

(August 26, 13 : 50-14 : 20)

O2-D19

BMP9 activates GSK3 β / β -catenin signaling in osteoblasts independently of Wnt
 ○Matsuguchi T¹, Eiraku N², Kusuyama J¹, Ohnishi T¹ (¹Dept Oral Biochem, Kagoshima Univ Grad Sch Med Dent Sci, ²Dept Periodontal, Kagoshima Univ Grad Sch Med Dent Sci)

O2-D20

Injection of RANKL-Binding peptide OP3-4 promotes BMP-2-induced maxilla augmentation in mice
 ○Uehara T¹, Tamura Y², Miyashin M¹, Aoki K² (¹Dept Pediatr Dent, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ²Div Pharmacol, Tokyo Med Dent Univ Grad Sch Med Dent Sci)

O2-D21

JNK signaling regulates multifunctional differentiation of osteoblasts
 ○Kusuyama J, Ohnishi T, Matsuguchi T (Dept Oral Biochem, Kagoshima Univ Grad Sch Med Dent Sci)

(August 26, 14 : 20-14 : 50)

O2-D22

Osteoclast forming potential of osteocyte-like cells derived from tamoxifen-induced CCN2 deficient mice
 ○Nishida T¹, Kubota S^{1,2}, Takigawa M² (¹Dept Biochem Mol Dent Okayama Univ Grad Sch Med, Dent, Pharm Sci, ²Adv Res Ctr Oral Craniofac Sci, Okayama Univ Grad Sci Med Dent Pharm Sci)

O2-D23

PPP1r18 negatively regulates actin ring formation in osteoclasts
 ○Matsubara T¹, Nakatomi C¹, Kokabu S¹, Yamamoto T², Jimi E¹ (¹Div Mol Signal and Biochem, Kyushu Dent Univ, ²Div Orthod Dentofac Orthop, Tohoku Univ Grad Sch Dent)

O2-D24

Wnt5a-Ror2 signaling regulates bone-resorbing activity of osteoclasts through Rho-Pkn3-c-Src pathways
 ○Uehara S¹, Yamashita T², Udagawa N¹, Takahashi N², Kobayashi Y² (¹Dept Oral Biochem, Matsumoto Dent Univ, ²Inst Oral Sci, Matsumoto Dent Univ)

(August 26, 14 : 50-15 : 10)

O2-D25

Are osteoclasts induced in the presence of inflammatory cytokines related to the pathologically activated osteoclasts ?
 ○Shiratori T^{1,3}, Kukita A², Uehara N¹, Kyumoto Y¹, Zhang JQ¹, Yamaza T¹, Koyano K³, Kukita T¹ (¹Sect Mol Cell Biol Oral Anat, Kyushu Univ Grad Sch Dent, ²Sect Microbiol, Fac Med Saga Univ, ³Sect Implant Rehabil Dent, Kyushu Univ Grad Sch Dent)

O2-D26

Regulation of the expression of MafB, an osteoclastogenesis inhibitor, by galectin-9
 ○Kyumoto Y¹, Uehara N¹, Kukita A², Yamaza T¹, Kukita T¹ (¹Sect Mol Cell Biol & Oral Anat, Kyushu Univ Grad Sci Dent, ²Sect Microbiol, Fac Med, Saga Univ)

■ Poster Presentation

(August 25, 17 : 00-18 : 00)

P1-1	The role of Runx1 in the salivary gland morphogenesis ○Ono H ¹ , Sarper S ² , Yamashiro T ² , Sakai T ¹ ('Dept Oral-Facial Disorders, Osaka Univ Grad Sch Dent, ² Dept Orthodont, Osaka Univ Grad Sch Dent)
P1-2	Acquisition of the attachment pattern of the lateral pterygoid muscle insertion in embryonic mice ○Nagakura R, Kitamura K, Yamamoto M, Matsunaga S, Abe S (Dept Anat, Tokyo Dent Coll)
P1-3	Immunohistochemistry of Tcf4 expression during muscle regeneration ○Ogawa Y, Odaka K, Yamamoto M, Matsunaga S, Abe S (Dept Anat, Tokyo Dent Coll)
P1-4	Temperature change affects oral epithelial cells via TRPV4 channel ○Yoshimoto R ^{1,2} , Aijima R ⁴ , Ohsaki Y ³ , Cao A ³ , Zhang J ³ , Kiyoshima T ² , Kido M ⁴ ('Sect Periodontol, Kyushu Univ, Grad Sch Dent, ² Sect Oral Pathol, Kyushu Univ, Grad Sch Dent, ³ Sect Mol Cell Biol Oral Anat, Kyushu Univ, Grad Sch Dent, ⁴ Dept Anat Physiol, Saga Med Sch)
P1-5	Expression of TRPC in the rat trigeminal ganglion ○Fujita M ¹ , Sato T ² , Yajima T ² , Ichikawa H ² ('Div Dent Anesthesiol, Tohoku Univ Grad Sch Dent, ² Div Oral and Craniofac Anat, Tohoku Univ Grad Sch Dent)
P1-6	Regulation of the expression of MafB, an osteoclastogenesis inhibitor, by galectin-9 ○Kiyumoto Y ¹ , Uehara N ¹ , Kukita A ² , Yamaza T ¹ , Kukita T ¹ ('Sect Mol Cell Biol Oral Anat, Kyushu Univ Grad Sch Dent, ² Sect Microbiol, Fac Med, Saga Univ)
P1-7	RANKL induces microfold cells in tracheobronchial epithelium of the mouse ○Mutoh M ¹ , Kimura S ² , Yoshizawa S ¹ , Iwanaga T ² , Iida J ¹ ('Dept Orthodont, Hokkaido Univ Grad Sch Dent Med, ² Lab Histo Cyto, Hokkaido Univ Grad Sch Med)
P1-8	Morphology and distribution of myoepithelial cell of the rat in von Ebner's glands ○Taira F ^{1,2} , Kawabe Y ^{1,3} , Bando Y ¹ , Sakiyama K ¹ , Amano O ¹ ('Div Anat, Meikai Univ Sch Dent, ² Div Oral Surg 2, Meikai Univ Sch Dent, ³ Div Oral Rehabil, Meikai Univ Sch Dent)
P1-9	Localization of adiponectin and its receptors in sublingual glands of rats ○Miyake G ^{1,2} , Taira F ^{1,2} , Bando Y ¹ , Sakiyama K ¹ , Amano O ¹ ('Div Anat, Meikai Univ Sch Dent, ² Div Oral Surg 2, Meikai Univ Sch Dent)
P1-10	Expression of CGRP during development of mouse masseter muscle ○Azuma Y, Miwa Y, Sato I (Dept Anat, Nippon Dent Univ Sch Life Dent at Tokyo)
P1-11	Characterization of dynamic features of basic proline rich lacrimal protein (BPLP) in human whole saliva ○Sega T ¹ , Imai A ² , Kato T ³ , Saitoh E ¹ ('Grad Sch Technol, Niigata Inst of Technol, ² Dept Dent Hygiene, Nippon Dent Univ Coll at Niigata, ³ Dept Chem, Tokyo Dent Coll)
P1-12	Enhancement of immunosuppressive effects of mesenchymal cells (10T1/2) by humoral transmission of mouse oral squamous cell carcinoma cells (Sq1979) ○Ito H ¹ , Kamiya M ^{2,3} , Sumi S ^{1,2} , Kawaki H ² , Takayama E ² , Umemura N ² , Inagaki Y ^{2,4} , Muramatu Y ¹ , Sumitomo S ¹ , Kondoh N ² ('Dept Oral Maxillofac Surg, Asahi Univ Sch Dent, ² Dept Oral Biochem, Asahi Univ Sch Dent, ³ Chem Lab, Asahi Univ Sch Business Admin, ⁴ Dept Anesthesiol, Asahi Univ Sch Dent)
P1-13	BMP-2 reciprocally regulates TGF-B1-induced epithelial-mesenchymal transition in human oral squamous cell carcinoma cell HSC-4 ○Chiba T ¹ , Kyakumoto S ² , Ishisaki A ² , Kamo M ² ('Div Oral Maxillofac Reg, Iwate Med Univ Sch Dent, ² Dept Biochem, Iwate Med Univ Sch Dent)
P1-14	Evaluation of properties of the hydrophilic titanium disks stored under various conditions after UVC irradiated ○Shintani K ^{1,2} , Kawaki H ² , Ishigure H ^{1,2} , Tatsumi Y ^{1,2} , Umemura N ² , Kamiya M ³ , Takayama E ² , Hotta M ¹ , Doi Y ⁴ , Kondoh N ² ('Dept Oper Dent, Asahi Univ Sch Dent, ² Dept Oral Biochem, Asahi Univ Sch Dent, ³ Chem Lab, Asahi Univ Sch Business Admin, ⁴ Asahi Univ Sch Dent)
P1-15	Effects of the anesthetics on the immune response in the microenvironment of tumor tissue ○Inagaki Y ^{1,2} , Kamiya M ^{2,3} , Umemura N ² , Kawaki H ² , Takayama E ² , Sumi S ^{2,4} , Ito H ^{2,4} , Sakurai S ¹ , Chihara E ¹ , Kondoh N ² ('Dept Anesthesiol, Asahi Univ Sch Dent, ² Dept Oral Biochem, Asahi Univ Sch Dent, ³ Chem Lab, Asahi Univ Sch Business Admin, ⁴ Dept Oral Maxillofac Surg, Asahi Univ Sch Dent)
P1-16	Evaluation of autoclave sterilized dentin particles / stem cell hybrid materials as a bone substitute ○Okuno K ^{1,2} , Kawaki H ² , Tanaka M ¹ , Takitani Y ¹ , Kawano S ¹ , Umemura N ² , Takayama E ² , Kamiya M ^{2,3} , Yoshida T ¹ , Kondoh N ² ('Dept Endodont, Asahi Univ Sch Dent, ² Dept Oral Biochem Asahi Univ Sch Dent, ³ Chem Lab, Asahi Univ Sch Business Admin)
P1-17	Minimal essential region required Kruppel-like factor 5 expression and the regulation by Sp3 ○Mihara N (Dept Biochem, Nippon Dent Univ Sch Life Dent at Tokyo)
P1-18	Evaluation of eluted ion properties from the surface pre-reacted glass ionomer (S-PRG) fillers ○Tatsumi Y ^{1,2} , Kawaki H ² , Ishigure H ^{1,2} , Shintani K ^{1,2} , Umemura N ² , Kamiya M ³ , Takayama E ² , Hotta M ¹ , Kondoh N ² ('Dept Oper Dent, Asahi Univ Sch Dent, ² Dept Oral Biochem, Asahi Univ Sch Dent, ³ Chem Lab, Asahi Univ Sch Business Admin)
P1-19	Functions of uncarboxylated osteocalcin in cancer progression ○Hayashi Y ^{1,4} , Kawakubo-Yasukochi T ² , Kuratani A ^{1,3} , Nakamura S ⁴ , Hirata M ¹ ('Sect Mol Cell Biochem, Kyushu Univ Grad Sch Dent, ² Dept Immunol Mol Pharmacol, Fukuoka Univ Pharm Sci, ³ OBT Res Cent, Kyushu Univ Grad Sch Dent, ⁴ Sect Oral Maxillofac Oncol, Kyushu Univ Grad Sch Dent)

P1-20	JNK signaling regulates multifunctional differentiation of osteoblasts ○Kusuyama J, Ohnishi T, Matsuguchi T (Dept Oral Biochem, Kagoshima Univ Grad Sch Med Dent Sci)
P1-21	An inquest of myeloid derived suppressor cells in primary tumor and metastasis tumor of oral squamous cell carcinoma ○Sumi S ¹ , Umemura N ² , Takayama E ² , Ito H ¹ , Kamiya M ³ , Kawaki H ² , Kondoh N ² , Sumitomo S ¹ ('Dept Oral Maxillofac Surg, Asahi Univ Sch Dent, ² Dept Oral Biochem, Asahi Univ Sch Dent, ³ Chem Lab, Asahi Univ Sch Business Admin)
P1-22	TPD52 expression is post-transcriptionally regulated by TIA-1 and TIAR via mRNA stability ○Motohashi H, Mukudai Y (Dept Oral Surg, Showa Univ Sch Dent)
P1-23	Anti-angiogenic activity of the extracellular matrix protein fibulin-7 and its C-terminal fragment <i>in vivo</i> ○Ikeuchi T ¹ , Forcinito P ¹ , de Vega S ² , Amaral J ³ , Rodriguez I ³ , Hirasawa E ² , Yamada Y ¹ ('Mol Biol Sect, Lab Cell and Dev Biol, NIDCR, NIH, ² Res Inst for Disease of Old Age, Juntendo Univ Grad Sch Med, ³ Lab Retinal Cell and Mol Biol NEI, NIH, Bethesda, MD, USA)
P1-24	Effects of carbonate apatite on the osteoclastic differentiation as a bone substitute ○Takahashi J ¹ , Kawaki H ² , Kondo Y ¹ , Umemura N ² , Kamiya M ³ , Takayama E ² , Tanabe T ¹ , Doi Y ⁴ , Nagahara K ¹ , Kondoh N ² ('Dept Oral Implantol, Asahi Univ Sch Dent, ² Dept Oral Biochem, Asahi Univ Sch Dent, ³ Chem Lab, Asahi Univ Sch Business Admin, ⁴ Dept Dent Mater Sci, Asahi Univ Sch Dent)
P1-25	Inhibition of neuropeptide Y Y1 receptor induces osteoblastic differentiation in MC3T3-E1 cells ○Yahara M ¹ , Tsuji-Tamura K ² , Tamura M ² ('Dept Oral Maxillofac Dent, Hokkaido Univ Grad Sch Dent Med, ² Dept Oral Biochem Mol Biol, Hokkaido Univ Grad Sch Dent Med)
P1-26	Estimation of the glucose/amino acid metabolism of cancer cells using a metabolism-monitoring system and effects of environmental pH on the metabolism ○Morishima H ^{1,2} , Washio J ¹ , Kitamura J ^{1,2} , Takahashi T ² , Takahashi N ¹ ('Div Oral Ecol Biochem, Tohoku Univ Grad Sch Dent, ² Div Oral Maxillofac Surg, Tohoku Univ Grad Sch Dent)
P1-27	Effects of the surface pre-reacted glass ionomer (S-PRG) filler eluate on the human dentin pulp stem-cell (hDPSC) activities ○Ishigure H ^{1,2} , Kawaki H ² , Tatsumi Y ^{1,2} , Shintani K ^{1,2} , Umemura N ² , Kamiya M ³ , Takayama E ² , Hotta M ¹ , Kondoh N ² ('Dept Oper Dent, Asahi Univ Sch Dent, ² Dept Oral Biochem, Asahi Univ Sch Dent, ³ Chem Lab, Asahi Univ Sch Business Admin)
P1-28	Detection of oral bacteria-derived volatile metabolites from long term used removable denture ○Tagaino T ¹ , Suenaga H ² , Washio J ³ , Sasaki K ¹ , Takahashi N ³ ('Div Adv Prosthet Dent, ² Div Prevent Dent, ³ Div Oral Ecol Biochem, Tohoku Univ Grad Sch Dent)
P1-29	TGF- β Isoforms in porcine immature and mature enamel ○Okubo M ¹ , Kobayashi S ² , Yamamoto R ³ , Saito M ³ , Nagano T ¹ , Gomi K ¹ , Oida S ³ , Yamakoshi Y ³ ('Dept Periodont, Tsurumi Univ Sch Dent Med, ² Dept Pediatr Dent, Tsurumi Univ Sch Dent Med, ³ Dept Biochem Mol Biol, Tsurumi Univ Sch Dent Med)
P1-30	Interaction of TGF- β 1 and enamel proteins in porcine enamel ○Kobayashi S ¹ , Yamamoto R ² , Oida S ² , Asada Y ¹ , Yamakoshi Y ² ('Dept Pediatr Dent, Tsurumi Univ Sch Dent Med, ² Dept Biochem Mol Biol, Tsurumi Univ Sch Dent Med)
P1-31	Effect of Er:YAG laser irradiation for porcine pulp tissues ○Yamakawa S ¹ , Niwa T ² , Kobayashi K ³ , Yamamoto R ⁴ , Hosoya N ^{1,4} , Yamakoshi Y ⁴ ('Dept Endodont, Tsurumi Univ, Sch Dent Med, ² Dent Perio, Tsurumi Univ, Sch Dent Med, ³ Dept Dent Hyg, Tsurumi Jr Coll, ⁴ Dept Biochem Mol Biol, Tsurumi Univ Sch Dent Med)
P1-32	Action of TGF- β in root-surrounding tissues of deciduous teeth ○Shimazaki E ¹ , Karakida T ² , Yamamoto R ² , Asada Y ¹ , Yamakoshi Y ² ('Dept Pediatr, Tsurumi Univ, Sch Dent Med, ² Dept Biochem Mol Biol, Tsurumi Univ Sch Dent Med)
P1-33	Ameloblastin and enamelin regulate osteoclastogenesis by modifying RANKL expression via p38 and Erk1/2 MAPKs signalling pathways ○Chaweevannakorn W ^{1,2} , Maki K ² , Ariyoshi W ¹ , Okinaga T ¹ , Nishihara T ¹ ('Div Infect Mol Biol, Kyushu Dent Univ, ² Div Pediatr Dent, Kyushu Dent Univ)
P1-34	Degradation of extracellular matrix by chondrocytes after exposure to interleukin-1 β in an NADPH oxidase-dependent manner ○Funato S ^{1,2} , Yasuhara R ³ , Miyamoto Y ¹ , Yoshimura K ¹ , Mishima K ³ , Baba K ² , Kamijo R ¹ ('Dept Biochem, Showa Univ Sch Dent, ² Dept Prosthodont, Showa Univ Sch Dent, ³ Dept Oral Diagnostic Sci, Div Pathol, Showa Univ Sch Dent)
P1-35	A RANKL-binding peptide W9 inhibits human osteoclast differentiation and stimulates human osteoblast differentiation ○Nakamura M ^{1,2} , Koide M ² , Yamashita T ² , Kobayashi Y ² , Takahashi N ² , Udagawa N ^{1,2} ('Dept Oral Biochem, Matsumoto Dent Univ, ² Inst Oral Sci, Matsumoto Dent Univ)
P1-36	Bone augmentation around a dental implant using demineralized bone sheet containing biologically active substances ○Shirai M ¹ , Yamamoto R ² , Komatsu K ³ , Shimoda S ⁴ , Yamakoshi Y ² , Oida S ² ('Dept Removable Prosthodont, Tsurumi Univ Sch Dent Med, ² Dept Biochem Mol Biol, Tsurumi Univ Sch Dent Med, ³ Dept Pharmacol, Tsurumi Univ Sch Dent Med, ⁴ Dept Oral Anat, Tsurumi Univ Sch Dent Med)
P1-37	Inhibitory effects of sodium dichloroacetate and 2-deoxy-D-glucose on the glucose metabolism of oral squamous cell carcinoma ○Kitamura J ^{1,2} , Washio J ¹ , Morishima H ^{1,2} , Takahashi T ² , Takahashi N ¹ ('Div Oral Ecol Biochem, Tohoku Univ Grad Sch Dent, ² Div Oral Maxillofac Surg, Tohoku Univ Grad Sch Dent)
P1-38	Induction of HIF1a in human dental pulp cells by lipopolysaccharide ○Fujii M, Kawashima N, Okiji T (Dept Pulp Biol Endod, Tokyo Med Dent Univ Grad Sch Med Dent Sci)
P1-39	Analysis of the transcription factor while mouse iPS cells were differentiated into the neural crest cells ○Sato A ¹ , Shino H ² , Onodera S ² , Saito A ² , Ichinohe T ¹ , Azuma T ² ('Dept Dent Anesthesiol, Tokyo Dent Coll Grad Sch Dent, ² Dept Biochem, Tokyo Dent Coll)
P1-40	The role of lysophospholipid acyltransferases in chondrogenic differentiation of ATDC5 cells ○Tabe S ^{1,2} , Hikiji H ³ , Ariyoshi W ¹ , Okinaga T ¹ , Nishihara T ¹ ('Div Infect Mol Biol, Kyushu Dent Univ, ² Div Oral Maxillofac Surg, Kyushu Dent Univ, ³ Dept Oral Health Manage, Kyushu Dent Univ)

P1-41	Role of PI3K in Tr1 cells differentiation ○Niken A, Azuma M, Nagai S (Div Mol Immunol, Tokyo Med Dent Univ Grad Sch Med Dent Sci)
P1-42	Cariogenicity of <i>Streptococcus mutans</i> UA159 in dental cavity is promoted by biofilm acidification via extracellular electron transfer ○Divya N ¹ , Okamoto A ² (¹ Dept Advanced Interdisciplinary Studies, The Univ of Tokyo, Grad Sch Engin, ² Natl Inst of Mater and Sci (NIMS))
P1-43	Involvement of the TGF- β family in tooth development in adult mice ○Machiya A ^{1,2} , Jimi E ³ , Suda N ² , Katagiri T ¹ (¹ Div Pathophysiol, Res, Center for Genomic Medicine, Saitama Med Univ, ² Div Orthod, Meikai Univ Sch Dent, ³ Div Mol Signal Biochem, Kyushu Dent Univ)
P1-44	Cdc42 is critical for cartilage development through PTH-mediated signaling ○Nagahama R ^{1,2} , Yamada A ¹ , Maki K ² , Kamijo R ¹ (¹ Dept Biochem, Showa Univ Sch Dent, ² Dept Orthodont, Showa Univ Sch Dent)
P1-45	Reduced mastication impairs mandibular growth and memory ○Fukushima Y ^{1,2} , Ono T ¹ , Ono T ² , Nakashima T ^{1,3,4} (¹ Div Cell Signal, Tokyo Med Dent Univ, Grad Sch Med Dent Sci, ² Div Ortho Sci, Oral health Sci, Tokyo Med Dent Univ, Grad Sch Med Dent Sci, ³ Precursory Res for Embryonic Sci Technol (PRESTO), Japan Science and Technology Agency (JST), ⁴ Japan Agency for Medical Research and Development, Core Research for Evolutional Science and Technology (AMED-CREST))
P1-46	MMP-20 regulates enamel development via cadherin/catenin signaling ○Shin M ¹ , Okamoto F ¹ , Kajiyama H ¹ , Ogata K ¹ , Okabe K ¹ (¹ Div Cell Physiol, Fukuoka Dent Coll, ² Div Biosci, Ohio State Univ)
P1-47	Development of a novel gingival blood flow measurement technique: Age-related changes in gingival microcirculation in humans ○Ohsugi Y, Nagashima Y, Nakatsu S, Sato K, Chiba A, Fujinaka H, Yano Y, Niki Y (Personal Health Care Products Res, Kao Corp.)
P1-48	Measurements of baropressure in the pharynx during swallowing in the healthy subjects ○Hasegawa M ^{1,2} , Okamoto K ¹ , Kurose M ¹ , Yamada Y ³ , Fujii N ² , Yamamura K ¹ (¹ Div Oral Physiol, Niigata Univ Grad Med Dent Sci, ² General Dent Clinic Edu Unit, Niigata Univ Med Dent Hosp, ³ Oral Health Sci Center, Tokyo Dent Coll)
P1-49	Satellite cell involvement in ectopic tooth-pulp pain associated with acute pulpitis ○Komiyama H ¹ , Shinoda M ² , Iwata K ² , Ogiso B ¹ (¹ Dept Endodont, Nihon Univ Sch Dent, ² Dept Physiol, Nihon Univ Sch Dent)
P1-50	Alkali sensitive store-operated Ca ²⁺ entry (SOCE) in rat odontoblasts ○Kimura M, Sato M, Kojima Y, Higashikawa A, Shimada M, Ogura K, Mochizuki H, Kono K, Tazaki M, Shibukawa Y (Dept Physiol, Tokyo Dent Coll)
P1-51	Sequential changes in rat cortical responses to periodontal stimulation during experimental tooth movement ○Horinuki E ^{1,2} , Shimizu N ¹ , Koshikawa N ² , Kobayashi M ² (¹ Dept Orthodont, Nihon Univ Sch Dent, ² Dept Pharmacol, Nihon Univ Sch Dent)
P1-52	Serotonergic modulation of glutamate-evoked responses through 5-HT _{2A} receptors in the dendrites of rat jaw-closing motoneurons ○Dantsuji M ¹ , Nakamura S ¹ , Nakayama K ¹ , Mochizuki A ¹ , Kiyomoto M ¹ , Ozeki M ² , Inoue T ¹ (¹ Dept Oral Physiol, Showa Univ Sch Dent, ² Dept Implant Dent, Showa Univ Sch Dent)
P1-53	Functional analysis of saliva secretion in type 2 diabetic mouse model ○Munemasa T ¹ , Kondo Y ¹ , Mukaibo T ¹ , Kusuda Y ¹ , Miyagi Y ¹ , Tsuka S ¹ , Masaki C ¹ , Nakamoto T ² , Hosokawa R ¹ (¹ Div Oral Reconstr Rehabil, Kyusyu Dent Univ, ² Dept Prosthodont, Matsumoto Dent Univ)
P1-54	The expression of cell adhesion molecules advancing inferior alveolar nerve regeneration ○Suzuki T ¹ , Kondo M ² , Sugano N ¹ , Iwata K ² , Sato S ¹ (¹ Dept Periodontol, Nihon Univ Sch Dent, ² Dept Physiol, Nihon Univ Sch Dent)
P1-55	Alteration of the jaw-opening reflex excitability after surgery ○Odai-Ide R ¹ , Adachi K ² , Watanabe S ¹ , Sakagami H ² (¹ Div Pediatr, Meikai Univ Sch Dent, ² Div Pharmacol, Meikai Univ Sch Dent)
P1-56	Inadequate orthodontic wire-induced mucositis pain mechanism ○Ito M ¹ , Ono K ¹ , Hitomi S ¹ , Nodai T ¹ , Gunjigake K ² , Kuroishi K ² , Kawamoto T ² , Inenaga K ¹ (¹ Div Physiol, Kyushu Dent Univ, ² Div Orofac Funct Orthodont, Kyushu Dent Univ)
P1-57	Involvement of endothelin-1 on oral ulcerative mucositis-induced pain in rats ○Nodai T ^{1,2} , Hitomi S ¹ , Ono K ¹ , Ito M ¹ , Masaki C ² , Hosokawa R ² , Inenaga K ¹ (¹ Div Physiol, Kyushu Dent Univ, ² Div Oral Reconstr Rehabil Kyushu Dent Univ)
P1-58	Parasympathetic vasodilation in major salivary glands in type 2 diabetic rats ○Sato T, Ishii H (Div Physiol, Health Sci Univ Hokkaido Sch Dent)
P1-59	The role of macrophages in ectopic orofacial pain following inferior alveolar nerve injury ○Batbold D ¹ , Shinoda M ¹ , Yamaguchi S ² , Iwata K ¹ (¹ Dept Physiol, Nihon Univ Sch Dent, ² Tokyo Med Dent Univ Grad Sch Med Dent Sci)
P1-60	Effects of LPS generated from <i>Porphyromonas gingivalis</i> on muscle mass in the whole body ○Kawamura N ¹ , Ohnuki Y ² , Okumura S ² , Gomi K ¹ , Ujiie Y ¹ , Umeki D ³ , Ito A ³ (¹ Dept Periodontol, Tsurumi Univ Sch Dent Med, ² Dept Physiol, Tsurumi Univ Sch Dent Med, ³ Dept Orthodont, Tsurumi Univ Sch Dent Med)
P1-61	Effects of gustatory nerve transection on the licking behavior to quinine-HCl ○Ooki M, Miura H, Saito M (Dept Oral Physiol, Kagoshima Univ Grad Sch Med Dent Sci)
P1-62	An application of barometer for assessment of oral functions ○Hiraki K ¹ , Yamada Y ² , Sugiyama T ¹ , Ishida R ¹ (¹ Dept Oral Health Clin Sci, Tokyo Dent Coll, ² Oral Health Sci Center, Tokyo Dent Coll)
P1-63	Effect of local GDNF administration on functional recovery of facial sensation following inferior alveolar nerve transection ○Watanabe M ¹ , Shinoda M ² , Sugano N ¹ , Satou S ¹ , Iwata K ² (¹ Dept Periodontol, Nihon Univ Sch Dent, ² Dept Physiol, Nihon Univ Sch Dent)

P1-64	Cbfb1 and Cbfb2 isoforms play important roles in skeletal development ○Jiang Q, Qin X, Komori H, Matsuo Y, Miyazaki T, Moriishi T, Komori T (Dept Cell Biol, Nagasaki Univ Grad Sch Biomed Sci)
P1-65	Runx signaling is specifically involved in the fusion between the primary palate and the secondary palate by regulating Tgfb3 signaling ○Sarper S, Kurosaka H, Mihara K, Aoyama G, Yamashiro T (Dept Orthodont, Osaka Univ Grad Sch Dent)
P1-66	Runx1 and Cbfb in dental enamel epithelium is important for enamel formation in mouse ○Sarper S ¹ , Miura J ² , Yamaguchi S ³ , Imasato S ³ , Morita C ¹ , Yamashiro T ¹ ('Dept Orthodont, Osaka Univ Grad Sch Dent, ² Div Interdisci Dent, Osaka Univ Dent Hosp, ³ Dept Biomater Sci, Osaka Univ Grad Sch Dent)
P1-67	Asporin regulates occlusal hypofunction-mediated alveolar bone apposition ○Itohiya K ¹ , Kanzaki H ¹ , Ishikawa M ² , Shimoda S ² , Nakamura Y ¹ ('Dept Orthodont, Tsurumi Univ Sch Dent Med, ² Dept Oral Anat, Tsurumi Univ Sch Dent Med)
P1-68	RANKL expressed by osteocytes has a key role for osteoclastogenesis during orthodontic tooth movement ○Shoji A ^{1,2} , Ono T ¹ , Moriyama K ² , Nakashima T ^{1,3,4} ('Div Cell Signal, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ² Div Maxillofac Orthognathics, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ³ Precursory Res for Embryonic Sci Technol (PRESTO), Japan Science and Technology Agency (JST), ⁴ Japan Agency for Medical Research and Development Core Research for Evolutional Science and Technology (AMED-CREST))
P1-69	Retinoic acid affects craniofacial patterning by regulating sonic hedgehog signaling ○Wang Qi, Yamashiro T, Kurosaka H (Dept Orthodont, Osaka Univ Grad Sch Dent)
P1-70	Are osteoclasts induced in the presence of inflammatory cytokines related to the pathologically activated osteoclasts ? ○Shiratori T ^{1,3} , Kukita A ² , Uehara N ¹ , Kyumoto Y ¹ , Zhang JQ ¹ , Yamaza T ¹ , Koyano K ³ , Kukita T ¹ ('Sect Mol Cell Biol Oral Anat Kyushu Univ Grad Sch Dent, ² Div Microbiol Fac Med Saga Univ, ³ Sect Implant Rehabil Dent Kyushu Univ Grad Sch Dent)
P1-71	DSPP-derived proteins are transient components of root dentin ○Niwa T ¹ , Nagano T ¹ , Gomi K ¹ , Yamakoshi Y ² ('Dept Periodontol, Tsurumi Univ Sch Dent Med, ² Dept Biochem Mol Biol, Tsurumi Univ Sch Dent Med)
P1-72	Histological examination on the effect of tooth storage media on the periodontal tissue regeneration ○Hasan R ^{1,2} , Takebe H ¹ , Irie K ¹ , Saito T ² ('Div Histol, Health Sci Univ Hokkaido Sch Dent, ² Div Clinic Cariol Endodont, Health Sci Univ Hokkaido Sch Dent)
P1-73	The effects of neurokinin-1 receptor knockdown on substance P-induced osteogenic differentiation in mouse osteoblast ○Toyodome S ^{1,2} , Kuramoto E ¹ , Iwai H ¹ , Yamanaka A ¹ , Yoshimura T ² , Nakamura N ² , Goto T ¹ ('Dept Anat Oral Sci, Kagoshima Univ Grad Sch Med Dent Sci, ² Dept Oral Maxillofac Surg, Kagoshima Univ Grad Sch Med Dent Sci)
P1-74	Bilirubin induces cell death of human deciduous teeth-derived stem cells ○Tomoda E ^{1,2} , Yamaza T ¹ , Yamaza H ² , Tanaka Y ¹ , Sonoda S ¹ , Nonaka K ² , Kukita T ¹ ('Sect Mol Cell Biol Oral Anat, Kyushu Univ Grad Sch Dent, ² Sect Pediatr Dent, Kyushu Univ Grad Sch Dent)
P1-75	Role of β 1 integrin in branching morphogenesis of fetal mouse submandibular glands ○Adachi K ¹ , Mizukoshi K ² , Koyama N ² , Muramatsu Y ¹ , Kashimata M ² ('Dept Oral Maxillofac Surg, Asahi Univ Sch Dent, ² Dept Dent Pharmacol, Asahi Univ Sch Dent)
P1-76	The role of IGF binding protein 5 in the healing process of dental pulp following tooth crown transplantation into the sublingual region ○Saito K, Ohshima H (Div Anat Cell Biol Hard Tissue, Niigata Univ Grad Sch Med Dent Sci)
P1-77	CD91 expression of mesenchymal stromal cells in socket of tooth extraction ○Ninomiya T ¹ , Hosoya A ² , Nakamura H ² ('Inst Oral Sci, Matsumoto Dent Univ, ² Dept Oral Histol, Matsumoto Dent Univ)
P1-78	Tactile allodynia in OVA-induced asthma model mice ○Cao AL ^{1,2} , Yoshimoto R ³ , Ajima R ² , Zhang JQ ¹ , Kido M ² ('Sect Mol Cell Biol Oral Anat, Kyushu Univ Grad Sch Dent Sci, ² Div Anat Physiol, Saga Med Sch, ³ Sect Periodontol, Kyushu Univ Grad Sch Dent Sci)
P1-79	Localization of septoclasts in mouse Meckel's cartilage ○Sakashita H ^{1,2} , Bando Y ¹ , Sakiyama K ¹ , Amano O ¹ ('Div Anat, Meikai Univ Sch Dent, ² Div Oral Maxillofac Surg II, Meikai Univ Sch Dent)
P1-80	A basement membrane protein Nephronectin regulates the proliferation of dental epithelial stem cell through its EGF like repeat domain ○Arai C ¹ , Yoshizaki K ¹ , Miyazaki K ¹ , Han X ¹ , Funada K ¹ , Fukumoto S ² , Takahashi I ¹ ('Sect Orthod Dentofac Orthop, Kyushu Univ Grad Sch Dent, ² Div Ped Dent, Tohoku Univ Grad Sch Dent)
P1-81	Three-dimensional somatotopic organization of the rat trigeminal ganglion: A combined study using tissue clearing and fluorescent retrograde tracers ○Sendo R ^{1,2} , Iwai H ¹ , Kuramoto E ¹ , Yoshimura N ¹ , Yamaguchi R ¹ , Yamanaka A ¹ , Toyodome S ^{1,3} , Sugimura M ² , Goto T ¹ ('Dept Anat Oral Sci, Kagoshima Univ Grad Sch Med Dent Sci, ² Dept Dent Anesthesiol, Kagoshima Univ Grad Sch Med Dent Sci, ³ Dept Oral Maxillofac Surg, Kagoshima Univ Grad Sch Med Dent Sci)
P1-82	Migration and differentiation into palatal glands of transplanted bone marrow-derived cells ○Ootani Y ¹ , Tamamura R ¹ , Kono T ¹ , Suzuki K ² , Nakano K ³ , Nagatsuka H ³ , Tsujigawa H ⁴ , Okada H ¹ ('Dept Histol, Nihon Univ Sch Dent at Matsudo, ² Dept Biol, Nihon Univ Sch Dent at Matsudo, ³ Dept Oral Pathol, Okayama Univ Grad Sch Med Dent Pharm Sci, ⁴ Lab Histopathol, Dept Life Sci, Fac Sci, Okayama Univ of Sci)
P1-83	The role of myoepithelial cells in salivary gland morphogenesis ○Ikai K, Ono H, Sakai T (Dept Oral-Facial Disorders, Osaka Univ Grad Sch Dent)
P1-84	Essential roles of H3K9MTase G9a during tooth development ○Kamiunten T ¹ , Ideno H ² , Shimada A ² , Nakamura Y ¹ , Kimura H ³ , Tachibana M ⁴ , Nakashima K ² , Nifuji A ² ('Dept Orthodont, Tsurumi Univ Sch Dent Med, ² Dept Pharmacol, Tsurumi Univ Sch Dent Med, ³ Dept Biological Sci, Grad Sch Biosci Biotechnol, Tokyo Inst of Technol, ⁴ Inst for Enzyme Res, Tokushima Univ)

P1-85	Elucidation of the neuronal differentiation induction mechanism by periodontal ligament cells by adding a mechanical stimulus ○Takahashi K, Yoshida T, Wakamori M (Div Mol Pharmacol Cell Biophys, Tohoku Univ Grad Sch Dent)
P1-86	Analysis of cytoskeleton in normal cells surrounding cancer cells ○Kitagawa N, Ohtani T, Inai T (Dept Morpho Biol, Fukuoka Dent Coll)
P1-87	The role of eiprofin and T-box1 in enamel epithelial development ○Sakai K ^{1,3} , Yoshizaki K ^{2,3} , Chiba Y ³ , Ikeuchi T ³ , Yamamoto A ¹ , Hibi H ¹ , Yamada Y ³ (¹ Dept Maxillofac Surg, Nagoya Univ Grad Sch Med, ² Dent Sect Orthod Dentofac Orthop, Kyushu Univ Grad Sch, ³ NIH NIDCR)
P1-88	Metatranscriptomic analyses of microbiota in peri-implantitis and periodontitis lesions ○Watanabe T ¹ , Shiba T ² , Kachi H ³ , Takeuchi Y ² , Maruyama F ⁴ , Izumi Y ² , Nakagawa I ⁴ (¹ Lab Food-borne Pathog Microbiol, Res Center for Food Safety, Grad Sch Agri & Life Sci, The Univ of Tokyo, ² Div Periodontol, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ³ Div Maxillofac Surg, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ⁴ Dept Microbiol, Kyoto Univ Grad Sch Med)
P1-89	<i>Streptococcus pyogenes</i> -produced endopeptidase O contributes to evasion from complement-mediated bacteriolysis via binding to human complement factor C1q ○Ogawa M, Sumitomo T, Mori Y, Yamaguchi M, Nakata M, Kawabata S (Dept Oral, Microbiol, Osaka Univ Grad Sch Dent)
P1-90	A relationship between secretion of short chain fatty acids and producing gingipains in <i>Porphyromonas gingivalis</i> ○Sato M ¹ , Yoshida Y ² , Nagano K ² , Hasegawa Y ² , Takebe J ¹ , Yoshimura F ² (¹ Div Partial Denture, Aichi Gakuin Univ Sch Dent, ² Div Microbiol, Aichi Gakuin Univ Sch Dent)
P1-91	Carbohydrate metabolism of oral <i>Bifidobacterium</i> and its inhibition by fluoride ○Manome A ¹ , Abiko Y ^{2,3} , Kawashima J ⁴ , Fukumoto S ¹ , Takahashi N ² (¹ Div Ped Dent, Tohoku Univ Grad Sch Dent, ² Div Oral Ecol Biochem, Tohoku Univ Grad Sch Dent, ³ Liaison Center Innovative Dent, Tohoku Univ Grad Sch Dent, ⁴ Div Community Oral Health Sci, ToMMo, Tohoku Univ)
P1-92	The effects of fructanase on the competence-stimulating peptide-dependent quorum sensing system in <i>Streptococcus mutans</i> ○Suzuki Y ^{1,2} , Arai T ^{1,3} , Ogura N ² , Kondoh T ² , Senpuku H ¹ (¹ Dept Bacteriol 1, Natl Inst of Infect Dis, ² Dept Maxillofac Surg, Nihon Univ Sch Dent at Matsudo, ³ Dept Oral and Maxillofac Surg, Tsurumi Univ Sch Dent Med)
P1-93	Novel strategy for biofilm inhibition using small molecules targeting molecular chaperone DnaK ○Arita-Morioka K ¹ , Nagao J ² , Narita Y ² , Hashimoto M ² , Tasaki S ² , Ikezaki S ² , Cho T ² , Tanaka Y ² (¹ Adv Sci Res Cent, Fukuoka Dent Coll, ² Div Infect Biol, Fukuoka Dent Coll)
P1-94	<i>Porphyromonas gingivalis</i> manages complement and TLR signaling to escape bacterial clearance of inflammation ○Maekawa T ¹ , Maeda T ¹ , Terao Y ² (¹ Res Cent for Adv Oral Sci, Niigata Univ, Grad Sch Med Dent Sci, ² Div Microbiol Infect Dis, Niigata Univ, Grad Sch Med Dent Sci)
P1-95	Ameloblastin enhances the inflammatory response in LPS-treated human macrophage cells ○Otsuka M ^{1,2} , Okinaga T ¹ , Ariyoshi W ¹ , Kitamura C ² , Nishihara T ¹ (¹ Div Infect Mol Biol, Kyushu Dent Univ, ² Div Endodont, Restorative Dent, Kyushu Dent Univ)
P1-96	Functional analysis of <i>marR</i> -like gene of <i>Treponema denticola</i> ○Numata Y ¹ , Shibayama K ² , Sato T ¹ , Kikuchi Y ² , Kokubu E ² , Ishihara K ² (¹ Dept Crown Bridge Prosthodont, Tokyo Dent Coll, ² Dept Microbiol, Tokyo Dent Coll)
P1-97	Functional analysis of a novel T-cell signaling molecule associated with allergic response ○Hashimoto M ^{1,2} , Nagao J ¹ , Tasaki S ¹ , Ikezaki S ¹ , Narita Y ¹ , Arita-Morioka K ¹ , Cho T ¹ , Yuasa K ² , Tanaka Y ¹ (¹ Div Infect Biol, Dept Funct Biosci, Fukuoka Dent Coll, ² Div Image Diagn, Dept Diagn Gene Care, Fukuoka Dent Coll)
P1-98	Competence-induced protein Ccs4 impacts virulence of <i>Streptococcus pneumoniae</i> ○Hirose Y, Yamaguchi M, Goto K, Sumitomo T, Nakata M, Kawabata S (Dept Oral Microbiol, Osaka Univ Grad Sch Dent)
P1-99	Induction of T cell response in the regulation for oral candidiasis ○Tasaki S ^{1,2} , Cho T ¹ , Nagao J ¹ , Narita Y ¹ , Hasimoto M ¹ , Ikezaki S ¹ , Arita-Morioka K ¹ , Kojima H ² , Tanaka Y ¹ (¹ Div. Infect. Biol, Dept Funct. Biosci, Fukuoka Dent Coll, ² Div Dent for the Disabled, Dept Oral Growth and Dev, Fukuoka Dent Coll)
P1-100	Effects of novel compounds on periodontopathic bacteria ○Fujiwara N ^{1,2} , Murakami K ¹ , Yumoto H ³ , Hirota K ¹ , Ozaki K ² , Miyake Y ¹ (¹ Dept Oral Microbiol, Tokushima Univ Grad Sch Inst Biomed Sci, ² Dept Oral Health Care Promo, Tokushima Univ Grad Sch Inst Biomed Sci, ³ Dept Conserv Dent, Tokushima Univ Grad Sch Inst Biomed Sci)
P1-101	The roles of omega-3 fatty acid in the macrophage differentiation ○Kawano A ^{1,2} , Okinaga T ² , Hikiji H ¹ , Ariyoshi W ² , Nishihara T ² (¹ Dept Oral Health Manage, Kyushu Dent Univ, ² Div Infect Mol Biol, Kyushu Dent Univ)
P1-102	Involvement of inflammasome in IL-1 α -inducing activity of <i>Streptococcus sanguinis</i> ○Saeki A ¹ , Hasebe A ¹ , Kamezaki R ¹ , Suzuki T ² , Shibata K ¹ (¹ Dept Oral Mol Microbiol, Hokkaido Univ Grad Sch Dent Med, ² Div Bacter Pathogenesis, Tokyo Med Dent Univ Grad Sch Med Dent Sci)
P1-103	Molecular analyses of CAMP factor and PI3K/Akt signaling pathway on adhesion and invasion of <i>Streptococcus pyogenes</i> to human pharyngeal epithelial cells ○Kurosawa M ^{1,2} , Oda M ¹ , Domon H ¹ , Saitoh I ² , Hayasaki H ² , Terao Y ¹ (¹ Div Microbiol Infect Dis, Niigata Univ Grad Sch Med Dent Sci, ² Div Pediatr Dent, Niigata Univ Grad Sch Med Dent Sci)
P1-104	Activation of inflammasome by genomic DNA of Aggregatibacter actinomycetemcomitans ○Kamezaki R ^{1,2} , Saeki A ¹ , Hasebe A ¹ , Kitagawa Y ² , Suzuki T ³ , Shibata K ¹ (¹ Dept Oral Mol Microbiol, Hokkaido Univ Grad Sch Dent Med, ² Dept Oral Diagn Med, Hokkaido Univ Grad Sch Dent Med, ³ Div Bacter Pathogenesis, Tokyo Med Dent Univ Grad Sch Med Dent Sci)
P1-105	The sequence analysis of the novel <i>Veillonella</i> species isolated from tongue biofilm of Thai children ○Mashima I ^{1,2} , Theodore C ² , Nakazawa F ² (¹ Postdoc. JSPS, ² Div Microbiol, Health Sci Univ Hokkaido Sch Dent)
P1-106	Effects of mild heat stress on biofilm formation of <i>Candida albicans</i> ○Ikezaki S ¹ , Cho T ¹ , Tasaki S ¹ , Hashimoto M ¹ , Narita Y ¹ , Nagao J ¹ , Arita-Morioka K ¹ , Ikebe T ² , Tanaka Y ¹ (¹ Div Infect Biol, Dept Funct Biosci, Fukuoka Dent Coll, ² Div Oral and Maxillofac Surg, Fukuoka Dent Coll)

P1-107	Enzymatic properties of quinol peroxidase of aggressive periodontopathic bacterium ○Abe T, Kawarai T, Takahashi Y, Konishi K (Dept Microbiol, Nippon Dent Univ Sch Life Dent at Tokyo)
P1-108	The distribution and frequency of oral <i>Veillonella</i> species in saliva from Thai children associated with oral hygiene status ○Theodore C ^{1,2} , Mashima I ^{1,3} , Nakazawa F ¹ ('Div Microbiol, Health Sci Univ Hokkaido Sch Dent, ² Dept Oral Biol, Fac Dent, Univ Indonesia, ³ Postdoc Research Fellowship for Young Scientists, JSPS)
P1-109	Identification and characterization of dendritic cells in murine salivary glands ○Lu L ^{1,2} , Tanaka Y ^{2,3} , Sugawara S ² ('Div Oral Diag, Tohoku Univ Grad Sch Dent, ² Div Oral Immunol, Tohoku Univ Grad Sch Dent, ³ Div Ped Dent, Tohoku Univ Grad Sch Dent)
P1-110	Development of oral indigenous microbiota and factors associated with its maturation in early childhood ○Asakawa M, Takeshita T, Kageyama S, Yamashita Y (Sect Prevent Dent Public Health, Kyushu Univ Grad Sch Dent)
P1-111	Salivary microbiome reflects the severity of periodontitis ○Kageyama S, Takeshita T, Asakawa M, Shibata Y, Yamashita Y (Sect Prevent Dent Public Health, Kyushu Univ Grad Sch Dent)
P1-112	Analyses of locally recruiting T cells in the oral mucosa inflammation ○Hirunwidchayarat W, Ohno T, Kang SW, Nagai S, Azuma M (Div Mol Immunol, Tokyo Med Dent Univ Grad Sch Med Dent Sci)
P1-113	Analysis of effective component produced by oral probiotic candidates against <i>C. albicans</i> ○Kojima Y, Ohshima T, Kawai T, Maeda N (Dept Oral Microbiol, Tsurumi Univ Sch Dent Med)
P1-114	Quantification of mutans streptococci in children's plaques and its relationship to the caries prevalence ○Makinae T ¹ , Shimoyama Y ² , Tanaka M ¹ , Ishikawa T ² , Kodama Y ² , Sasaki M ² , Ohara-Nemoto Y ³ , Nemoto T ³ , Kimura S ⁴ ('Div Pediatr Dent, Iwate Med Univ, ² Div Mol Microbiol, Iwate Med Univ, ³ Dept Oral Mol Biol, Nagasaki Univ Grad Sch Biomed Sci, ⁴ Dept Oral Hygiene, Kansai Women's Coll)
P1-115	Rat subcutaneous tissue reaction to bioabsorbable suture thread ○Nakayasu Y ¹ , Matsuda S ¹ , Shoumura M ² , Osuga N ² , Kawakami T ¹ ('Hard Tissue Pathol, Matsumoto Dent Univ Grad Sch, ² Oral Health Anal, Matsumoto Dent Univ Grad Sch)
P1-116	Intercellular crosstalk defined by exosomes from oral squamous carcinoma cells determines its pathological process ○Morioka M ^{1,2} , Kawakubo-Yasukochi T ² , Nakamura S ¹ ('Sect Oral Maxillofac Oncol, Kyushu Univ Grad Sch Dent, ² Dept Immun Mol, Fukuoka Univ Fac Pharm Sci)
P1-117	Expression and function of kallikrein-related peptidase 6 in oral squamous cell carcinoma ○Kaneko N, Kawano S, Hashiguchi Y, Nakamura S (Sect Oral Maxillofac Surg, Kyushu Univ Grad Sch Dent)
P1-118	Melanin pigmentation of odontogenic tumor ○Isomura M ¹ , Sato N ¹ , Kawai R ¹ , Jinno M ¹ , Honda Y ¹ , Torii Y ¹ , Yoshida W ^{1,2} , Sugita Y ^{1,2} , Kubo K ^{1,2} , Maeda H ^{1,2} ('Div Oral Pathol, Aichi-Gakuin Univ Sch Dent, ² Res Inst of Adv Oral Sci, Aichi-Gakuin Univ Sch Dent)
P1-119	Effect of cognitive impairment on the metabolic profile of saliva of mice ○To M ¹ , Sugimoto M ^{2,3} , Saruta J ⁴ , Yamamoto Y ⁵ , Matsuo M ¹ , Tsukinoki K ² ('Div Dent Anat, Dept Oral Sci, Kanagawa Dent Univ Grad Sch Dent, ² Div Environ Pathol, Dept Oral Sci, Kanagawa Dent Univ Grad Sch Dent, ³ Inst Adv Biosci, Keio Univ, ⁴ Div Saliva Heal Med, Dept Oral Sci, Kanagawa Dent Univ Grad Sch Dent, ⁵ Dept Hygiene Kanagawa Dent Univ Sch Dent Junior Coll)
P1-120	Analysis of TRP channels in human oral squamous cell carcinoma ○Aijima R ^{1,2} , Yoshimoto R ³ , Cao AL ^{1,4} , Mori K ² , Zhang JQ ⁴ , Ohsaki Y ⁴ , Danjo A ² , Yamashita Y ² , Kiyoshima T ³ , Kido M ¹ ('Div Histol & Neuroana, Fac Med, Saga Univ, ² Dept Oral & Maxillofac Surg, Fac Med, Saga Univ, ³ Sect Oral Pathol, Kyushu Univ Grad Sch Dent, ⁴ Sect Mol Cell Biol Oral Anat, Kyushu Univ Grad Sch Dent)
P1-121	Is chemokine CXCL14, a multi-step tumor suppressor, a differentiation regulator of squamous epithelial cells ? ○Ikoma T ¹ , Yang X ^{2,3} , Ozawa S ¹ , Maezawa Y ² , Hata R ^{2,3} ('Dept Oral Maxillofac Surg, Grad Sch Dent, Kanagawa Dent Univ, ² Dept Oral Sci, Grad Sch Dent, Kanagawa Dent Univ, ³ Oral Health Sci Res Center, Grad Sch Dent, Kanagawa Dent Univ)
P1-122	Ubiquitin proteasome pathway regulates Borealin stability and its significance ○Tsunematsu T, Kudo Y, Yamada A, Arakaki R, Ishimaru N (Dept Oral Mol Pathol, Tokushima Univ Grad Sch Inst Biomed Sci)
P1-123	Expression and function of microRNA-205 in oral squamous cell carcinoma ○Hashiguchi Y, Kawano S, Kaneko N, Nakamura S (Sect Oral Maxillofac Oncol, Kyushu Univ Grad Sch Dent)
P1-124	Key roles of TLR2 in NASH pathological progression by <i>P.gingivalis</i> odontogenic infection ○Furusho H, Nagasaki A, Miyauchi M, Takata T (Dept Oral Maxillofac Pathobiol, Hiroshima Univ Inst Biomed Health Sci)
P1-125	Inhibitor of Gli (GANT61) induces apoptosis in oral squamous cell carcinoma ○Mikami Y ¹ , Nagata K ² , Wada H ² , Fujii S ² , Abe M ³ , Yoshimoto R ² , Kiyoshima T ² , Nakamura S ¹ ('Sect Oral Maxillofac Oncol, Kyushu Univ Grad Sch Dent, ² Sect Oral Pathol, Kyushu Univ Grad Sch Dent, ³ Sect Oral Maxillofac Surg, Kyushu Univ Grad Sch Dent)
P1-126	Aberrant DNA methylations in gingival epithelial cells stimulated with arecoline ○Adhikari B ¹ , Uehara O ² , Shimizu A ¹ , Hiraki D ¹ , Morikawa T ¹ , Neopane P ¹ , Takai R ³ , Sato J ¹ , Nishimura M ¹ , Abiko Y ¹ ('Div Oral Med Pathol, Health Sci Univ Hokkaido Sch Dent, ² Div Dis Control Mol Epidemiol, Health Sci Univ Hokkaido Sch Dent, ³ Div Pediatr Dent, Health Sci Univ Hokkaido Sch Dent)
P1-127	Upregulated expressions of stem cell markers in Epithelial cell rests of Malassez stimulated with epigenetic agents ○Yoshida K ¹ , Morikawa T ¹ , Adhikari B ¹ , Harada F ¹ , Chujo T ¹ , Uehara O ² , Sato J ¹ , Nishimura M ¹ , Saitoh M ³ , Abiko Y ¹ ('Div Oral Med Pathol, Health Sci Univ Hokkaido Sch Dent, ² Div Dis Control Mol Epidemiol, Health Sci Univ Hokkaido Sch Dent, ³ Div Pediatr Dent, Health Sci Univ Hokkaido Sch Dent)

P1-128	17 α -estradiol prevents GABA functional switch to excitatory via regulating GPR30-SPAK-KCC2 signaling ○Tsukahara T ¹ , Furukawa M ² , Sato T ¹ ('Dept Appl Pharmacol, Kagoshima Univ Grad Sch Med Dent Sci, ² Dept Orthodont, Kagoshima Univ Grad Sch Med Dent Sci)
P1-129	Elucidation of the role of Nr4a1 in drug induced gingival overgrowth ○Okanobu A, Matsuda S, Kajiya M, Fujita T, Kurihara H (Dept Periodontal Med, Hiroshima Univ Inst Biomed Health Sci)
P1-130	Prolonged survival and improved bone structure of lethal hypophosphatasia model mice by rAAV-mediated high dose expression of alkaline phosphatase ○Takahashi A ^{1,3} , Ikeue R ² , Hirai Y ³ , Kasahara M ¹ ('Dept Pharmacol, Tokyo Dent Coll, ² Dept Crown Bridge Prosthodont, Tokyo Dent Coll, ³ Dept Biochem Mol Biol, Nippon Med Sch)
P1-131	The effects of etidronate on human bone-type alkaline phosphatase activity activated by Mg, Ca or Zn ○Shimada H ¹ , Suzuki K ² , Yoshimura Y ² , Minamikawa H ² , Yamazaki Y ² ('Dept Gerodont, Hokkaido Univ Grad Sch Dent Med, ² Dept Mol Cell Pharmacol, Hokkaido Univ Grad Sch Dent Med)
P1-132	The role of cathepsin S in Th17 cell differentiation by <i>Porphyromonas gingivalis</i> lipopolysaccharide ○Dekita M ^{1,2} , Wu Z ² , Nakanishi H ² , Takahashi I ¹ ('Sect Orthod Dentofac Orthop, Kyushu Univ Grad Sch Dent, ² Sect Aging Sci Pharmacol, Kyushu Univ Grad Sch Dent)
P1-133	Mechanism of tumor suppression by sonoporation: Synergistic effects of antibody-conjugated microbubble and ultrasound in oral cell carcinoma ○Hirabayashi F ^{1,2} , Iwanaga K ² , Okinaga T ¹ , Ariyoshi W ¹ , Nishihara T ¹ ('Div Infect Mol Biol, Kyushu Dent Univ, ² Div Oral Maxillofac Surg, Kyushu Dent Univ)
P1-134	Osteoclast differentiation is directly downregulated by lactoferrin ○Yoshimura Y ¹ , Kato H ^{1,2} , Minamikawa H ¹ , Suzuki K ¹ , Yamazaki Y ² ('Dept Mol Cell Pharmacol, Hokkaido Univ Grad Sch Dent Med, ² Dept Gerodont, Hokkaido Univ Grad Sch Dent Med)
P1-135	Effects of remifentanil on internal carotid artery blood flow and oral tissue blood flow during sevoflurane anesthesia in rabbits ○Hirata A ¹ , Kasahara M ² , Ichinohe T ³ ('Dept Dent Anesthesiol, Tokyo Dent Coll Grad Sch Dent, ² Dept Pharmacol, Tokyo Dent Coll, ³ Dept Dent Anesthesiol, Tokyo Dent Coll)
P1-136	Effects of recombinant human amelogenin on the differentiation of rat ameloblast cells and mouse osteoblastic cells ○Takahashi A ¹ , Morita T ² , Murata K ¹ , Saitoh M ¹ , Tanimura A ² ('Div Pediatr Dent, Health Sci Univ Hokkaido Sch Dent, ² Div Pharmacol, Health Sci Univ Hokkaido Sch Dent)
P1-137	Search for new pain control material for orthodontic treatment-induced pain ○Hasegawa N ¹ , Sasaki A ¹ , Tsuchiya T ¹ , Sakagami H ² , Adachi K ² , Suda N ¹ ('Div Orthod Dept Human Dev Foster, Meikai Univ Sch Dent, ² Div Pharmacol Dept Diagn Ther Sci, Meikai Univ Sch Dent)
P1-138	Analysis of the calcium responses in differentiation and migration of rat dental epithelial cells ○Murata K ¹ , Fukumoto S ³ , Morita T ² , Takahashi A ¹ , Saitoh M ¹ , Tanimura A ² ('Div Pediatr Dent, Health Sci Univ Hokkaido Sch Dent, ² Div Pharmacol, Health Sci Univ Hokkaido, Sch Dent, ³ Div Pediatr Dent, Dept Oral Health Dev Sci, Tohoku Univ Grad Sch Dent)
P1-139	Filaggrin expression and degradation process in the skin and the oral mucosa ○Arita S ¹ , Hatta M ² , Ryu T ¹ , Sakagami R ¹ , Yamazaki J ² ('Div Periodontol, Fukuoka Dent Coll, ² Div Cell Mol Regul, Fukuoka Dent Coll)
P1-140	Injection of RANKL-binding peptide OP3-4 promotes BMP-2-induced maxilla augmentation in mice ○Uehara T ¹ , Tamura Y ² , Miyashin M ¹ , Aoki K ² ('Div Pediatr Dent, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ² Div Pharmacol, Tokyo Med Dent Univ Grad Sch Med Dent Sci)
P1-141	The effectiveness of Pilocarpine for dry mouth patients –long-term medication for human and mouse – ○Ono H, Ikai K, Sakai T (Dept Oral-Facial Disorders, Osaka Univ Grad Sch Dent)
PS-1	Three-dimensional analysis of arrangement and connections of mouse mesencephalic trigeminal neurons using brain-clearing techniques ○Yamaguchi R ¹ , Yoshimura N ¹ , Sendo R ^{1,2} , Kuramoto E ¹ , Iwai H ¹ , Yamanaka A ¹ , Toyodome S ^{1,2} , Goto T ¹ ('Dept Anat Oral Sci, Kagoshima Univ Grad Sch Med Dent Sci, ² Dept Dent Anesthesiol, Grad Sch Med Dent Sci, Kagoshima Univ, ³ Dept Oral Maxillofac Surg, Grad Sch Med Dent Sci, Kagoshima Univ)
PS-2	<i>Fusobacterium nucleatum</i> -induced production of neutrophil extracellular traps by human neutrophils ○Numazaki K ¹ , Nishioka T ² , Matsushita K ³ , Tada H ¹ ('Div Oral Microbiol, Tohoku Univ Grad Sch Dent, ² Div Oral Diag, Tohoku Univ Grad Sch Dent, ³ Dept Oral Dis Res, NCGG)
PS-3	The Zn ⁺⁺ level in saliva and relationship with other saliva markers of healthy subjects ○Hata F ¹ , Katsuragi H ² ('Nippon Dent Univ at Niigata, ² Dept Microbiol, Nippon Dent Univ at Niigata)
PS-4	Induction of a subtilisin-like proprotein convertase PACE4 in regeneration model of salivary gland -Part II- ○Shimatani T ^{1,2} , Minegishi M ^{1,3} , Akamatsu T ^{1,4} , Yao C ¹ , Hasegawa T ¹ , Yoshimura H ¹ ('Dept Mol Oral Physiol, Inst Biomed Sci, Tokushima Univ Grad Sch, ² 4th grade, Fac Dent, Tokushima Univ, ³ 6th grade, Fac Dent, Tokushima Univ, ⁴ Field Biomol Func & Technol, Grad Sch Biosci & Bioind, Tokushima Univ)
PS-5	Inhibitory effect of local anesthetics on the muscarinic receptor-mediated Ca ²⁺ responses in HSY human salivary cell line ○Shimatani M, Iwata A, Nezu A, Tanimura A (Div Pharmacol, Health Sci Univ Hokkaido Sch Dent)
PS-6	Visualization of the three-dimensional structures of teeth and periodontal tissues with new tissue clearing technology ○Seki Y, Ishida N, Tanimura A (Div Pharmacol, Health Sci Univ Hokkaido Sch Dent)
PS-7	Histochemical examination on mandibular periodontal tissues of obese type II diabetic SDT fatty rats ○Yoshida T ¹ , Hongo H ² , Tsuoboi K ² , Hasegawa T ² , Amizuka N ² ('Hokkaido Univ Sch Dent Med, ² Dept Dev Biol Hard Tissue, Hokkaido Univ Grad Sch Dent Med)

PS-8	Binding ability of TGF- β receptors and amelogenin-TGF- β complex in porcine immature enamel ○Noda C ¹ , Fujinami S ¹ , Yamamoto R ² , Kobayashi S ³ , Oida S ² , Yamakoshi Y ² ('4th grade, Tsurumi Univ Sch Dent Med, ² Dept Biochem Mol Biol, Tsurumi Univ Sch Dent Med, ³ Dept Ped Dent, Tsurumi Univ Sch Dent Med)
PS-9	Quantitative analysis of Hey1 and Hey2 gene expression during mouse tooth development ○Kibe K ¹ , Nakatomi M ² , Kataoka S ² , Toyono T ² , Seta Y ² ('5th grade, Kyushu Dent Univ, ² Div Anat, Kyushu Dent Univ)
PS-10	Ultrastructural assessment on osteocytes in c-fos deficient mice ○Abe M ¹ , Hasegawa T ² , Yamamoto T ² , Tsuchiya E ² , Udagawa N ³ , Amizuka N ² ('Sch Dent Med, Hokkaido Univ, ² Dept Dev Biol Hard Tissue, Hokkaido Univ, ³ Dept Oral Biochem, Sch Dent, Matsumoto Dent Univ)
PS-11	"Social" jet lag in mice ○Nakanishi Y ^{1,2} , Kusano S ^{1,2} , Takasu N ^{2,3} , Nakamura W ² ('Dept Dent, Osaka Univ, ² Lab Oral Chronobiol, Osaka Univ Grad Sch Dent, ³ JSPS (RPD))
PS-12	Early night exposure to lights causes "social" jet-lag ○Kusano S ^{1,2} , Nakanishi Y ^{1,2} , Takasu N ^{2,3} , Nakamura W ² ('Dept Dent, Osaka Univ, ² Lab Oral Chronobiol Osaka Univ Grad Sch Dent, ³ JSPS (RPD))
PS-13	Effect of serum-free/xeno free media on human dental pulp cells ○Kato M ¹ , Otani K ² , Hamamura K ³ , Honda M ¹ ('Div Oral Anat, Aichi-Gakuin Univ Sch Dent, ² Adv Center for Tissue Engineering Ltd, ³ Div Pharmacol, Aichi-Gakuin Univ Sch Dent)

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P2-1	Relationship between the mylohyoid and the vein distribution in the antero-lingual region of the mandible ○Sakiyama K, Bando Y, Komine Y, Miyake G, Taira F, Sakashita H, Amano O (Div Anat, Meikai Univ Sch Dent)
P2-2	Influence of hearing organ size on masseter architecture ~A case study in two desert rodents~ ○Satoh K, Yano W, Watanabe R, Ejiri S (Dept Oral Anat, Asahi Univ Sch Dent)
P2-3	Expression of Tenomodulin at embryonic and early postnatal mouse masticatory muscle ○Sato I, Miwa Y, Azuma Y, Sunohara M (Dept Anat, Nippon Dent Univ Sch Life Dent at Tokyo)
P2-4	Newborn and embryo mice exposed prenatally to ethanol show abnormal behavior and morphological defects caused from abnormal activity of microglia in neocortex ○Komada M ¹ , Nagao T ² , Ikeda Y ¹ ('Dev Anat, Aichi-Gakuin Univ Sch Dent, ² Dept Life Sci Fac Sci Engineering, Kinki Univ)
P2-5	A novel transgenic mice explains pleiotropic congenital cardiac defects of TRPS patients ○Nomir A ^{1,2} , Takeuchi Y ^{1,3} , Fujikawa J ^{1,4} , Abe M ¹ , Wakisaka S ¹ ('Dept Oral Anat Dev Biol, Osaka Univ Grad Sch Dent, ² Dept Anat Embryo, Fac Vet Med, Damanhour Univ, ³ Dept Orthodont, Osaka Univ Grad Sch Dent, ⁴ Div Spec Needs Dent, Osaka Univ Dent Hosp)
P2-6	Sexual dimorphism of the maxillary first premolar sizes in Fijian population ○Sasaki K, Kondo S (Dept Anat, Nihon Univ Sch Dent at Matsudo)
P2-7	Guaiacol shows analgesic effect by acting in rat trigeminal ganglion neurons ○Shimada M, Kimura M, Sato M, Higashikawa A, Kojima Y, Tazaki M, Shibukawa Y (Dept Physiol, Tokyo Dent Coll)
P2-8	Cloning of immortal porcine pulp cells and BMP2- and TGF β -induced odontoblastic differentiation ○Karakida T, Oida S, Yamamoto R, Saito M, Yamakoshi Y (Dept Biochem Mol Biol, Tsurumi Univ Sch Dent Med)
P2-9	The developmental studies on the differentiation into the odontoblasts as sensory receptor ○Tanaka A, Shibukawa Y, Ishikawa N, Tazaki M, Yamamoto H, Shintani S (Dept Pediatr Dent, Tokyo Dent Coll)
P2-10	Detection of AGEs crosslinks in dentin collagen ○Shimizu M, Miura J (Div Interdisci Dent, Osaka Univ Grad Sch Dent)
P2-11	Immunohistochemical localization of enamel matrix protein-like proteins in tooth enameloid of spotted gars, Lepisosteus oculatus, a bony fish ○Sasagawa I ¹ , Yokusuka H ² , Ishiyama M ² , Mikami M ³ ('Adv Res Cent, Nippon Dent Univ at Niigata, ² Dept Histol, Nippon Dent Univ at Niigata, ³ Dept Microbiol, Nippon Dent Univ at Niigata)
P2-12	Characterization of neural crest cells derived from human induced pluripotent stem cells ○Toriumi T ¹ , Kawano E ² , Isokawa K ¹ , Honda M ³ ('Dept Anat, Nihon Univ Sch Dent, ² Nihon Univ Grad Sch Dent, ³ Div Oral Anat, Aichi-Gakuin Univ Sch Dent)
P2-13	Effect of the occlusal stimuli on osteoclastogenesis induced by periodontal ligament cells ○Takahashi T, Takita H, Ushijima N, Iizuka T (Support Sect Educ Res, Hokkaido Univ Grad Sch Dent Med)
P2-14	Effects of dyslipidemia on osteoclastogenesis ○Ohgi K ¹ , Kajiya H ² , Okamoto F ² , Sakagami R ¹ , Okabe K ² ('Dept Odontol, Fukuoka Dent Coll, ² Dept Physiol Sci Mol Biol, Fukuoka Dent Coll)
P2-15	Synthetic oligopeptide kinetics in porous calcium materials ○Tominaga K ¹ , Takeuchi T ² , Honda S ² , Okamura T ¹ , Wato M ¹ , Nishikawa T ³ , Tanaka A ¹ ('Dept Oral Pathol, Osaka Dent Univ, ² Pathol, Osaka Dent Univ Grad Sch Dent, ³ Inno Dent Edu Osaka Dent Univ)
P2-16	Relationships between the expression of SDF-1 and CXCR4 in the periodontal tissues using hyperocclusion model mice ○Goto K ¹ , Kajiya H ² , Tsutsumi T ³ , Okabe K ² ('Dept Dent Hygiene, Fukuoka Coll of Health Sci, ² Div Cell Physiol, Fukuoka Dent Coll, ³ Div Removal Prosthodont, Fukuoka Dent Coll)

P2-17	Microvascular changes of alveolar bone after application of advanced platelet-rich fibrin (A-PRF) ○Matsuo M, Okudera T, Yamamoto R, Tou M (Dept Oral Sci, Div Dent Anat, Kanagawa Dent Univ Grad Sch Dent)
P2-18	Histological study of alveolar bone regeneration after application of advanced platelet-rich fibrin (A-PRF) ○Okudera T ¹ , Tou M ¹ , Miyoshi Y ² , Takagaki-Mikuni Y ² , Yamamoto R ¹ , Matsuo M ¹ (¹ Dept Oral Sci, Div Dent Anat, Kanagawa Dent Univ Grad Sch Dent, ² Dept Oral Sci, Kanagawa Dent Univ Grad Sch Dent)
P2-19	Effect of Er:YAG laser irradiation for TGF- β in cultured human periodontal ligament cells ○Kobayashi K ¹ , Niwa T ² , Yamakawa S ³ , Saito M ⁴ , Yamamoto R ⁴ , Yamakoshi Y ⁴ (¹ Dept Dent Hyg, Tsurumi Jr Coll, ² Dept Periodont, Tsurumi Univ, Sch Dent Med, ³ Dept Endodont, Tsurumi Univ, Sch Dent Med, ⁴ Dept Biochem Mol Biol, Tsurumi Univ Sch Dent Med)
P2-20	Sodium-dependent phosphate cotransporters, Pit-1 and Pit-2, are essential in the calcification by human periodontal ligament cell ○Ishikawa M ¹ , Itohiya K ² , Takano Y ² , Nakamura Y ² , Shimoda S ¹ (¹ Dept Oral Anat, Tsurumi Univ Sch Dent Med, ² Dept Orthodont, Tsurumi Univ Sch Dent Med)
P2-21	Study of optimal concentration in the experiments with S-PRG filler eluate to human gingival fibroblasts ○Inoue H ¹ , Goda S ² , Nishikawa Y ¹ (¹ Dept Physiol, Osaka Dent Univ, ² Dept Oral Sci, Kanagawa Dent Univ Grad Sch Dent)
P2-22	The detection of oxytalan fiber produced human periodontal ligament cells using wheat germ agglutinin ○Kamogashira N ¹ , Fujita T ¹ , Nakashima K ¹ , Matsuda Y ¹ , Hatakeyama J ³ , Hatakeyama Y ² , Sawa Y ² , Ishikawa H ¹ (¹ Div Orthodont, Fukuoka Dent Coll, ² Div Funct Struct, Fukuoka Dent Coll, ³ Div Oper Dent Endod, Fukuoka Dent Coll)
P2-23	Functional analysis of transcriptional co-factor YAP during salivary gland development in mice ○Kitagawa M, Hirono C, Sugita M (Dept Oral Physiol, Hiroshima Univ Inst Biomed Health Sci)
P2-24	EGF/ErbB/ERK1/2 signaling regulates branching morphogenesis of submandibular gland rudiment through activation of Shh/Ptch/Gli signaling system ○Mizukoshi K, Koyama N, Kashimata M (Dept Dent Pharmacol, Asahi Univ Sch Dent)
P2-25	Cdc42-PAK pathway contributes to maintain tubular organs ○Shitara A (LCMB, CCR, NCI, NIH)
P2-26	The functional analysis of the pillar cells in granular ducts of mouse submandibular glands ○Nonaka N, Nakamura M (Dept Oral Anat Dev Biol, Showa Univ Sch Dent)
P2-27	Sexual difference in regeneration of salivary gland ○Akamatsu T ^{1,2} , Yao C ¹ , Hasegawa T ¹ , Yoshimura H ¹ (¹ Dept Mol Oral Physiol, Inst Biomed Sci, Tokushima Univ Grad Sch Inst Biomed Sci, ² Field Biomol Func & Technol, Grad Sch Biosci & Bioind, Tokushima Univ)
P2-28	Interaction between injury side and non-injury side in salivary gland ○Yokoyama M, Katsumata-Kato O, Fujita-Yoshigaki J (Dept Physiol, Nihon Univ Sch Dent at Matsudo)
P2-29	Regulation of microRNAs in mouse salivary glands: a putative bio-marker of stress-dependent diseases under partial androgen deficiency in aging males (PADAM) ○Kurihara K, Muramoto K (Div Physiol, Meikai Univ Sch Dent)
P2-30	Enhancement of salivary secretions and changes of gene expression by previous administration of pilocarpine ○Morita T, Nezu A, Tanimura A (Div Pharmacol, Health Sci Univ Hokkaido Sch Dent)
P2-31	Effects of liquid diet on acinar cells in submandibular and sublingual glands of growing rats ○Takahashi S ¹ , Uekita H ² , Taniwaki H ¹ , Inoue K ¹ , Domon T ¹ (¹ Dept Oral Functional Anat, Hokkaido Univ Grad Sch Dent Med, ² Dept Crown Bridge Prosthodont, Hokkaido Univ Grad Sch Dent Med)
P2-32	The daily variation of umami-induced salivation in minor salivary glands ○Furuyama A, Ohsuga K, Kawai H (Div Oral Func Mol Biol, Ohu Univ Sch Dent)
P2-33	Analyses of gene expression in SNARE-gene knockout HAP1 cells ○Arakawa T ¹ , Hosiriluck N ^{1,2} , Okayama M ² , Mizoguchi I ² , Takuma T ¹ (¹ Div Biochem, Health Sci Univ Hokkaido Sch Dent, ² Div Orthod Dentofac Orthop, Health Sci Univ Hokkaido Sch Dent)
P2-34	The salivary IgA flow rate is increased by high concentrations of short-chain fatty acids in the cecum of rats ingesting fructooligosaccharide ○Yamamoto Y ¹ , To M ² , Saruta J ² , Tsukinoki K ² (¹ Dept Dent Hygiene, Kanagawa Dent Univ, Jr Coll, ² Dept Oral Sci, Kanagawa Dent Univ Grad Sch Dent)
P2-35	Effects of peptidoglycan binding to salivary histatin on Toll-like receptor 2 signaling ○Imamura Y ¹ , Wang PL ² , Sogawa N ¹ (¹ Dept Dent Pharmacol, Matsumoto Dent Univ, ² Dept Bacteriol, Osaka Dent Univ)
P2-36	2D-PAGE analysis of saliva from non-obese diabetic (NOD) mice and human subjects ○Sato R ^{1,2} , Nashida T ² , Mizuhashi F ³ , Yoshimura K ⁴ , Shimomura-Kuroki J ⁵ (¹ Nippon Dent Univ Coll at Niigata, ² Dept Biochem, Nippon Dent Univ at Niigata, ³ Dept Remov Prosthodont, Nippon Dent Univ at Niigata, ⁴ Dept Anat, Nippon Dent Univ at Niigata, ⁵ Dept Pediatr Dent, Nippon Dent Univ at Niigata)
P2-37	LC-MS analysis of lipid component between mature and immature secretory granules in the rat parotid gland ○Kato O, Yokoyama M, Yoshigaki J (Dept Physiol, Nihon Univ Sch Dent at Matsudo)
P2-38	pH monitoring of oral saliva during sleep ○Nakamura A, Watanabe T, Nakamura N, Sasabe T, Watanabe K, Watanabe S (Div Oral Pediatr, Meikai Univ Sch Dent)
P2-39	Morphology of lymphatic vasculature in the craniofacial region of embryonic mice ○Taya Y, Shirako Y, Sato K, Soeno Y (Dept Pathol, Nippon Dent Univ Sch Life Dent at Tokyo)

P2-40	A study on the difference of fusion and merging of facial processes in the maxillofacial morphogenesis of mouse embryos ○Sugiyama A, Takigawa T, Kawano Y (Dept Oral Anat, Div Oral Struct, Funct Dev, Asahi Univ Sch Dent)
P2-41	The effect of constitutive activation of BMP signaling in neural crest cells during craniofacial development ○Toda M, Oka K, Ozaki M (Sect Pediatr Dent, Dept Oral Growth Dev, Fukuoka Dent Coll)
P2-42	Chondroitin sulfate regulates the craniofacial morphogenesis ○Olda-Yonemochi H ¹ , Morita W ² , Shibata S ³ , Ohshima H ¹ ('Div Anat Cell Biol Hard Tissue, Niigata Univ Grad Sch Med Dent, ² Dept Oral Func Anat, Hokkaido Univ Grad Sch Dent Med, ³ Div Maxillofac Anat, Tokyo Med Dent Univ Grad Sch Med Dent Sci)
P2-43	The contribution of the overlapping layer of ectoderm and endoderm to the developmental initiation of craniofacial organs in rat embryos ○Imai H ¹ , Suzuki R ² ('Div Biol, Ohu Univ Sch Dent, ² Div Dent Pharmacol, Ohu Univ Sch Dent) Shh signaling during patterning of the murine tongue ○Okuhara S, Iseki S (Div Mol Craniofac Embryol, Tokyo Med and Dent Univ Grad Sch Med Dent Sci)
P2-44	Analysis of cell cycle related genes, differentiation potential and proliferation in dental pulp stem cell clones ○Kobayashi T, Torii D, Tsutsui T (Dept Pharmacol, Nippon Dent Univ Sch Life Dent at Tokyo)
P2-45	Characterization of dental pulp stem cells isolated from a patient diagnosed as Crouzon syndrome ○Torii D, Matsui M, Kobayashi T, Tsutsui T (Dept Pharmacol, Nippon Dent Univ Sch Life Dent at Tokyo)
P2-46	The regulatory mechanism of <i>Nestin</i> gene expression in mouse odontoblasts ○Nakatomi M ¹ , Quispe-Salcedo A ² , Ida-Yonemochi H ² , Ohshima H ² ('Div Anat, Kyushu Dent Univ, ² Div Anat Cell Biol Hard Tissue, Niigata Univ Grad Sch Med Dent Sci)
P2-47	Bone marrow-derived mesenchymal stem cells are differentiated into chondrocyte-like cells by forming spheroids <i>in vitro</i> ○Nakatsuka M ¹ , Hosoya A ² , Kumabe S ¹ , Tamura I ¹ ('Dept Oral Anat, Osaka Dent Univ, ² Dept Oral Histol, Matsumoto Dent Univ)
P2-48	Effect of the functional appliance on the condyle growth in rats ○Jue SS ¹ , Kim JY ² , Owtad P ³ , Park J ³ , Shin JW ¹ ('Dept Oral Anat, Sch Dent, Kyung Hee Univ, ² Dept Dent Hygiene, Coll of Health Sci, Gachon Univ)
P2-49	Osteonectin inhibits adipocyte differentiation by suppressing AP-1 transcriptional activity ○Maeda T, Suzuki A, Kato Y (Div Oral Func Mol Biol, Ohu Univ Sch Dent)
P2-50	Evaluation of the proliferative effect of cuttlefish bone powder on osteoblasts ○Korsuwanawong S (Res Off, Fac Dent, Mahidol Univ)
P2-51	Volume of newly formed microvasculature in interspaces of bone substitute granules ○Toda I, Ohnishi Y, Uemura M, Kawashima W, Takemura A (Dept Anat, Osaka Dent Univ)
P2-52	Beneficial health effects of phytochemicals: Stimulatory effect of petunidin on osteoblast differentiation and mineralization ○Maeda T ¹ , Nagaoka M ² , Suzuki A ¹ , Kato Y ¹ , Suzuki K ² ('Div Oral Func Mol Biol, Ohu Univ Sch Dent, ² Div Dent Pharmacol, Ohu Univ Sch Dent)
P2-53	Krüppel-like factor 4 knock out mouse exhibits craniofacial and appendicular skeletal defects ○Fujikawa J ^{1,2} , Nomir A ¹ , Takeuchi Y ¹ , Kito A ^{1,2} , Abe M ¹ , Wakisaka S ¹ ('Dept Oral Anat Dev Biol, Osaka Univ Grad Sch Dent, ² Div Spec Needs Dent, Osaka Univ Grad Sch Dent)
P2-54	Expression and role of chromogranin A in mesenchymal stem cells ○Sadaoka S ¹ , Yagami K ² , Kawahara I ^{1,2} ('Dept Oral Health, Matsumoto Dent Univ, ² Dept Health Promotion Stomatol, Matsumoto Dent Univ Grad Sch Dent)
P2-55	Chronological changes on the localization of FGF23-synthesizing cells in murine bone ○Sakurai A ^{1,2} , Hasegawa T ² , Yamamoto T ² , Sano H ¹ , Amizuka N ² ('Dept Restor Dent, Hokkaido Univ Grad Sch Dent Med, ² Dept Dev Biol Hard Tissue, Hokkaido Univ Grad Sch Dent Med)
P2-56	Sphingomyelin synthase 2 siRNA regulates osteoblast functions ○Yoshikawa Y, Domae E, Kamada A, Ikeo T (Dept Biochem, Osaka Dent Univ)
P2-57	Effects of transcription factor EB (TFEB) during osteoblast differentiation ○Okamoto K, Sakai E, Nishishita K, Tsukuba T (Dept Dent Pharmacol, Nagasaki Univ Grad Sch Biomed Sci)
P2-58	Effects of Complement C1q on bone remodeling ○Aonuma F ¹ , Higashi S ² , Ohsumi T ² , Hosokawa R ¹ , Takeuchi H ² ('Div Oral Reconstr Rehabil, Kyushu Dent Univ, ² Div Appl Pharmacol, Kyushu Dent Univ)
P2-59	Localization of Sorcin, Ca2+ binding protein, in the bone tissues ○Kawai M, Ohura K (Dept Pharmacol, Osaka Dent Univ)
P2-60	Mechanisms inducing morphological changes and growth arrest of septoclasts by excess or deficiency of retinoic acids ○Bando Y, Sakashita H, Sakiyama K, Amano O (Div Anat, Meikai Univ Sch Dent)
P2-61	Effects of anti-RANKL antibody on the bone metabolism of young mice ○Karakawa A ¹ , Isawa M ^{1,2} , Kiyohara S ^{1,3} , Sakai N ¹ , Takami M ¹ ('Dept Pharmacol, Showa Univ Sch Dent, ² Dept Pediatr Dent, Showa Univ Sch Dent, ³ Dept Implant Dent, Showa Univ Sch Dent)
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P2-63	The effect of lack of osteoclasts to the site-specific disappearance style of Meckel's cartilage ○Inoue K (Dept Oral Functional Anat, Hokkaido Univ Grad Sch Dent Med)
P2-64	Nicorandil inhibits osteoclast differentiation <i>in vitro</i> ○Iwaki F, Amano H, Ohura K (Dept Pharmacol, Osaka Dent Univ)
P2-65	Ultrastructural study of the cell fusion and cytokinesis during osteoclasts formation ○Zhang JQ ¹ , Shiratori T ^{1,2} , Kukita A ³ , Yamaza T ¹ , Kukita T ¹ ('Sect Mol Cell Biol Oral Anat, Kyushu Univ Grad Sch Dent, ² Sect Implant Rehabil Dent, Kyushu Univ Grad Sch Dent, ³ Dept Microbiol, Saga Univ Fac Med)
P2-66	The N-terminal fragment of fibronect binds to CD13 of osteoclast progenitor and enhances osteoclastogenesis ○Amano S, Ohmori Y (Dept Oral Biol Tissue Eng, Meikai Univ Sch Dent)
P2-67	Kelch-like ECH-associated protein 1 (Keap1) gene deletion inhibits osteoclast differentiation via up-regulation of interferon regulatory factor-8 (Irf8) ○Sakai E, Fukuma Y, Nishishita K, Okamoto K, Tsukuba T (Dept Dent Pharmacol, Nagasaki Univ Grad Sch Biomed Sci)
P2-68	Three-dimensional structure and distribution of Golgi complexes in osteoclasts observed by scanning electron microscopy using an osmium-maceration method ○Yamamoto T, Tsuboi K, Hasegawa T, Hongo H, Amizuka N (Dept Dev Biol Hard Tissue, Hokkaido Univ Grad Sch Dent Med)
P2-69	Pam ₃ CSK ₄ , a tri-acylated lipopeptide, induces osteoclastogenesis RANK/RANKL-independently and resorbs calvarial bone <i>in vivo</i> through Toll-like receptor 2 ○Suzuki K ^{1,2} , Arimoto T ³ , Nagaoka M ¹ , Kuwata H ³ , Shinoda H ⁴ ('Div Dent Pharmacol, Ohu Univ Sch Dent, ² Dept Pharmacol, Showa Univ Sch Dent, ³ Dept Oral Microbiol & Immunol, Showa Univ Sch Dent, ⁴ Ctr Environ Dent, Tohoku Univ Grad Sch Dent)
P2-70	Mechanism of action of CCN2-binding protein CD302 on osteoclast maturation ○Aoyama E ¹ , Kubota S ^{1,2} , Takigawa M ¹ ('Adv Res Ctr Oral Craniofacial Sci (ARCOCS) Okayama Univ Grad Sch Med Dent Pharm Sci, ² Dept Biochem Mol Dent, Okayama Univ Grad Sch Med Dent Pharm Sci)
P2-71	Tumor reduction and bone restoration by TAK-1 inhibition ○Teramachi J, Okamura H, Haneji T (Dept Histol Oral Histol, Tokushima Univ Grad Sch Inst Biomed Sci)
P2-72	The elucidation of mandibular bone and tooth in severe infantile hypophosphatasia model mouse treated by gene therapy ○Ikeue R ¹ , Takahashi A ² , Sato T ¹ , Kasahara M ² , Muramatsu T ³ ('Dept Crown Bridge Prosthodont, Tokyo Dent Coll, ² Dept Pharmacol, Tokyo Dent Coll, ³ Dept Endodont Pulp Periapical Biol, Tokyo Dent Coll)
P2-73	The effect of vitamin C deficiency on the chorda tympani nerve responses to salt and sour tastants ○Yasuo T, Suwabe T, Yamamura T, Sako N (Dept Oral Physiol, Asahi Univ Sch Dent)
P2-74	The expression of glucose-dependent insulinotropic polypeptide receptor (GIPR) in mouse taste tissue ○Takai S ¹ , Ninomiya Y ² , Shigemura N ¹ ('Sect Oral Neurosci, Grad Sch Dent Sci, Kyushu Univ, ² Div Sensory Physiol, R&D Center for Taste and Odor Sensing, Kyushu Univ)
P2-75	Pain-associated mediators and gene modulation in acetic acid-induced oral ulcerative mucositis in rats ○Hitomi S, Ono K, Nodai T, Ito M, Inenaga K (Div Physiol, Kyushu Dent Univ)
P2-76	Expression of TRPV1 and TRPM8 channels in the superior laryngeal nerve innervating the laryngeal region ○Ando H ¹ , Masuda Y ² , Kitagawa J ³ ('Dept Biol, Matsumoto Dent Univ, ² Dept Oral and Maxillofac Biol, Matsumoto Dent Univ Grad Sch, ³ Dept Oral Physiol, Matsumoto Dent Univ)
P2-77	Sweet taste information via SGLT1 in mouse chorda tympani and glossopharyngeal nerves ○Yasumatsu K ^{1,2} , Iwata S ^{2,3} , Ohkuri T ² , Shigemura N ² , Ninomiya Y ^{1,3} ('Div Sensory Physiol, R&D Center for Taste and Odor Sensing, Kyushu Univ, ² Sect Oral Neurosci, Grad Sch Dent, Kyushu Univ, ³ Monell Chemical Senses Center)
P2-78	ECG, EMG and EEG analysis of the effect of food preference on masticatory muscle activity and neural activity during mastication period ○Honma S ^{1,2} , Wakisaka S ¹ ('Dept Oral Anat Dev Biol, Osaka Univ, Grad Sch Dent, ² Dept Oral Health Sci, BAIKA Women's Univ)
P2-79	Spatiotemporal changes in neuronal excitability in the spinal dorsal horn after peripheral nerve injury ○Terayama R ¹ , Yamamoto Y ^{1,2} , Kishimoto N ^{1,2} , Tabata M ^{1,2} , Maruhama K ¹ , Iida S ² , Sugimoto T ¹ ('Dept Oral Funct Anat, Okayama Univ Grad Sch Med, Dent PharmSci, ² Dept Oral and Maxillofac Reconstr Surg, Okayama Univ Grad Sch Med, Dent PharmSci)
P2-80	Bilateral increases in ERK activation at spinomedullary junction region by masseter muscle injury during temporomandibular joint inflammation in the rats ○Okamoto K ¹ , Kurose M ¹ , Nakatani Y ^{1,2} , Hasegawa M ^{1,3} , Fujii N ³ , Tagagi R ² , Yamamura K ¹ ('Div Oral Physiol, Niigata Univ Grad Sch Med Dent Sci, ² Div Oral Maxillofac Surg, Niigata Univ Grad Sch Med Dent Sci, ³ Gen Dent Clinic Edu Unit, Niigata Univ Med Dent Hosp)
P2-81	Rhythmic jaw movements induced by repetitive electrical stimulation of the amygdaloid nucleus in the rat ○Satoh Y, Ishizuka K, Takahashi M, Iwasaki S (Dept Physiol, Nippon Dent Univ at Niigata)
P2-82	Orexin-A counterbalances the inhibition of reflex swallowing induced by GLP-1 ○Kobashi M, Fujita M, Mitoh Y, Matsuo R (Dept Oral Physiol, Okayama Univ Grad Sch Med Dent Pharm Sci)
P2-83	Glutamatergic synaptic inputs to the rat developing trigeminal motoneurons ○Nakamura S, Nakayama K, Mochizuki A, Kiyomoto M, Inoue T (Dept Oral Physiol, Showa Univ Sch Dent)
P2-84	Changes of insular cortical local circuits in the model rats that receive ablation of unmyelinated primary sensory fibers by capsaicin injection ○Murayama S ^{1,2} , Kobayashi M ² ('Dept Endodont, Nihon Univ Sch Dent, ² Dept Pharmacol, Nihon Univ Sch Dent)

P2-85	Functional connectivity analysis of olfactory system–7 tesla fMRI study ○Fukami H, Sahara Y (Dept Physiol, Iwate Med Univ Sch Dent)
P2-86	Cellular birthdate and distribution pattern in the nucleus of the solitary tract and parabrachial nucleus in rats ○Suwabe T, Yasuo T, Sako N (Dept Oral Physiol, Div Oral Funct Sci Rehabil, Asahi Univ Sch Dent)
P2-87	Temporal signaling patterns of somatosensory neurons in the dorsal column nucleus and trigeminal nucleus in the rat medulla ○Shishido S ^{1,2} , Toda T ¹ (¹ Div Oral Physiol, Tohoku Univ Grad Sch Dent, ² Akamon Oriental Medical Coll)
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P2-89	The effects of Citalopram on the modulation of masseter muscle activity during non-REM sleep ○Nogawa Y ¹ , Mochizuki A ² , Kato T ³ , Katayama K ⁴ , Abe Y ⁴ , Nakamura S ² , Nakayama K ² , Baba K ⁴ , Wakabayashi N ¹ , Inoue T ² (¹ Div Removable Partial Prosthodont, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ² Dept Oral Physiol, Showa Univ Sch Dent, ³ Dept Oral Anat Neurobiol, Osaka Univ Grad Sch Dent, ⁴ Dept Prosthodont Showa Univ Sch Dent)
P2-90	The spatial profiles of cortical excitation induced by mechanical stimulation of the periodontal ligament ○Kaneko M ^{1,2} , Kobayashi M ² , Shimizu N ¹ , Horinuki E ^{1,2} (¹ Dept Orthodont, Nihon Univ Sch Dent, ² Dept Pharmacol, Nihon Univ Sch Dent)
P2-91	Cerebral blood flow during voluntary lip movements using functional near-infrared spectroscopy (fNIRS) ○Kurose M ¹ , Okamoto K ¹ , Hasegawa M ^{1,2} , Nakatani Y ^{1,3} , Fujii N ² , Yamada Y ⁴ , Sato Y ⁵ , Yamamura K ¹ , Masuda Y ⁶ (¹ Div Oral Physiol, Niigata Univ Grad Sch Med Dent Sci, ² Gen Dent Clinic Educ Unit, Niigata Univ Med Dent Hosp, ³ Div Oral Maxillofac Surg, Niigata Univ Grad Sch Med Dent Sci, ⁴ Tokyo Dent Coll, ⁵ Dept Physiol, Nippon Dent Univ at Niigata, ⁶ Dept Oral Maxillofac Biol, Grad Sch Oral Med, Matsumoto Dent Univ)
P2-92	Inhibitory effects of dexamethasone on bite opening-induced hypertrophy in masseter and cardiac muscles ○Umeki D ¹ , Ohnuki Y ² , Ito A ¹ , Yagisawa Y ¹ , Nariyama M ³ , Ishikawa M ⁴ , Kawamura N ⁵ , Nakamura Y ¹ , Okumura S ² (¹ Dept Orthodont, Tsurumi Univ Sch Dent Med, ² Dept Physiol, Tsurumi Univ Sch Dent Med, ³ Dept Pediatr Dent, Tsurumi Univ Sch Dent Med, ⁴ Dept Oral Anat, Tsurumi Univ Sch Dent Med, ⁵ Dept Periodont, Tsurumi Univ Sch Dent Med)
P2-93	Muscle repair and distribution of high mobility group box 1 (HMGB1) in the peri-cancerous tissue ○Komine Y ^{1,2} , Sakiyama K ¹ , Takizawa S ² , Bando Y ¹ , Amano O ¹ (¹ Div Anat, Meikai Univ Sch Dent, ² Div Oral Maxillofac Surg, Meikai Univ Sch Dent)
P2-94	MyoD and CDK6 are regulated by miR-29a-Tet1 pathway in the C2C12 myoblast cells ○Ando H (Dept Biophys, Tsurumi Univ Sch Dent Med)
P2-95	Role of microphthalmia-associated transcription factor in masseter muscle hypertrophy induced by β 2-adrenoceptor stimulation ○Nariyama M ¹ , Ohnuki Y ² , Umeki D ³ , Ito A ³ , Kawamura N ⁴ , Yagisawa Y ³ , Okumura S ² , Asada Y ¹ (¹ Dept Pediatr Dent, Tsurumi Univ Sch Dent Med, ² Dept Physiol, Tsurumi Univ Sch Dent Med, ³ Dept Orthodont, Tsurumi Univ Sch Dent Med, ⁴ Dept Periodont, Tsurumi Univ Sch Dent Med)
P2-96	TGF- β 1 induces invasion ability of human oral squamous cell carcinoma cell HSC-4 through the Slug/Wnt-5b/MMP-10 signaling axis ○Kamo M ¹ , Hino M ² , Kyakumoto S ¹ , Ishisaki A ¹ (¹ Div Cell Biosig Sci, Dept Biochem, Iwate Med Univ Sch Dent, ² Div Oral Maxillofac Surg, Dept Reconst Oral Maxillofac Surg, Iwate Med Univ Sch Dent)
P2-97	Keratinization mechanism in keratocystic odontogenic tumor ○Ochiai T ¹ , Nakano K ² , Hasegawa H ¹ (¹ Dept Oral Pathol, Matsumoto Dent Univ, ² Dept Oral Pathol, Okayama Univ Grad Sch Med Dent Pharm Sci)
P2-98	Functional analysis of R2TP in progression of oral squamous cell carcinoma ○Kakihara Y ¹ , Yamazaki M ² , Kiguchi T ¹ , Saeki M ¹ (¹ Div Dent Pharmacol, Niigata Univ Grad Sch Med Dent Sci, ² Div Oral Pathol, Niigata Univ Grad Sch Med Dent Sci)
P2-99	Signaling pathways for VE-cadherin-dependent vasculogenic mimicry formation by synovial fibroblast-like cells of rheumatoid arthritis ○Yamaguchi K, Sudo H, Imai K (Dept Biochem, Nippon Dent Univ Sch Life Dent at Tokyo)
P2-100	Mechanisms involved in enhancement of matrix metalloproteinase-9 expression by interleukin-33 ○Ariyoshi W ¹ , Wichtida C ^{1,2} , Okinaga T ¹ , Nishihara T ¹ (¹ Div Infect Mol Biol, Kyushu Dent Univ, ² Div Pediatr Dent, Kyushu Dent Univ)
P2-101	Tetrahydrobiopterin enhances serotonin biosynthesis in mast cells ○Ohashi A, Kasahara M, Naito M, Takahashi T (Dept Anat, Nihon Univ Sch Dent)
P2-102	Effect of oral pathobionts-induced gut dysbiosis on the NAFLD progression ○Osaka T (Dept Microbiol Immunol, Tokyo Women's Med Univ)
P2-103	Influence of low-energy laser irradiation on nitric oxide and VEGF expression in vascular endothelial cells ○Moro Y, Harada T (Div Oral Radiol Diag, Ohu Univ Sch Dent)
P2-104	The mechanism of dexmedetomidine hydrochloride effects to the vascular permeability of human umbilical vein endothelial cells induced with histamine ○Fukada T ¹ , Toen T ¹ , Hashimoto S ² , Sunada K ³ (¹ Sect Radioisotopes Res, Res Center for Odontol, Sch Life Dent at Tokyo, Nippon Dent Univ, ² Nippon Dent Univ Sch Life Dent at Tokyo, ³ Dept Dent Anesthesiol, Nippon Dent Univ Sch Life Dent at Tokyo)
P2-105	MALDI-TOF-MS analysis of gut microbiota in murine model of food allergy ○Kataoka H, Kuwata H (Dept Microbiol Immunol, Showa Univ Sch Dent)

P2-106	Investigation of immune response against periodontal-pathogen <i>Porphyromonas gingivalis</i> ○Nagao J, Narita Y, Tasaki S, Hashimoto M, Ikezaki S, Arita-Morioka K, Cho T, Tanaka Y (Div Infect Biol, Dept Funct Biosci, Fukuoka Dent Coll)
P2-107	Docosahexaenoic acid downregulates inflamasome activity induced by <i>A. actinomycetemcomitans</i> invasion in macrophages ○Okinaga T ¹ , Ariyoshi W ¹ , Usui M ² , Nishihara T ¹ (¹ Div Infect Mol Biol, Kyushu Dent Univ, ² Div Periodontol, Kyushu Dent Univ)
P2-108	MSCs polarize undifferentiated monocytes/macrophages to the immunosuppressive macrophages in the co-culture of bone marrow cells: implication of cell adhesion ○Kyakumoto S ¹ , Takizawa N ² , Okubo N ³ , Suzuki K ^{1,2} , Chosa N ¹ , Ibi M ⁴ , Kamo M ¹ , Yaegashi T ² , Ishisaki A ¹ (¹ Div Cell Bio-signal Sci, Dept Biochem, Iwate Med Univ, ² Div Periodontol, Sch Dent, Iwate Med Univ, ³ Lab Pathophysiol and Therapeut, Fac Pharma Sci, Hokkaido Univ, ⁴ Dept Mol Cell Pharma, Sch Pharma Sci, Iwate Med Univ)
P2-109	Resistance to IFN of mouse squamous cell carcinoma is due to impaired expression of the interferon-inducible protein p204 (Ifi204) ○Yamaguchi H, Ohmori Y (Div Microbiol Dept Oral Biol Tissue Eng, Meikai Univ Sch Dent)
P2-110	The regulation of expression of GRIM-19 in oral squamous carcinoma cells ○Hiroi M ¹ , Mori K ² , Shimada J ² , Ohmori Y ¹ (¹ Div Microbiol, Meikai Univ Sch Dent, ² Div Oral Maxillofac Surg, Meikai Univ Sch Dent)
P2-111	Antitumor effects of systemic administration with a low dose TLR7/8 agonist and its combined therapy with PD-L1 blockade ○Nishii N ^{1,2} , Tachinami H ¹ , Kondo Y ¹ , Harada H ² , Azuma M ¹ (¹ Div Mol Immunol, Tokyo Med Dent Univ Grad Sch Med Dent Sci, ² Div Oral & Maxillofac Surg, Tokyo Med Dent Univ Grad Sch Med Dent Sci)
P2-112	A study on processing of the Mfa4 accessory protein of Mfa1 fimbriae in periodontal pathogen <i>Porphyromonas gingivalis</i> ○Hasegawa Y, Nagano K, Yoshida Y, Yoshimura F (Div Microbiol, Aichi-Gakuin Univ Sch Dent)
P2-113	Enzymatic characterization of phosphotransacetylase and acetate kinase associated with biosynthesis of ATP in <i>Porphyromonas gingivalis</i> ○Yoshida Y ¹ , Sato M ^{1,2} , Kezuka Y ³ , Hasegawa Y ¹ , Nagano K ¹ , Yoshimura F ¹ (¹ Div Microbiol, Aichi-Gakuin Univ Sch Dent, ² Div Partial Denture, Aichi-Gakuin Univ Sch Dent, ³ Dept Structural Biol, Aichi-Gakuin Univ Sch Pharm)
P2-114	Amino acid and oligopeptide transporters in <i>Porphyromonas gingivalis</i> ○Ohara-Nemoto Y, Kobayakawa T, Baba T, Nemoto T (Dept Oral Mol Biol, Nagasaki Univ Grad Sch Biomed Sci)
P2-115	Preparation of the radiolabeled lipopolysaccharide from <i>Porphyromonas gingivalis</i> ○Toen T ¹ , Hashimoto S ² , Fukuda T ¹ , Fujita M ³ , Kuraji R ³ , Ito H ³ , Numabe Y ³ (¹ Sect Radioisotopes Res, Res Center for Odontol, Nippon Dent Univ Sch Life Dent at Tokyo, ² Nippon Dent Univ Sch Life Dent at Tokyo, ³ Dept Periodontal, Nippon Dent Univ Sch Life Dent at Tokyo)
P2-116	Roles of <i>Porphyromonas gingivalis</i> gingipains to produce volatile sulfur compounds ○Hiramine H ¹ , Watanabe K ² , Kumada H ³ , Hamada N ² (¹ Dept Highly Adv Stomatol, Kanagawa Dent Univ Grad Sch Dent, ² Dept Oral Sci, Kanagawa Dent Univ Grad Sch Dent, ³ Dept Dent Educ, Kanagawa Dent Univ Grad Sch Dent)
P2-117	Structure and function analyses of succinyl-CoA reductase involving butyrate production in <i>Porphyromonas gingivalis</i> ○Kezuka Y ¹ , Yoshida Y ² (¹ Dept Struct Biol, Iwate Med Univ Sch Pharm, ² Div Microbiol, Aichi-Gakuin Univ Sch Dent)
P2-118	Role of the ECF sigma factors in cell wall character in <i>Porphyromonas gingivalis</i> ○Kikuchi Y ^{1,2} , Kokubu E ^{1,2} , Shibayama K ¹ , Ohara N ³ , Nakayama K ⁴ , Ishihara K ^{1,2} (¹ Dept Microbiol, Tokyo Dent Coll, ² Oral Health Sci Center, Tokyo Dent Coll, ³ Dept Oral Microbiol, Okayama Univ Grad Sch Med Dent Pharm Sci, ⁴ Dept Microbiol Oral Infect, Nagasaki Univ Grad Sch Biomed Sci)
P2-119	The role of <i>P. gingivalis</i> gingipains on PI3 kinase/Akt signaling pathway ○Nakayama M ^{1,2} , Naito M ³ , Nakayama K ³ , Ohara N ^{1,2} (¹ Dept Oral Microbiol, Okayama Univ Grad Sch Med Dent Pharm Sci, ² ARCOCS, Okayama Univ Dent Sch, ³ Dept Microbiol Oral Infect, Nagasaki Univ Grad Sch Biomed Sci)
P2-120	The effect of <i>Porphyromonas gingivalis</i> H ₂ S synthase on mouse inflammation ○Shioya K ¹ , Hiraoka Y ² , Yoshida A ¹ (¹ Dept Oral Microbiol, Matsumoto Dent Univ, ² Inst Oral Sci, Matsumoto Dent Univ)
P2-121	Cell cycle arrest and apoptosis induced by <i>Porphyromonas gingivalis</i> requires JNK and p38 activation in human trophoblasts ○Inaba H ¹ , Amano A ² , Nakano M ¹ (¹ Dept Pediatr, Okayama Univ Grad Sch Med Dent Pharm Sci, ² Dept Prevent Dent Osaka Univ Grad Sch Dent)
P2-122	Characterization of extracellular nucleases from <i>Prevotella intermedia</i> ○Fukamachi H, Morisaki H, Arimoto T, Kataoka H, Kuwata H (Dept Microbiol Immunol, Showa Univ Sch Dent)
P2-123	Identification of small RNA in <i>Aggregatibacter actinomycetemcomitans</i> ○Oogai Y, Komatsuzawa H (Dept Oral Microbiol, Kagoshima Univ Grad Sch Med Dent Sci)
P2-124	Analyses of cariogenic factor genes from <i>Streptococcus ferus</i> ○Shinozaki-Kuwahara N, Saito M, Tsuzukibashi O, Kobayashi R, Hashizume-Takizawa T, Kurita-Ochiai T (Dept Microbiol Immunol, Nihon Univ Sch Dent at Matsudo)
P2-125	Identification of mutations of <i>Streptococcus sobrinus</i> dextran-binding lectin AB genes ○Tamura H, Yamada A (Div Bioregulatory Pharmacol, Dept Pharmacol, Iwate Med Univ)
P2-126	<i>Streptococcus oralis</i> induces lysosomal impairment of macrophages via bacterial hydrogen peroxide ○Okahashi N ¹ , Nakata M ² , Kuwata H ³ , Kawabata S ² (¹ Cent Frontier Oral Sci Osaka Univ Grad Sch Dent, ² Dept Oral Microbiol Osaka Univ Grad Sch Dent, ³ Dept Microbiol Immunol Showa Univ Sch Dent)
P2-127	Pneumococcal adaptation to environmental temperature shift impacts survival in blood ○Nakata M, Sumitomo T, Yamaguchi M, Kawabata S (Dept Oral Microbiol, Osaka Univ Grad Sch Dent)

P2-128	<i>Streptococcus pneumoniae</i> supernatants may contribute to influenza A virus infection ○Kamio N, Ochiai K, Imai K (Dept Microbiol, Nihon Univ Sch Dent)
P2-129	Isolation and identification methods of oral predominant <i>Actinomyces</i> species ○Uchibori S ¹ , Tsuzukibashi O ² , Kobayashi T ¹ , Aida M ¹ ('Dept Crown Bridge Prosthodont, Nihon Univ Sch Dent at Matsudo, ² Dept Microbiol Immunol, Nihon Univ Sch Dent at Matsudo)
P2-130	A novel selective medium for the isolation and distribution of <i>Actinomyces israelii</i> ○Tsuzukibashi O ¹ , Uchibori S ² , Saito M ¹ , Kobayashi R ¹ , Takizawa T ¹ , Shinozaki-Kuwahara N ¹ , Ochiai T ¹ ('Dept Microbiol Immunol, Nihon Univ Sch Dent at Matsudo, ² Dept Crown Bridge Prosthodont, Nihon Univ Sch at Matsudo)
P2-131	<i>Propionibacterium gingivaerubrum</i> sp. nov., a red-pigmented species isolated from human gingival sulcus ○Saito M, Kuwahara N, Tsuzukibashi O, Takizawa T, Kobayashi R, Ochiai T (Dept Microbiol, Immunol, Nihon Univ Sch Dent at Matsudo)
P2-132	Variations of nitrate-reducing activity in <i>Rothia</i> spp. ○Mashimo C, Maruyama Y, Yamanaka T, Yamane K, Oh H, Nambu T (Dept Bacteriol, Osaka Dent Univ)
P2-133	The cariogenic potential of oral <i>Bifidobacterium</i> in terms of carbohydrate metabolism ○Abiko Y ^{1,2} , Sugahara A ³ , Murakami K ³ , Kawashima J ⁴ , Takahashi N ¹ ('Div Oral Ecol Biochem, Tohoku Univ Grad Sch Dent, ² Liaison Center Innovative Dent, Tohoku Univ Grad Sch Dent, ³ 6th grade, Tohoku Univ Sch Dent, ⁴ ToMo, Tohoku Univ)
P2-134	A high sensitive fluorescence-mediated assessment of the metabolic activity of oral plaque biofilm ○Washio J, Ishiguro K, Irie D, Uchiyama A, Takahashi N (Div Oral Ecol Biochem, Tohoku Univ Grad Sch Dent)
P2-135	Effect of periodontopathic bacteria on teeth discoloration ○Imai A ^{1,3} , Matsuda K ² ('Dept Dent Hygiene, Nippon Dent Univ Coll at Niigata, ² Dept Pediatr Dent, Nippon Dent Univ at Niigata, ³ Dept Biochem, Nippon Dent Univ at Niigata)
P2-136	Identification of periodontal pathogen's components inducing T cell response ○Narita Y, Nagao J, Tasaki S, Arita-Morioka K, Hashimoto M, Ikezaki S, Cho T, Tanaka Y (Div Infect Biol, Dept Funct Biosci, Fukuoka Dent Coll)
P2-137	Research in candidate foods with bactericidal activity against periodontopathic bacteria ○Nakao R, Senpuku H (Dept Bacteriol I, Natl Inst Infect Dis)
P2-138	Inhibitory mechanism of odor by metal ions ○Taniguchi N ¹ , Nakano Y ² , Kuwata F ² , Hanioka T ¹ ('Dept Prev Public Health Dent, Fukuoka Dent Coll, ² Dept Chem, Nihon Univ Sch Dent)
P2-139	Inhibitory effects of French pine bark extract on dental plaque formation ○Watanabe K ¹ , Hiramine H ² , Toyama T ¹ , Sasaki H ¹ , Hamada N ¹ ('Dept Oral Sci, Kanagawa Dent Univ Grad Sch Dent, ² Dept Highly Adv Stomatol, Kanagawa Dent Univ Grad Sch Dent)
P2-140	Evaluation of structure-activity relationships in penetration of terpene compound into the preformed biofilm ○Fujita M ¹ , Osada K ² , Miyakawa H ¹ , Nakazawa F ¹ ('Div Microbiol, Health Sci Univ Hokkaido, Sch Dent, ² Div Physiol, Health Sci Univ Hokkaido, Sch Dent)
P2-141	Inhibitory effect of allyl isothiocyanate against <i>Candida albicans</i> ○Tamura M ^{1,2} , Ochiai K ¹ , Imai K ^{1,2} ('Dept Microbiol, Nihon Univ Sch Dent, ² Div Immunol Pathobiol Res Cent, Nihon Univ Sch Dent)
P2-142	Survey on oral carriage of genus <i>Candida</i> in young healthy students and the antifungal susceptibility of the isolates – Part 2 ○Fukui K ¹ , Imai A ^{2,3} , Kuwashima H ¹ , Nakamura K ¹ ('Dept Pharmacol, Nippon Dent Univ at Niigata, ² Dept Biochem, Nippon Dent Univ at Niigata, ³ Dept Dent Hygiene, Nippon Dent Univ Coll at Niigata)
P2-143	Analysis of <i>Candida albicans</i> derived molecules recognized by T cells ○Cho T, Tasaki S, Nagao J, Narita Y, Hashimoto M, Ikezaki S, Arita-Morioka K, Tanaka Y (Dept Func Biosci, Fukuoka Dent Coll)
P2-144	Differences in IL-1 β production-inducing activity of <i>Candida albicans</i> toward dendritic cells and macrophages ○Hasebe A ¹ , Saeki A ¹ , Kamezaki R ^{1,2} , Shibata K ¹ ('Dept Oral Mol Microbiol, Hokkaido Univ Grad Sch Dent Med, ² Dept Oral Diagn Med, Hokkaido Univ Grad Sch Dent Med)
P2-145	TRAF6-regulated basal autophagy prevents autoactivation of proinflammatory signaling initiated through intracellular accumulation of MyD88 ○Inou T, Horie T, Inomata M, Murakami Y (Dept Oral Microbiol, Div Oral Infect Health Sci, Asahi Univ Sch Dent)
P2-146	Identification of regulatory factors of angiogenic blood vessel growth in tooth germ ○Sunohara M, Seki S, Sato I (Dept Anat, Nippon Dent Univ Sch Life Dent at Tokyo)
P2-147	Identify of binding region of Smad4 and NF- κ B/p65 ○Urata M ^{1,2} , Matsubara T ¹ , Takeuchi H ³ , Nakatomi C ¹ , Hirata-Tsuchiya S ⁴ , Kokabu S ¹ , Chou B ⁵ , Kitamura C ² , Jimi E ¹ ('Div Mol Signal Biochem, Kyushu Dent Univ, ² Div Endodont Restorative Dent, Kyushu Dent Univ, ³ Div Appl Pharmacol, Kyushu Dent Univ, ⁴ Dept Biol Endod, Hiroshima Univ Inst Biomed Health Sci, ⁵ Div Pathol, Kyushu Dent Univ)
P2-148	Involvement of phospholipase C-related, but catalytically inactive protein (PRIP) in ovarian function ○Matsuda M, Hirata M (Sect Mol Cell Biochem, Kyushu Univ Grad Sch Dent)
P2-149	Regulation of SNARE complex formation and exocytosis by phosphorylation of SNAP-25 in PC12 cells ○Gao J ¹ , Hirata M ¹ , Mizokami A ¹ , Takeuchi H ² , Hirata M ¹ ('Sect Mol Cell Biochem, Kyushu Univ Grad Sch Dent, ² Div Appl Pharmacol, Kyushu Dent Univ)
P2-150	Fluorescence bioimaging of intracellular dynamics of the clock proteins ○Nishide S (Dept Cell Physiol, Hokkaido Univ Grad Sch Med)

P2-151	Hydrogen phosphate ion increases the uptake of bisphosphonate into osteoblastic cells ○Tajima M, Sakagami H (Div Pharmacol, Dept Diagn Ther Sci, Meikai Univ Sch Dent)
P2-152	Search for substances that alleviate the toxicity of doxorubicin against human oral keratinocyte ○Sakagami H ¹ , Okudaira N ¹ , Amano O ² , Yokose S ³ ('Div Pharmacol, Meikai Univ Sch Dent, ² Div Anat, Meikai Univ Sch Dent, ³ Div Endod, Meikai Univ Sch Dent)
P2-153	Analyzed aspirin induced differentiation of human dental pulp stem cells (hDPSCs) and human periodontal ligament cells (hPDLCs) ○Tsutsui T ¹ , Kobayashi T ¹ , Torii D ¹ , Matsui M ¹ , Nakahara T ² ('Dept Pharmacol, Nippon Dent Univ Sch Life Dent at Tokyo, ² Dept Dev Reg Dent, Nippon Dent Univ Sch Life Dent at Tokyo)
P2-154	Effects of nonsteroidal anti-inflammatory drugs on osteoblastic differentiation ○Matsuyama A ^{1,2} , Higashi S ² , Ohsumi T ² , Morotomi T ¹ , Washio A ¹ , Kitamura C ¹ , Takeuchi H ² ('Div Endodont Restorative Dent, Kyushu Dent Univ, ² Div Appl Pharmacol, Kyushu Dent Univ)
P2-155	Effects of ZD0947, a novel and potent ATP-sensitive K+ channel opener, on smooth muscle-type ATP-sensitive K+ channels ○Mori K, Aijima R, Danjo A, Yamashita Y (Dept Oral and Maxillofac Surg, Fac Med, Saga Univ)
P2-156	Inhibition of growth in fibroblasts isolated from patients with gingival overgrowth using 18-alpha-glycyrrhetic acid ○Takeuchi R ¹ , Matsumoto H ² , Hiratsuka K ¹ ('Dept Biochem Mol Biol, Nihon Univ Sch Dent at Matsudo, ² Dept Pharmacol, Nihon Univ Sch Dent at Matsudo)
P2-157	Mg, Ca and Zn could promote human bone type alkaline phosphatase activity independently ○Hanya J, Suzuki K, Minamikawa H, Yoshimura Y (Dept Mol Cell Pharmacol, Hokkaido Univ Grad Sch Dent Med)
P2-158	Transcriptional regulation of gene encoding D-dopachrome tautomerase in differentiated adipocytes ○Iwata T ¹ , Kurabayashi K ² , Yoshimoto K ¹ ('Dept Med Pharmacol, Tokushima Univ Grad Sch Inst Biomed Sci, ² Dept Oral Maxillofac Surg, Dokkyo Med Univ Sch Med)
P2-159	Difficulties in personal identification means of the dental records ○Kasahara N, Nakamura Y, Nagamine F, Hashimoto M (Dept Forensic Odontol Anthropol, Tokyo Dent Coll)
P2-160	DNA analysis of cells transferred from the small amount of sample ○Maruyama S ^{1,2} , Tsutsumi H ^{1,2} , Izawa H ^{1,2} , Komuro T ^{1,2} ('Dept Leg Med, Nihon Univ Sch Dent, ² Div Social Dent, Dent Res Center, Nihon Univ Sch Dent)
P2-161	Simultaneous analysis of ABO blood genotype, mtDNA and HaloPlex hereditary arrhythmia-related heart trouble research panel using the SureSelect system ○Tsutsumi H ^{1,2} , Maruyama S ^{1,2} , Izawa H ^{1,2} , Komuro T ^{1,2} ('Dept Leg Med, Nihon Univ Sch Dent, ² Div Soc Dent, Dent Res Center, Nihon Univ Sch Dent)
P2-162	Effects of addition of thickening agent on masticatory behavior and physical properties of food bolus ○Shiozawa K, Okumura S (Dept Physiol, Tsurumi Univ Sch Dent Med)
P2-163	Morphology and analytical studies on the incremental lines which are observed in the otolith fossils of fishes ○Mishima H ¹ , Kondo Y ² , Miake Y ³ ('Dent Hygiene, Dept Med Hygiene, Kochi Gakuen Coll, ² Fac Sci, Kochi Univ, ³ Dept Histol Dev Biol, Tokyo Dent Coll)
P2-164	The role of sodium in the formation of mandibular molars and bone ○Inui-Yamamoto C ¹ , Ueda K ² , Nakatsuka M ² , Matsuda Y ² , Kumabe S ² , Wakisaka S ¹ ('Dept Oral Anat Dev Biol, Osaka Univ Grad Sch Dent, ² Dept Oral Anat, Osaka Dent Univ)
P2-165	Histone methyltransferase G9a is required for proper tendon formation ○Wada S ¹ , Ideno H ² , Shimada A ² , Kamiunten T ¹ , Nakamura Y ¹ , Nakashima K ² , Kimura H ³ , Shinkai Y ⁴ , Tachibana M ⁵ , Nifuji A ² ('Dept Orthodont, Tsurumi Univ Sch Dent Med, ² Dept Pharmacol, Tsurumi Univ Sch Dent Med, ³ Sch and Grad Sch Biosci and Biotechnol, Tokyo Inst of Technol, ⁴ Cellular Memory Laboratory, RIKEN, ⁵ Inst of Enzyme Res, Tokushima Univ)
P2-166	Cytocompatibility of nano-sized ceramics particles on several cells ○Seitoku E ¹ , Abe S ² ('Dept Restor Dent, Hokkaido Univ Grad Sch Dent Med, ² Dept Biomater Bioengin, Hokkaido Univ Grad Sch Dent Med)
P2-167	Age-related decline in biological rhythms ○Takasu N ^{1,2} , Kusano S ^{1,3} , Nakanishi Y ^{1,3} , Nakamura W ¹ ('Lab Oral Chronobiol, Osaka Univ Grad Sch Dent, ² JSPS (RPD), ³ Dept Dent, Osaka Univ)