

The 50th Annual Meeting of
Japanese Association for Oral Biology
September 23 – 25, 2008
Showa University School of Dentistry
Tokyo, JAPAN



JAOB JAPANESE ASSOCIATION FOR
ORAL BIOLOGY since 1958

Plenary Lecture

PL-1

Apoptosis and engulfment of dead cells

Shigekazu Nagata

Dept Med Chem, Grad Sch Med, Kyoto Univ

PL-2

Try hard, and get it done.

Masatoshi Koshiba

Chairman, Board of Directors, Heisei Foundation for Basic Science

Symposium by Science Council of Japan: Development of Oral Scientist Resources

Toshiyuki Yoneda

Member of the Science Council of Japan (SCJ)

Tetsuhiko Tachikawa

Chairman of 50th annual meeting of JAOB

CS-1

Innovation of Graduate School Education; Career Path Development for Transversal and Systemic Medical Research

Nagahiro Minato

Grad Sch Med, Kyoto Univ

CS-2

Challenge for the transdisciplinary engineering education

Kazuo Tanishita

Fac Sci Tech, Keio Univ

Lecture by JAOB/Lion Dental Research Award Winner

L-1

Application and future perspective of peptide drugs for the inflammatory bone resorption-related diseases

Kazuhiro Aoki

Dept Hard Tissue Engineering (Pharmacol), Tokyo Med Dent Univ, Grad Sch

Lecture by JAOB/Rising Members Award Winner

Y-1

Type III collagen is essential for growth acceleration of human osteoblastic cells

Yojiro Maehata^{1,2}

¹Dept Clinical Care Med, Div Pharma, ²Oral Health Sci Res Cen, Kanagawa Dent Col

Symposium 1: Challenges to forms—Ways of Recognition of Form and Their Application

Takeyasu Maeda

Div Oral Anat, Dept Oral Biol Sci, Niigata Univ Grad Sch Med and Dent Sci

Tarou Irie

Dept Oral Pathol, Showa Univ Sch Dent

S1-1

Application of mathematical science on forms

Hideki Takayasu

Sony Computer Science Laboratories, Inc

S1-2

Trial of measurement and numeric conversion of living being shape in three-dimensional space

Hideo Yokota

Bio-research Infrastructure Construction Team, Living Matter Simulation Research Team, RIKEN

S1-3

The collaboration between morphology and the number in pathology

Gaku Tanaka

Dept Pathol, Fukushima Med Univ Sch Med

S1-4

Integration of form and character by mean of laser microdissection

Tarou Irie

Dept Oral Pathol, Showa Univ Sch Dent

Symposium 2: Mechanisms Underlying Control of Feeding Behavior

Takashi Yamamoto

Fac Health Sci, Kio Univ

Tomio Inoue

Dept Oral Physiol, Showa Univ Sch Dent

S2-1

Role of taste in feeding behavior

Takashi Yamamoto

Fac Health Sci, Kio Univ

S2-2

Sensing food flavors via olfaction

Kazushige Touhara

Dept Integrated Biosciences, Tokyo Univ

S2-3

Feeding regulation by gastrointestinal hormones

Yukari Date

Frontier Sci Res Cent, Miyazaki Univ

S2-4

Afferent nerve signals from intra-abdominal fat modulate hypothalamic leptin sensitivity and food intake

Hideki Katagiri

Div Advanced Therapeutics for Metabolic Diseases, Tohoku Univ Grad Sch Med

S2-5

Control mechanisms of mastication

Tomio Inoue

Dept Oral Physiol, Showa Univ Sch Dent

Symposium 3: Molecular Regulation of Mineralization and Its Failure—From Disclosure of Mechanisms to Clinical Implications—

Takenobu Katagiri

Div Pathophysiol, RCGM, Saitama Med Univ

Ryutaro Kamijo

Dept Biochem, Showa Univ Sch Dent

S3-1

Biological role of transient precursor OCP during apatite formation in bone

Osamu Suzuki

Div Craniofac Func Engineer, Tohoku Univ Grad Sch Dent

S3-2

Natural compounds promote osteoblastic differentiation and calcification

Je Tae Woo

Dept Biol Chem, Chubu Univ

S3-3

Regulation of bone and dentin formation by osteoblast and odontoblast differentiation

Toshihisa Komori

Dept Cell Biol, Unit Basic Med Sci, Nagasaki Univ Grad Sch Biomed Sci

S3-4

Vascular calcification—Transformation of vascular smooth muscle cells

Yoshiki Nishizawa

Dept Metabol, Endocrinol & Mol Med, Osaka City Univ Grad Sch Med

S3-5

Ectopic bone formation in fibrodysplasia ossificans progressiva (FOP)

Takenobu Katagiri

Div Pathophysiol, RCGM, Saitama Med Univ

Symposium 4: Integration of Basic and Clinical Sciences: Clinical and Laboratory Study of Mechanical Stress

Keiichi Sasaki

Tohoku Univ Grad Sch Dent, Div Advanced Prosthetic Dent

Masanori Nakamura

Dept Oral Anat and Develop Biol, Showa Univ Sch Dent

S4-1

Significance of mechanical stress in clinical dentistry : Biomechanical—mechanobiological interface

Keiichi Sasaki

Tohoku Univ Grad Sch Dent, Div Advanced Prosthetic Dent

S4-2

A morphological changes of jaw bone after loss of teeth

Yoshinobu Ide

Dept Anat, Tokyo Dent Coll

S4-3

High-resolution simulation of mechanical stress and its quantitative evaluation and visualization

Naoki Takano

Dept Mecha Engineer, Keio Univ

S4-4

Mechanobiology—development in clinical & biomedical applications—

Keiji Naruse

Cardiovasc Physiol, Okayama Univ Grad Sch Med, Dent & Pharm Sci

Workshop 1: Pharmacotherapeutic Approaches to Manage Bone Loss in Periodontitis

Shoji Yamada

Dept Pharm, Sch Dent, Showa Univ

Keiichi Ohya

Dept Hard Tiss Engineer (Pharm), Grad Sch. Tokyo Med & Dent Univ

WS1-1

Feasibility of clinical applications for the peptide type of inhibitors of osteoclast activity

Kazuhiro Aoki¹, Neil Alles¹, Niroshani Soysa¹, Eijiro Jimi², Hitoyata Shimokawa¹, Keiichi Ohya¹

¹Dept Hard Tiss Engineer (Pharm), Grad Sch. Tokyo Med & Dent Univ.; ²Dept Biosci (Mol Biochem), Kyusyu Dent Coll

WS1-2

Regulation of bone formation by extracellular BMP antagonists

Akira Nifuji

Dept Pharm, Tsurumi Univ Sch Dent Med

WS1-3

A novel bisphosphonate with anabolic effect

Hisashi Shinoda¹, Shinobu Murakami¹, Sadaaki Takeyama², Keiko Suzuki³, Shoji Yamada³

¹Dept Applied Pharm, Tohoku Univ Grad Sch Dent; ²Dept Mol Cell Pharm, Div Oral Pathobiol Sci, Grad Sch Dent Med, Hokkaido Univ; ³Dept Pharm, Sch Dent, Showa Univ

Workshop 2: Genome Analysis of Oral Pathogenic Bacteria and Its Application

Kazuyuki Ishihara

Dept Microbiol, Tokyo Dent Coll

Takeshi Igarashi

Dept Oral Microbiol, Showa Univ Sch Dent

WS2-1

Insights from the comparative genome of *Streptococcus mutans* on the evolution and acquisition of genomic diversity

Ichiro Nakagawa

Div Bacteriol, Dept Infectious Diseases Control, International Research Center for Infectious Diseases, Inst Med Sci, Tokyo Univ

WS2-2

Lipoprotein of *Streptococcus mutans* : functional analysis and immune activity

Takeshi Igarashi

Dept Oral Microbiol, Showa Univ Sch Dent

WS2-3

Genome analysis of *Porphyromonas gingivalis* and its application: discovery of a novel protein secretion system

Koji Nakayama

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

WS2-4

Regulation of *Porphyromonas gingivalis* fimbriation via the FimS-FimR two-component system

Kiyoshi Nishikawa

Dept Microbiol, Sch Dent, Aichi-Gakuin Univ

Satellite Symposium 1: Frontier Research on Craniofacial Morphogenesis—Developmental Biology of Oral Tissue—

Hayato Ohshima

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

Masaki Honda

Dept Anat, Nihon Univ, Sch Dent

SS1-1

The role of TGF- β signaling in cranial neural crest cell during tooth and mandibular development

Kyoko Oka¹, Shoji Oka²

¹Dept Anat, Nihon Univ Sch Dent, ²Dept Oral Maxillofac Surg, Kyushu Univ, Grad Sch Dent Sci,

SS1-2

The function of cranial neural crest cell during tongue development

Ryoichi Hosokawa

Cen Craniofac Mol Biol (CCMB), Univ Southern California, Sch Dent (USCSD)

SS1-3

Cell proliferation and differentiation in tooth development

Takashi Nakamura^{1,2}

¹Dept Orthoped Surg, Thomas Jefferson Univ, Lab Cell Develop Biol, ²Natl Inst Dent Craniofac Res, NIH

SS1-4

The role of *Evc* in tooth development

Mitsushiro Nakatomi, Heiko Peters

Inst Human Genet, Newcastle Univ

SS1-5

Dentinogenesis and dentin sialophosphoprotein (DSPP)

Yasuo Yamakoshi

Dept Biol Material Sci, Univ Michigan

Satellite Symposium 2: The Mechanism of Tooth Root Morphogenesis—Morphological Relationships between Tooth Cusp and Tooth Root, Morphogenetic Conditions and Clinical Problems of Tooth Root Patterning, the Role of Molar Root in Ontogeny and Phylogeny—

Shintarou Kondo

Dept Anat, Aichi-Gakuin Univ, Sch Dent

Masato Ota

Dept Mol Craniofac Emb, Tokyo Med Dent Univ, Grad Sch

Yukishige Kozawa

Dept Anat, Nihon Univ, Sch Dent Matsudo

SS2-1

Comparative anatomy of tooth root morphology from the point of view of mammalian evolution

Yukishige Kozawa

Dept Anat, Nihon Univ, Sch Dent Matsudo

SS2-2

How is pulpal floor of the molar developed?

Shintarou Kondo

Dept Anat, Aichi-Gakuin Univ, Sch Dent

SS2-3

Principle of tribosphenic molars and molecular mechanism of molar root patterning in mice

Masato Ota

Dept Mol Craniofac Emb, Tokyo Med Dent Univ, Grad Sch

SS2-4

Multidimensional analyses of multi-root development and Hertwig's epithelial cells

Yoshihito Shimazu, Takaaki Aoba

Dept Pathol, Nippon Dent Univ

SS2-5

Form of root and root canal in endodontic therapy

Yasuhisa Tsujimoto

Dept Endodont, Nihon Univ, Sch Dent Matsudo

SS2-6

Genetic diseases with abnormal shape of tooth roots

Naoto Suda

Dept Maxillofac Orthognathics, Tokyo Med Dent Univ, Grad Sch

Satellite Symposium 3: Specificity of Meckel's cartilage: Why Does It Disappear before Birth?

Masanori Nakamura

Dept Oral Anat Develop Biol, Showa Univ Sch Dent

Osamu Amano

Div Anat, Dept Human Develop Fostering, Meikai Univ Sch Dent

SS3-1

Anatomy, evolution and history of Meckel's cartilage: an introduction

Osamu Amano

Div Anat, Dept Human Develop Fostering, Meikai Univ Sch Dent

SS3-2

Significance of transformation into osteogenic phenotype in Meckel's cartilage chondrocytes

Kiyoto Ishizeki

Dept Oral Anat, Iwate Med Univ, Sch Dent

SS3-3

Chondrocytic roles and metabolic mode peculiar to remodeling and resorption of Meckel's cartilage

Yasunori Sakakura

Div Anat, Dept Oral Growth Develop, Health Sci Univ Hokkaido, Sch Dent

SS3-4

Participation of migrating cells in Meckel's cartilage disappearance

Masanori Nakamura

Dept Oral Anat Develop Biol, Showa Univ Sch Dent

Satellite Symposium 4: Way to Connect Basic Research and Clinic science—Keep Our Eyes on the Future of Oral Microbiological Researches—

Hidenori Kaminishi

Fukuoka Dent Coll

Nobuhiro Takahashi

Tohoku Univ, Grad Sch Dent

Futoshi Nakazawa

Health Sci Univ Hokkaido

Nobuko Maeda

Tsurumi Univ, Sch Dent Med

SS4-1

Translational research in oral microbiology

Kazuyuki Ishihara

Dept Microbiol, Tokyo Dent Coll

SS4-2

Effects of bisphosphonates on anaerobic bacteria-induced inflammatory response

Xue Deng¹, Riyoko Tamai¹, Yasuo Endo², Yusuke Kiyoura¹

¹Div Oral Bacteriol, Dept Oral Med Sci, Ohu Univ Sch Dent, ²Dept Mol Regulation, Tohoku Univ, Grad Sch Dent

SS4-3

A survival strategy of oral bacteria by bacteriocin

Jun-ichi Nagao¹, Hidenori Kaminishi¹, Jiro Nakayama², Kenji Sonomoto²

¹Sect Infect Biol, Dept Functional Biosci, Fukuoka Dent Coll, ²Lab Microb Technol, Div Microb Sci Technol, Dept Biosci Biotechnol, Kyushu Univ Grad Sch Agric

SS4-4

Analyses of the relationship between anti-FDF antibody titer in GCF and severity of periodontitis

Hidetomo Onishi^{1,2}, Sinichi Arakawa^{1,2}, Takuma Nakajima², Yuichi Izumi^{1,3}

¹Dept Periodontol, Grad Sch, Tokyo Med Dent Univ, ²Dept Mol Cell Oncol Microbiol, Tokyo Med Dent Univ, ³Global Center Excellence Program; Internat Res Cen Mol Sci Tooth Bone Diseases

SS4-5

Effects of metabolic end products; short-chain fatty acids from periodontal pathogens on biofilm formation of *Actinomyces naeslundii*

Saori Yoneda¹, Taketo Kawarai¹, Yoji Saeki², Takanori Tsugane², Hidenobu Senpuku¹, Kuniyasu Ochiai³

¹Dept Bacteriol, Natl Inst Infect Diseases, ²Central Lab, LOTTE Co, LTD, ³Dept Bacteriol, Nihon Univ, Dent Sch

SS4-6

Strategy for prevention of oral diseases by controlling bacterial metabolism

Kazuko Nakajo, Hitomi Domon, Junko Kawashima, Yoko Yagishita, Nobuhiro Takahashi

Div Oral Ecol Biochem, Tohoku Univ, Grad Sch Dent

SS4-7

Correlation between ecological balance of oral indigenous microflora and oral health status

Toru Takeshita¹, Yoshio Nakano¹, Masaki Yasui¹, Takashi Kumagai², Yoshihisa Yamashita¹

¹Dept Preventive Dent, Kyushu Univ, Fac Dent Sci, ²Hiyoshi Dental Office

Satellite Symposium 5: Consideration of the Studies of Oral Function and the Central Nervous System—From Neuron to Whole Body—

Makoto Funahashi

Dept Oral Physiol, Hokkaido Univ, Grad Sch Dent Med

Tomio Inoue

Dept Oral Physiol, Showa Univ, Grad Sch Dent

SS5-1

Voltage-dependent switching between two functional modes in primary sensory neurons in the

mesencephalic trigeminal nucleus

Mitsuru Saito, Youngnam Kang

Dept Neurosci Oral Physiol, Osaka Univ, Grad Sch Dent

SS5-2

Heterogeneity and hierarchy in skeletal muscle activation during sleep

Takafumi Kato^{1,2,3}, Yuji Masuda^{1,2}, Toshifumi Morimoto^{1,2}

¹Inst Oral Sci, ²Grad Sch Oral Med, ³Hospital, Dent Sleep Med Clinic, Matsumoto Dent Univ

SS5-3

Role of the cerebral cortex in somatosensory processing during mastication

Kensuke, Yamamura, Masayuki, Kurose, Yoshiaki Yamada

Div Oral Physiol, Niigata Univ, Grad Sch Med Dent Sci

SS5-4

Voluntary swallowing and oral sensation in young and elderly humans

Rika Yahagi¹, Tetsuya Suzuki¹, Yasuyuki Kitada²

¹Dept Removable Prosthodont, ²Dept Oral Physiol, Iwate Med Univ, Sch Dent

SS5-5

Nicotinic receptor in the subfornical organ and oral functions

Kentaro Ono, Masaki Hirase, Tomohiro Inagaki, Nobuyuki Miyahara, Kiyotoshi Inenaga

Dept of Biosci, Kyushu Dent Coll

SS5-6

Methodological improvement of electrophysiology by the use of acutely dissociated neurons

Susumu Koyama

Dept Psychosomatic Med, Fac Pharm Sci, Fukuoka Univ

Satellite Symposium 6: For the Bright Future of Calcified Tissue Research

Nobuyuki Udagawa

Dept Biochem, Matsumoto Dent Univ

Hitoshi Amano

Dept Pharmacol, Showa Univ, Sch Dent

SS6-1

Morphological examinations on bone mineralization

Li Minqi

Cen Transdisciplinary Res, Niigata Univ

SS6-2

A novel KRAB/C2H2 zinc finger transcription factor, AJ18, is a negative regulator of osteogenesis and chondrogenesis

Suzuki N

Dept Biochem, Nihon Univ, Sch Dent

SS6-3

Endogain stimulates matrix degradation by osteoblasts

Goda S, Ikee T

Dept Biochem, Osaka Dent Univ

SS6-4

Kampo medicine therapy for oral diseases

Ara T, Hattori T, Imamura Y, Wang PL

Dept Pharmacol, Matsumoto Dent Univ

SS6-5

Orphan ligand library screening for identifying osteoclastogenesis-related compounds

Egusa H

Dept Fixed Prosthodont, Osaka Univ, Grad Sch Dent

SS6-6

Osteoclast differentiation, apoptosis and bone resorption

Okazaki M¹, Karakawa A¹, Fukawa Y², Sano T³, Amano H¹, Yamada S¹

¹Dept Pharmacol, ²Dept Periodont, ³Dept Oral Anat, Showa Univ, Sch Dent

Satellite Symposium 7: Light and Shadow of Bisphosphonates

Eijiro Jimi

Div Mol Biochem, Dept Biosci, Kyushu Dent Coll

Yoichi Miyamoto

Dept Biochem, Showa Univ, Sch Dent

SS7-1

Mechanism of bisphosphonate action on osteoclasts

Masamichi Takami

Dept Biochem, Showa Univ, Sch Dent

SS7-2

Mechanisms of action of bisphosphonates on cancer

Toru Hiraga

Dept Histol Cell Biol, Sch Dent, Matsumoto Dent Univ

SS7-3

Osteoporosis and bisphosphonates

Ichiro Nakamura

Dept Orthoped Surg, Yugawara Kosei-nenkin Hosp

SS7-4

Present condition of osteonecrosis of the jaws associated with bisphosphonate therapy

Masahiro Urade

Dept Dent Oral Surg, Hyogo Coll Med

Luncheon Seminar

LS1

The discovery of microRNAs paves the new way to cancer research

—Focusing on head and neck cancer and gynecological cancer—

Takeru Zama

Div Hematol, Dept Med, Keio Univ Sch Med

LS2-1

Introduction and application of virtual slide and laser microdissection system

Junzo Kawaguchi

Carl Zeiss MicroImaging Co, Ltd

LS2-2

A variety of analytical methods from tissue section by laser microdissection

Gou Yamamoto

Dept Oral Pathol Diagnosis, Showa Univ, Sch Dent

LS3-1

Novel approach for Biomarker Discovery

—Laser Microdissection for proteome analysis with FFPE sections—

Seiko Yamada

Research/Clinical Div, Leica Microsystems K.K

LS3-2

Protein biomarker discovery and validation using formalin-fixed paraffin-embedded tissues: Tissue-to-serum/MS-based validation assay strategy

Toshihide Nishimura

Dept Surg, Tokyo Med Univ

LS4

Agilent Microarray: total solutions empowering your genomics research by an integrated, flexible, open approach

Yuko Sawada

Agilent Technologies Japan, Ltd

■ Oral Presentation

O-1 1A1120	Development of a transgenic bioengineered tooth germ using organ-germ culture system ○Wada T ^{1,2} , Homma H ^{1,3} , Saito M ¹ , Yoneda T ¹ (¹ Dept of Biochemistry, Grad Sch of Dentistry, Osaka Univ., ² Faculty of Industrial Science and Technology, Tokyo Univ. of Science, ³ Dept of Pediatric Dentistry, Grad Sch of Dentistry, Osaka Univ.)
O-2 1A1130	Reproduction of calcified tissue using mouse dental pulp cells ○Hagiwara T ¹ , Nakamichi Y ² , Nakamura M ³ , Nakamura H ⁴ , Takahashi N ² , Udagawa N ³ (¹ Div. of Hard Tissue Res., Grad. Sch. of Oral Med., Matsumoto Dental Univ., ² Dept. of Hard Tissue Res., Institute for Oral Science, Matsumoto Dental Univ., ³ Dept. of Oral Biochemistry, Matsumoto Dental Univ., ⁴ Dept. of Pediatric Dentistry, Matsumoto Dental Univ.)
O-3 1A1140	NF- κ B suppress BMP signaling ○Yamazaki M ¹ , Fukushima H ² , Katagiri T ³ , Takahashi T ¹ , Ji E ² (¹ Div. of Oral and Maxillofacial Reconstructive Surgery, Department of Oral and Maxillofacial Surgery, Kyushu Dental College, ² Div. of Molecular Signaling and Biochemistry, Dept. of Bioscience, ³ Div. of Pathophysiology, Saitama Medical School, Research Center for Genomic Medicine)
O-4 1A1150	OCP/Collagen enhances bone regeneration in a dose-depend manner of OCP ○Kawai T ^{1,2} , Anada T ² , Honda Y ² , Kamakura S ³ , Matsui A ^{1,2} , Matsui K ¹ , Echigo S ¹ , Suzuki O ² (¹ Div. of Oral Surgery, Tohoku Univ. Grad. Sch. of Dentistry, ² Div. of Craniofacial Function Engineering, Tohoku Univ. Grad. Sch. of Dentistry, ³ Div. of Bone Regenerative Engineering, Tohoku Univ. Grad. Sch. of Biomedical Engineering)
O-5 1A1200	Regeneration of alveolar bone using side population cells in periodontal ligament ○Ninomiya T ¹ , Hiraga T ² , Ohnuma K ³ , Hosoya A ² , Asashima M ³ , Nakamura H ² , Ozawa H ¹ (¹ Institute for Oral Science, Matsumoto Dental Univ., ² Dept. Histology and Cell Biology, Matsumoto Dental Univ., ³ Dept. Area Studies Graduate School of Arts and Sciences The Univ. of Tokyo)
O-6 1A1210	Activation of growth factor and negative regulator in muscle fiber of mice during pre-natal development and regeneration period ○Abe S ^{1,2} , Honda H ¹ , Hiroki E ¹ , Iwanuma O ¹ , Ide Y ¹ (¹ Dept. of Anatomy, Tokyo Dental College, ² Oral Health Science Center HRC7, Tokyo Dental College)
O-7 1B0930	Mouse keratinocytes cell survival: the role of ceramide kinase regulated by peroxisome proliferator-activated receptor beta ○Tsujii K ¹ , Horiuchi N ¹ (¹ Dept. of Biochemistry, Ohu Univ. Sch. of Dentistry)
O-8 1B0940	DEC1 modulates circadian phase of clock gene expression ○Kawamoto T ¹ (¹ Department of Dental and Medical Biochemistry, Hiroshima Univ. Grad. Sch. of Biomedical Sciences)
O-9 1B0950	Implication of PRIP in the insulin-induced membrane insertion of GABA _A receptors ○Kanematsu T ¹ , Hirata M ¹ (¹ Lab. of Mol. & Cell. Biochem., Fac. of Dent. Sci., Kyushu Univ.)
O-10 1B1000	Molecular mechanisms of <i>Streptococcus intermedius</i> induced human bile duct cell death ○Hirota K ¹ , Okamura H ² , Yoshida K ³ , Haneji T ² , Miyake Y ¹ (¹ Dept. of Oral Microbiology, ² Dept. of Histology and Oral Histology, ³ Dept. of Fundamental Oral Health Science)
O-11 1B1010	Association of <i>Streptococcus gordonii</i> phosphoglucosamine mutase with its bacterial cell morphology, biofilm formation and sensitivity to antibiotics ○Shimazu K ¹ , Takahashi Y ² , Karibe H ¹ , Uchikawa Y ¹ , Shimazu Y ³ , Yajima A ² , Takashima E ² , Aoba T ³ , Konishi K ² (¹ Dept. of Pediatric Dentistry, Nippon Dental Univ. Sch. of Life Dentistry, ² Dept. of Microbiology, Nippon Dental Univ. Sch. of Life Dentistry, ³ Dept. of Pathology, Nippon Dental Univ. Sch. of Life Dentistry)
O-12 1B1020	Characterization of peptide with inhibition effect on <i>S. mutans</i> adherence to tooth surface ○Senpuku H ¹ , Okuda K ¹ (¹ Dept. of Bacteriology, National Institute of Infectious Diseases)
O-13 1B1030	Reactivation of latent HIV-1 infection by the periodontopathic bacterium <i>P. gingivalis</i> involves histone modification ○Imai K ¹ , Ochiai K ² , Okamoto T ¹ (¹ Dept. of Mol. Cell. Biol., Nagoya City Univ. Med. Sci., ² Dept. of Microbiology, Nihon Univ. Sch. of Dent.)
O-14 1B1040	Biofilm-like cell surface structure and pathogenicity of <i>Escherichia hermannii</i> isolated from a persistent apical periodontitis lesion ○Yamanaka T ¹ , Sugimori C ¹ , Mashimo C ¹ , Yoshida M ² , Hayashi H ² , Yamane K ¹ , Fukushima H ¹ (¹ Dept of Bacteriol, Osaka Dent. Univ., ² Dept of Endodontics, Osaka Dent. Univ.)
O-15 1B1050	<i>Fusobacterium nucleatum</i> enhances invasion of host cells by <i>Porphyromonas gingivalis</i> ○Saito A ^{1,2} , Inagaki S ^{1,3} , Kimizuka R ^{1,3} , Ishihara K ^{1,3} (¹ Oral Health Science Center, Tokyo Dental College, ² Dept. of Clinical Oral Health Science, ³ Dept. of Microbiology)
O-16 1B1100	Viral determinants of MuLV affects intracellular trafficking of mCAT1 ○Fujisawa R ¹ (¹ Dept. Microbiology, Dokkyo Medical Univ. Sch. of Med.)
O-17 1B1110	Ozonated Water Inhibits the Activity of Lipopolysaccharide against Odontoblast-Like Cells ○Noguchi F ¹ , Kitamura C ¹ , Nagayoshi M ¹ , Terashita M ² , Nishihara T ³ (¹ Div. of Pulp Biology, Operative Dentistry, Endodontics, Kyushu Dental College, ² Div. of Comprehensive Dentistry, Kyushu Dental College, ³ Div. of Infections and Molecular Biology, Kyushu Dental College)
O-18 1B1120	An <i>E. coli</i> expression system of the V8 protease family ○Nemoto TK ¹ , Ono T ¹ , Shimoyama Y ² , Kimura S ² , Ohara-nemoto Y ¹ (¹ Dept. of Oral Mol. Biol., Nagasaki Univ. Grad. Sch. Biomed. Sci., ² Dept. of Oral Microbiol., Iwate Med. Univ. Sch. of Dent.)
O-19 1B1130	A quinol peroxidase inhibitor prevents <i>Aggregatibacter actinomycetemcomitans</i> to produce leukotoxin ○Takashima E ¹ , Yamada H ¹ , Konishi K ¹ (¹ Dept. of Microbiol., Sch. of Life Dent. Tokyo, Nippon Dent. Univ.)
O-20 1B1140	The efficacy of CpG oligodeoxynucleotides as an adjuvant for the development of oral vaccine against <i>Porphyromonas gingivalis</i> infection ○Liu C ¹ , Hashizume T ¹ , Kurita-ochiai T ¹ , Fujihashi K ² , Yamamoto M ¹ (¹ Dept. of Microbiol. Immunol., Nihon Univ. Sch. Dent. at Matsudo, ² Dept. of Pediatric. Dent., Univ. Alabama)

O-21 1B1150	Protective immunity to <i>P. gingivalis</i> induced by nasal immunization with a fusion protein of hemagglutinin A and maltose-binding protein ○Du Y ^{1,3} , Hashizume T ¹ , Kurita-ochiai T ¹ , Abiko Y ² , Yamamoto M ¹ (¹ Dept. of Microbiol. Immunol., Nihon Univ. Sch. Dent. at Matsudo, ² Dept. of Bioche., Nihon Univ. Sch. Dent. at Matsudo, ³ Stomatology Colle. of Tianjin Med. Univ.)
O-22 1B1200	Experimental model used hydroxyapatite sheet for periodontal disease in rat ○Tamura M ^{1,2} , Kikuchi K ^{1,2} , Ochiai K ^{1,2} (¹ Dept. of Microbiology, Nihon Univ. Sch. of Dentistry, ² Div. of Immunology and Pathobiology, Dental Research Center, Nihon Univ. Sch. of Dentistry)
O-23 1B1210	Development of detection system for the adhesion of macrophages in a microchannel chip ○Tsumumi T ^{1,2} , Kasai H ¹ , Yokota M ¹ , Nishihara T ² (¹ Division of Periodontology, Department of Cariology and Periodontology, Kyushu Dental College, ² Division of Infections and Molecular Biology, Department of Health Promotion, Kyushu Dental College)
O-24 1B1220	Development of electrochemical immunosensor based on charge colarization ○Yanagida Y ^{1,2} , Yoshioka I ¹ , Tominaga K ¹ , Nishihara T ² (¹ Department of Oral and Maxillofacial Surgery, Division of Maxillofacial Diagnostic and Surgical Science, Kyushu Dental College, ² Department of Health Promotion, Division of infections and Molecular Biology, Kyushu Dental College)
O-25 1C0930	Necrotic actions of nitrogen-containing bisphosphonates (NBPs): augmentation by lipopolysaccharide (LPS), a constituent of cell walls of gram-negative bacteria ○Oizumi T ^{1,2} , Yamaguchi K ¹ , Kawamura H ¹ , Sugawara S ² , Endo Y ² (¹ Dept. of Oral and Maxillofacial Surgery, University of Tohoku, ² Dept. of Oral Microbiology, University of Tohoku)
O-26 1C0940	Phosphatidylserine-containing liposome as a novel therapeutic intervention against abnormal bone destruction ○Wu Z ¹ , Ma HM ¹ , Nakanishi H ¹ (¹ Lab. Oral Aging Sci., Kyushu Univ. Fac. Dent. Sci.)
O-27 1C0950	Nanogel cross-linking hydrogel as a drug delivery system for the peptide type of drugs ○Alles N ¹ , Soysa N ¹ , Aoki K ¹ , Ohya K ¹ (¹ Dept Hard Tissue Engineering (Pharmacology), Tokyo Med & Dent Univ. Grad Sch.)
O-28 1C1000	Mechanism and role of NIK aly mutant in bone metabolism ○Fukushima H ¹ , Nakao K ¹ , Jimi E ¹ (¹ Dept. of Molecular Signaling and Biochemistry)
O-29 1C1010	Heparin and BMP-2 promote osteoclast differentiation through osteoblasts ○Tachi K ^{1,2} , Takami M ¹ , Baba K ² , Yamada A ¹ , Mochiduki A ³ , Inoue T ³ , Kamijo R ¹ (¹ Dept. of Oral Biochemistry, Univ. of Showa, ² Dept. of Prosthodontics, Univ. of Showa, ³ Dept. of Oral Physiology, Univ. of Showa)
O-30 1C1020	Minocycline inhibits osteoclast differentiation, but promotes dendritic cell differentiation ○Kinugawa S ¹ , Koide M ² , Ninomiya T ² , Kawahara I ² , Kobayashi Y ² , Nakamura H ³ , Udagawa N ^{1,4} , Takahashi N ^{1,2} (¹ Div. of Hard Tissue Res., Grad. Sch. of Oral Med, Matsumoto Dental Univ., ² Div. of Hard Tissue Res., Institute for Oral Science, Matsumoto Dental Univ., ³ Dept. of Oral Histology, Matsumoto Dental Univ., ⁴ Dept. of Oral Biochemistry, Matsumoto Dental Univ.)
O-31 1C1030	Screening of CCN2/CTGF module binding peptides with a phage display library and their utility ○Aoyama E ¹ , Kubota S ² , Kawaki H ² , Takigawa M ^{1,2} (¹ Bident. Res. Cent., Okayama Univ. Dent. Sch., ² Dept. Biochem. Mol. Dent., Okayama Univ. Grad. Sch. Med. Dent. Pharm. Sci.)
O-32 1C1040	A role of Smad1 phosphorylation and dephosphorylation in BMP signaling ○Kokabu S ^{1,2} , Nojima J ¹ , Yoda T ² , Katagiri T ¹ (¹ Div. of Pathophysiology, RCGM, Saitama Medical University, ² Oral and Maxillofacial Surgery, Saitama Medical University)
O-33 1C1050	Functional analysis of a secreted cysteine-rich peptide, SCRG1, in human mesenchymal stem cells ○Chosa N ¹ , Takahashi N ¹ , Kyakumoto S ¹ , Kamo M ¹ (¹ Dept. of Biochem., Iwate Med. Univ. Sch. of Dent.)
O-34 1C1100	Accurate prediction of mechanical properties of trabecular bone considering the morphology ○Takano N ¹ , Matsunaga S ² , Ide Y ² (¹ Dept. of Mechanical Engineering, Keio University, ² Dept. of Anatomy, Tokyo Dental College)
O-35 1C1110	Mechanical application of Ni-free shape memory alloy for maxillofacial treatment ○Kanetaka H ^{1,2} , Shimizu Y ³ , Kudo T ⁴ , Hosoda H ⁵ , Sasaki K ² (¹ Center for Research Strategy and Support, Tohoku Univ., ² Div. of Advanced Prosthetic Dentistry, Grad. Sch. of Dent., Tohoku Univ., ³ Div. of Oral and Craniofacial Anatomy, Grad. Sch. of Dent., Tohoku Univ., ⁴ Div. of Oral Physiology, Grad. Sch. of Dent., Tohoku Univ., ⁵ Div. of Advanced Materials, Precision and Intelligence Lab., Tokyo Institute of Tech.)
O-36 1C1120	Molecular networks governing process-fusion during mouse craniofacial development ○Taya Y ¹ , Fujita K ¹ , Sato K ¹ , Aoba T ¹ (¹ Dept. of Pathology, Nippon Dental Univ.)
O-37 1C1130	The development of a rat calvarial organ culture system replicating the calcification process in vivo ○Kimura Y ^{1,2} , Kikunaga S ³ , Takahashi I ⁴ , Hatakeyama Y ⁵ , Fukumoto S ¹ , Sasano Y ² (¹ Pediatric Dentistry Tohoku Univ. Grad. Sch. Dent., ² Craniofacial Development and Regeneration, Tohoku Univ. Grad. Sch. Dent., ³ Faculty of Sciences of Human Life, Notre Dame Seishin Univ., ⁴ Orthodontics and Dentofacial Orthopedics, Tohoku Univ. Grad. Sch. Dent., ⁵ Dept. Functional Structure Section, Fukuoka Dental Collage)
O-38 1C1140	The effects of tachykinin on the bone formation of rat primary osteoblastic cells ○Goto T ¹ , Ichiki T ² , Gunjigake K ³ , Nakao K ⁴ , Kobayashi S ¹ (¹ Div. of Anatomy, Kyushu Dental College, ² Student, Kyushu Dental College, ³ Div. of Orofacial Functions and Orthodontics, Kyushu Dental College, ⁴ Div. of molecular signaling and biochemistry, Kyushu Dental College)
O-39 1C1150	Posttranslational modifications of tubulin in osteoclasts ○Akisaka T ¹ , Yoshida H ¹ (¹ Div. of Oral Anatomy, Sch. of Dent, Asahi Univ.)
O-40 1C1200	Wnt/beta-catenin signaling regulates cranial base development and growth of mouse ○Nagayama M ¹ , Takeuchi H ¹ (¹ Div of Oral Pathology, Asahi Univ. Sch of Dentistry)

O-41 1C1210	The expression and functional analysis of Cartducin in the developing mouse mandibular condylar cartilage ○Tamaki T ¹ , Maeda T ² , Shibata S ¹ (¹ Div. of Histology, Dept. of Oral Growth and Development, Sch. of Dentistry, Health Sciences University of Hokkaido. ² Dept. of Oral Anatomy and Developmental Biology, Grad. Sch. of Dentistry, Osaka University)
O-42 1C1220	Hand2 represses chondrogenesis ○Abe M ¹ , Michikami I ^{1,2} , Ooshima T ² , Wakisaka S ¹ (¹ Dept. of Oral Anatomy and Developmental Biology, Osaka Univ. Grad. Sch. of Dentistry. ² Dept. of Pediatric Dentistry, Osaka Univ. Grad. Sch. of Dentistry)
O-43 1D1120	Roles of teeth and tooth-related organs during developmental periods in emergences of oscillatory neural activities in the oral somatosensory cortex ○Yoshimura H ^{1,2} (¹ Dept. Oral and Maxillofaci. Surg. Kanazawa Med. Univ., ² Dept. Physiol. Kanazawa Med. Univ.)
O-44 1D1130	Effect of nerve injury on the responses of the sensory trigeminal nucleus neurons to mechanical stimulation in rats ○Tsuboi Y ¹ , Iwata K ¹ (¹ Dept. of Physiology, Nihon Univ. Sch. of Dent.)
O-45 1D1140	Response properties of the mechanosensitive neurons innervating the temporomandibular joint during passive movement and masticatory jaw movement of the rabbit ○Takafuji Y ¹ , Tsuboi A ¹ , Itoh S ¹ , Nagata K ¹ , Tabata T ¹ , Watanabe M ¹ (¹ Div. of Aging and Geriatric Dentistry, Grad. Sch. of Dentistry, Tohoku Univ.)
O-46 1D1150	Cortical area inducing twitch response in the oro-facial region of guinea pigs ○Fujimoto M ¹ , Toi S ¹ , Isogai F ² , Katou T ¹ , Morimoto T ¹ , Yosida A ² , Masuda Y ¹ (¹ Dept. of Oral and Maxillofacial Biology, Grad. Sch. of Oral Medicine, Matsumoto Dental Univ., ² Dept. of Oral Anatomy and Neurobiology, Grad. Sch. of Dent, Osaka Univ.)
O-47 1D1200	Abnormal movements of the articular disk on the working and blancing sides during fictive mastication of rabbits under unilaterally bite-raising condition ○Maruo H ¹ , Morita T ² , Fujiwara T ³ , Negro T ³ , Kurita K ¹ , Goto S ³ , Hiraba K ² (¹ Dept. of Oral & Maxillofacial Surgery, Sch. of Dentistry, Aichi-Gakuin Univ., ² Dept. of Physiology, Sch. of Dentistry, Aichi-Gakuin Univ., ³ Dept. of Orthodontics, Sch. of Dentistry, Aichi-Gakuin Univ.)
O-48 1D1210	Effects of bite opening on electromyographic pattern in chewing behavior and circadian rhythm in rat jaw muscles ○Ohnuki Y ¹ , Kawai N ² , Tanaka E ³ , Tanne K ² , Saeki Y ¹ (¹ Dept. of Physiol., Tsurumi Univ. Sch. of Dent. Med., ² Dept. of Orthod. Craniofac. Develop. Biol., Hiroshima Univ. Grad. Sch. of Biomed. Sci., ³ Dept. of Orthod. Dentofac. Orthoped., The Univ. of Tokushima Grad. Sch. of Oral Sci.)
O-49 1E0930	Inhibition of leptin expression by simvastatin via cAMP/PKA pathway ○Maeda T ¹ , Kawane T ¹ , Tsuji K ¹ , Horiuchi N ¹ (¹ Sec. of Biochemistry Dept. of Oral Function and Molecular Biology, Ohu Univ.)
O-50 1E0940	Real-time monitoring of intra-, intercellular Ca ²⁺ wave and IP ₃ mobilization induced by mechanical touch stimulation in HSY-EA1 cells ○Nezu A ¹ , Tanimura A ¹ , Morita T ¹ , Tojyo Y ¹ (¹ Div. of Pharmacology, Sch. of Dentistry, Health Sciences Univ. of Hokkaido)
O-51 1E0950	Effect of myeloid cell leukemia-1 on cell growth of oral squamous cell carcinoma ○Nagata M ¹ , Wada K ¹ , Kusayama M ^{1,2} , Kogo M ² , Kamisaki Y ¹ (¹ Dept. of Pharmacol., Grad.Sch. of Dent., Osaka Univ., ² 1st Dept. of Oral and Maxillofacial Surg., Grad.Sch. of Dent., Osaka Univ.)
O-52 1E1000	Bone regeneration by implantation of Octacalcium phosphate (OCP)/alginate composite ○Fuji T ^{1,2} , Anada T ¹ , Honda Y ¹ , Shiwaku Y ^{1,2} , Sasaki K ² , Suzuki O ¹ (¹ Division of Craniofacial Function Engineering, Tohoku University Graduate School of Dentistry, ² Division of Advanced Prosthetic Dentistry, Tohoku University Graduate School of Dentistry)
O-53 1E1010	In vivo experiment of magnesium alloys as biodegradable materials ○Shimizu Y ¹ , Yamamoto A ² , Mukai T ³ , Shirai Y ² , Kano M ¹ , Okayama K ¹ , Kudo T ⁴ , Kanetaka H ⁵ , Kikuchi M ¹ (¹ Div. of Oral and Craniofacial Anatomy, Grad. Sch. of Tohoku Univ., ² Biomaterial Center, NIMS, ³ Structural Metals Center, NIMS, ⁴ Div. of Oral Physiology, Grad. Sch. of Dent., Tohoku Univ., ⁵ CRESS, Tohoku Univ.)
O-54 1E1020	Adenosine cancels antifolate drugs-induced suppression of osteoclastogenesis ○Teramachi J ¹ , Kukita A ³ , Li YJ ² , Nagata K ² , Kukita T ¹ (¹ Dept. of Hard Tissue Regeneration Control and Science, Faculty of Dental Science, Kyushu Univ., ² Dept. of Oral Pathology, Faculty of Dental Science, Kyushu Univ., ³ Dept. of Biodefense, Faculty of Medicine, Saga Univ.)
O-55 1E1030	Analysis of the mechanism by which hyaluronic acid inhibits NGF-induced neurite outgrowth of PC12 cells ○Washio A ¹ , Kitamura C ² , Terashita M ³ , Nishihara T ¹ (¹ Div. of Infection and Molecular Biology, Kyushu Dental Collage, ² Div. of Pulp Biology, Operative Dentistry, Endodontics, Kyusyu Dental Collage, ³ Div. of Conprehensive Dentistry, Kyushu Dental Collage)
O-56 1E1040	Analysis of dysfunction of glycine signaling during initiation of neuropathic pain ○Kitayama T ¹ , Morita K ¹ , Motoyama N ² , Nishimura F ² , Dohi T ¹ (¹ Dept. of Dent. Pharmacol., Hiroshima Univ. Grad. Sch. of Biomed. Sci., ² Dept. of Dent. Sci. for Health Promotion, Hiroshima Univ. Grad. Sch. of Biomed. Sci.)
O-57 1E1050	Regulatory effects of nicotine on transcriptional activity of human dopamine transporter gene ○Sogawa N ¹ , Ohyama K ^{1,2} , Sogawa C ¹ , Hirai K ¹ , Morita K ³ , Dohi T ³ , Kitayama S ¹ (¹ Dept. of Dent. Pharmacol., Okayama Univ. Grad. Sch. of Med. Dent. and Pharmaceut. Sci., ² RI Res. Cent., Okayama Univ. Dent. Sch., ³ Dept. of Dent. Pharmacol., Okayama Univ. Grad. Sch. of Med. Dent. and Pharmaceut. Sci.)
O-58 2A1120	<i>In vitro</i> model of cartilage degradation with chondrocytes in a 3-dimensional culture system—Evaluation of the additional effects of Steroid and NSAIDs— ○Yamashita K ^{1,2} , Nakashima K ² , Kurita K ² (¹ Dept. of Biochemistry, Sch. of Dentistry, Aichi-gakuin Univ., ² Dept. of Oral and Maxillofacial Surgery, Sch. of Dentistry, Aichi-Gakuin Univ.)
O-59 2A1130	Roles of PI3K and p38MAPK in rat neutrophil chemotaxis induced by fMLP—Analysis by EZ-Taxiscan— ○Azuma Y ¹ , Kashimata M ¹ (¹ Dept. Dental Pharmacology, Asahi Univ. Sch. of Dentistry)
O-60 2A1140	Inflammatory relation in gingival epithelial cells under the mechanical stress ○Toshinaga A ^{1,2} , Hosokawa R ¹ (¹ Dept. of Oral Reconstruction and Rehabilitation, Kyushu Dental College, ² Dept. of Health Promotion, Kyushu Dental College)

O-61 2B0930	Finding growth factors and components that stimulates tooth root elongation ○Ota M ¹ , Okuhara S ¹ , Iseki S ¹ (¹ Unit of Mol. cranio-facial emb, Grad. Sch. Tokyo Med. Dent. Univ.)
O-62 2B0940	Histology and elemental composition of the reparative dentins in human permanent incisors, canines, premolars and molars ○Takahashi M ¹ , Goto S ² (¹ Dept. of Dental Hygiene, Nippon Dental Univ. Col. at Niigata, ² Dept. of Dental Material Sci., Sch. of Life Dentistry at Niigata, Nippon Dental Univ.)
O-63 2B0950	Structure and development of tooth attachment in the upper teeth of gobiid fish (<i>Sicyopterus japonicus</i>) ○Moriyama K ¹ , Watanabe S ² , Iida M ² , Fukui S ² , Sahara N ¹ (¹ Grad. Sch. of Matsumoto Dental Univ., ² Ocean Research Institute, The University Tokyo, ³ Wakayama)
O-64 2B1000	Osteogenic potential of periodontal ligament cells in vivo ○Hiraga T ¹ , Ninomiya T ² , Hosoya A ¹ , Nakamura T ¹ (¹ Dept. Histology and Cell Biology, Matsumoto Dental Univ., ² Institute for Oral Science, Matsumoto Dental Univ.)
O-65 2B1010	Detection of FGF18 in rat dental pulp by utilizing in situ RT-PCR ○Baba O ¹ , Ota M ² , Terashima T ³ , Tabata MJ ¹ , Takano Y ¹ (¹ Biostructural Science, Grad. Sch. of Tokyo Medical & Dental Univ., ² Molecular Craniofacial Embryology, Grad. Sch. of Tokyo Medical & Dental Univ., ³ Maxillofacial Anatomy, Grad. Sch. of Tokyo Medical & Dental Univ.)
O-66 2B1020	Responses and differentiation capacity of dental pulp stem cells following allogenic tooth transplantation in mouse molars ○Ohshima H ¹ , Ishikawa Y ¹ , Suzuki H ¹ , Kenmotsu S ¹ , Ohshima K ² (¹ Div. of Anatomy and Cell Biology of the Hard Tissue, Niigata Univ. Grad. Sch. of Medical and Dental Sciences, ² Pediatric Dentistry, Niigata Univ. Medical and Dental Hospital)
O-67 2B1030	A polymorphic expression of amelogenin genes may have induced the formation of enamel prisms in the agamid lizard, <i>Uromastyx</i> ○Ishiyama M ¹ , Mikami M ² , Oka S ³ , Imai A ⁴ , Shimomura H ⁴ , Oida S ⁵ (¹ Dept. of Histology, Sch. of Life Dent. at Niigata, Nippon Dent. Univ., ² Dept. of Microbiol., Sch. Life Dent. at Niigata, Nippon Dent. Univ., ³ Dept. of Biol., Sch. Life Dent. at Niigata, Nippon Dent. Univ., ⁴ Dept. of Biochem., Sch. Life Dent. at Niigata, Nippon Dent. Univ., ⁵ Dept. of Biochem., Sch. of Dent., Tsurumi Univ.)
O-68 2B1040	HERS-adjacent Aquaporin1 and Nestin expression in the developing PDL ○Kawano Y ¹ , Kinoshita-kawano S ^{1,2} , Suzuki A ¹ , Nozawa-inoue K ¹ , Maeda T ¹ (¹ Div. of Oral Anatomy, Niigata Univ. Grad. Sch. of Medical & Dental Sciences, ² Div. of Pediatric Dentistry, Niigata Univ. Grad. Sch. of Medical & Dental Sciences)
O-69 2B1050	The gene expression of intracellular calcium-dependent protease in the enamel epithelium during tooth morphogenesis ○Matsunaga T ¹ , Yamamoto G ¹ , Isobe T ¹ , Irie T ¹ , Tachikawa T ¹ (¹ Dept. of Oral Pathology and Diagnosis, Univ. of Showa)
O-70 2B1100	Derivation and potential for differentiation of dental mesenchymal cells ○Komada Y ¹ , Kawazoe S ¹ , Yamazaki H ¹ (¹ Dept of. Physiology and Regenerative Medicine, Mie Univ. Grad. Sch. of Med)
O-71 2B1110	Expression of Matrix metalloproteinase regulated by Thymosin beta 4 in odontogenic cells ○Okuma Y ^{1,2} , Kobayashi I ¹ , Kiyoshima T ¹ , Fukiwake K ¹ , Nagata K ¹ , Fujiwara H ¹ , Nonaka K ² , Sakai H ¹ (¹ Laboratory of Oral Pathology and Medicine, Grad. Sch. of Kyushu, ² Dept. of Pediatric Dentistry, Grad. Sch. of Kyushu)
O-72 2B1120	Length polymorphisms of porcine dentin phosphoprotein (DPP) ○Yamakoshi Y ¹ , Kobayashi K ² , Nagano T ^{1,2} , Fukae M ³ (¹ Dept. of Biologic and Materials Science, Univ. of Michigan, ² Dept. of Periodontics and Endodontics, Tsurumi Univ. Sch. of Dent. Med., ³ Dept. of Biochemistry, Tsurumi Univ. Sch. of Dent. Med.)
O-73 2B1130	Development of tooth root form from the point of view from comparative anatomy ○Kozawa Y ¹ , Ohshima H ² , Niimi H ¹ , Oota-yokota R ¹ , Yamamoto H ¹ , Suzuki K ¹ (¹ Dept. Anat. Nihon Univ. School of Dentistry at Matsudo, ² Division of Anatomy and Cell Biology of the Hard Tissue, Niigata Univ. Grad. Sch. of Medical and Dental Sciences)
O-74 2C0900	Expression pattern of stem cell marker Prominin-1 in developing mouse submandibular gland ○Hieda Y ¹ , Kawai S ¹ (¹ Dept. of Biology, Osaka Dental Univ.)
O-75 2C0910	Immunohistochemical study by ion etching-immunoscanning electron microscopic method ○Yahiro J ¹ , Taniguchi K ¹ , Sawa Y ¹ (¹ Dept. of Morphological Biology, Fukuoka Dental College)
O-76 2C0920	Detection of aging marker using saliva ○Muramatsu T ^{1,2} , Shibayama K ^{1,3} , Sato Y ^{1,3} , Abiko Y ^{1,4} , Hashimoto S ^{1,2} , Shimono M ^{1,2} (¹ Oral Health Science Center HRC7, Tokyo Dental College, ² Dept. of Pathology, Tokyo Dental College, ³ Dept. of Biochemistry, Tokyo Dental College, ⁴ Dept. of Dental Science, Div. of Oral Medicine and Pathology, Institute of Personalized Medical Science, Health Science University of Hokkaido)
O-77 2C0930	Quantification of salivary chromogranin A as a marker for stress response to air-turbine noise in children ○Okano A ¹ , Miyamoto Y ² , Asari J ¹ , Kamijo R ² , Inoue M ¹ (¹ Department of Pediatric Dentistry, Showa University School of Dentistry, ² Department of Biochemistry, Showa University School of Dentistry)
O-78 2C0940	Alteration of BDNF receptor, TrkB mRNA in the various organs using acute immobilization stress model ○Tsukinoki K ¹ , Saruta J ² , Sato S ² (¹ Div. of Pathology, Kanagawa Dent. Col., ² Div. of Orthodontics, Kanagawa Dent. Col.)
O-79 2C0950	Expression pattern and function of tight junction proteins in SMIE, a rat submandibular gland-derived cell line ○Yoshigaki J ¹ , Sugiya H ¹ (¹ Dept. of Physiology, Nihon Univ. Sch. of Dentistry at Matsudo)
O-80 2C1000	An AQP5 G103D mutant found in SD rats shows normal water permeability but reduced membrane trafficking ○Karabasil M ¹ , Hasegawa T ¹ , Azlina A ¹ , Purwanti N ¹ , Yao C ¹ , Akamatsu T ¹ , Hosoi K ¹ (¹ Dept. of Mol. Oral Physiol., Inst. Health Biosci., Univ. of Tokushima Grad. Sch.)
O-81 2C1010	Increase of stress-induced BDNF expression in the rat salivary gland by biting ○Saruta J ¹ , Sasaguri K ¹ , Tsukinoki K ² , Sato S ¹ (¹ Department of Craniofacial Growth and Development Dentistry, Division of Orthodontics, ² Department of Maxillofacial Diagnostic Science, Division of Pathology)
O-82 2C1020	Role of Ras signaling in Snail induction by TGF-β ○Saitoh M ¹ , Tobiume K ² (¹ Dept. of Mol. Patho, Grad. Sch. of Medicine, Univ. of Tokyo, ² Dept. of mucosal immunology, Grad. Sch. of Biomedical sciences, Hiroshima Univ.)

O-83 2C1030	Three-dimensional visualization and morphometry of oral lesions ○Shimazu Y ¹ , Kudo T ¹ , Kanri Y ¹ , Yagishita H ¹ , Aoba T ¹ (¹ Dept. of Pathology, Nippon Dental Univ.)
O-84 2C1040	Identification of TWIST-targeted gene by GeneFishing method ○Okamura H ¹ , Yoshida K ² , Haneji T ¹ (¹ Dept. of Histology and Oral Histology, Institute of Health Biosciences, Univ. of Tokushima, ² Dept. Fundamental Oral Health Science, Institute of Health Biosciences, Univ. of Tokushima)
O-85 2C1050	Anoikis regulatory proteins in human oral squamous cell carcinoma cells ○Kamo M ¹ , Chen M ¹ , Kyakumoto S ¹ , Chosa N ¹ , Takahashi N ¹ (¹ Dept. of Biochemistry, Iwate Med. Univ., Sch. of Dentistry)
O-86 2C1100	Morphological alterations of oral squamous cell carcinomas induced by BMP2 ○Shin M ^{1,2} , Fukushima H ² , Kadowaki T ¹ , Jimi E ² (¹ Dept. of Pharmacology, Grad. Sch. of Kyushu, ² Dept. of Biosciences, Kyushu Dental College)
O-87 2C1110	Suppression of SPRR1B gene in oral squamous cell carcinoma; the cell biological significance in the development of oral malignancy ○Kondoh N ¹ , Yamazaki Y ² , Kitagawa Y ² , Shindoh M ³ , Kameyama Y ¹ , Yashiro K ¹ , Kamiya M ¹ (¹ Dept. of Oral Biochem, Asahi Univ., ² Dept. Oral Diag., Hokkaido Univ., ³ Dept. Oral Pathol. Diag., Hokkaido Univ)
O-88 2D0930	A putative regulatory mechanism of vascular growth found in the inflammatory lingual tissue of rats ○Hara Y ¹ , Kuroda N ¹ , Yamamoto S ² , Sato T ¹ (¹ Dept. of Anatomy II, Tsurumi University School of Dental Medicine, ² Department of Orthodontics, Tsurumi University School of Dental Medicine)
O-89 2D0940	Expression of VEGF mRNA in human periodontal tissue ○Noguchi K ¹ , Miwa Y ¹ , Sato I ¹ (¹ Dept. of Anat, Nippon Dent. Univ. Sch. of Life Dent.)
O-90 2D0950	Cyclic strain promotes myogenesis of bone marrow-derived stromal cells ○Kobayashi M ¹ , Egusa H ¹ , Matsumoto T ² , Yatani H ¹ (¹ Dept. of Fixed Prosthodontics, Grad. Sch. of Dentistry, Osaka Univ., ² Dept. of Biomaterial Science, Grad. Sch. of Dentistry, Osaka Univ.)
O-91 2E0930	Administration of LPS followed by anti-neutrophil monoclonal antibody induces anaphylactoid shock in mice ○Tanaka Y ¹ , Kuroishi T ¹ , Endo Y ¹ , Sugawara S ¹ (¹ Dept. of Molecular Regulation, Grad. Sch. of Dentistry, Tohoku Univ.)
O-92 2E0940	Localization of TLR2,4 present cells in periapical lesion ○Mutoh N ¹ , Watabe H ¹ , Chieda K ¹ , Tani-ishii N ¹ (¹ Div. of Endodontics Dept. of Oral Medicine, Kanagawa Dental College)
O-93 2E0950	Microarray analysis of gene expression of macrophages in response to the diacylated lipopeptide FSL-1 and its uptake manner by macrophages ○Hasebe A ¹ , Shamsul H ¹ , Iyori M ¹ , Kiura K ¹ , Ohtani M ¹ , Shibata K ¹ (¹ Dept. of Oral Pathobiol., Hokkaido Univ. Grad. Sch. of Dent. Med.)
O-94 2E1000	Identification of different dendritic cell subsets from oral mucosa in regional lymph nodes ○Chalermarp N ¹ , Azuma M ¹ (¹ Dept of Molecular Immunology, Grad Sch, Tokyo Med and Dent Univ)
O-95 2E1010	Accumulation of T cells into dermis of the ear in metal allergic mice ○Urano N ^{1,2} , Kawano M ² , Tanaka-isizaki K ² , Iwasaki Y ³ , Nakamura M ³ , Ogasawara K ^{1,2} (¹ Dept. of Oral immunol.&intractable diseases, Grad. Sch. of Dentistry, Tohoku Univ., ² Dept. of Intractable Diseases, IMCJ, ³ Dept. of Anatomy, Grad. Sch. of Dentistry, Showa Univ.)
O-96 2E1020	Analysis of salivary gland disorder and autoantibody by IL-18 overexpression in mice ○Sato K ^{1,2} , Kuroishi T ² , Tanaka Y ² , Nishioka T ^{1,2} , Sugawara Y ¹ , Sugawara S ² (¹ Division of Oral Diagnosis, Grad. Sch. of Dent., Tohoku Univ., ² Division of Oral Immunology, Grad. Sch. of Dent., Tohoku Univ.)

■ Poster Presentation

P-1 1P	Dynamic changes in distribution of periodontal nerve fibers during eruption and shedding of molar teeth of the cat ○Miki K ¹ , Honma S ¹ , Wakisaka S ¹ (¹ Dept. of Oral Anat. and Dev. Biol., Osaka Univ. Grad. Sch. Dent.)
P-2 1P	Appearance of negative regulator at the time of muscle regeneration ○Hiroki E ¹ , Iwanuma O ¹ , Abe S ¹ , Ide Y ¹ (¹ Dept. of Anatomy, Tokyo Dental College)
P-3 1P	Analysis of loading mechanism in the trabecular bone using multi-scale method ○Matsunaga S ¹ , Ohashi T ^{1,2} , Nakahara K ¹ , Tamatsu Y ³ , Takano N ⁴ , Ide Y ^{1,2} (¹ Dept. of Anatomy, Tokyo Dental College, ² Div. of Oral Imp Res, Oral Heal Sci Center, Tokyo Dental College, ³ Dept. of Gross Anatomy Sec, Kagoshima Univ. Graduate School of Med and Dent Sci, ⁴ Dept of Mech Eng, Keio Univ.)
P-4 1P	Three dimensional observation and morphometrical analysis of the bony palate internal structure in the Japanese ○Nakahara K ¹ , Matsunaga S ^{1,2} , Ohashi T ^{1,2} , Tamatsu Y ³ , Ide Y ^{1,2} (¹ Dept. of Anatomy, Tokyo Dental College, ² Div. of Oral Imp Res, Oral Heal Sci Center, Tokyo Dental College, ³ Dept. of Gross Anatomy Sec, Kagoshima Univ. Graduate School of Med and Dent Sci)
P-5 1P	An experimental study of the general and local changes related to the tooth movement in calcium-deficient rats ○Uozumi Y ¹ , Shimoda S ² , Kawasaki K ² (¹ Dept. of Orthodontic, Tsurumi Univ. of Dental Medicine, ² Dept. of Anatomy-1, Tsurumi Univ. of Dental Medicine)
P-6 1P	Immunolocalization of Hsp27 and Ki67 in oral epithelium during tooth eruption ○Sasaki A ^{1,2} , Yamada T ² , Doi T ^{1,2} , Inoue K ² , Kanegae H ¹ , Amano O ² (¹ Division of Orthodontics, Department of Human Development and Fostering, Meikai University School of Dentistry, ² Division of Anatomy, Department of Human Development and Fostering, Meikai University School of Dentistry)
P-7 1P	Roles of PI3K/Akt signaling pathway in osteoblastic differentiation ○Danjo A ¹ , Kido M ² , Yamaza T ² , Shimohira D ^{1,2} , Makino Y ² , Watanabe T ² , Yamashita Y ¹ (¹ Dept. of Oral Maxillofac. Surg., Saga Medical School, ² Dept. of Oral Anatomy and Cell Biology, Grad. Sch. of Dental Science, Kyushu Univ.)
P-8 1P	Expression VEGF in tooth germ in <i>Cynops pyrrhogaster</i> ○Miwa Y ¹ , Sato I ¹ (¹ Dept. of Anat, Nippon Dent. Univ. Sch. of Life Dent.)
P-9 1P	Trigeminal gap junctions: Potential involvement in pain induced by trigeminal nerve injury ○Suekawa Y ¹ , Watanabe M ² , Takahashi K ¹ , Ito G ¹ , Uchida T ² , Tanne K ¹ (¹ Dept. of Orthodontics and Craniofacial Developmental Biology, Hiroshima Univ. Grad. Sch. of Biomedical Sciences, ² Dept. of Oral Biology, Div. of Molecular Medical Science, Hiroshima Univ. Grad. Sch. of Biomedical Sciences)
P-10 1P	TRPV2 expression in the gingiva of the rat ○Shimohira D ¹ , Danjo A ² , Murata N ⁴ , Makino U ³ , Zhang Z ¹ , Yamaza T ¹ , Kido M ¹ (¹ Dept. of Oral Anatomy and Cell Biology, Grad Sch of Dent Science, Kyushu Univ. ² Dept of Oral and Maxillofacial Surgery, Saga Univ Grad Sch of Med Sci, ³ Dept of Fixed Prosthodontics, Grad Sch of Dent Sci, Kyushu Univ. ⁴ Dept of Orthodontics, Grad Sch of Dent Sci, Kyushu Univ)
P-11 1P	Immunohistochemical localization of Barx2 in the developing fetal mouse submandibular glands ○Naka T ¹ , Yokose S ¹ (¹ Dept. of Conservative Dentistry, Ohu Univ.)
P-12 1P	The bone surrounding a titanium implant in the rat maxilla ○Haga M ^{1,2} , Fujii N ³ , Nozawa-inoue K ² , Uoshima K ^{1,3} , Maeda T ² (¹ Div. of Oral Health in Aging and Fixed Prosthodontics, Niigata Grad. Sch. of Medical and Dental Sciences, ² Div. of Oral Anatomy, Niigata Grad. Sch. of Medical and Dental Sciences, ³ General Dentistry and Clinical Education Unit, Niigata Univ. Medical and Dental Hospital)
P-13 1P	Amelogenin inhibits odontoclastic root resorption in vivo ○Yagi Y ¹ , Suda N ¹ , Yamakoshi Y ² , Baba O ³ , Moriyama K ¹ (¹ Maxillofacial Orthognathics, Grad. Sch. of Tokyo Medical and Dental Univ., ² Biologic and Materials Sciences, Div. of Prosthodontics, Sch. of Dentistry, Univ. of Michigan, ³ Biostructural Science, Dept. of Hard Tissue Engineering, Grad. Sch. of Tokyo Medical and Dental Univ.)
P-14 1P	Role of gap junction on Salivary gland branching morphogenesis ○Suzuki H ¹ , Yamada A ¹ , Yamamoto S ² , Iwamoto T ³ , Kimura Y ¹ , Sasano Y ⁴ , Fukumoto S ¹ (¹ Div. of Pediatric Dent, Tohoku Univ. Grad. School of Dent., ² Div. of Pediatric Dentistry Dep. of Developmental Medicine, Grad. Sch. of Medical and Dental Sciences, Kagoshima Univ., ³ Dept. of Pediatric Dentistry, Graduate School of Dental Science, Kyushu University, ⁴ Div. of Craniofacial Development and Regeneration, Grad. Sch. of Tohoku University)
P-15 1P	Retinoic acid regulates the expression of connexin in oral keratinocytes ○Mikami T ¹ , Hatakeyama S ¹ , Takeda Y ¹ (¹ Dept. of Oral Pathology, Sch. of Dentistry, Iwate Medical Univ.)
P-16 1P	Enhancement mineralization in co-culture of epithelial cells and dental pulp cells ○Tsutsui T ¹ , Tsutsui T ¹ (¹ Dept. of Pharmacology, Univ. of Nippon Dental University)
P-17 1P	Signaling networks governing the process-fusion and morphogenesis at the medial region of mouse mandibular arches ○Fujita K ¹ , Taya Y ¹ , Soeno Y ¹ , Sato K ¹ , Aoba T ¹ (¹ Dept. of Pathology, Nippon Dental Univ.)
P-18 1P	Epithelialization in oral mucous wound healing in terms of energy metabolism ○Kuroki S ¹ , Yokoo S ¹ , Takata N ¹ , Ojima Y ¹ , Terashi H ² , Komori T ¹ (¹ Department of Oral and Maxillofacial Surgery, Kobe University Graduate School of Medicine, ² Department of Plastic Surgery, Kobe University Graduate School of Medicine)
P-19 1P	Reparative dentin formation by rhBMP-2/KURABIO® AG in rats ○Koike T ¹ , Handa K ¹ , Saito T ¹ (¹ Div. of Cariology and Endodontology, Health Sciences Univ. of Hokkaido)

P-20 1P	The effect of type I collagen added DMP1 on bone regeneration in bone defect ○Kagawa R ^{1,2} , Kishino M ¹ , Kamakura N ^{1,3} , Sato S ¹ , Toyosawa S ¹ (¹ Dept. of Oral Pathology, Grad. Sch. of Dentistry, Osaka Univ., ² Div. of Oromaxillofacial Regeneration, Grad. Sch. of Dentistry, Osaka Univ., ³ Dept. of Pediatric Dentistry, Grad. Sch. of Dentistry, Osaka Univ.)
P-21 1P	Roles of apoptosis in the perichondrium of mouse Meckel's cartilage ○Doi T ^{1,2} , Yamada T ^{1,2} , Sasaki A ^{1,2} , Kanegae H ¹ , Amano O ² (¹ Division of Orthodontics, Department of Human Development and Fostering, Meikai University School of Dentistry, ² Division of Anatomy, Department of Human Development and Fostering, Meikai University School of Dentistry)
P-22 1P	Aggregation technique facilitates differentiation of postnatal tooth bud ○Kamada T ¹ , Tsuchiya S ¹ , Isokawa K ¹ , Honda M ¹ (¹ Dept. of Anatomy, Nihon Univ. Sch. of Dentistry)
P-23 1P	Effect of low level laser irradiation on endothelial cells—A study of co-culture assay with fibroblast— ○Moro Y ¹ , Ambe K ¹ , Nakagawa T ¹ , Watanabe H ¹ , Fukai N ¹ (¹ Div. Oral Histology, Dept. Morphological Biol., Sch. of Dent., Ohu Univ.)
P-24 1P	Root-specific Aquaporin1 expression in rat differentiating odontoblasts ○Kinoshita-kawano S ^{1,2} , Kawano Y ² , Suzuki A ² , Nozawa-inoue K ² , Taguchi Y ¹ , Maeda T ¹ (¹ Div. of Pediatric Dentistry, Niigata Univ. Grad. Sch. of Medical & Dental Sciences, ² Div. of Oral Anatomy, Niigata Univ. Grad. Sch. of Medical & Dental Sciences)
P-25 1P	1,25(OH) ₂ D ₃ , PTH and Klotho are directly involved in FGF23-dependent mineralization defects ○Minamizaki T ¹ , Yoshiko Y ¹ , Maeda N ¹ (¹ Department of Oral Growth and Developmental Biology, Hiroshima University Graduate School of Biomedical Sciences)
P-26 1P	Immunolocalization of Hsp25 in the thyroglossal duct of mouse embryos ○Inoue K ^{1,2} , Sasaki A ^{2,3} , Doi T ^{2,3} , Sakiyama K ² , Sakashita H ¹ , Amano O ² (¹ Div. of Oral & Maxillofacial Surgery II, Meikai Univ. Sch. of Dentistry, ² Div. of Anatomy, Meikai Univ. Sch. of Dentistry, ³ Div. of Orthodontics, Meikai Univ. Sch. of Dentistry)
P-27 1P	The search of junctional epithelium-specific genes by laser microdissection ○Hayashi Y ^{1,2} , Matunaga T ² , Yamamoto G ² , Usui M ¹ , Yamamoto M ¹ , Tachikawa T ² (¹ Dept. of Periodontology, Univ. of Showa, ² Dept. of Oral Pathology, Univ. of Showa)
P-28 1P	Specific roles for <i>Pax9</i> and <i>Msx1</i> in upper lip development ○Nakatomi M ¹ (¹ Inst. of Human Genetics, Newcastle Univ., UK)
P-29 1P	Immunolocalization of laminin γ_2 , integrin β_4 and integrin α_3 in long junctional epithelium of rats ○Masaoka T ^{1,2} , Hashimoto S ^{1,2} , Muramatsu T ^{1,2} , Enokiya Y ² , Shimono M ² (¹ Oral Health Science Center HRC7, Tokyo Dental College, ² Dept. of Pathology, Tokyo Dental College)
P-30 1P	Effect of allergic inflammation on the root resorption during orthodontic tooth movement in rats ○Murata N ¹ , Ioi H ¹ , Danjo A ² , Shimohira D ² , Kido M ³ (¹ Dept. of Orthodontics, Grad. Sch. of Dental Science, Univ. of Kyushu, ² Department of Oral and Maxillofacial Surgery, Saga University Graduate School of Medical Science, ³ Department of Oral Anatomy and Cell Biology, Graduate School of Dental Science, University of Kyushu)
P-31 1P	Role of filamin-A during tooth development ○Miyamoto A ¹ , Kogoe Y ¹ , Tanaka K ¹ , Suzuki H ¹ , Arakaki M ¹ , Yamada A ¹ , Fukumoto S ¹ (¹ Div. of Pediatric Dentistry, Dept. of Oral Health and Development Sciences, Tohoku University Graduate School of Dentistry)
P-32 1P	Functional expression of GABA _A receptors in airway smooth muscle ○Mizuta K ¹ (¹ Div. of Dento-oral Anesthesiology, Grad. Sch. of Dentistry, Tohoku Univ., ² Dept. of Anesthesiology, Columbia Univ. College of Physicians & Surgeons)
P-33 1P	Is the glossopharyngeal nerve effective for evoking swallowing in human? ○Kurose M ¹ , Yamamura K ¹ , Sugino S ^{1,2} , Rahman M ¹ , Hossain Z ¹ , Yamada Y ¹ (¹ Div. of Oral Physiology, Niigata Univ. Grad. Sch. of Med. and Dent. Sci., ² Dep. of Orthodont, Nippon Dental Univ., Niigata)
P-34 1P	Roles of gene <i>e2f-1</i> in Type 1 diabetes mellitus and Sjogren syndrome ○Inohara H ^{1,2} , Kawarai T ² , Yoneda S ² , Uematsu H ¹ , Senpuku H ² (¹ Dept. of Gerodontology, Grad. Tokyo Medical and Dental Univ., ² Dept. of Bacteriology, National Institute of Infection Diseases)
P-35 1P	PKC-delta-mediated MARCKS phosphorylation in exocytosis in parotid cells ○Sato K ¹ , Guo M ¹ , Qi B ¹ , Narita T ^{1,2} , Katsumata O ^{1,2} , Fujita-yoshigaki J ^{1,2} , Sugiyama H ^{1,2} (¹ Dept. of Physiology, Nihon Univ. Sch. Dent. at Matsudo, ² Res. Inst. Oral Science, Nihon Univ. Sch. Dent. at Matsudo)
P-36 1P	Enhancement of excitability in the rat superior salivatory nucleus neurons by Cevimeline ○Ueda H ^{1,2} , Fujii A ^{1,2} , Mitoh Y ¹ , Kodama N ^{1,3} , Kobashi M ¹ , Yamashiro T ² , Matsuo R ¹ (¹ Dept. of Oral Physiol., Okayama Univ. Grad. Sch. of Med. Dent. and Pharm. Sci., ² Dept. of Orthodontics, Okayama Univ. Grad. Sch. of Med. Dent. and Pharm. Sci., ³ Dept. of Prosthodontics, Okayama Univ. Grad. Sch. of Med. Dent. and Pharm. Sci.)
P-37 1P	NMDA-induced hypoglossal motoneuronal activities in brainstem slice preparation from neonatal rat ○Araki K ¹ , Katakura N ² , Kurata C ³ , Hiraba K ² (¹ Department of Maxillofacial Surgery, School of Dentistry, Aichi-Gakuin University, ² Department of Physiology, School of Dentistry, Aichi-Gakuin University, ³ Department of Oral Maxillofacial Surgery, School of Dentistry, Aichi-Gakuin University)
P-38 1P	Down-regulation of submandibular gland AQP5 by chorda tympani denervation ○Azlina A ¹ , Purwanti N ¹ , Karabasil M ¹ , Yao C ¹ , Hasegawa T ¹ , Akamatsu T ¹ , Hosoi K ¹ (¹ Dept. of Mol. Oral Physiol., Inst. Health Biosci., Univ. Tokushima Grad. Sch.)
P-39 1P	Transduction mechanism for sweet taste: Analysis on the temperature- and gurmarin-sensitivity of the chorda tympani responses in T1R3-, Ggust-, TRPM5-KO mice ○Ohkuri T ¹ , Yasumatsu K ¹ , Kusuvara Y ¹ , Jyotaki M ¹ , Ninomiya Y ¹ (¹ Sect. of Oral Neurosci. Grad. Sch. of Dental Sci. Kyushu Univ)
P-40 1P	Change of synaptic plasticity on occlusal disharmony model in rat hippocampus ○Kato K ¹ , Miyake S ¹ , Iwamoto M ¹ , Sasaguri K ¹ , Sato S ¹ (¹ Dept. of Craniofacial Growth & Develop. Dentistry, Kanagawa Dental College)
P-41 1P	The development of the experimental swallowing induction methods in human ○Sugino S ^{1,2} , Yamamura K ² , Kurose M ² , Rahman M ² , Terada K ¹ , Yamada Y ² (¹ Dept. of Orthodont, Nippon Dental Univ., Niigata, ² Div. of Oral Physiology, Niigata Univ. Grad. Sch. of Med. and Dent. Sci.)

P-42 1P	Jaw-muscle spindle afferents activity during chewing different hardness of foods in awake rabbit ○Hossain Z ¹ , Kurose M ¹ , Rahman M ¹ , Yamamura K ¹ , Yamada Y ¹ (¹ Div. of Oral Physiology, Niigata Univ. Grad. Sch. of Med. and Dent. Sci.)
P-43 1P	Taste buds after the cross-regeneration between the chorda tympani and greater superficial petrosal nerves ○Nakayama A ¹ , Miura H ¹ , Tomonari H ¹ , Harada S ¹ (¹ Dept. of Oral Physiology, Grad. Sch. of Medical and Dental Sciences, Kagoshima Univ)
P-44 1P	Interaction between T1R2/T1R3 and triterpene glycoside ○Sanematsu K ¹ , Shigemura N ¹ , Ninomiya Y ¹ (¹ Sect. of Oral Neurosci., Grad. Sch. of Dental Sci., Kyushu Univ.)
P-45 1P	Neural mechanisms of mechanical and cold allodynia following facial capsaicin application in rats ○Honda K ¹ , Kitagawa J ² , Iwata K ² (¹ Dept. of Oral and Maxillofacial Surgery, Nihon Univ., Sch. of Dent., ² Dept. of Physiol., Nihon Univ., Sch. of Dent.)
P-46 1P	ERK phosphorylation by experimental orthodontic force regulates c-Fos expression in rat Vc neurons ○Hasegawa M ¹ , Kondo M ² , Iwata K ² , Shimizu N ¹ (¹ Dept. of Orthodontics, Nihon Univ. Dentistry, ² Dept. of Physiology, Nihon Univ. Dentistry)
P-47 1P	Action of pilocarpine and cevimerine on rat parotid gland cells ○Inagaki T ^{1,2} , Ono K ² , Hosokawa R ¹ , Inenaga K ² (¹ Dept. of Oral Reconstruction and Rehabilitation, ² Physiology, Kyushu Dental College)
P-48 1P	C-Fos expression suppressed by visceral noxious stimulus in the nucleus of the solitary tract ○Maeda M ¹ , Hayashi B ¹ , Tsuruoka M ¹ , Inoue T ¹ (¹ Department of Physiology, Showa University School of Dentistry)
P-49 1P	Severe periodontitis in <i>Fbn1</i> hypomorphic mice (Mg Δ) ○Ganburged G ¹ , Suda N ¹ , Takahashi Y ² , Hamada N ² , Moriyama K ¹ (¹ Maxillofacial Orthognathics, Graduate School, Tokyo Medical and Dental University, ² Department of Oral Microbiology, Kanagawa Dental College)
P-50 1P	Role of the Smad4 - E4F1 interaction in myogenesis ○Nojima J ^{1,2} , Kokabu S ^{1,2} , Yoda T ² , Katagiri T ¹ (¹ Dept. of Pathophysiology, Saitama Medical Univ. Research Center for Genomic Medicine, ² Dept. of Oral and Maxillofacial Surgery, Saitama Medical Univ.)
P-51 1P	Effects of ERK1/2 on the production of MMP-3 in human dental pulp fibroblast like cell ○Takeuchi O ¹ , Yoshikawa K ² , Yamamoto K ² (¹ Graduate School of Dentistry, Dept. of Operative Dentistry, Osaka Dental Univ., ² Dept. of Operative Dentistry, Osaka Dental Univ.)
P-52 1P	Effects of <i>ccn2/ctgf</i> overexpression in cartilage on endochondral ossification ○Tomita N ^{1,2} , Hattori T ¹ , Ito S ^{1,2} , Aoyama E ³ , Yamashiro T ² , Takigawa M ¹ (¹ Dept. of Biochemistry and Molecular Dent, Okayama Univ. Grad. Sch. of Med, Dent. and Pharm. Sciences, Okayama, ² Dep. of Orthodontics, ³ Biodental Research Center)
P-53 1P	Effect of chewing on stress-induced pCaMKII suppression ○Iwamoto M ¹ , Sasaguri K ¹ , Miyake S ¹ , Kataoka T ¹ , Kato K ¹ , Sato S ¹ (¹ Dept. of Craniofacial Growth & Development Dentistry, Kanagawa Dental College, ² Dept. of Physiology and Neuroscience, Kanagawa Dental Collage)
P-54 1P	Suppression of RANKL-induced calcium-oscillation in RAW cells by serum-calcium decreasing factor caldecrin ○Hasegawa H ^{1,2} , Inaba A ² , Fujimoto K ² , Oi M ^{1,2} , Kanegae H ¹ , Tomomura A ² (¹ Div. of Orthodontics, Dept. of Human Development and Fostering, Meikai Univ. Sch. of Dentistry, ² Div. of Biochem., Dept. of Oral Biol. and Tissue Engineering, Meikai Univ. Sch. of Dentistry)
P-55 1P	Adiponectin inhibits LPS-induced signaling ○Kamio N ¹ , Akifusa S ¹ , Yamaguchi N ² , Nonaka K ² , Yamashita Y ¹ (¹ Dept. of Preventive Dentistry, Faculty of Dental Science, Kyushu Univ., ² Dept. of Pediatric Dentistry)
P-56 1P	Characterization of Pannexin 3, a new member of the gap junction proteins, as a potential regulator of chondrocyte development ○Iwamoto T ^{1,2} , Nakamura T ² , Fukumoto S ² , Nonaka K ¹ , Yamada Y ² (¹ Sec. of Pediatric Dentistry, Div. of Oral Health, Growth and Development, Faculty of Dental Science, Kyushu Univ., ² Laboratory of Cell and Developmental Biology, National Institutes of Health, USA, ³ Div. of Pediatric Dentistry, Dept. of Oral Health and Development Sciences, Tohoku University Graduate School of Dentistry)
P-57 1P	Antimicrobial activity and clinical application of improved catechin-gel ○Saito H ¹ , Tamura M ^{2,3} , Ochiai K ^{2,3} (¹ Dept. of Partial Denture Prosthodontics, Nihon Univ. Sch. of Dentistry, ² Dept. of Microbiology, Nihon Univ. Sch. of Dentistry, ³ Div. of Immunology and Pathobiology, Dental Research Center, Nihon Univ. Sch. of Dentistry)
P-58 1P	Effects of bisphosphonates on proinflammatory cytokines production induced by <i>Porphyromonas gingivalis</i> or <i>Tannerella forsythia</i> ○Deng X ¹ , Tamai R ¹ , Endo Y ² , Kiyoura Y ¹ (¹ Div. of Oral Bacteriology, Dept. of Oral Medical Science, Ohu Univ. Sch. of Dentistry, ² Dept. of Molecular Regulation, Grad. Sch. of Dentistry, Tohoku Univ.)
P-59 1P	Molecular dissection of cellular intake and intracellular cytotoxicity of membrane vesicles released from <i>Porphyromonas gingivalis</i> ○Furuta N ¹ , Inaba H ¹ , Kato T ¹ , Amano A ¹ (¹ Dep. of Oral Frontier Biology, Osaka University Graduate School of Dentistry)
P-60 1P	Cloning and purification of L-cysteine desulphydrase from <i>Prevotella intermedia</i> ○Yano T ^{1,2} , Fukamachi H ² , Yamamoto M ¹ , Igarashi T ² (¹ Dept. of Periodontology, Univ. of Showa, ² Dept. of Oral Microbiology, Univ. of Showa)
P-61 1P	Cloning and characterization of fructanase from <i>Prevotella intermedia</i> ○Fuse H ^{1,2} , Fukamachi H ² , Inoue M ¹ , Igarashi T ² (¹ Dept. of Pedodontics, Univ. of Showa, ² Dept. of Oral Microbiology, Univ. of Showa)
P-62 1P	Surveillance study on bacterial contamination on plastic namecard cases of dental students ○Satoh N ¹ , Watanabe A ¹ , Kokeyuchi S ¹ (¹ Dept. of Oral Microbiol., Grad. Sch. of Okayama Univ.)
P-63 1P	Short-term effect of fluoride on acid production by <i>Streptococcus mutans</i> ○Domon H ^{1,2} , Nakajo K ² , Miyasawa-hori H ² , Fukumoto S ¹ , Takahashi N ² (¹ Div. of Pediatric Dent, Tohoku Univ. Grad. School of Dent., ² Div. of Oral Ecology and Biochemistry, Tohoku Univ. Grad. School of Dent.)

P-64 1P	Intravenous infection with oral pathogens accelerates early atherosclerosis in Apolipoprotein E deficient mice ○Zhang T ^{1,2} , Hashizume T ¹ , Kurita-ochiai T ¹ , Yamamoto M ¹ (¹ Dept. of Microbiol. Immunol; Nihon Univ. Sch. at Matsudo, ² Tianjin stomatology hospital, China)
P-65 1P	Expression of toll-like receptors, NOD1 and NOD2 in human periodontal ligamental cells (PDL) and their functions ○Aonuma T ^{1,2} , Uehara A ¹ , Yamamoto T ² , Takada H ¹ (¹ Dept. of Microbiol. and Immunol., Tohoku Univ. Grad. Sch. of Dentistry, ² Div. of Orthodontics and Dentofacial Orthopedics, Tohoku Univ. Grad. Sch. of Dentistry)
P-66 1P	The study of bisphosphonate induced Osteo Necrosis Jaw. The development of ONJ model by Alendronate ○Mikabe N ¹ , Mutoh N ¹ , Watabe H ¹ , Sato T ¹ , Chieda K ¹ , Tani-ishii N ¹ (¹ Div. of Endodontics, Dept. of Oral Medicine, Kanagawa Dental College)
P-67 1P	Microflora profiling of dental plaque biofilm on the first molars with orthodontic bands & brackets, and biochemical characterization of their plaque bacteria ○Komori R ¹ , Sato T ² , Takano-yamamoto T ¹ , Takahashi N ² (¹ Div. of Orthodontics & Dentofacial Orthopedics, Tohoku Univ. Grad. Sch. of Dent., ² Div. of Oral Ecology & Biochemistry, Tohoku Univ. Grad. Sch. of Dent.)
P-68 1P	Cariogenicity of mucoid colony of <i>S. mutans</i> ○Hirata R ¹ , Takada K ¹ , Hirasawa M ¹ (¹ Dept. of Microbiol. Immunol., Nihon Univ. Sch. of Dent. at Matsudo)
P-69 1P	Effects of short-chain fatty acid on the expression of co-receptor for HIV ○Fujioka J ¹ , Imai K ² , Okamoto T ² , Ochiai K ¹ (¹ Dept. of Microbiology, Nihon Univ. Sch. of Dentistry, ² Department of Molecular and Cellular Biology, Nagoya city University Graduate School of Medical Sciences)
P-70 1P	The study of bisphosphonate induced Osteo Necrosis Jaw—The development of ONJ model by Incadronate— ○Watabe H ¹ , Mutoh N ¹ , Chieda K ¹ , Tani-ishii N ¹ (¹ Div. of Endodontics, Dept. of Oral Medicine, Kanagawa Dental College)
P-71 1P	A method of evaluating the amount of oral bacterial adhesion to the surface of biomaterials ○Sakuma Y ¹ , Washio J ¹ , Takeuchi Y ^{1,2} , Sasaki K ² , Takahashi N ¹ (¹ Div. of Oral Ecology and Biochemistry, Grad. Sch. of Tohoku Univ., ² Div. of Advanced Prosthetic Dentistry)
P-72 1P	The search for novel antimicrobial agents: antifungal activity of resveratrol ○Okamoto-shibayama K ^{1,2} , Sato Y ^{1,2} , Azuma T ^{1,2} , Inoue T ² (¹ Dept. of Biochemistry, Tokyo Dental College, ² Oral Health Science Center HRC7, Tokyo Dental College)
P-73 1P	Effects of DC-SIGN-mediated signal on Toll-like receptor 2-mediated signaling pathways ○Ohtani M ^{1,2} , Iyori M ² , Hasebe A ² , Kiura K ² , Totuka Y ¹ , Shibata K ² (¹ Div. of Oral & Maxillofacial Surgery, Dept. of Oral Pathobiological Science, Hokkaido Univ. Grad. Sch. of Dental Medicine, ² Lab. of Oral Molecular Microbiology, Dept. of Oral Pathobiological Science, Hokkaido Univ. Grad. Sch. of Dental Medicine)
P-74 1P	Molecular mechanisms of IFN γ signal dependent cell cycle arrest on oral squamous carcinoma cells ○Sekine K ¹ , Hiroi M ¹ , Ohmori Y ¹ (¹ Div. of Microbiology and Immunology, Dept. of Oral Biology and Tissue Engineering, Meikai Univ. School of Dentistry)
P-75 1P	Study of the glucan formation of <i>Streptococcus</i> spp from oral cavity of bear ○Saito M ¹ , Takada K ¹ , Kuwahara N ¹ , Hirasawa M ¹ (¹ Dept. of Microbiology and Immunology, Nihon Univ. Sch. of Dentistry at Matsudo, ² Dept. of Microbiology and Immunology, Nihon Univ. Sch. of Dentistry at Matsudo)
P-76 1P	Bactericidal effect of rose water against oral microorganism ○Sato T ¹ , Ishikawa E ² , Hamada N ² , Tani-ishii N ¹ (¹ Div. of Endodontics, Dept. of Oral Medicine, ² Div. of Microbiology, Dept. of Infection Control, Kanagawa Dental College)
P-77 1P	Augmenting effects of muramyl-dipeptide (MDP) on pro-inflammatory cytokine production and endotoxin-shock: analysis of underlying mechanisms ○Shikama Y ^{1,2} , Shimauchi H ¹ , Sugawara S ² , Takada H ³ , Endo Y ³ (¹ Div. of Periodontology and Endodontology, Univ. of Tohoku, ² Oral Immunology, ³ Oral Microbiology)
P-78 1P	Establishment of oral mesenchymal stem cells from human gingival fibroblasts and its expression of co-stimulatory molecules. ○Nagai Y ¹ , Kuroishi T ¹ , Shiraishi D ¹ , Ohki A ¹ , Sugawara S ¹ (¹ Div. of Oral Immunology, Univ. of Tohoku)
P-79 1P	Construction of recombinat <i>Prevotella intermedia</i> heat shock protein ○Sugimori C ¹ , Yamanaka T ¹ , Mashimo C ¹ , Yamane K ¹ , Fukushima H ¹ (¹ Dept. of Bacteriology, Osaka Dental, Univ.)
P-80 1P	Isolation and identification of biofilm-forming bacteria from root canals ○Yamane K ¹ , Fujihira T ² , Yoshida M ² , Mashimo C ¹ , Sugimori C ¹ , Yamanaka T ¹ , Hayashi H ¹ , Fukushima H ¹ (¹ Dept. of Bacteriology, Osaka Dental Univ., ² Dept. of Endodontics, Osaka Dental Univ.)
P-81 1P	Inflammatory cytokines enhanced keratinization in stratified oral mucosal epithelium ○Yamaya G ¹ , Hatakeyama S ² , Mizuki H ¹ , Takeda Y ² (¹ The first dept. of Oral and Maxillofacial Surg. Sch.of.Dent., Iwate Medical University, ² Dept. of Oral Pathology Sch. of. Dent., Iwate Medical University)
P-82 1P	Expression of IL-6 in IL-1 β -induced synovitis of temporomandibular joint ○Satoh K ¹ , Ogura N ^{1,4} , Kuboyama N ^{2,4} , Kuyama K ^{3,4} , Yamamoto H ^{3,4} , Kondoh T ^{1,4} (¹ Dept. of Maxillofacial Surgery, Sch. of Dentistry at Matsudo, Nihon Univ., ² Dept. of Oral Molecular Pharmacology, Sch. of Dentistry at Matsudo, Nihon Univ., ³ Dept. of Oral Pathology, Sch. of Dentistry at Matsudo, Nihon Univ., ⁴ Research Institute of Oral Science, Sch. of Dentistry at Matsudo, Nihon Univ.)
P-83 1P	Clinicopathological study of Ameloblastoma ○González-alva P ¹ , Miyazaki Y ¹ , Tanaka A ² , Oku Y ² , Tajima Y ¹ , Sakashita H ² , Ide F ¹ , Kusama K ¹ (¹ Div. of Pathology, Dept. of Diagnostic and Therapeutic Sciences, Meikai Univ. School of Dentistry, ² Div. of Oral and Maxillofacial Surgery II)
P-84 1P	DMP1 down-regulates type1 collagen expression of bone <i>in vitro</i> ○Kamakura N ^{1,2} , Sato S ¹ , Kagawa R ^{1,5} , Kobata M ² , Shintani S ³ , Ooshima T ² , Komori T ⁴ , Toyosawa S ¹ (¹ Dept. of Oral Pathology, Grad. Sch. of Dentistry Osaka Univ., ² Dept. of Pediatric Dentistry, Grad. Sch. of Dentistry Osaka Univ., ³ Dept. of Pediatric Dentistry, Grad. Sch. of Dentistry Tokyo Dental College, ⁴ Div. of Cell Biology, Nagasaki Univ. Grad. Sch. of Biomedical Sciences, ⁵ Dept. of Oromaxillofacial Regeneration, Grad. Sch. of Dentistry Osaka Univ.)

P-85 1P	Three-dimensional analysis of architectures and proliferative activity of oral tumors ○Kudo T ¹ , Shimazu Y ¹ , Kanri Y ¹ , Yagishita H ¹ , Aoba T ¹ (¹ Dept. of Pathology, Nippon Dental Univ.)
P-86 1P	Bacterial GGT may act as a periodontal virulence factor ○Moriwaki S ¹ , Suzuki K ² , Miyauchi M ³ , Takata T ³ , Niida S ¹ (¹ Dept. of Bone & Joint Disease, National Center for Geriatrics & Gerontology, ² Dept. of Pharmacology, Sch. of Dentistry, Showa Univ., ³ Dept. of Oral & Maxillofacial Pathobiology, Grad. Sch. of Biomedical Sciences, Hiroshima Univ.)
P-87 1P	Examination of loss of heterozygosity in 1p36 chromosomal region in oral squamous cell carcinoma ○Lefevre M ¹ , Gunduz M ¹ , Gunduz E ¹ , Al Sheik Ali M ¹ , Katase N ¹ , Borkosky S ¹ , Tamamura R ¹ , Nagatsuka H ¹ (¹ Dept. of Oral Pathology and Medicine, Grad. Sch. of Medicine, Dentistry and Pharmaceutical Sciences, Univ. of Okayama)
P-88 1P	Calcification on human dental pulp cultured cells exposed to high glucose ○Okamura T ¹ , Nishikawa T ¹ , Iwai Y ² , Tanaka A ¹ (¹ Dept. of Oral Pathology, Osaka Dental University, ² Dept. of Oral Anatomy, Osaka Dental University)
P-89 1P	Impairment of salivary glands and involvement of regulatory T cells in keratin 5 (K5)/IL-18 transgenic mice ○Nishioka T ^{1,2} , Kuroishi T ² , Sugawara Y ¹ , Tanaka Y ² , Sasano T ¹ , Endo Y ² , Sugawara S ² (¹ Div. of Oral Diagnosis Tohoku University Graduate School of Dentistry, ² Div. of Oral Immunology Tohoku University Graduate School of Dentistry)
P-90 1P	Amelogenesis Imperfecta typeIV associated with a point mutation of DLX3 gene ○Kobata M ¹ , Shintani S ² , Ooshima T ¹ (¹ Div. of Oral Infections and Diseases Control, Grad. Sch. of Osaka Univ., ² Dept. of Pediatric Dentistry, Tokyo Dental College)
P-91 1P	Extensive analysis of factors involved in bone invasion by oral squamous cell carcinomas ○Kayamori K ¹ , Sakamoto K ¹ , Ishikuro M ¹ , Yamaguchi A ¹ (¹ Sec. of Oral Pathology, Dept of Oral Restitution, Grad. Sch. of Tokyo Medical and Dental Univ.)
P-92 1P	The role of transmembrane proteins, IFITM1 and CD81 on the invasion of oral cancer cells ○Yoshida M ¹ , Kudo Y ¹ , Ogawa I ² , Takata T ¹ (¹ Dept. of Oral and Maxillofacial Pathobiology, Grad. Sch. of Biomedical Sciences, Hiroshima Univ., ² Center of Oral Clinical Examination, Hiroshima University Hospital)
P-93 1P	Establishment and characterization of melanin-producing cell line derived from malignant melanoma of human oral mucosa ○Nakahara T ^{1,5} , Tamaki Y ^{2,5} , Nasu M ^{3,5} , Ide Y ^{4,5} , Sato S ² , Ishikawa H ⁵ (¹ Sect. of Developmental & Regenerative Dentistry, Sch. of Life Dentistry at Tokyo, The Nippon Dental Univ., ² Dept. of Periodontology, Sch. of Life Dentistry at Niigata, The Nippon Dental Univ., ³ Research Center for Odontology, Sch. of Life Dentistry at Tokyo, The Nippon Dental Univ., ⁴ Dept. of Oral & Maxillofacial Radiology, Sch. of Life Dentistry at Tokyo, The Nippon Dental Univ., ⁵ Lab. of Regenerative Medical Sciences, Sch. of Life Dentistry at Tokyo, The Nippon Dental Univ.)
P-94 1P	Epigenetic regulation of angiogenesis by Zebularine in oral squamous cell carcinoma ○Suzuki M ¹ , Shinohara F ² , Endo M ^{1,2} , Sugazaki M ² , Echigo S ² , Rikiishi H ¹ (¹ Dept. of Microbiology and Immunol., Tohoku Univ., Grad. Sch. of Dentistry, ² Dept. of Oral Surgery, Tohoku Univ. Grad. Sch. of Dentistry)
P-95 1P	An approach to establishing a mice model for allergy to dental resin: effects of H ₂ O ₂ ○Takahashi H ^{1,2} , Kuroishi T ¹ , Sugawara S ¹ , Sasaki K ² , Endo Y ¹ (¹ Dept. of Molecular Regulation, Tohoku Univ. Grad. Sch. of Dentistry, ² Dept. of Advanced Prosthetic Dentistry, Tohoku Univ. Grad. Sch. of Dentistry)
P-96 1P	Mechanical stress up-regulates VEGF expression in osteoblastic cells ○Nakai T ^{1,2} , Yoshimura Y ² , Deyama Y ² , Suzuki K ² , Iida J ¹ (¹ Dept. of Orthodontics, Grad. Sch. of Dent. Med., Hokkaido Univ., ² Dept. of Molecular Cell Pharmacology, Div. of Oral Pathobiological Science, Grad. Sch. of Dent. Med., Hokkaido Univ.)
P-97 1P	The mechanism and the function of spontaneous Ca ²⁺ responses in rat parotid ductal cells ○Shitara A ^{1,3} , Tanimura A ¹ , Sato A ² , Nezu A ¹ , Morita T ¹ , Tojyo Y ¹ (¹ Dept. of Dental Pharmacology, Sch. of Dentistry, Health Sciences Univ. of Hokkaido, ² Dept. of Oral Anatomy, Sch. of Dentistry, Fukuoka Dental College, ³ Dept. of Biochemistry, Sch. of Dentistry, Health Sciences Univ. of Hokkaido)
P-98 1P	Inhibition of NMDA-induced outward currents by interleukin-1beta in hippocampal neurons ○Zhang R ¹ , Wu Z ¹ , Nakanishi H ¹ (¹ Lab. Oral Aging Sci., Kyushu Univ. Fac. Dent. Sci.)
P-99 1P	Direct neurite-osteoclastic cell communication, as demonstrated by use of an in vitro co-culture system ○Suga S ^{1,2} , Obata K ¹ , Goto S ² , Togari A ¹ (¹ Dept. of Pharmacology, Sch. of Dentistry, Aichi-Gakuin University, ² Dept. of Orthodontics, Sch. of Dentistry, Aichi-Gakuin University)
P-100 1P	Phosphatidylserine-containing liposomes ameliorates the cytokine imbalance in the ankle joints of adjuvant arthritic rats ○Ma HM ¹ , Wu Z ¹ , Nakanishi H ¹ (¹ Lab. Oral Aging Sci., Kyushu Univ. Fac. Dent. Sci.)
P-101 1P	Analyses of AQP5 and lipid rafts in human saliva as diagnostic biomarkers ○Wang D ¹ , Ishikawa Y ¹ (¹ Dept. of Pharmacology, Tokushima Univ. School of Dentistry)
P-102 1P	Direct assessment of the neuroprotection of propofol MCT/LCT on oxidative stress in the brain of SHRSP ○Kobayashi K ¹ , Yoshino F ¹ , Maehata Y ¹ , Takahashi S ¹ , Todoki K ¹ , Lee M ¹ (¹ Div. of Pharmacology, Dept. of Clinical Care Medicine, Kanagawa Dental College)
P-103 1P	c-Jun N-terminal kinase is a possible regulator of proton-associated sugar transporter-A ○Kudo T ¹ , Shimizu Y ² , Kanetaka H ³ , Hayashi H ¹ (¹ Div. of Oral Physiology, Grad. Sch. of Dent., Tohoku Univ., ² Div. of Oral and Craniofacial Anatomy, Grad. Sch. of Dent., Tohoku Univ., ³ CRESS, Tohoku Univ.)
P-104 1P	Chemokine BRAK/CXCL14 stimulates apoptosis induced by gefitinib on oral squamous cell carcinoma ○Ito S ^{1,2} , Ozawa S ^{1,2,3} , Kato Y ^{1,2} , Tsukinoki K ^{2,4} , Kubota E ^{2,3} , Hata R ^{1,2} (¹ Dept. of Biochem. and Mol. Biology, Kanagawa Dental College, ² Oral Health Sci. Research Center, ³ Dept. of Oral and Maxillofac. Surg., ⁴ Pathol.)
P-105 1P	Osteoclast-inducing property alteration attributable to optical isomers of beta2-adrenergic agonists ○Fukawa Y ^{1,2} , Karakawa A ² , Okazaki M ² , Amano H ² , Yamada S ² , Yamamoto M ¹ (¹ Dept. of Periodontol. Showa Univ. Sch. Dent., ² Dept. of Pharmacol. Showa Univ. Sch. Dent.)
P-106 1P	Cathepsin E-mediated apoptosis through shedding of TNF-related apoptosis-inducing ligand (TRAIL) and modulation of the responsiveness ○Kawakubo T ¹ , Yasukochi A ¹ , Yamamoto K ¹ (¹ Proteolysis Research Lab., Grad. Sch. of Pharm. Sci., Kyushu Univ.)

P-107 1P	Interactive expression and localization of both gremlin and BMP7 genes in rat salivary glands exposed to hyperglycemia ○Shinomiya T ¹ , Fuchi K ¹ , Kawaguchi M ¹ , Sawaki K ¹ , Sakai T ¹ , Okubo M ¹ , Tsukagoshi E ¹ , Yoshikawa M ^{1,2} (¹ Dept. of Pharmacology, Tokyo Dental College, ² Dept. of Clinical Pharmacology, Tokai Univ. School of Medicine)
P-108 1P	NGF and BDNF attenuate angiotensin-induced facilitation of calcium channel in nucleus tractus solitarius ○Endoh T ¹ , Shibukawa Y ¹ , Yamamoto T ¹ , Tazaki M ¹ (¹ Dept. of Physiology, Tokyo Dental College)
P-109 1P	Glycine receptor $\alpha 3$ (GlyR $\alpha 3$) mediates the allodynia action of platelet-activating factor (PAF) in the mice spinal cord ○Motoyama N ¹ , Morita K ² , Kitayama T ² , Nishimura F ¹ , Dohi T ² (¹ Dept. Dent. Sci. Health Promotion, Hiroshima Univ. Grad. Sch. Biomed. Sci., ² Dept. Dent. Pharmacol., Hiroshima Univ. Grad. Sch. Biomed. Sci.)
P-110 1P	Changes in GFAP-immunoreactive astrocytes and spatial memory induced by the bite-raised condition in aged SAMP8 mice ○Kubo K ¹ , Satoh K ¹ , Kogaya Y ¹ , Ejiri S ¹ (¹ Dept. of Oral Anat., Asahi Univ. Sch. of Dent.)
P-111 1P	Modulation of the jaw-opening reflex by stimulation of the vestibular nucleus ○Satoh Y ¹ , Ishizuka K ¹ , Murakami T ¹ (¹ Dept. of Physiology, Nippon Dental Univ. School of Life Dentistry at Niigata)
P-112 1P	The responses of nociceptive neurons in the rat medullary dorsal horn to the natural stimulation are inhibited by electrical stimulation of the amygdala ○Sekiyama H ¹ , Matsumoto N ² , Seino Y ¹ , Miura H ¹ , Kitada Y ² (¹ Dept. of Orthodontics, Sch. of Dent., Iwate Med. Univ., ² Dept. of Oral Physiology, Sch. of Dent., Iwate Med. Univ.)
P-113 1P	Correlation of jaw motor, cortical and cardiac activities during sleep in the guinea pig ○Kato T ¹ , Masuda Y ^{1,2} , Morimoto T ^{1,2} (¹ Institute for Oral Science, Matsumoto Dental Univ., ² Dept. Oral Maxillofacial Biology, Grad. Sch. of Oral Medicine)
P-114 1P	Distribution of inhibitory neurons projecting to the superior salivatory nucleus in rats ○Matsushima A ¹ , Ichikawa H ² , Fujita M ¹ , Fujii A ³ , Mitoh Y ¹ , Kobashi M ¹ , Yamashiro T ³ , Matsuo R ¹ (¹ Dept. of Oral Physiol., Univ. of Okayama, ² Dept. of Oral Func and Anat, Univ. of Okayama, ³ Dept. of Orthodontics, Univ. of Okayama)
P-115 1P	The relationship between mastication and the GABA _A receptor molecules in the brain ○Takeuchi H ¹ , Kanematsu T ¹ , Hirata M ¹ (¹ Lab. Mol. Cell. Biochem., Grad. Sch. of Dent. Sci., Kyushu Univ.)
P-116 1P	Studies of the low dose impacts of bisphenol A on the developing central nervous system ○Fujimoto T ¹ , Nishikawa Y ¹ (¹ Dept. Physiol., Osaka Dent. Univ.)
P-117 1P	Regulation of Noradrenaline in Locus Coeruleus and Prefrontal Cortex by alpha ₂ -adrenoceptor agonists ○Higashi S ¹ , Kawahara H ² , Koga Y ¹ , Ohsumi T ¹ (¹ Div. of Applied Pharmacology, Kyushu Dental College, ² Div. of Dental Anesthesiology, Kyushu Dental College)
P-118 1P	Synaptic transmission from the reticular formation dorsal to the facial nucleus to trigeminal motoneurons in developing rats ○Gemba A ¹ , Nakamura S ² , Mochizuki A ² , Inoue T ² (¹ Dept. of Anesthesia, Showa Univ. School of Dentistry, ² Dept. of Oral Physiology, Showa Univ. School of Dentistry)
P-119 1P	Relaxin modulates collagen type1 and matrix metalloproteinase-1 expression by human periodontal ligament cells ○Takano M ¹ , Yamaguchi M ^{1,2} , Nakajima R ¹ , Fujita S ¹ , Kojima T ¹ , Kasai K ^{1,2} (¹ Dept. of Orthodontics, Nihon Univ. of Dent. at Matsudo, ² Research Institute of Science, Nihon Univ. of Dent. at Matsudo)
P-120 1P	Microanatomy of foldable teeth in <i>Lophius litulon</i> ○Yuguchi M ^{1,2} , Kameoka S ³ , Yamazaki Y ^{1,2} , Arai Y ² , Honda K ^{2,3} , Isokawa K ^{1,2} (¹ Dept. of Anatomy, Nihon Univ. Sch. of Dent., ² Div. of Functional Morphology, Dental Res. Center, Nihon Univ. Sch. of Dent., ³ Dept. of Radiology, Nihon Univ. Sch. of Dent.)
P-121 1P	Integrin alphavbeta3 regulates microfibril assembly in human periodontal ligament cells ○Tsuruga E ¹ , Nakashima K ² , Nakatomi Y ² , Ishikawa H ² , Sawa Y ¹ (¹ Dept. of Morphological Biology, Fukuoka Dental College, ² Dept. of Oral Growth & Development, Fukuoka Dental College)
P-122 1P	Stretching stimulates fibulin-5 expression, and controls oxytalan fibers assembly ○Nakashima K ¹ , Nakatomi Y ¹ , Tsuruga E ² , Ishikawa H ¹ , Sawa Y ² (¹ Section of Orthodontics, Dept. of Oral Growth & Development, Fukuoka Dental College, ² Dept. of Morphological Biology, Fukuoka Dental College)
P-123 1P	Stretching modulates oxytalan fibers in periodontal ligaments ○Nakatomi Y ¹ , Nakashima K ¹ , Tsuruga E ² , Ishikawa H ¹ , Sawa Y ² (¹ Section of Orthodontics, Dept. of Oral Growth & Development, Fukuoka Dental College, ² Dept. of Morphological Biology, Fukuoka Dental College)
P-124 1P	Immunohistochemical change of Runx2 and Msx2 in mouse periodontal ligament cells due to mechanical stress ○Watanabe T ^{1,2} , Muraoka R ^{1,2} , Shimizu T ² , Nakano K ^{1,4} , Okafuji N ³ , Kurihara S ⁴ , Yamada K ^{2,3} , Kawakami T ^{1,4} (¹ Hard Tissue Pathology Unit, Matsumoto Dental Univ Grad. Sch., ² Matsumoto Dental Univ Hosp, ³ Clinical Evaluation Unit, Matsumoto Dental Univ Grad Sch., ⁴ Matsumoto Dental Univ Insti for Oral Science)
P-125 1P	Immunohistochemical change of HSP in mouse periodontal ligament cells due to mechanical stress ○Muraoka R ^{1,2} , Watanabe T ^{1,2} , Nakano K ^{1,4} , Okafuji N ³ , Kurihara S ⁴ , Yamada K ^{2,3} , Kawakami T ^{1,4} (¹ Hard Tissue Pathology Unit, Matsumoto Dental Univ. Grad. Sch. of Oral Medicine, ² Matsumoto Dental Univ. Hosp, ³ Clinical Evaluation Unit, Matsumoto Dental Univ. Grad. Sch., ⁴ Matsumoto Dental Univ. Insti. for Oral Science)
P-126 1P	Irsogladine maleate suppressed the <i>Aggregatibacter actinomycetemcomitans</i> -induced infiltration of inflammatory cells in gingival epithelium ○Fujita T ¹ , Hayashida K ¹ , Kajiya M ¹ , Shiba H ¹ , Abiko Y ² , Kurihara H ¹ (¹ Dept. of Periodontal Medicine, Hiroshima Univ., ² Dept. of Biochemistry and Molecular biology, Nihon Univ at Matsudo)
P-127 1P	Expression of Toll-like receptors 2 and 4 on human gingival lymphatic vessels ○Kuroshima S ¹ , Taishi Y ² , Yoshida S ³ , Inoue N ¹ (¹ Department of Gerodontology, Division of Oral Health Science, Graduate School of Dental Medicine, Hokkaido University, ² Department of Oral Pathobiological Science, Division of Oral Diagnosis and Oral Medicine, Graduate School of Dental Medicine, Hokkaido University, ³ Department of Oral Functional Anatomy, Division of Oral Functional Science, Graduate School of Dental Medicine, Hokkaido University)

P-128 1P	Parathyroid-hormone-related Protein (PTHrP) up-regulated Notch ligand Jagged1 in human periodontal ligament (PDL) cells ○Kajiya H ¹ , Fukushima H ² , Okamoto F ¹ , Nemoto T ¹ , Ohgi K ¹ , Okabe K ¹ (¹ Dept. of Physiological Science and Molecular Biology, Fukuoka Dental College, ² Dept. of Bioscience, Kyushu Dental College)
P-129 1P	Expression of MICA (MHC class I related chain A) in the periodontal tissue and regulatory factors of the gene ○Kawahara K ¹ , Shimazu A ¹ , Kajiya M ² , Shiba H ² , Kawaguchi H ² (¹ Dept. of Preventive Dentistry, Div. of Medical Intelligence and Informatics, Hiroshima Univ. Grad.Sch. of Biomedical Science, ² Dept. of Periodontal Medicine, Div. of Frontier Medical Science, Hiroshima Univ. Grad. Sch. of Biomedical Science)
P-130 1P	Response of periodontal ligament to the mechanical stress of tooth movement ○Yamamoto S ¹ , Kuroda N ¹ , Hara Y ¹ , Sato T ¹ (¹ Dept. of Anatomy II, Tsurumi Univ. School of Dental Medicine, ² Dept. of Orthodontics, Tsurumi Univ. School of Dental Medicine)
P-131 1P	Inhibitory effect of enamel protein on release of substance P from Dorsal root ganglion cells ○Miyachi M ¹ , Kawazoe Y ¹ , Iizuka S ¹ , Furusho H ¹ , Inoue A ² , Takata T ¹ (¹ Dept of Oral and Maxillofacial Pathobiology, Hiroshima Univ., ² Dept. of Pharmacology, Hiroshima Univ.)
P-132 1P	Cementoblasts are not derived from Hertwig's epithelial sheath ○Yamamoto T ¹ , Takahashi S ¹ (¹ Dept. of Developmental Biology of Hard Tissue, Hokkaido University Graduate School of Dental Medicine)
P-133 1P	Age estimation from teeth of burned body using amino acid: color value of dentin and the racemization rates of aspartic acid ○Ohtani S ¹ , Ogasawara A ² , Marumo T ² , Utsuno H ³ (¹ Ins. for Frontier Oral Science, Kanagawa Dent. Coll., ² Dept. of Forensic Med., Kanagawa Dent. Coll., ³ Dept., of Oral Anatomy, Matsumoto Dent. Univ.)
P-134 1P	Expression change of HSP in mouse dental pulp cells after receiving of experimental orthodontic force ○Nakano K ¹ , Muraoka R ¹ , Watanabe T ¹ , Kawakami T ¹ (¹ Hard Tissue Pathology Unit, Matsumoto Dental Univ. Grad. Sch. of Oral Medicine)
P-135 1P	Torsional motion: movement of the ameloblast ○Oota-yokota R ¹ , Niimi T ¹ , Yamamoto H ¹ , Suzuki K ¹ , Sakae T ¹ , Kozawa Y ¹ (¹ Dept. of Histology, Cytology and Developmental Anatomy, Nihon Univ. Sch. of Dent. at Matsudo)
P-136 1P	Effect of zinc oxide-eugenol mixture on induction of cyclooxygenases and prostaglandin E synthases in inflamed pulps of rat mandibular incisors ○Fukada T ¹ , Toen T ¹ , Hashimoto S ¹ (¹ Sect. of Radioisotope Research, Res. Center for Odontology, Sch. of Life Dentistry at Tokyo, The Nippon Dental University)
P-137 1P	Immunohistochemistry of sodium bicarbonate cotransporter 1 (NBCe1) in the rat enamel organ ○Nishikawa S ¹ (¹ Dept. of Biol., Tsurumi Univ. Sch. Dental Med.)
P-138 1P	In vitro calcification by an anion dendrimer and a phosphopeptide ○Fujisawa R ¹ , Mizuno M ¹ , Tamura M ¹ (¹ Dept. of Oral Biochem. & Mol. Biol., Sch. of Dent., Hokkaido Univ.)
P-139 1P	Development of the upper dentition and incisive suture in the house shrew (<i>Suncus murinus</i>) ○Yamanaka A ¹ , Sonomura T ¹ , Iwai H ¹ , Uemura M ¹ (¹ Dept. of Oral Anatomy, Grad. Sch. of Medical and Dental Science, Kagoshima Univ.)
P-140 1P	Mineralization of immortal dog dental pulp cells ○Handa K ¹ , Koike T ¹ , Saito T ¹ (¹ Divi. of Cariology and Endo. Health Sciences Univ. of Hokkaido)
P-141 1P	Morphological and immunohistochemical observations on the enamel in bony fish ○Sasagawa I ¹ , Ishiyama M ² , Yokosuka H ² , Uchida T ³ (¹ Advanced Research Centre, Nippon Dental Univ., Niigata, ² Dept. of Histology, Nippon Dental Univ., Niigata, ³ Dept. of Oral Biology, Grad. Sch. of Biomedical Sciences, Hiroshima Univ.)
P-142 1P	Formation of the vertical Hunter-Schreger bands—In case of molar of <i>Subhyracodon</i> and <i>Pyrotherium</i> — ○Suzuki K ¹ , Kozawa Y ¹ , Sakae T ¹ , Yamamoto H ¹ , Ohta R ¹ , Niimi T ¹ (¹ Dept. of Cytology, Histology, Developmental Anatomy Nihon Univ. Sch. of Dent. at Matsudo)
P-143 1P	Four-dimensional μ CT analysis of enamel subsurface carious lesions and remineralization ○Kanri Y ¹ , Shimazu Y ¹ , Sato K ¹ , Aoba T ¹ (¹ Dept. of Pathology, Nippon Dental Univ.)
P-144 1P	Sulfated glycoconjugates associated with dentinogenesis and osteogenesis of the ganoid scales of <i>Polypterus senegalus</i> ○Kogaya Y ¹ , Satoh K ¹ , Kubo K ¹ , Ejiri S ¹ (¹ Dept. of Oral Anatomy, Asahi Univ, Sch. Dent.)
P-145 1P	Structural changes in human dental enamel by aging ○Eshita Y ¹ , Manago K ² , Isobe T ¹ (¹ Personal Health Care Products Research Lab., Kao Corp., ² Anaritical Science Research Lab., Kao Corp.)
P-146 1P	Histological observations of tooth germ in Enamelin ENU-mutagenized mice ○Oda S ¹ , Sekiguchi H ¹ , Shintani S ¹ , Sawada T ² , Yanagisawa T ² , Uchida T ³ (¹ Dept. of Pediatric Dentistry, Tokyo Dent Coll., ² Dept. of Ultrastruct Sci., Tokyo Dent Coll., ³ Dept. of Oral Biology, Grad.Sch. of Biomedical Sciences, Hiroshima Univ.)
P-147 1P	Expression of Caspase-14 in mouse Ameloblasts ○Miyazono A ^{1,2} , Suzawa T ¹ , Yamamoto M ² , Kamijo R ¹ (¹ Dept. of Periodontology, Univ. of Showa, ² Dept. of Biochemistry, Univ. of Showa)
P-148 1P	Observations on the dentinoenamel junction of human lower incisors ○Niimi T ¹ , Oota R ¹ , Yamamoto H ¹ , Suzuki K ¹ , Sakae T ¹ , Yamashita Y ² , Kozawa Y ¹ (¹ Dept. of Histology, Cytology and Developmental Anatomy, Nihon Univ. Sch. of Dent. at Matsudo, ² Maxillofacial Anatomy, Dept. of Maxillofacial Biology, Graduate Sch.,Tokyo Medical and Dental Univ.)
P-149 1P	Morphological observation on the cementum in <i>Monodelphis domestica</i> ○Abe T ¹ , Niimi T ² , Suzuki K ² , Shikano S ¹ , Terashima T ¹ , Kozawa Y ² , Yamashita Y ¹ (¹ Maxillofacial Anatomy, Department of Maxillofacial Biology, Division of Maxillofacial/Neck Reconstruction, Graduate School, Tokyo Medical and Dental University, ² Dept. of Histology, Cytology and Developmental Anatomy, Nihon Univ. Sch. of Dent. at Matsudo)

P-150 1P	Localization of TAK1 and p-38 in the tooth germ of rat molar ○Moriguchi M ¹ , Yamada M ² , Yanagisawa T ¹ (¹ Dept. of Ultrastructural Science, Tokyo Dental College, ² Niigata University of Health and Welfare, School of Health Science, Department of Physical Therapy)
P-151 1P	Dystroglycan is a major receptor for perlecan in the tooth enamel organ cells ○Ida-yonemochi H ¹ , Saku T ^{1,2} (¹ Oral Pathology Section, Niigata University Hospital, ² Div. of Oral Pathology, Niigata Univ. Grad. Sch. of Medical and Dental Sciences)
P-152 1P	Dental arch form of Chinese ethnic minorities, the Myao, in Yunnan Province ○Matsuno M ¹ , Nakayama M ¹ , Takahashi M ¹ , Kanazawa E ¹ (¹ Dept. of Anatomy and Physicalanthropology, Nihon Univ. Sch. of Dentistry at Matsudo)
P-153 1P	Development of mouse multirooted teeth by long-term organ culture system and subcutaneous transplantation method ○Terashima T ¹ , Baba O ² , Abe T ¹ , Shikano S ¹ , Yamashita Y ¹ , Oida S ³ (¹ Maxillofacial Anatomy, Dept. of Maxillofacial Biology, Grad. Sch. of Tokyo Med. Dent. Univ., ² Biostructural Science, Dept. of Hard Tissue Engineering, Grad. Sch. of Tokyo Med. Dent. Univ., ³ Dept. of Biochemistry, Univ. of Tsurumi)
P-154 1P	Reduction of EGF signaling decides transition from crown to root in the development of mouse molars ○Fujiwara N ¹ , Otsu K ¹ , Akimoto T ² , Kagiya T ¹ , Ishizeki K ¹ , Harada H ¹ (¹ Dept. of Oral Anat. 2, Sch. of Dent., Iwate Med. Univ., ² Dept. of Periodont., Sch. of Dent., Iwate Med. Univ.)
P-155 1P	A study of lymphatic vessels in the human deciduous tooth pulp ○Tominaga Y ¹ , Kumabe S ¹ , Iwai Y ¹ (¹ Dept. of Oral Anatomy, Osaka Dental Univ.)
P-156 1P	Comparative study between the micro-CT images and the X-ray image of the upper first premolar root canal ○Onodera M ¹ , Fujimura A ¹ , Osawa T ¹ , Nozaka Y ¹ (¹ First Dept. of Oral Anatomy, School of Dentistry, Iwate Medical University)
P-157 1P	Cytodifferentiation activity of dentin phosphophoryn ○Izuhara L ¹ , Fukae M ¹ (¹ Dept. of Biochemistry, Sch. of Dental Medicine, Tsurumi Univ.)
P-158 1P	IL-6 expression in mouse masseter muscle with mastification-like behavior ○Kiyama T ¹ , Tsuchiya M ² , Endo Y ⁴ , Nishioka T ³ , Sugawara S ⁴ , Watanabe M ² (¹ Tohoku University School of Dentistry, ² Graduate School of Dentistry, Aging and Geriatric Dentistry, ³ Oral Diagnosis, ⁴ Oral Molecular Bioregulation)
P-159 1P	Phylogenetic analysis of 16S-23S intergenetic spacer genes of anginosus group streptococcus isolated from bacteremia patients ○Nakafuji S ¹ , Hoshino T ² , Saito K ² , Fujiwara T ² (¹ School of Dentistry, ² Department of Pediatric Dentistry Nagasaki University Graduate School of Biomedical Sciences)
P-160 1P	Role of transcription factor Dmrt2 in endochondral ossification ○Nakamura E ¹ , Hata K ¹ , Nishimura R ¹ , Yoneda T ¹ (¹ Dept. of Biochemistry, Osaka Univ. Grad. Sch. of Dentistry)
P-161 1P	An association between sensory neuropeptide tachykinin and rat osteoclasts ○Ichiki T ¹ , Goto T ² , Morikawa K ³ , Nakao K ⁴ , Gunjigake K ⁵ , Kobayashi S ² (¹ Student, Kyushu Dental College, ² Div. of Anatomy, Kyushu Dental College, ³ Div. of Developmental Stomatognathic Function Science, Kyushu Dental College, ⁴ Div. of Molecular Signaling and Biochemistry, Kyushu Dental College, ⁵ Div. of Orofacial Functions and Orthodontics, Kyushu Dental College)
P-162 1P	Identification of the lipoprotein LivK from <i>Streptococcus mutans</i> ○Inoue A ¹ , Arimoto T ² , Igarashi T ² (¹ Showa Univ. Sch. of Dentistry, ² Dept. Oral Microbiology Showa Univ. Sch. of Dentistry)
P-163 1P	Short-term effectiveness of NaF-mouthrinse for the inhibition of acid production in plaque ○Yagishita Y ¹ , Shibata A ¹ , Asanoumi A ¹ , Nakajo K ¹ , Takahashi N ¹ (¹ Div. of Oral Ecology and Biochemistry, Dept of Oral Biology, Grad. Sch. of Tohoku Univ)
P-164 1P	Origin of the cell for reparative cementum formation in periodontal membrane ○Oya K ¹ , Satou J ¹ , Kishino M ¹ , Ogawa Y ¹ , Kagawa R ¹ , Kamakura N ¹ , Toyosawa S ¹ (¹ Dept. of Oral Pathology, Grad. Sch. of Dent. Osaka Univ.)
P-165 1P	Three-dimensional characterization and morphometry of human oral lesions ○Mizukami A ¹ , Nasu M ¹ , Imai E ¹ , Daitoku T ¹ , Kudo T ² , Shimazu Y ² , Aoba T ² (¹ Fourth class, Nippon Dental Univ., ² Dept. of Pathology, Nippon Dental Univ.)
P-166 1P	Age-dependent responses of glial cells and leptomeninges during chronic systemic inflammation ○Tokuda Y ¹ , Zhang XW ² , Wu Z ² , Nakanishi H ³ (¹ Kyushu Univ. Fac. Dent. Sci., ² Kyushu Univ. Fac. Dent. Sci., ³ Lab. Oral Aging Sci., Kyushu Univ. Fac. Dent. Sci.)
P-167 1P	Bone regeneration in ovary extracted osteoporosis model rats ○Takagi S ¹ , Kameyama H ¹ , Fukuoka E ¹ (¹ Undergraduate Student, Asahi Univ. Sch. of Dentistry)
P-168 1P	Expression of AMP-activated protein kinase under stresses in mouse salivary glands ○Higuchi H ¹ , Ohta K ² (¹ 6th grade, Sch. of Dentistry, Tokyo Dent. Coll., ² Dept. of Biol., Tokyo Med. Univ.)
P-169 1P	Observation of the human embryonic dentition by the 3-D reconstruction and micro-CT ○Oosawa E ¹ , Yamaguchi A ¹ , Oota R ² , Yamamoto H ² , Suzuki K ² , Kozawa Y ² (¹ Nihon Univ. Sch. of Dent. at Matsudo, ² Dept. of Histology, Cytology and Developmental Anatomy, Nihon Univ. Sch. of Dent. at Matsudo)
P-170 1P	A crucial role for iron metabolism in RANKL induced osteoclastogenesis ○Shimada M ¹ , Sakai E ² , Nakayama K ³ , Tsukuba T ² (¹ Sch. Dentistry, Nagasaki Univ., ² Dept. of Oral Pathopharmacology, Grad. Sch. of Biomed. Sci., Nagasaki Univ., ³ Dept. of Microbiology and Oral Infection)
P-171 1P	Microarray analysis of gene expression profile in mouse ameloblasts ○Hayakawa Y ¹ , Iwasaki K ¹ , Suzawa T ² , Nakamura M ³ , Kamijo R ² (¹ 4th Year Student, Showa Univ. Sch. Dent., ² Dept. Biochem., Showa Univ. Sch. Dent., ³ Dept. Oral Anat., Showa Univ. Sch. Dent.)
P-172 1P	Microarray analysis of gene expression profile in mouse dental pulp cells ○Odawara S ¹ , Suzuki W ¹ , Sakano M ¹ , Suzawa T ² , Kamijo R ² (¹ 5th Year Student, Showa Univ. Sch. Dent., ² Dept. Biochem., Showa Univ. Sch. Dent.)

P-173 1P	Binding of CCN2/CTGF to Matrilin-3 enhances network formation of extracellular matrices ○Araki D ¹ , Hattori T ¹ , Aoyama E ² , Hoshijima M ¹ , Takigawa M ¹ (¹ Dept. Biochem. Mol. Dent., Okayama Univ. Grad. Sch. Med., Dent. Pharm. Sci., ² Bident. Res. Cent., Okayama Univ. Dent. Sch.)
P-174 1P	Effect of eugenol on capsaicin-induced current in trigeminal ganglion cells ○Yoneda H ¹ (¹ Sch. of Dentistry Tohoku Univ.)
P-175 1P	Effect of LXR agonist on incretin expression ○Ono S ¹ , Wan Nazatul S ² , Mizusawa N ² , Yoshimoto K ² (¹ Faculty of Dentistry, The Univ. of Tokushima, ² Dept of Medical Pharmacology, The Univ. of Tokushima)
P-176 1P	Functional analysis of isletasin ○Yasunaga K ¹ , Mizusawa N ² , Hatakeyama S ³ , Yoshimoto K ² (¹ Faculty of Dentistry, The Univ. of Tokushima, ² Dept. of Medical Pharmacology, The Univ. of Tokushima, ³ Dept. of Oral Pathology, Univ. of Iwate Med)
P-177 1P	Identification of the new transcription factor that influences expression of gingipains ○Lee J ¹ , Sato K ² , Yukitake H ² , Naito M ² , Shoji M ² , Nakayama K ² (¹ Grad. Sch. of Biomedical. Science, Nagasaki Univ., ² Div. of Microbiology and Oral Infection, Grad. Sch. of Biomedical. Science, Nagasaki Univ.)
P-178 1P	Availability of keratins as biomarkers for oral and esophagus squamous cell carcinomas ○Kida T ^{1,2} , Sato M ^{1,2} , Shibasaki M ^{1,2} , Sakamoto K ² , Yamaguchi A ² (¹ Faculty of Dentistry, Tokyo Medical and Dental University, ² Section of Oral Pathology, Tokyo Medical and Dental University)
P-179 1P	Abnormal mechanical response of osteocytes results in thinning of MMP-2 KO mouse cortical bone ○Furuhashi T ¹ , Takagaki Y ¹ (¹ Dept. of Functional Biology, Div. of Biochemistry and Molecular Biology, Kanagawa Dental College)
P-180 1P	Oncogenic role of Runx3 in oral cancer ○Tsunematsu T ^{1,2} , Kudo Y ² , Ogawa I ³ , Takata T ² (¹ Hiroshima Univ. Faculty of Dentistry, ² Dept. of Oral and Maxillofacial Pathobiology, Grad. Sch. of Biomedical Sciences, Hiroshima Univ., ³ Center of Oral Clinical Examination, Hiroshima Univ. Hospital)
P-181 1P	High expression of CIP2A and its role in oral cancer ○Obayashi M ^{1,2} , Kudo Y ² , Ogawa I ³ , Takata T ² (¹ Hiroshima Univ Faculty of Dentistry, ² Dept. of Oral and Maxillofacial Pathobiology, Grad. Sch. of Biomedical Sciences, Hiroshima Univ., ³ Center of Oral Clinical Examination, Hiroshima Univ. Hospital)
P-182 1P	Effects of insulin on expression of beta-defensin in salivary glands of rat with diabetes ○Shinomiya R ¹ , Shinomiya T ¹ , Okubo M ¹ , Kawaguchi M ¹ , Yoshikawa M ^{1,2} (¹ Dept. of Pharmacology, Tokyo Dental College, ² Dept. of Clinical Pharmacology, Tokai Univ. School of Medicine)
P-183 2P	Metabolic mode peculiar to Meckel's cartilage: Immunohistochemical localization of hypoxia-inducible factor-1alpha and glucose transporters ○Sakakura Y ¹ , Irie K ¹ (¹ Div. of Anat., Dept. of Oral Growth & Dev., Sch of Dentistry, Health Sci. Univ. of Hokkaido)
P-184 2P	Failure of adiponectin action influences osteoblast-related gene expression ○Ueno M ¹ , Kamada A ¹ , Ikeo T ¹ (¹ Dept. of Biochemistry, Osaka Dental Univ.)
P-185 2P	Three-dimensional features of osteoclasts starting bone resorption ○Domon T ¹ , Hiramatsu A ¹ , Ushijima N ¹ , Suzuki R ¹ , Wakita M ¹ (¹ Div. of Oral Anatomy, Grad. Sch. of Oral Medicine, Hokkaido Univ.)
P-186 2P	Effects of trehalose on bone mineral density in ovariectomized rats ○Taya K ¹ , Hirose K ² , Hamada S ¹ (¹ Div. of Dental Pharmacology, Dept. of Oral Medical Science, Ohu Univ. Sch. of Dentistry, ² Div. of Preventive Dentistry, Dept. of Oral Health, Ohu Univ. Sch. of Dentistry)
P-187 2P	FGF signaling in the craniofacial skeletogenesis ○Kawai M ¹ , Yamamoto T ¹ (¹ Dept. of Oral Biology, Grad. Sch. of Med., Dent. and Pharm., Okayama Univ.)
P-188 2P	Distribution pattern of caldecrin and development of the serum caldecrin concentration mensuration—I. Construction of the anti-caldecrin monoclonal antibody— ○Fujimoto K ¹ , Inaba A ¹ , Oi M ² , Hasegawa H ² , Kanegae H ² , Tomomura A ¹ (¹ Div. of Biochem., Dept. of Oral Biol. & Tissue Engineering, Meikai Univ. Sch. of Dentistry, ² Div. of Orthodontics, Dept. of Human Develop. & Fostering, Meikai Univ. Sch. of Dentistry)
P-189 2P	Gene transfection efficiency into osteoclast precursor cell line 4B12 ○Amano S ¹ , Sekine K ¹ , Ohmori Y ¹ (¹ Div. of Microbiology, Dept. of Oral Biology and Tissue Engineering, Sch. of Dentistry, Meikai Univ.)
P-190 2P	Increased expression of NFAT by Harmine ○Doi M ^{1,2} , Egusa H ² , Saeki M ¹ , Iida T ² , Kamisaki Y ¹ , Yatani H ² (¹ Dept. of Pharmacology, Osaka Univ. Grad. Sch. of Dent., ² Dept. of Fixed Prosthodontics, Osaka Univ. Grad. Sch. of Dent.)
P-191 2P	Bioresorption and osteoconductivity of spherical hydroxyapatite granules composed of rod-shaped particles ○Gonda Y ^{1,2} , Shibata Y ¹ , Ioku K ³ , Ikeda T ¹ (¹ Dept. of Oral Pathology and Bone Metabolism, Nagasaki Univ., ² Dept. of Orthopedic Surgery, Juntendo Univ., ³ Graduate School of Environmental Studies, Tohoku Univ.)
P-192 2P	Microarray analysis of miRNA expression regulated by type-I interferons in pre-osteoclasts ○Sato T ¹ , Masuhara M ¹ , Hada N ¹ , Okayasu M ¹ , Hakeda Y ¹ (¹ Div. of Oral Anatomy, Dept of Human Development and Fostering, Meikai Univ)
P-193 2P	Experimental study of bone repair with CM chitin sponge ○Toda I ¹ , Takemura A ¹ , Suwa F ¹ (¹ Dept. of Anatomy, Osaka Dent. Univ.)
P-194 2P	NOX1 expression in osteoblasts of NOS1,2 and 3 knockout mice ○Watanabe H ¹ , Moro Y ¹ , Ambe K ¹ , Nakagawa T ¹ , Fukai N ¹ , Yanagisawa T ² (¹ Div. Oral Histology, Dept. Morphological Biol., Sch. of Dent., Ohu Univ., ² Dept. Ultrastruct. Sci, Tokyo Dent. Coll.)
P-195 2P	Tenascin-N is associated with osteoblast differentiation ○Okuhara S ¹ , Saito M ² , Ota M ¹ , Iseki S ¹ (¹ Sect. of Molucular Craniofacial Embryology, Grad. Sch. of Tokyo Medical and Dental Univ., ² Dept. of Biochem, Dent, Grad. Sch. of Osaka Univ.)

P-196 2P	Bisphosphonate (BP)-associated osteonecrosis of jaw bones in a patient with osteoporosis: a try for preventing progression and for keeping anti-bone-resorption ○Yamaguchi K ¹ , Oizumi T ^{1,2} , Kawamura H ¹ , Endo Y ² (¹ Dept of Maxillofacial Surgery, Tohoku Univ Grad Sch of Dentistry, ² Dept of Oral Microbiology, Tohoku Univ Grad Sch of Dentistry)
P-197 2P	Expression of IGF family in developing mouse mandibular condylar cartilage ○Shibata S ¹ , Tamaki T ¹ , Suzuki Y ¹ (¹ Div. of Histology, Dept. of Oral Growth and Development, Sch. of Dentistry, Health Sciences University of Hokkaido)
P-198 2P	The participation of iron binding protein in RANKL induced osteoclastogenesis ○Sakai E ¹ , Shimada M ² , Nishishita K ¹ , Okamoto K ¹ , Tsukuba T ¹ , Nakayama K ³ (¹ Dept. of Oral Pathopharmacology, Grad. Sch. of Biomed. Sci., Nagasaki Univ., ² Sch. Dentistry, Nagasaki Univ., ³ Dept. of Microbiology and Oral Infection)
P-199 2P	Direct neurite-osteoblastic cell communication in vitro occurs via alpha-adrenergic stimulation ○Obata K ¹ , Togari A ¹ (¹ Dept. of Pharmacology, Sch. of Dentistry, Aichi-Gakuin University)
P-200 2P	Statin signal in ST2, established bone marrow stromal cell ○Baba T ¹ , Nemoto T ¹ , Miyazaki T ² , Oida S ³ (¹ Dept. of Oral Molecular Biology, Nagasaki Univ. Grad. Sch. of Biomed. Sci., ² Dept. of Cell Biology, Nagasaki Univ. Grad. Sch. of Biomed. Sci., ³ Dept. of Oral Biochem., Tsurumi Univ.)
P-201 2P	Effects of dentin phosphophoryn-derived peptides on the differentiation of human mesenchymal stem cells ○Yasuda Y ¹ , Saito T ¹ (¹ Div. of Clinical Cariology and Endodontology, Health Sciences Univ. of Hokkaido)
P-202 2P	Expression of retinoic acid early inducible gene-1 in osteoblasts ○Shimazu A ^{1,2} , Kawahara K ¹ , Uchida T ³ (¹ Div. of Medical Intelligence and Informatics, Grad. Sch. of Biomedical Science, Hiroshima Univ., ² Preventive Dentistry, Hiroshima University Hospital, ³ Dept. of Oral Biology, Grad. Sch. of Biomedical Science, Hiroshima Univ.)
P-203 2P	Implication of melatonin in growth of scleral cartilage of myopic chicks ○Koide H ¹ , Kuroda N ¹ , Sato T ¹ (¹ Dept. of Anatomy II, Tsurumi Univ. Sch. of Dental Medicine)
P-204 2P	Retinoic acid inhibits serum-activated transcriptional factor AP-1 via suppression of c-fos and c-jun gene expression in osteoblastic cell line MC3T3-E1 cells ○Suetsugu M ¹ , Takeshita A ¹ , Takano A ² , Kanegae H ² , Yasui T ¹ (¹ Div. of Oral Health and Preventive Dentistry, Sch. of Dentistry, Meikai Univ., ² Div. of Orthodontics, Sch. of Dentistry, Meikai Univ.)
P-205 2P	Characteristics of the growth of mouse osteoblastic cells in culture ○Onuki H ¹ , Sakagami H ² , Shimada J ¹ (¹ Div. Oral Maxillofacial Surgery, Meikai Univ. Sch. Dent., ² Div. Pharmacol., Meikai Univ. Sch. Dent.)
P-206 2P	Somatostatin inhibits the excitability of rat trigeminal ganglion neurons that innervate nasal mucosa and project to the upper cervical dorsal horn ○Takeda M ¹ , Takahashi M ¹ , Nasu M ² , Matsumoto S ¹ (¹ Dept. Physiol, Sch. of Life Dent, Nippon Dent. Univ., ² Res. Cent. for Odontol.)
P-207 2P	Laser speckle imaging for monitoring blood flow dynamics in rat masseter muscle and peripheral tissue ○Niioka T ¹ , Ishii H ¹ , Izumi H ¹ (¹ Div. of Physiology, Dept. of Oral Biology, Sch. of Dentistry, Health Sciences Univ. of Hokkaido)
P-208 2P	Immunohistochemical study of rat submandibular ganglion with selective serotonin reuptake inhibitor ○Kawabe H ¹ , Higashi K ² , Tuzuki H ² , Miyagi A ¹ , Takahashi O ² (¹ Div. of dentistry for Disability, Kanagawa Dental College, ² Division of Histology, Kanagawa Dental College)
P-209 2P	NaCl taste responses enhanced by NiCl ₂ in frog taste cells ○Fukami H ¹ , Okuda-akabane K ¹ , Kitada Y ¹ (¹ Dept. of Oral Physiology, Iwate Medical University)
P-210 2P	Taste transmission pathway for bitter taste in the frog taste discs: analysis of quinine-sensitive fibers in the glossopharyngeal nerve ○Narita K ¹ , Kitada Y ¹ (¹ Dept. of Oral Physiol., Sch. of Dent., Iwate Med. Univ.)
P-211 2P	Immunohistochemical analysis of Na ⁺ /K ⁺ ATPase α 3 isoform in nodose ganglion neurons in newborn rats after an injection of fluorescent tracer into the trachea ○Saiki C ¹ , Matsumoto S ¹ (¹ Dept. of Physiology, Nippon Dental Univ., Sch. of Life Dentistry at Tokyo)
P-212 2P	Positive regulatory effects of extracellular Ca ²⁺ via permeation on TRPC5 channel activity ○Wakamori M ¹ , Yoshida T ¹ (¹ Div. of Mol. Pharmacol & Cell Biophys., Dept of Oral Biol., Tohoku Univ. Grad. Sch. of Dentistry)
P-213 2P	Recovery of umami taste responses during regeneration of the mouse chorda tympani nerve ○Yasumatsu K ¹ , Kusuhara Y ¹ , Ohkuri T ¹ , Yoshida R ¹ , Ninomiya Y ¹ (¹ Sect. Oral Neurosci., Grad. Sch. Dent. Sci., Kyushu Univ.)
P-214 2P	β_2 -adrenergic vasodilatation mediated by sympathoadrenal system in the rat masseter muscle ○Ishii H ¹ , Niioka T ¹ , Izumi H ¹ (¹ Div. of Physiology, Dept. of Oral Biology, Health Sciences Univ. of Hokkaido)
P-215 2P	Analysis of response properties of type II and III taste cells in fungiform taste buds by using GFP knock-in mice ○Yoshida R ¹ , Murata Y ¹ , Yasuo T ¹ , Jotaki M ¹ , Yasumatsu K ¹ , Shigemura N ¹ , Ninomiya Y ¹ (¹ Sect. of Oral Neurosci., Grad. Sch. of Dental Sci., Kyushu Univ.)
P-216 2P	Type II taste cells release ATP in a firing-rate dependent manner ○Murata Y ¹ , Yasuo T ¹ , Yoshida R ¹ , Ninomiya Y ¹ (¹ Sect. of Oral Neurosci., Grad. Sch. of Dental Sci., Kyushu Univ.)
P-217 2P	The distribution of isolectin B4-binding neurons in the vagal and glossopharyngeal sensory ganglia ○Wan YY ¹ , Terayama R ¹ , Yamaai T ¹ , Ichikawa H ¹ , Sugimoto T ¹ (¹ Dept. of Oral Function & Anatomy, Okayama Univ. Grad. Sch. of Med. Dent. & Pharm.)

P-218 2P	Are the anti-cariogenic sugar alcohols sweet? ○Sako N ¹ , Katsukawa H ¹ , Yamamoto T ² (¹ Dept. Oral Physiol., Asahi Univ. Sch. Dent., ² Dept. Nursing Med. Care, Fac. Health Sci., Kio Univ.)
P-219 2P	The identification of attractive volatiles in aged male mouse urine ○Osada K ¹ , Tashiro T ² , Mori K ² , Izumi H ¹ (¹ Div. of Physiology, Dept of Oral Biology, Health Sciences Univ. of Hokkaido, ² RIKEN Research Center for Allergy and Immunology)
P-220 2P	The need of masticatory stimulation for induction of salivary proteins by dietary quinine ○Katsukawa H ¹ , Kawamura S ¹ , Nakashima K ² , Ninomiya Y ³ , Sako N ¹ (¹ Sect. of Oral Physiology, Asahi Univ. Sch. of Dentistry, ² Sect. of Chemistry, Asahi Univ. Sch. of Dentistry, ³ Sect. of Oral Neuroscience, Grad. Sch. of Dental Science, Kyushu Univ.)
P-221 2P	Down-regulation of salivary gland AQP5 by LPS ○Yao C ¹ , Azlina A ¹ , Purwanti N ¹ , Karabasil M ¹ , Hasegawa T ¹ , Akamatsu T ¹ , Hosoi K ¹ (¹ Dept. Mol. Oral Physiol., Inst. Health Biosci., Univ. Tokushima Grad. Sch.)
P-222 2P	Expression of Bax and Bcl-2 during atrophy of rat submandibular gland ○Takahashi S ¹ , Yoshimura Y ² , Yamamoto T ¹ (¹ Dept. of Oral Health Science, Hokkaido Univ. Grad. Sch. of Dental Medicine, ² Dept. of Oral Pathobiological Science)
P-223 2P	Exploration of Exocyst proteins and complexes in rat parotid acinar cells ○Imai A ¹ , Nashida T ¹ , Shimomura H ¹ (¹ Dept. of Biochemistry, Sch. of Life Dentistry at Niigata, The Nippon Dental Univ.)
P-224 2P	Quantitative analyses of IP ₃ oscillations using fluorescent biosensors ○Tanimura A ¹ , Morita T ¹ , Nezu A ¹ , Tojyo Y ¹ (¹ Dept. of Pharmacology, Health Sciences Univ. of Hokkaido)
P-225 2P	Unstimulated secretion of transferrin from rat parotid acinar cells ○Nashida T ¹ , Imai A ¹ , Shimomura H ¹ , Yoshie S ² (¹ Dept. of Biochemistry, Sch. of Life Dentistry at Niigata, The Nippon Dental Univ., ² Dept. of Histology, Sch. of Life Dentistry at Niigata, The Nippon Dental Univ.)
P-226 2P	mRNA Expression of transcription factor Mist1 in salivary glands ○Sato R ¹ , Nashida T ² , Imai A ² (¹ Nippon Dental Univ. Coll. at Niigata, ² Dept. of Biochemistry, Nippon Dental Univ. Sch. of Life Dentistry at Niigata)
P-227 2P	Function of salivary histatin relative to cell cycle in HGF ○Imamura Y ^{1,2} , Fujigaki Y ³ , Ouryouji K ⁴ , Ara T ^{1,2} , Miyazawa H ^{4,5} , Wang PL ^{1,2} (¹ Dept. of Pharmacology, Matsumoto Dental Univ., ² Div. of Mol. Eng. and Drug Dev. Sci., Grad. Sch. of Oral Med., Matsumoto Dental Univ., ³ Dep. of Prev. Dent., Matsumoto Dental Univ., ⁴ Dep. of Pediatr. Dent., ⁵ Div. of Health Promot. Inst. of Oral Sci., Grad. Sch. of Oral Med., Matsumoto Dental Univ.)
P-228 2P	Involvement of IL-6-STAT3-Sca-1 system in the proliferation of duct cells in the ligated mouse submandibular gland ○Purwanti N ¹ , Azlina A ¹ , Karabasil M ¹ , Yao C ¹ , Hasegawa T ¹ , Akamatsu T ¹ , Hosoi K ¹ (¹ Dept. of Mol. Oral Physiol., Inst. Health Biosci., Univ. of Tokushima Grad. Sch.)
P-229 2P	Localization of HMG-CoA reductase in the fetal mouse submandibular gland and its role on the branching morphogenesis ○Yamasaki D ¹ , Tajima M ² , Nagao T ² , Simada J ¹ , Sakagami H ² (¹ Div. of Oral and Maxillofacial Surgery, Dept. of Diagnostic and Therapeutic Sciences, Meikai Univ. Sch. of Dentistry, ² Div. of Pharmacology, Dept. of Diagnostic and Therapeutic Sciences, Meikai Univ. Sch. of Dentistry)
P-230 2P	Neurokinin A induces salivary secretion via paracellular pathway in the perfused rat submandibular gland ○Qi B ¹ , Narita T ^{1,2} , Mitsui R ^{1,2} , Satoh K ¹ , Guo M ¹ , Katsumata O ^{1,2} , Fujita-yoshigaki J ^{1,2} , Murakami M ³ , Sugiyama H ^{1,2} (¹ Dept. of Physiology, Nihon Univ. Sch. Dent. at Matsudo, ² Res. Inst. Oral Science, Nihon Univ. Sch. Dent. at Matsudo, ³ Lab. Nano-Structure Physiology, NIPS)
P-231 2P	Two phase regulation of Ca ²⁺ -dependent anion secretion from intralobular duct cells of rat parotid glands ○Hirono C ¹ , Sugita M ¹ , Iwasa Y ¹ , Shiba Y ¹ (¹ Dept. of Oral Physiology, Hiroshima Univ. Grad. Sch. of Biomedical Sciences)
P-232 2P	Detection of microRNA in the developing mouse submandibular gland ○Hayashi T ¹ , Koyama N ¹ , Kashimata M ¹ (¹ Dept. of Dental Pharmacology, Univ. of Asahi)
P-233 2P	Expression pattern of human beta defensins in labial gland of Sjogren's Syndrome ○Yamaai Y ¹ , Gunduz M ² , Katase N ² , Nagatsuka H ² (¹ Dept. Oral Function and Anat., Okayama Univ. Grad. Sch., Med., Dent. and Pharmaceut. Sci., ² Dept. Oral Pathol. and Med., Okayama Univ. Grad. Sch., Med., Dent. and Pharmaceut. Sci.)
P-234 2P	Salivary gland size in unknown-etiology xerostomia patients ○Ono K ¹ , Inenaga K ¹ (¹ Dept. of Biosciences, Kyushu Dental College)
P-235 2P	Utility of salivary alpha-amylase to evaluate the stress for the dental treatment in handicapped children ○Sonomoto M ¹ , Daito M ¹ (¹ Dept. of Pediatric Dentistry, Osaka Dental University)
P-236 2P	Salivational damage on xerostomia in rat salivary gland ○Uchihashi K ¹ , Nishikawa Y ¹ , Naruse M ¹ , Fujimoto T ¹ (¹ Dept. of Physiology, Osaka Dental University)
P-237 2P	Expressions of TRPV4 and substance P in rat oral mucosa following noxious stimulation ○Nakatsuka M ¹ , Kumabe S ¹ , Takama K ¹ , Iwai Y ¹ (¹ Dept. of Oral Anatomy, Osaka Dental Univ.)
P-238 2P	Studies on the cells of the palatine rugae during mouse palate development ○Yamamoto H ¹ , Muramatsu T ² , Shibukawa Y ³ , Niimi T ¹ , Ohta R ¹ , Suzuki K ¹ , Sakae T ¹ , Tazaki M ³ , Kozawa Y ¹ (¹ Dept. of Histol. Cytol. and Dev. Anat., Nihon Univ. Sch. of Dent. at Matsudo, ² Dept. of Pathol., Tokyo Dent. Coll., ³ Dept. of Physiol., Tokyo Dent. Coll.)
P-239 2P	Expressions of TGFbetas, their receptors and signal transduction factor in the differentiating striated muscles of mouse tongue ○Yamane A ¹ , Fukui T ² (¹ Dept. of Biophysics, Tsurumi Univ. Sch. of Dent. Med., ² Dept. of Orthod, Tsurumi Univ. Sch. of Dent. Med.)

P-240 2P	Mechanism of endothelial ROS generation by oxidative stress ○Tajima M ¹ , Sakagami H ¹ (¹ Div. of Pharmacology, Dept. of Diagnostic and Therapeutic Sciences, Meikai Univ. Sch. of Dentistry)
P-241 2P	Change of the characteristic muscle fibres of IGF-1 transgenic myoblasts ○Sakiyama K ¹ , Iwanuma O ² , Abe S ² , Ide Y ² , Amano O ¹ (¹ Div. of Anatomy, Sch. of Dentistry, Univ. of Meikai, ² Dept. of Anatomy, Tokyo Dental College)
P-242 2P	Analysis of the positive regulatory motif for <i>c-mpl</i> gene expression in CMK cells ○Sunohara M ¹ , Murata H ¹ , Sato I ¹ (¹ Department of Anatomy, School of Life Dentistry at Tokyo, The Nippon Dental University)
P-243 2P	Variability of masseter architecture through murid rodent evolution ○Satoh K ¹ , Kogaya Y ¹ , Kubo K ¹ , Ejiri S ¹ (¹ Dept. of Oral Anatomy, Asahi Univ. Sch. of Dentistry)
P-244 2P	Immunohistochemical localization of VEGF and its receptors in developing human circumvallate papillae ○Ambe K ¹ , Nakagawa T ¹ , Moro Y ¹ , Watanabe H ¹ , Fukai N ¹ (¹ Div. Oral Histology, Dept. Morphological Biol., Sch. of Dent., Ohu Univ.)
P-245 2P	Expression of Toll-like receptors 2 and 4 on lymphatic vessels of human tongue ○Taishi Y ¹ , Kuroshima S ² , Domon T ³ , Yoshida S ³ , Kitagawa Y ¹ (¹ Department of Oral Pathobiological Science, Division of Oral Diagnosis and Oral Medicine, Graduate School of Dental Medicine, Hokkaido University, ² Department of Gerodontology, Division of Oral Health Science, Graduate School of Dental Medicine, Hokkaido University, ³ Department of Oral Functional Anatomy, Division of Oral Functional Science, Graduate School of Dental Medicine, Hokkaido University)
P-246 2P	Lymphatic architecture in rabbit auricle ○Fujimura A ¹ , Ando Y ² , Kogi S ³ , Kohnoki C ³ , Onodera M ¹ , Osawa T ¹ , Nozaka Y ¹ (¹ First Dept. of Oral Anatomy, Sch. of Dentistry, Iwate Med. Univ., ² Periodontology, Sch. of Dentistry, Iwate Med. Univ., ³ First Dept. of Oral and Maxillofacial Surgery, Sch. of Dentistry, Iwate Med. Univ.)
P-247 2P	Expression of antioxidant enzyme in mouse masseter muscle ○Sato I ¹ , Miwa Y ¹ , Sunohara M ¹ (¹ Dept. of Anat, Nippon Dent. Univ. Sch. of Life Dent.)
P-248 2P	Dynamics of B16 melanoma cells in metastatic lymph nodes of mice ○Ozasa R ¹ , Ohno J ¹ , Iwashita T ¹ , Okamura K ¹ , Enoki N ¹ , Taniguchi K ¹ (¹ Sec. of Pathology, Fukuoka Dental College)
P-249 2P	ASK family kinases regulate apoptosis and inflammation in tumorigenesis ○Takeda K ¹ , Ichijo H ¹ (¹ Cell Signaling, Grad. Sch. Pharm. Sci., Univ. Tokyo)
P-250 2P	Development of constructing the vector with site-specific DNA methylation and its application ○Arakawa T ¹ , Abiko Y ² , Okayama M ³ , Mizoguchi J ³ , Takuma T ¹ (¹ Dept. of Biochem., Sch. of Dent., Health Sci. Univ. of Hokkaido, ² Dept. of Dent. Sci., Personalized Health Sci. Center, Health Sci. Univ. of Hokkaido, ³ Dept. of Orthodontics., Sch. of Dent., Health Sci. Univ. of Hokkaido)
P-251 2P	Study of relationship between histopathological malignancy and cervical lymph nodes metastasis in tongue carcinoma ○Okada Y ¹ , Ohkubo Y ¹ (¹ The Nippon Dental Univ., Niigata, Dept. of Pathology)
P-252 2P	Functional analysis of apoptosis regulatory factor GRIM19 in oral carcinoma cells ○Mori K ¹ , Hiroi M ² , Shimada J ¹ , Ohmori Y ² (¹ Div. of Oral and Maxillofacial Surgery, Dept. of Diagnosis and Therapeutics Science, Meikai Univ. Sch. of Dentistry, ² Div. of Microbiology and Immunology, Dept. of Oral Biology and Tissue Engineering, Meikai Univ. Sch. of Dentistry)
P-253 2P	Establishment of human odontogenic epithelial cell line immortalized with hTERT and cdk4 ○Hatakeyama S ¹ , Mizuki H ² , Mizusawa N ³ , Takeda Y ¹ (¹ Dept. of Oral Pathology, Sch. of Dentistry, Iwate Medical Univ., ² First Dept. of Oral and Maxillofacial Surgery, ³ Dept. of Medical Pharmacology, Inst. Health Bioscience, The Univ. of Tokushima Graduate School)
P-254 2P	Activation mechanism of NF- κ B in acidic extracellular pH signaling to induce gelatinase B (MMP-9) expression ○Kato Y ¹ , Ozawa S ^{1,2} , Hata R ¹ (¹ Dept. of Biochem. & Mol. Biol., Kanagawa Dent. Coll., ² Dept. of Oral & Maxillo. Surg.)
P-255 2P	Saireito therapy for nifedipine-induced gingival overgrowth in rats ○Hattori T ¹ , Nakano K ² , Kawakami T ² , Wang P ¹ (¹ Dept. of Dent. Pharmacol., Matsumoto Dent. Univ., ² Hard Tissue Pathol. Unit, Matsumoto Dent. Univ. Inst. Oral Sci.)
P-256 2P	Development of analytical method for detecting the drug resistance using human oral squamous cell carcinoma cell lines ○Kobayashi M ¹ , Suzuki F ¹ , Sakagami H ¹ (¹ Div. of Pharmacology, Meikai Univ. Sch. of Dentistry)
P-257 2P	Effect of leukotriene pathway on adipocyte differentiation ○Hirata K ¹ , Wada K ¹ , Kamisaki Y ¹ (¹ Dept. of Pharmacol., Grad. Sch. of Dent., Osaka Univ., ² Dept. of Orthod. Dentofacial Orthop., Grad. Sch. of Dent., Osaka Univ.)
P-258 2P	Effect of Rikko-san on the inflammatory cytokine production by activated macrophage ○Horie N ^{1,4} , Hashimoto K ² , Shimoyama T ¹ , Kato T ¹ , Kaneko T ^{3,4} , Kusama K ⁴ , Sakagami H ² (¹ Dept. of Oral Surg. Saitama Medical Center, ² Dept. of Pharmacology, Meikai Univ. School of Dent., ³ Dept. of Oral and Maxillofac. Surg. Tokyo Med. Univ., ⁴ Dept. of Pathology, Meikai Univ. School of Dent.)
P-259 2P	The effect of GDF-5 in chondrogenic mesenchymal cell condensation ○Hatakeyama Y ¹ , Sawa Y ¹ (¹ Functional Structure Section, Fukuoka Dental College)

P-260 2P	Effect of glycyrrhizin, component of glycyrrhiza, on NO/PG synthesis system by activated macrophage ○Kato T ¹ , Horie N ^{1,4} , Hashimoto K ² , Kaneko T ³ , Shimoyama T ¹ , Kusama K ⁴ , Sakagami H ² (¹ Dept. of Oral Surgery, Saitama Medical Center, Saitama Medical Sch., ² Div. of Pharmacology, Dept. of Diagnostic and Therapeutic Sciences, Meikai Univ. Sch. of Dentistry, ³ Dept. of Oral and Maxillofacial Surgery, Tokyo Medical Univ., ⁴ Div. of Pathology, Dept. of Diagnostic and Therapeutic Sciences, Meikai Univ. Sch. of Dentistry)
P-261 2P	Requirement of potassium for the inhibition of ATP hydrolysis catalyzed by Na, K-ATPase by fluoride ○Ishikawa I ¹ , Deyama Y ¹ , Yoshimura Y ¹ , Suzuki K ¹ (¹ Dept. of Molecular Cell Pharmacology, Grad. Sch. of Dental Medicine, Hokkaido Univ.)
P-262 2P	PKR regulates the expression of STAT1 by the ubiquitin-proteasome pathway ○Yoshida K ¹ , Okamura H ² , Haneji T ² (¹ Dept. of Fundamental Oral Health Science, Grad. Sch. of Tokushima, ² Dept. of Histology and Oral Histology, Grad. Sch. of Tokushima)
P-263 2P	Induction of macrophage cell death by amino acid deficiency ○Sakagami H ¹ (¹ Div. Pharmacol, Meikai Univ. Sch. Dent.)
P-264 2P	The attempts to relieve of defect layer in rat hard tissues by the dosage of disodium etidronate ○Sano T ¹ , Otsuka H ¹ , Egawa K ¹ , Morohashi T ² , Amano H ² , Yamada S ² , Nakamura M ¹ (¹ Dept. of Oral Anatomy, Showa Univ. School of Dentistry, ² Dept. of Pharmacology, Showa University School of Dentistry)
P-265 2P	Cytotoxicity of Benzaldehyde derivatives against OSCC cell line ○Kishino K ¹ , Hashimoto K ¹ , Amano O ² , Sakagami H ¹ (¹ Div. of Pharmacology, Meikai Univ, Sch. of Dentistry, ² Div. of Anatomy, Meikai Univ, Sch. of Dentistry)
P-266 2P	Correlation between apoptosis induction and DNase & gamma; expression in human oral tumor cell lines ○Hashimoto K ¹ , Sakagami H ¹ (¹ Div. of Pharmacology, Meikai Univ. Sch of Dentistry)
P-267 2P	Effect of components of Scutellariae radix on PGE ₂ production by mouse macrophage-like cells ○Kaneko T ¹ , Chiba H ¹ , Hashimoto K ² , Horie N ³ , Kato T ³ , Kobayashi M ² , Kusama K ⁴ , Sakagami H ² (¹ Dept. of Oral and Maxillofacial Surgery, Tokyo Medical University, ² Div. of Phrmacology, Meikai Univ. Sch. of Dent, ³ Dept. of Oral and Maxillofacial Surgery, Saitama Medical University, ⁴ Div. of Pathology, Meikai Univ. Sch. of Dent)
P-268 2P	Differentiation of osteoclasts from bone marrow cells during the early stage of medullary bone formation in estrogen-treated male Japanese quail ○Hiyama S ¹ , Watanabe M ¹ , Uchida T ¹ (¹ Dept. of Oral Biology, Grad. Sch. of Biomedical Sciences)
P-269 2P	Retinoic acid regulates the development of cranial base synchondrosis ○Michikami I ^{1,2} , Abe M ¹ , Ooshima T ² , Wakisaka S ¹ (¹ Dept. of Oral Anatomy and Developmental Biology, Osaka Univ. Grad. Sch. of Dentistry, ² Dept. of Pediatric Dentistry, Osaka Univ. Grad. Sch. of Dentistry)
P-270 2P	Tumor-specificity of 4-trifluoromethylimidazoles and type of cell death induced ○Takekawa F ¹ , Kishino K ¹ , Amano O ² , Kikuchi H ³ , Ishihara M ⁴ , Sakagami H ¹ (¹ Div. Pharmacol., Meikai Univ. Sch. Dent., ² Div. Anatomy, Meikai Univ. Sch. Dent., ³ Keyaki Institute of Reproduce Medicine (KIRM), ⁴ Div. Basic Chem, Meikai Univ. Sch. Dent.)
P-271 2P	Comparison of tumor-specificity cytotoxicity between topoisomerase I and II inhibitors, and type of cell death induced ○Tamura N ¹ , Kishino K ² , Sakagami H ² , Shimada J ¹ (¹ Div. Oral Maxillofacial Surgery, Meikai Univ. Sch. Dent., ² Div. Pharmacol., Meikai Univ. Sch. Dent.)
P-272 2P	Tumor-specificity of 1,2,3,4-tetrahydroisoquinolines and type of cell death induced ○Hatano H ¹ , Ishihara M ² , Kikuchi H ³ , Sakagami H ¹ (¹ Div. Pharmacol., Meikai Univ. Sch. Dent., ² Div. Basic Chem., Meikai Univ. Sch. Dent., ³ Keyaki Institute of Reproduce Medicine (KIRM))
P-273 2P	An immunohistochemical study on pulpal responses to mineral trioxide aggregate in human teeth ○Yoshida K ¹ , Yoshida N ¹ , Shigetani Y ¹ , Hosoya A ² , Nakamura H ² , Okiji T ¹ (¹ Div. of Cariology, Operative Dentistry & Endodontics, Niigata Univ. Grad. Sch. of Med. & Dent. Sci., ² Dept. of Oral Histology, Matsumoto Dent. Univ.)
P-274 2P	Regulation of cisplatin sensitivity by Na, K-ATPase activity in oral cancer cells ○Deyama Y ¹ , Yoshimura Y ¹ , Suzuki K ¹ (¹ Dept. of Molecular Cell Pharmacology, Grad. Sch. of Dent. Med., Hokkaido Univ.)
P-275 2P	Isolation of a dorsal lectin of the Japanese devil scorpionfish, <i>Inimicus japonicus</i> ○Shinohara M ¹ , Nakagawa H ² , Hayashi H ² , Ohura K ¹ (¹ Dept. of Pharmacology, Osaka Dental Univ., ² Dept. of Life Science, Univ. of Tokushima)
P-276 2P	A role of reactive oxygen species in gAd-induced apoptosis in mouse macrophage ○Akifusa S ¹ , Kamio N ¹ , Yamaguchi N ¹ , Yamashita Y ¹ (¹ Dept. of Preventive Dentistry, Univ. Kyushu)
P-277 2P	Nickel allergy in mice: contribution made by innate immunity at the step of elicitation ○Funayama H ¹ , Huang L ² , Kinbara M ³ , Shibata K ⁴ , Asada Y ¹ , Sugawara S ³ , Takada H ² , Endo Y ³ (¹ Dept. of Pediatric Dentistry, Tsurumi Univ. Sch. of Dental Medicine, ² Dept. of Microbiology and Immunology, Grad. Sch. of Dentistry, Tohoku Univ., ³ Dept. of Molecular Regulation, Grad. Sch. of Dentistry, Tohoku Univ., ⁴ Dept. of Oral Molecular Microbiology, Hokkaido Univ, Grad. Sch. of Dental Medicine)
P-278 2P	Effects of PI-3 K in integrin activation stimulated by CXCL12 ○Maeda J ¹ , Goda S ¹ , Ikeo T ¹ (¹ Departments of Biochemistry, Osaka Dental University)
P-279 2P	Effect of galectins on cytokine induction by periodontopathic bacterial LPS in HUVECs ○Kato T ^{1,2} , Takayama S ³ , Kimizuka R ^{1,2} , Ishihara K ^{1,2} (¹ Dept. of Microbiology, Tokyo Dental College, ² Oral Health Science Center, Tokyo Dental College, ³ Dept. of Periodontology, Tokyo Dental College)
P-280 2P	Cathepsin E deficiency causes impaired chemotaxis and cell adhesion ability ○Tsukuba T ¹ , Yanagawa M ² , Okamoto K ¹ , Kadowaki T ³ , Yamamoto K ⁴ (¹ Dept. of Dental Pharmacology, Grad. Sch. of Biomedical Sciences, Nagasaki Univ., ² Dept. of Fixed Prosthodontics, Grad. Sch. of Dental Science, Kyushu Univ., ³ Dept. of Pharmacology, Grad. Sch. of Dental Science, Kyushu Univ., ⁴ Proteolysis Research Laboratory, Grad. Sch. of Pharmaceutical Sciences, Kyushu Univ.)

P-281 2P	Nasal immunization with outer membrane protein of <i>Porphyromonas gingivalis</i> plus nontoxic chimeric enterotoxin adjuvant elicit protective immunity ○Momoi F ¹ , Hashizume T ¹ , Ochiai T ¹ , Yuki Y ² , Kiyono H ² , Yamamoto M ¹ (¹ Dept. of Microbiol. Immunol., Nihon Univ. of Dentistry at Matsudo, ² Div. of Mucosal Immunol., Dep. of Microbiol. Immunol., Inst. of Medical Science, Univ. of Tokyo)
P-282 2P	Concentrations of metal-ions in murine nickel allergy and its cross reactions: effects of LPS ○Kinbara M ^{1,2} , Kuroishi T ² , Yamamoto T ¹ , Sugawara S ² , Endo Y ² (¹ Dev. of Orthodontics and Dentofacial Orthopedics, Tohoku Univ. Grad. Sch. of Dentistry, ² Div. of Oral Immunology, Tohoku Univ. Grad. Sch. of Dentistry)
P-283 2P	Expression of Matrix metalloproteinase-1 on NK cells stimulated by chemokines ○Inoue H ¹ , Goda S ² , Ikeo T ² , Domae N ³ , Nishikawa Y ¹ (¹ Dep. Physiol. Osaka Dent. Univ., ² Dep. Biochem. Osaka Dent. Univ., ³ Dep. Int. Med. Osaka Dent. Univ.)
P-284 2P	The Immunopotential effect of the booster immunization with BCG in aged mice ○Kato C ¹ , Mikami M ¹ , Natsuno T ² (¹ Dept. of Microbiology, Sch. of Life Dentistry at Niigata, The Nippon Dental Univ., ² Dept. of Dental Hygiene, The Nippon Dental Univ. College at Niigata)
P-285 2P	Oxidation of benzoic acid by the myeloperoxidase-H ₂ O ₂ -chloride system ○Onishi M ¹ , Odajima T ² (¹ Dept. of Biochemistry, Sch. of Dentistry, Health Sciences Univ. of Hokkaido, ² Sapporo Research Institute of Basic Medicine & Pedagogy)
P-286 2P	Nasal Immunization with Freeze-Dried <i>L. casei</i> expressing 40k-OMP of <i>P. gingivalis</i> ○Tanaka H ^{1,2} , Hashidume T ² , Abiko Y ³ , Sewaki T ⁴ , Nozaki T ⁵ , Fukatsu A ¹ , Makimura M ¹ , Otiai (kurita) T ² , Yamamoto M ² (¹ Dept. of Laboratory for Medicine for Dentistry, Nihon Univ. School of Dentistry At Matudo, ² Dept. Microbiol. Immunol., Nihon Univ. Sch. Dent. at Matudo, ³ Dept. Biochemistry, Nihon Univ. Sch. Dent. at Matudo, ⁴ GENOLAC BL corp., ⁵ The Chemo-Sero-Therapeutic Research Institute)
P-287 2P	Investigation of intracellular signal transduction in human periodontal ligament fibroblasts exposed to cyclic strain ○Yagi T ¹ , Asai Y ² , Kawabata A ¹ , Shimizu I ¹ , Kitai N ¹ , Ogawa T ² (¹ Dept. of Orthodontics, Asahi Univ., ² Dept. of Oral Biology, Asahi Univ.)
P-288 2P	Inhibition of inflammatory chemokine gene expression by interferon gamma in mouse macrophages ○Hiroi M ¹ , Sakaeda Y ¹ , Ohmori Y ¹ (¹ Div. of Microbiology and Immunology, Dept. of Oral Biology and Tissue Engineering, Meikai Univ. Sch. of Dentistry)
P-289 2P	Induction of antigen-specific antibody responses by transcutaneous immunization with outer membrane protein of <i>P. gingivalis</i> ○Ishikura K ¹ , Hashizume T ² , Kurita-ochiai T ² , Makimura M ¹ , Yamamoto M ² (¹ Dept of Laboratory Medicine for Dentistry, Sch of Dentistry at Matsudo, Nihon Univ., ² Dept of Microbio. Immunol)
P-290 2P	Production of secretory leukocyte protease inhibitor from gingival epithelial cells induced by <i>Porphyromonas gingivalis</i> ○Ishikawa T ¹ , Ohara-nemoto Y ² , Shimoyama Y ¹ , Tajika S ¹ , Sasaki M ¹ , Kimura S ¹ (¹ Dept. Oral Microbiol., Iwate Med. Univ. Sch. Dent., ² Dept. Oral Molecular Biology, Nagasaki Univ. Grad. Sch. Biomed. Sci.)
P-291 2P	Differences in susceptibility of inflamed gingival fibroblasts to butyric acid-induced apoptosis ○Ochiai T ¹ , Yamamoto M ¹ , Ochiai K ² (¹ Dept. of Microbiology and Immunology, Nihon Univ. Sch. of Dent. at Matsudo, ² Dept. of Microbiology, Nihon Univ. Sch. of Dent.)
P-292 2P	Synthetic lipid A of <i>P. gingivalis</i> induced osteoclast differentiation and activation <i>in vitro</i> ○Watanabe K ¹ , Ishikawa E ¹ , Kumada H ¹ (¹ Dept. of Infection Control, Kanagawa Dental College)
P-293 2P	The role of MAPK on the osteoclast differentiation and function by lipid A ○Ishikawa E ¹ , Watanabe K ¹ (¹ Div. of Microbiology, Dept. Infection Control, Kanagawa Dental College)
P-294 2P	Cervical sympathectomy causes alveolar bone loss in rats ○Hamada N ¹ , Kim Y ² , Takahashi Y ¹ , Sasaguri K ² , Tsukinoki K ³ , Onozuka M ⁴ , Sato S ² (¹ Div. of Microbiology, Kanagawa Dental College, ² Div. of Orthodontics, Kanagawa Dental College, ³ Div. of Pathology, Kanagawa Dental College, ⁴ Div. of Physiology and Neuroscience, Kanagawa Dental College)
P-295 2P	Cathepsin E deficiency induced hypercholesterolemia and dysfunction of liver in mice ○Kadowaki T ¹ , Okamoto K ² , Yamamoto K ³ , Tsukuba T ² (¹ Dept. of Pharmacology, Grad. Sch. of Dental Science, Kyushu Univ., ² Dept. of Oral Pharmacology, Grad. Sch. of Biomed. Science, Nagasaki Univ., ³ Proteolysis Res. Lab., Grad. Sch. of Pharmaceutical Science, Kyushu Univ.)
P-296 2P	Effects of periodontopathic bacteria on the HIV-1 latency ○Ochiai K ¹ , Imai K ² , Okamoto T ² (¹ Dept. of Microbiology, Nihon Univ. Sch. of Dentistry, ² Dept. of Mol. Cell. Biol., Nagoya City Univ. Medical Sciences)
P-297 2P	Cell proliferation and cytokine production of mouse splenocytes immunized with the cell surface antigens of <i>Fusobacterium nucleatum</i> ○Mikami M ¹ , Kato C ¹ , Natsuno T ² , Katsuragi H ¹ (¹ Dept. of Microbiology, Sch. of Life Dent. at Niigata, The Nippon Dental Univ., ² Dept. of Dental Hygiene, College at Niigata, The Nippon Dental Univ.)
P-298 2P	The transcription factor E2F4 represses NF- κ B activation via TLR2 ○Yasuda M ¹ , Shibata K ¹ (¹ Div. of Oral Molecular Microbiol. Hokkaido Univ.)
P-299 2P	Molecular analysis of the root canal microbiota associated with endodontic treatment failures ○Sakamoto M ¹ (¹ Microbe Division/Japan Collection of Microorganisms, RIKEN BioResource Center)
P-300 2P	Infection control of exhaust contamination in dental unit suction system ○Katsuragi H ¹ , Mikami M ¹ , Ogura H ² , Nakamura T ³ , Watanabe M ³ (¹ Dept of Microbiology, Nippon Dental University at Niigata, ² Dept of Dental Materials Science, Nippon Dental University at Niigata, ³ Tokyo Giken Co., LTD.)
P-301 2P	Isolation and determination of compounds, which show antimicrobial activities against periodontal pathogens, from Luraceae medicinal plants ○Ino C ¹ , Fukuyama N ² , Orihara Y ² , Kobayashi N ³ (¹ Ino dental clinic, ² Grad. Sch. of Pharm. The Univ. Tokyo, ³ Kitasato Univ. Med. C.Hosp.)

P-302 2P	The transporter related proteins of gingipains in <i>Porphyromonas gingivalis</i> ○Sato K ¹ , Yukitake H ¹ , Naito M ¹ , Shoji M ¹ , Nakayama K ¹ (Div. of Microbiology and Infection, Nagasaki Univ.)
P-303 2P	Functional analysis of small non-coding RNA in periodontal diseases —Expression profiles in periodontopathic bacteria and human gingival fibroblasts ○Kokeguchi S ¹ , Watanabe A ¹ , Satoh N ¹ , Tanimoto I ² (Dept. of Oral Microbiol., Grad. Sch. of Okayama Univ., ² Dept. of Perio. Sci., Grad. Sch. of Okayama Univ.)
P-304 2P	Identification of binary proteins produced from <i>P. gingivalis hbp35</i> gene ○Shoji M ¹ , Shibata Y ² , Shiroza T ² , Yukitake H ¹ , Keiko S ¹ , Naito M ¹ , Abiko Y ² , Nakayama K ¹ (Div. of Microbiology and Oral Infection, Grad. Sch. of Nagasaki Univ., ² Department of Biochemistry and Molecular Biology, Nihon Univ. Sch. of Dentistry at Matsudo)
P-305 2P	Elucidation of indole production <i>Porphyromonas gingivalis</i> ○Sasaki T ¹ , Yoshida Y ¹ , Ito S ^{1,2} , Kunimatsu K ² , Kato H ¹ (Dept. of Dental Pharmacology, Univ. of Iwate Medical, ² Dept. of Dental Periodontology, Univ. of Iwate Medical)
P-306 2P	Interaction of major outer membrane proteins RagAB with energy transducer TonB in <i>Porphyromonas gingivalis</i> ○Murakami Y ¹ , Sato K ² , Yoshimura F ¹ (Dept. of Microbiology, Sch. of Dentistry, Aichi-Gakuin Univ., ² Div. of Microbiology and Oral Infection, Nagasaki Univ. Grad. Sch. of Biomedical Sciences)
P-307 2P	Characterization of the ECF sigma factor PG0162-defective mutant of <i>Porphyromonas gingivalis</i> ○Kikuchi Y ¹ , Ohara N ² , Ueda O ¹ , Hirai K ¹ , Shibata Y ³ , Nakayama K ⁴ , Fujimura S ¹ (Dept. of Oral Microbiol. Matsumoto Dent. Univ., ² Dept. Immunol. NIID., ³ Inst. for Oral Science, Matsumoto Dent. Univ., ⁴ Div. of Microbiol. Oral Infect. Nagasaki Univ. Grad. Sch. of Biomed. Sci.)
P-308 2P	<i>gbc</i> gene homologue responsible for glucan-dependent aggregation of <i>S. sobrinus</i> strain 6715 ○Sato Y ^{1,2} , Okamoto-shibayama K ^{1,2} , Takada K ² , Hirasawa M ³ (Dept. of Biochemistry, Tokyo Dental College, ² Oral Health Science Center HRC7, Tokyo Dental College, ³ Dept. of Microbiology and Immunology, Nihon Univ. Sch. of Dentistry at Matsudo)
P-309 2P	Transcriptional profiling of <i>Streptococcus mutans</i> biofilms co-cultured with <i>Streptococcus gordonii</i> ○Yoshida A ¹ , Ansai T ¹ (Community Oral Health Science, Kyushu Dental College)
P-310 2P	Effects of short-chain fatty acids, metabolic by-products of periodontopathic bacteria, on the cells in periodontal tissue ○Abe K ¹ , Yamada K ^{1,2} , Tanaka H ^{1,2} , Ochiai T ³ , Ochiai K ^{1,2} (Dept. of Microbiology, Nihon Univ. Sch. of Dentistry, ² Div. of Immunology and Pathobiology, Dental Research Center, Nihon Univ. Sch. of Dentistry, ³ Dept. of Microbiology and Immunology, Nihon Univ. Sch. of Dentistry at Matsudo)
P-311 2P	Purification and characterization of <i>Prevotella intermedia</i> extracellular proteolytic enzyme ○Shibata Y ¹ , Kikuchi Y ² , Ueda O ² , Hirai K ² , Fujimura S ² (Inst. for Oral Science, Matsumoto Dent. Univ., ² Dept. of Oral Microbiol. Matsumoto Dent. Univ.)
P-312 2P	The rough phenotype <i>Aggregatibacter actinomycetemcomitans</i> strains produce amyloid-like fibers ○Kimizuka R ¹ , Kato T ^{1,3} , Okada A ¹ , Hashimoto S ^{2,3} , Ishihara K ^{1,3} (Dept. of Microbiology, ² Dept. of Pathology, ³ Dept. of Oral Health Science Center, Tokyo Dent. Coll.)
P-313 2P	Transcriptional analysis and mutant construction of the downstream genes of <i>mfa1</i> in <i>Porphyromonas gingivalis</i> ○Hasegawa Y ¹ , Ozeki M ² , Murakami Y ¹ , Yoshimura F ¹ (Department of Microbiology, Aichi-Gakuin University, ² Department of Fixed Prosthodontics, Aichi-Gakuin University)
P-314 2P	Mutanase from <i>Paenibacillus humicus</i> : Biochemical properties and its nucleotide sequence of the gene ○Kawauchi T ¹ , Tsumori H ² , Hanada N ³ (Kyushu University Faculty of Dental Science, ² National Defence Medical College, ³ National Institute of Public Health)
P-315 2P	Oral <i>Veillonella</i> produce hydrogen sulfide from cysteine-containing peptides and lactate enhances the hydrogen sulfide production ○Washio J ¹ , Sakuma Y ^{1,2} , Shimada Y ¹ , Takahashi N ¹ (Div. of Oral Ecology and Biochemistry, Grad. Sch. of Tohoku Univ., ² Div. of Advanced Prosthetic Dentistry, Grad. Sch. of Tohoku Univ.)
P-316 2P	Oral microflora of dog —In particular yeast-form fungi— ○Takada K ¹ , Hayashi K ² , Hirasawa M ¹ (Dept. of Microbiol. Immunol., Nihon Univ. Sch. of Dent. at Matsudo, ² Dept. of Comparative Dent., Nihon Univ. Sch. of Dent. at Matsudo)
P-317 2P	Preliminary study for participation of <i>Porphyromonas gingivalis</i> into preformed biofilm ○Kamaguchi A ¹ , Fujita M ¹ , Miyakawa H ¹ , Nakazawa F ¹ (Department of Oral Biology, Division of Microbiology, School of Dentistry, Health Sciences Univ. of Hokkaido)
P-318 2P	Detection of periodontal bacteria from early childhood ○Ueda O ¹ , Saito T ² , Kikuchi Y ¹ , Hirai K ¹ , Shibata Y ³ , Miyazawa H ² , Fujimura S ¹ (Dept. of Oral Microbiology, Matsumoto Dent. Univ., ² Dept. of Pediatric Dentistry, Matsumoto Dent. Univ., ³ Institute for Oral Science, Matsumoto Dent. Univ.)
P-319 2P	Crossreactivity of Human MAB against <i>P. gingivalis</i> Hemagglutinin with Influenza Virus ○Shibata Y ¹ , Abiko Y ¹ (Biochem. & Mol. Biol., Nihon Univ. Sch. of Dent. at Matsudo)
P-320 2P	A new selective medium for <i>A. actinomycetemcomitans</i> from saliva sample ○Tsuizukubashi O ¹ , Takada K ² , Makimura M ¹ , Hirasawa M ² (Dept. of a Laboratory Medicine for Dentistry, Nihon Univ. of Dentistry at Matsudo, ² Dept. of Microbiology and Immunology, Nihon Univ. of Dentistry at Matsudo)
P-321 2P	EF-TEM observation of surface proteins from <i>Tannerella forsythensis</i> , <i>Porphyromonas gingivalis</i> antigen retrieval after microwave heating ○Moriguchi K ¹ , Hasegawa Y ² , Murakami Y ² , Maeda H ³ , Yoshimura F ² , Ohno N ¹ (Dept. of Oral Anatomy, ² Dept. of Microbiology, ³ Dept. of Oral Pathology, Aichi-Gakuin Univ.)
P-322 2P	Characterization of biofilm formed by <i>Mogibacterium timidum</i> and <i>M. pumilum</i> ○Miyakawa H ¹ , Fujita M ¹ , Kamaguchi A ¹ , Nakazawa F ¹ (Dept. of Oral Biology, Div. of Microbiology, Sch. of Dentistry, Health Sciences Univ. of Hokkaido)
P-323 2P	The traditional dietary culture of Southeast Asia and their oral bacterial flora (1) ○Fujita M ¹ , Miyakawa H ¹ , Kamaguchi A ¹ , Nakazawa F ¹ (Dept. of Oral Biology, Div. of Microbiology, Sch. of Dentistry, Health Sciences Univ. of Hokkaido)

P-324 2P	Identification of an autolysin (Atla) encoding gene of <i>Streptococcus criceti</i> ○Tamura H ¹ , Yamada A ¹ , Kato H ¹ (¹ Dept. of Dental Pharmacology, Sch. of Dentistry, Iwate Med. Univ.)
P-325 2P	Evaluation of the enzyme activity of autolysin Atlg of <i>Streptococcus sobrinus</i> ○Yamada A ¹ , Tamura H ¹ , Kato H ¹ (¹ Dept. of Dental Pharmacology, Iwate Medical Univ. Sch. of Dentistry)
P-326 2P	Functional characterization of pilus from the <i>Streptococcus pyogenes</i> serotype M49 ○Nakata M ¹ , Terao Y ¹ , Kawabata S ¹ (¹ Department of Oral and Molecular Microbiology, Osaka University Graduate School of Dentistry)
P-327 2P	Isolation and analyses of EMS mutant by transformant which express the <i>gtfB</i> gene from <i>S. mutans</i> ○Shinozaki N ¹ , Takada K ¹ , Hirasawa M ¹ (¹ Dept. of Microbiology and Immunology, Nihon Univ. Sch. of Dent. at Matsudo)
P-328 2P	A novel dipeptidyl-peptidase produced from <i>Porphyromonas endodontalis</i> ○Haraga H ¹ , Ohara-nemoto Y ² , Kodama Y ¹ , Kimura S ¹ , Nemoto T ² (¹ Dept. of Oral Microbiology, Iwate Med. Univ. Sch. of Dent., ² Dept. Oral Mol. Biol., Nagasaki Univ. Grad. Sch. of Biomed. Sci.)
P-329 2P	Transconjugation between <i>Porphyromonas gingivalis</i> strains ○Naito M ¹ , Sato K ¹ , Yukitake H ¹ , Shoji M ¹ , Nakayama K ¹ (¹ Div. of Microbiology and Oral Infection, Nagasaki Univ Grad. Sch.)
P-330 2P	Possibility of AP24 gene as diagnostic marker of periodontitis ○Hasegawa H ^{1,2} , Sakamoto M ² , Nomura A ¹ , Tanaka S ³ , Machino M ³ , Sakagami H ¹ (¹ Div. of Pharmacology, Meikai Univ. Sch. of Dentistry, ² Microbe Division/Japan Collection of Microorganisms, RIKEN BioResource Center, ³ Div. of Oral Diagnosis, Meikai Univ. Sch. of Dentistry)
P-331 2P	Characterization of the <i>Porphyromonas gingivalis</i> <i>ihf</i> cluster encoding a heme uptake system ○Yukitake H ¹ , Sato K ¹ , Naito M ¹ , Shoji M ¹ , Nakayama K ¹ (¹ Div. of Microbiology and Oral Infection, Dept. of Mol. Microbiology and Immunity, Nagasaki Univ. Grad. Sch.)
P-332 2P	Effect of O ₂ stress on phosphoproteome and LPS production in <i>P. gingivalis</i> ○Okano S ¹ , Shibata Y ¹ , Abiko Y ¹ (¹ Dept. of Biochemistry and Molecular Biology, Nihon Univ.)
P-333 2P	Relationship between postoperative pneumonia and low-cough reflex: A model of aspiration pneumonitis ○Sato T ¹ , Hoshikawa Y ² , Kondo T ² , Takahashi N ¹ (¹ Div. of Oral Ecology & Biochemistry, Tohoku Univ. Grad. Sch. of Dent., ² Dept. of Thoracic Surgery, IDAC, Tohoku Univ.)
P-334 2P	Identification of gene(s) responsible for EPS producibility in one clinical isolate of <i>Actinomyces viscosus</i> ○Mashimo C ¹ , Kamitani M ² , Yamane K ¹ , Yamanaka T ¹ , Sugimori C ¹ , Morita S ² , Fukushima H ¹ (¹ Dept. of Bacteriology, ² Dept. of Oral and Maxillofacial Surgery (1), Osaka Dental Univ.)
P-335 2P	Long-term effect of silver powder in vivo ○Aoyagi H ¹ , Iwasaki S ¹ (¹ Advanced Research Center, The Nippon Dental University School of Life Dentistry at Niigata)
P-336 2P	Quantitative structure-hemolytic activity relationship analysis of methacrylates by semiempirical molecular-orbital method ○Ishihara M ¹ (¹ Div. of Basic Chemistry, Meikai Univ. School of Dentistry)
P-337 2P	Expression of Sox2 in the taste buds in relation to innervation ○Suzuki Y ¹ (¹ Div. of Histology, Dept. of Oral Growth and Development, School of Dentistry, Health Sciences Univ. of Hokkaido)
P-338 2P	Immunocytochemical demonstration of muscle-specific desmin in the rat temporomandibular joint synoviocytes ○Nozawa-inoue K ¹ , Niwano M ² , Suzuki A ¹ , Kawano Y ¹ , Maeda T ¹ (¹ Div. of Oral Anatomy, Niigata Univ. Grad. Sch. of Medical & Dental Sciences, ² Div. of Oral and Maxillofacial Surgery, Niigata Univ. Grad. Sch. of Medical & Dental Sciences)
P-339 2P	Analysis of bone alkaline phosphatase molecule by ultracentrifugation method ○Toen T ¹ , Hashimoto S ¹ (¹ Sect. of Radioisotope Research, Res. Center for Odontology, Sch. of Life Dentistry at Tokyo, The Nippon Dental University)
P-340 2P	Population data on 15 STR loci using AmpFISTR Identifiler kit in a Malay population living in and around Kuala Lumpur, Malaysia ○Maruyama S ¹ , Hanaoka Y ¹ , Minaguchi K ¹ (¹ Dept. of Forensic Odontology, Tokyo Dental College)
P-341 2P	A role of Mash1 in type III cell differentiation of taste bud ○Seta Y ¹ , Toyono T ¹ , Kataoka S ¹ , Toyoshima K ¹ (¹ Div. of Oral Histology and Neurobiology Kyushu Dent. Coll.)
P-342 2P	Implication of Bad protein in the NaF-induced apoptosis of human oral squamous cell carcinoma ○Otsuki S ¹ , Sugiyama K ² , Amano O ² , Yasui T ³ , Sakagami H ¹ (¹ Div. of Pharmacology, Meikai Univ. Sch. of Dentistry, ² Div. of anatomy, Meikai Univ. Sch. of Dentistry, ³ Div. of Oral Health and Preventive Dentistry, Meikai Univ. Sch. of Dentistry)
P-343 2P	Influence of fluid in the oral cavity on the physical property of bolus ○Shiozawa K ¹ , Saeki Y ¹ (¹ Dept. of Physiol. Tsurumi Univ., Sch. of Dent. Med.)
P-344 2P	Evaluation on cellular morphological change and damage of macrophage by high concentration copper ions ○Taira M ¹ , Kagiya T ² , Harada H ² , Sasaki M ³ , Kimura S ³ (¹ Dept. of Dent. Materials Sci. and Tech., Iwate Med. Univ. Sch. of Dent., ² Dept. of Oral Anatomy II, Iwate Med. Univ. Sch. of Dent., ³ Dept. of Oral Microbiol., Iwate Med. Univ. Sch. of Dent.)
P-345 2P	The search of a gene relation to periodontitis by SNPs analysis in the Down syndrome patients ○Fujigaki Y ¹ , Imamura Y ^{2,5} , Oomori Y ³ , Oryouji K ⁴ , Yanagisawa S ^{1,6} , Miyazawa H ^{4,6} , Wang P ^{2,5} (¹ Dept. of Preventive Dentistry, Matsumoto Dental University, ² Dept. of Pharmacology, Matsumoto Dental University, ³ Dept. of Special Patient and Oral Care, Matsumoto Dental University, ⁴ Dept. of Pediatric Dentistry, Matsumoto Dental University, ⁵ Dept. of Molecular Engineering and Drug Developmental Sciences, Matsumoto Dental Univ. Grad. Sch. of Oral Medicine, ⁶ Dept. of Oral Health Promotion, Institute for Oral Science, Matsumoto Dental Univ. Grad. Sch. of Oral Medicine)

P-346 2P	Promoter analysis of human sweet receptor, T1R2 gene ○Toyono T ¹ , Seta Y ¹ , Kataoka S ¹ , Toyoshima K ¹ (¹ Div. of Oral Histology and Neurobiology, Kyushu Dental College)
P-347 2P	Dental terminology in the "Morphology of tooth" written by Hideyo Noguchi ○Tamatsu Y ¹ , Shimada K ¹ , Ide Y ² (¹ Kagoshima Univ. Postgraduate School of Medical and Dental Sciences, ² Tokyo Dental College, Dept. of Anatomy)
P-348 2P	Ubiquitin-dependent regulatory mechanism of ASK1 ○Noguchi T ¹ , Takeda K ¹ , Ichijo H ¹ (¹ Cell Signaling, Grad. Sch. Pharmaceut., Sci., Univ. of Tokyo)
P-349 2P	Classification of mandibular dental arch forms by Fourier analysis ○Iwai Y ¹ , Nakatsuka M ¹ , Kumabe S ¹ , Takama K ¹ (¹ Dept. of Oral Anatomy, Osaka Dental Univ.)
P-350 2P	Study on antifungal sensitivity of 323 strains of clinical isolates from oral candidiasis ○Nagayama T ¹ , Kamikawa Y ² , Sato T ¹ , Sugihara K ² (¹ Department of Applied Pharmacology, Kagoshima University Graduate School of Medical and Dental Sciences, ² Department of Maxillofacial Diagnostic and Surgical Science, Field of Oral and Maxillofacial Rehabilitation, Kagoshima University Graduate School of Medical and Dental Sciences)
P-351 2P	Introduction of virtual microscopy and self-learning program in histopathology class ○Sato K ¹ , Shimazu Y ¹ , Kudo T ¹ , Yagishita H ¹ , Aoba T ¹ (¹ Dept. of Pathology, Nippon Dental Univ.)
P-352 2P	Negative regulation of MEKK2 ○Nishitoh H ¹ , Ichijo H ¹ (¹ Cell Signaling, Grad. Pharmaceut. Sci., The Univ. of Tokyo)
P-353 2P	The supporting system in private study using web-based training for dental education ○Yoshida W ¹ , Kubo K ¹ , Sugita Y ¹ , Sato E ¹ , Noguchi T ² , Kawai T ³ , Maeda H ¹ (¹ Dept. of Oral Pathology, Univ. of Aichi-Gakuin, ² Dept. of Periodontology, Univ. of Aichi-Gakuin, ³ Dept. of Dental Materials, Univ. of Aichi-Gakuin)
P-354 2P	Fat-pad-like structure observed in retrodiscal inner part ○Inoue K ¹ , Kida I ² , Ushijima N ¹ , Nodasaka Y ³ , Hiramatsu A ¹ , Taishi Y ¹ , Domon T ¹ (¹ Dept. of Oral Functional Anatomy, Grad. Sch. of Dental Medicine, Hokkaido Univ., ² Dept. of Oral Physiology, Grad. Sch. of Dental Medicine, Hokkaido Univ., ³ Lab. EM, Grad. Sch. of Dental Medicine, Hokkaido Univ.)
P-355 2P	Effect of CaTiO ₃ -aC coating material by thermal decomposition method on osteoblastic cell response ○Inoue M ¹ , Rodriguez A ¹ , Tamamura R ¹ , Okauchi M ¹ , Lefeuvre M ¹ , Nagatsuka H ¹ , Nagai N ¹ (¹ Dept. of Oral Pathology and Medicine, Grad. Sch. of Medicine, Dentistry and Pharmaceutical Science, Univ. of Okayama)
P-356 2P	Sp1 in mouse cathepsin E gene expression ○Okamoto K ¹ , Kawakubo T ² , Yamamoto K ² , Tsukuba T ¹ (¹ Dept. of Oral Pathopharmacol., Grad. Sch. of Biomed. Sci., Univ. of Nagasaki, ² Proteolysis Res. Lab., Grad. Sch. of Pharmaceut., Sci., Univ. of Kyushu)