

The 55th Annual Meeting of  
Japanese Association for Oral Biology  
September 20 – September 22, 2013  
Okayama University  
School of Dentistry  
Okayama, JAPAN



**JAOB** JAPANESE ASSOCIATION FOR  
ORAL BIOLOGY since 1958

## Plenary Lectures

PL-1

Stem and progenitor cells for tooth renewal

Irma Thesleff

Inst. of Biotechnol., Univ. of Helsinki

PL-2

Vascular endothelial growth factor controls formation and homeostasis of bone

Bjorn R. Olsen

Harvard Sch. of Dent. Med.

## Lecture by JAOB/Lion Dent Research Awards Winner

L-1

Infection control research developed from bio-imaging

Yutaka Terao

Div. Microbiol. Infect. Dis., Niigata Univ. Grad. Sch. of Med. Dent.

## JAOB/Rising Members Award Winner

Y-1

Ex-vivo imaging of autonomous intracellular calcium oscillations of osteoblasts and osteocytes

Yoshihito Ishihara

Dept. of Orthod., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm. Sci.

Y-2

Regulation of the BMP signaling pathway by SUMOylation

Akira Yukita<sup>1</sup>, Akihiro Hosoya<sup>2</sup>, Takenobu Katagiri<sup>3</sup>, Hiroaki Nakamura<sup>2</sup>

<sup>1</sup>Dept. of Education (Sciences), Shizuoka Univ.

<sup>2</sup>Dept. of Oral Histol., Matsumoto Dent. Univ.

<sup>3</sup>Div. of Pathophysiol., RCGM, Saitama Med. Univ.

Y-3

*E2f1*-deficient NOD/SCID mice have dry mouth due to a change of acinar/duct structure and the down-regulation of AQP5 in the salivary gland

Keitaro Satoh

Dept. of Regul. Physiol., Dokkyo Med. Univ. Sch. of Med.

Y-4

Monocarboxylate transporter-1 is required for cell death in mouse chondrocytic ATDC5 cells exposed to interleukin-1 $\beta$  via late phase activation of nuclear factor  $\kappa$ B and expression of phagocyte-type NADPH oxidase

Kentaro Yoshimura

Dept. of Biochem. Showa Univ. Sch. of Dent.

Y-5

Signaling pathway and physiological role of alpha1-adrenergic receptor in human osteoblasts

Daisuke Kodama

Dept. Pharmacol., Sch. of Dent., Aichi-Gakuin Univ.

## Mini Lectures (3rd ISMDPER in Okayama Joint Lectures)

ML-1

Research at the Faculty of Dentistry, University of Toronto

Daniel Haas

Fac. of Dent., Univ. of Toronto

ML-2

The effect of CXCR4 over-expression on the cell proliferation and invasion of oral squamous cell carcinoma cells

Jae il Lee

Dept. of Oral Pathol., Sch. of Dent., Seoul National Univ.

ML-3

Exploring functional tissue-organ from human embryonic stem cells

Tong Cao

National Univ. Health System and National Univ. of Singapore

### **Gender Equality Seminar**

DS-1

Towards gender equality in academia

Irma Thesleff

Inst. of Biotechnol., Univ. of Helsinki

DS-2

Present situation of gender equality in Academia of Japan

Teruko Takano-Yamamoto

Div. of Orthodontics and Dentofacial Orthopedics, Tohoku Univ. Grad. Sch. of Dent.

### **Symposium (Science Council of Japan; SCJ)**

CS-1

Expectation and consideration for incretin treatment in type 2 diabetes

Yutaka Seino

Kansai Electric Power Hosp.

CS-2

Molecular basis of oral-systemic medicine revealed from the close association between periodontal disease and diabetes mellitus

Fusanori Nishimura

Sec. of Periodontol., Kyushu Univ. Fac. of Dent. Sci.

CS-3

Bone tissue as systemic organ supporting a life —Correlation between periodontitis and osteoporosis—

Nobuyuki Udagawa

Dept. of Biochem., Matsumoto Dent. Univ.

### **JAOB Symposium**

KS-1

Next-generation of bone research using in vivo fluorescent imaging

Takeshi Imamura

Dept. of Mol. Med. for Pathogenesis, Ehime Univ. Grad. Sch. of Med.

KS-2

Bioimaging of the osteocyte and its nano-model analysis

Hiroshi Kamioka

Dept. of Orthod., Okayama Univ. Grad. Sch. of Med., Dent. & Pharm.

KS-3

Challenge for promoting understand of tooth developmental mechanisms using imaging technology

Hidemitsu Harada, Keishi Otsu, Naoki Fujiwara, Mika Sakano

Div. of Dev. Biol. & Regen. Med. Dept. of Anat. Iwate Med. Univ.

KS-4

Intravital imaging of salivary gland function and regulation of fluid secretion

Akihiro Nezu, Takao Morita, Akihiko Tanimura

Dept. of Pharmacol., Sch. of Dent., Health Sci. Univ. of Hokkaido

KS-5

From fluorescence to chemiluminescence —new trend of bioimaging—

Takeharu Nagai

ISIR, Osaka Univ., PRESTO, JST

## **Main Symposium 1: Biodental Engineering—Integration of Biology and Material Science**

MS1-1

Regeneration of organs in oral and craniofacial regions by the reproduction of the developmental morphogenesis

Takashi Tsuji

Res. Inst. of Sci. Tech., Tokyo Univ. of Sci.

MS1-2

In vitro modulation of gland tissue morphogenesis using hydrogel material

Takuya Matsumoto

Dept. of Biomater., Okayama Univ. Grad. Sch of Med. Dent. & Pharm.

MS1-3

Characterization of stem cell populations using antibody arrays

Koichi Kato

Dept. of Biomater., Inst. of Biomed. & Health Sci., Hiroshima Univ.

MS1-4

Scaffold-free bone tissue engineering using iPS cells

Hiroshi Egusa

Dept. of Fixed Prosthodont., Osaka Univ. Grad. Sch. of Dent.

## **Main Symposium 2: Carving a Disease by Omics**

MS2-1

New aspects of periodontal bacteria revealed by genomics

Mariko Naito

Dept. Mol. Microbiol. Immunol., Nagasaki Univ. Grad. Sch. Biomed. Sci.

MS2-2

Bacterial survival and evolutionary strategies by CRISPR

Ichiro Nakagawa

Sec. of Bacterial Pathogenesis, Tokyo Med. and Dent. Univ. Grad. Sch. of Med. and Dent. Sci.

MS2-3

CCN2 functions revealed by metabolomics and interactomics

Satoshi Kubota, Aya Maeda, Takashi Nishida, Masaharu Takigawa

Dept. Biochem. & Mol. Dent., Okayama Univ. Grad. Sch. Med. Dent. & Pharm. Sci.

MS2-4

Regulation of endochondral ossification by transcriptional network

Riko Nishimura

Dept. of Molecular and Cellular Biochem., Osaka Univ. Grad. Sch. of Dent.

MS2-5

Identification of normal tension glaucoma-specific genome markers by genome wide association study (GWAS) and its meaning

Kei Tashiro

Dept. of Genomic Med. Sci., Kyoto Prefectural Univ. of Med.

### **Main Symposium 3: Clinical Insight into the Study of Orofacial Pain**

MS3-1

Central mechanism of extraterritorial pain abnormality in the orofacial region

Koichi Iwata

Dept. of Physiol., Nihon Univ. Sch. of Dent.

MS3-2

Mechanisms of orofacial nociception and neuropathic pain

Ryuji Terayama, Tomosada Sugimoto

Dept. of Oral Funct. & Anat., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm.

MS3-3

What is required to dentists in managing chronic orofacial pain?

Yoshiki Imamura

Dept. of Oral Diagnostic Sci., Nihon Univ. Sch. of Dent.

MS3-4

Basic mechanisms of orofacial pain transmission and development of new treatment procedure  
—Neurotransmitter release from somata of sensory ganglion—

Yoshizo Matsuka

Dept. of Fixed Prosthodontics, Inst. of Health Biosci., The Univ. of Tokushima Grad. Sch.

### **Satellite Symposium 1: Regenerative Therapy Aimed at the Harmonization through Biological Network**

SS1-1

Understanding mechanisms of skeletal development for regenerative medicine

Shinsuke Ohba

Dept. of Bioengineering, Univ. of Tokyo Grad. Sch. of Eng.

SS1-2

Periodontal regeneration with autologous periodontal ligament cell sheets

Takanori Iwata

Insti. of Adv. Biomed. Eng. & Sci., Tokyo Women's Med. Univ.

SS1-3

Novel insights in bone metabolism regulated by sex steroid hormones and its possible application for bone regeneration

Yuuki Imai

Div. of Integ. Pathophysiol., Proteo-Sci. Cent., Ehime Univ.

SS1-4

Neuronal control of bone remodeling

Shu Takeda

Dept. of Physiol. & Cell. Biol., Sch. of Med., Tokyo Med. & Dent. Univ.

## **Satellite Symposium 2: Novel Challenge for Bone Formation and Bone Resorption**

SS2-1

Murine osteoblast-like cells MLO-A5 regulates differentiation of murine mesenchymal stem cells C3H10T1/2 through gap junctions

Mikami Yoshikazu

Dept. of Anat., Nihon Univ. Sch. of Dent.

SS2-2

Functional roles of Pannexin3 in bone and cartilage development

Tsutomu Iwamoto

Dept. of Ped. Dent., Inst. of Health Biosci., Univ. of Tokushima Grad. Sch.

SS2-3

Immune-related molecule regulates osteoblast differentiation

Hiroyuki Morimoto

Dept. Anat., Sch. of Med., Univ. Occup. Environ. Health

SS2-4

Circadian rhythms of bone metabolism and clock genes

Hisataka Kondo

Dept. of Pharmacol., Aichi Univ. Sch. Dent.

SS2-5

The role of NF- $\kappa$ B activation in bone formation

Kenji Osawa

Div. of Mol. Signal and Biochem., Kyushu Dent. Univ.

## **Satellite Symposium 3: Frontiers of Oral Physiology**

SS3-1

Role of the cortical masticatory area in salivation

Naoto Maeda<sup>1</sup>, Ryuji Matsuo<sup>2</sup>

<sup>1</sup>Dept. of Occlusal and Oral Functional Rehabil., Okayama Univ. Grad. Sch. of Med., Dent. and Pharma. Sci.

<sup>2</sup>Dept. of Oral Physiol., Okayama Univ. Grad. Sch. of Med., Dent. and Pharma. Sci.

SS3-2

Effect of chemical inputs in the oral cavity and pharynx on human swallowing

Yuki Nakamura

Dept. Oral Biol. Sci., Div. of Dysphagia Rehabil., Niigata Univ. Grad. Sch. Med. Dent. Sci.

SS3-3

Physiological and pathological mechanism during physiological root resorption in human deciduous teeth

Hidefumi Fukushima

Sec. of Cell Physiol., Dept. of Physiol. Sci. and Mol. Biol., Fukuoka Dent. Coll.

SS3-4

Peripheral mechanisms for ectopic orofacial pain

Masamichi Shinoda

Dept. of Physiol., Nihon Univ. Sch. of Dent.

#### **Satellite Symposium 4: Translational Dental Research over the CCN Family**

SS4-1

Role of CTGF/CCN2 on osteocyte-induced apoptosis under compressive mechanical force

Teruko Takano-Yamamoto

Div. of Orthod. & Dentofacial Orthop., Tohoku Univ. Grad. Sch. of Dent.

SS4-2

Metalloproteases and CTGF/CCN2 expression in human dentin-pulp complex

Koichiro Muromachi<sup>1</sup>, Naoto Kamio<sup>1</sup>, Kiyoshi Matsushima<sup>1, 2</sup>

Dept. of Endod.<sup>1</sup>, and Res. Inst. of Oral Sci.<sup>2</sup>, Nihon Univ. Sch. of Dent. at Matsudo

SS4-3

The effects of low-intensity pulsed ultrasound exposure on gingival cells

Chihiro Masaki, Taro Mukaibo, Yusuke Kondo, Tetsuji Nakamoto, Ryuji Hosokawa

Dept. of Oral Reconstruction and Rehabil., Kyushu Dent. Univ.

SS4-4

Effect of low-intensity pulsed ultrasound (LIPUS) on the gene expression and protein production of CCN2 in cultured chondrocytes

Takashi Nishida<sup>1</sup>, Satoshi Kubota<sup>1</sup>, Eriko Aoyama<sup>2</sup>, Nobuyasu Yamanaka<sup>3</sup>, Masaharu Takigawa<sup>1</sup>

<sup>1</sup>Dept. Biochem. Mol. Dent., Okayama Univ. Grad. Sch. Med. Dent. Pharm. Sci., <sup>2</sup>Biodent. Res. Ctr. Okayama Univ. Dent. Sch., <sup>3</sup>Ito Co., Ltd.

SS4-5

The role of CCN4/WISP-1 in bone formation

Mitsuaki Ono<sup>1</sup>, Azusa Maeda<sup>1, 2</sup>, Asuka Masaki<sup>1</sup>, Yuya Yoshioka<sup>1</sup>, Wataru Sonoyama<sup>1</sup>, Takuo Kuboki<sup>1</sup>, Marian F. Young<sup>2</sup>

<sup>1</sup>Dept. of Oral Rehabil. & Regen. Med., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm. Sci., <sup>2</sup>NIDCR/NIH

#### **Satellite Symposium 5: A Future Intension of Human Orofacial Stem Cells—A Clinical Potential of Human Dental Pulp-derived Stem Cells**

SS5-1

Possible implementation of clinical endodontics of pulp/dentin regeneration using dental pulp stem cells

Misako Nakashima

Dept. of Dent. Regenerative Med., Center of Advanced Med. for Dent. and Oral Diseases

National Center for Geriatrics and Gerontology, Res. Inst.

SS5-2

Dental pulp cells as a source for regenerative medicine

Ken-ichi Tezuka

Dept. of Tissue and Organ Development, Gifu Univ. Grad. Sch. of Med.

SS5-3

Development of the novel regenerative therapies for systemic intractable diseases using serum-free conditioned media from dental pulp stem cells

Akihito Yamamoto

Dept. of Oral and Maxillofacial Surgery of Nagoya Univ. Grad. Sch. of Med.

SS5-4

Therapeutic potential of cryopreserved human dental pulp tissue

Takayoshi Yamaza

Dept. of Molecular Cell Biol. and Oral Anat., Kyushu Univ. Grad. Sch. of Dent. Sci.

## **Satellite Symposium 6: The 27th Meeting of Salivary Glands**

SS6-1

MicroRNA transport between tissues in fetal mouse submandibular gland

Toru Hayashi

Dent. Pharmacol., Asahi Univ.

SS6-2

How does the V-ATPase work in the mouse salivary gland?

Yoshinori Sahara<sup>1</sup>, Sawa Horie<sup>1,2</sup>, Asami Ohmiya<sup>1,3</sup>, Yuto Umeki<sup>1,3</sup>, Naomi Goto<sup>3</sup>, Mayumi Nakanishi-Matsui<sup>3</sup>

<sup>1</sup>) Dept. Physiol., Iwate Med. Univ. Sch. Dent., <sup>2</sup>) Dept. Tumor Biol., Inst. Biomed. Sci., Iwate Med. Univ., <sup>3</sup>) Dept. Biochem., Fac. Pharm. Sci., Iwate Med. Univ.

SS6-3

Sorting mechanism of salivary proteins to secretory granules in parotid glands

Junko Fujita-Yoshigaki, Miwako Matsuki-Fukushima, Megumi Yokoyama, Osamu Katsumata-Kato

Dept. Physiol., Nihon Univ. Dent. Sch. at Matsudo

SS6-4

Salivary exosomes and disease diagnosis—Focusing around water channel, aquaporin-5—

Ishikawa Yasuko, Pieczonka Tomasz, Bragiel Aneta

Dept. of Pharm., Tokushima Univ. Grad. Sch. of Dent.

SS6-5

Viral vector-mediated gene expression and intravital imaging of salivary glands

Akihiko Tanimura, Akihiro Nezu, Takao Morita

Dept. of Pharmacol., Sch. of Dent., Health Sci. Univ. of Hokkaido

SS6-6

The new vistas to the function of GABAA receptor in the salivary gland

Mitsuru Kawaguchi

Dept. of Pharmacol., Tokyo Dent. Coll.

## **Satellite Symposium 7: Microcirculation of a Head and Neck Cancer—A Point of Chemotherapy—**

SS7-1

Microvascular architecture of oral mucosa in the type 2 diabetes mellitus

Mamoru Uemura, Fumihiko Suwa

Dept. of Anat., Osaka Dent. Univ.

SS7-2

Analysis of the factor involved in microvessel network formation during muscle development

Masataka Sunohara, Iwao Sato

Dept. of Anat., Sch. of Life Dent. at Tokyo, The Nippon Dent. Univ.

SS7-3

Lymphatic vessels as a drug delivery route on the cancer chemotherapy

Yoshinori Ando, Akira Fujimura

Div. of Functional Morphol. Dept. of Anat., Iwate Med. Univ.

SS7-4

Vasohibin-2 regulates tumor onset in the gastrointestinal tract by normalizing tumor angiogenesis

Shuji Kitahara

Dept. of Anat. and Dev. Biol., Sch. of Med., Tokyo Women's Med. Univ.



## **Satellite Symposium 8: The Front Line of Research on Oral Microbiota: The Challenge Report by Young Investigators**

SS8-1

Anaerobic culture to detect periodontal and caries pathogens

Anne C. R. Tanner

Dept. of Microbiol., The Forsyth Inst.

SS8-2

Interaction between *Fusobacterium nucleatum* and the erythrocyte: Impacts on the host immune system

Saori Yoneda, Riyoko Tamai, J. Merritt, Yusuke Kiyoura

Dept. of Oral Med. Sci., Ohu Univ., Sch. of Dent.

SS8-3

Cell surface coaggregation receptor polysaccharide in *Streptococcus sanguinis*

Yasuo Yoshida<sup>1</sup>, Jinhua Yang<sup>2</sup>, Keiji Nagano, Yuki Abiko<sup>1</sup>, Fuminobu Yoshimura<sup>1</sup>, John O. Cisar<sup>2</sup>

<sup>1</sup>Dept. of Microbiol., Sch. of Dent., Aichi Gakuin Univ., <sup>2</sup>Oral Microbiol. and Immunol. Branch, NIDCR, NIH

SS8-4

Microbiota profiling of bronchial fluids of elderly patients

Noriko Ishida<sup>1</sup>, Takuichi Sato<sup>1</sup>, Yasushi Hoshikawa<sup>3</sup>, Naoko Tanda<sup>2</sup>, Takashi Kondo<sup>3</sup>, Nobuhiro Takahashi<sup>1</sup>

<sup>1</sup>Div. of Oral Ecol. and Biochem., and <sup>2</sup>Div. of Preventive Dent., Tohoku Univ. Grad. Sch. of Dent., <sup>3</sup>Dept. of Thoracic Surgery, Inst. of Dev., Aging, and Cancer, Tohoku Univ.

SS8-5

Hydrogen sulfide, methyl mercaptan, and acetaldehyde in oral health care for perioperative patients with pulmonary carcinoma

Naoko Tanda<sup>1</sup>, Naoko Ishida<sup>2</sup>, Yasushi Hoshikawa<sup>3</sup>, Takuichi Sato<sup>2</sup>, Nobuhiro Takahashi<sup>2</sup>, Ryoichi Hosokawa<sup>4</sup>, Takeyoshi Koseki<sup>4</sup>

<sup>1</sup>Div. of Preventive Dent., Tohoku Univ. Hosp., <sup>2</sup>Div. of Oral Ecol. and Biochem., Tohoku Univ. Grad. Sch. of Dent., <sup>3</sup>Dept. of Thoracic Surgery, Inst. of Dev., Aging and Cancer, Tohoku Univ., <sup>4</sup>Div. of Preventive Dent., Tohoku Univ. Grad. Sch. of Dent.

SS8-6

Ameriolating effects of a Kampo Medicine, Juzentaihoto on restraint stress and *P. gingivalis*-induced alveolar bone loss

Orie Takeda<sup>1</sup>, Toshizo Toyama<sup>2</sup>, Kiyoko Watanabe<sup>2</sup>, Takenori Sato<sup>2</sup>, Kenichi Sasaguri<sup>1</sup>, Susumu Akimoto<sup>1</sup>, Sadao Sato<sup>1</sup>, Toshitsugu Kawata<sup>1</sup> and Nobushiro Hamada<sup>2</sup>

Div. Oral Sci., Dept. Ortho, Kanagawa Dent. Univ.<sup>1</sup>, Dept. of Microbiol., Kanagawa Dent. Univ.<sup>2</sup>

SS8-7

Basic helix-loop-helix transcription factors DEC1 and DEC2 in *P. gingivalis*-induced inflammation

Cintia Yuki Fukuoka<sup>1</sup>, Ujjal K Bhawal<sup>1</sup>, Ryoki Kobayashi<sup>1</sup>, Toshizo Toyama<sup>2</sup>, Takenori Sato<sup>2</sup>, Hidefumi Kumada<sup>2</sup>, Yoshimitsu Abiko<sup>1</sup>, Nobushiro Hamada<sup>2</sup>

<sup>1</sup>Dept. of Biochem. and Molecular Biol., Nihon Univ. Sch. Dent. at Matsudo,

<sup>2</sup>Dept. of Microbiol., Kanagawa Dent. Univ.

## **Satellite Symposium 9: Melting Pot of CCN Family Research**

SS9-1

Role of CCN3 in osteoblast differentiation and bone regeneration

Akira Yamaguchi

Dept. of Oral Pathol., Grad. Sch. of Med. Dent. Sci., Tokyo Med. and Dent. Univ.

SS9-2

Modification of endochondral ossification by cartilage-specific overexpression of CCN3

Takako Hattori<sup>1</sup>, Mitsuaki Ono<sup>2</sup>, Mitsuhiro Hoshijima<sup>1</sup>, Koichi Kadoya<sup>3</sup>, Miho Kuwahara<sup>3</sup>, Yoshiko Miyake<sup>1</sup>, Takuo Kuboki<sup>2</sup>, Masaharu Takigawa<sup>1</sup>

<sup>1</sup>Dept. of Biochem. & Mol. Dent., <sup>2</sup>Dept. of Oral Rehabil. & Regen. Med., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm. Sci., <sup>3</sup>Okayama Univ. Dent. Sch.

SS9-3

ERK1/2 pathway-mediated effects of CCN3 protein during early chondrocyte differentiation

Harumi Kawaki<sup>1</sup>, Satoshi Kubota<sup>2</sup>, Ipppei Onoe<sup>1,3</sup>, Yuzo Kondo<sup>1,3</sup>, Jun Takahashi<sup>1,3</sup>, Masako Kamiya<sup>1</sup>, Eiji Takayama<sup>1</sup>, Nobuo Kondoh<sup>1</sup>, Masaharu Takigawa<sup>2</sup>

<sup>1</sup>Dept. of Oral Biochem., Asahi Univ. Sch. of Dent.

<sup>2</sup>Dept. of Biochem. & Mol. Dent., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm. Sci.

<sup>3</sup>Dept. of Oral Implantol., Asahi Univ. Sch. of Dent.

SS9-4

Tensile force induces vascular formation in cranial sutures via CTGF signaling

Nobuo Takeshita, Masakazu Hasegawa, Kiyoko Sasaki, Daisuke Seki, Shunrou Miyashita, Ikuko Takano, Yuuki Miyajima, Teruko Takano-Yamamoto

Div. of Orthod. & Dentofacial Orthop., Tohoku Univ. Grad. Sch. of Dent.

SS9-5

CCN2 is important in chondrocytic energy metabolism

Aya Maeda<sup>1,2</sup>, Satoshi Kubota<sup>1</sup>, Harumi Kawaki<sup>1</sup>, Kazumi Kawata<sup>1</sup>, Yoshiaki Miyake<sup>3</sup>, Takako Hattori<sup>1</sup>, Takashi Nishida<sup>1</sup>, Norifumi Moritani<sup>2</sup>, Seiji Iida<sup>2</sup>, Masaharu Takigawa<sup>1</sup>

<sup>1</sup>Dept. Biochem. Mol. Dent., <sup>2</sup>Dept. Oral Maxillofac. Reconst. Surgery, <sup>3</sup>Dept. of Orthopaedics, Okayama Univ. Grad. Sch. of Med. Dent. & Pharm. Sci.

SS9-6

The effect of connective tissue growth factor on osteoblast-like differentiation of an undifferentiated human periodontal ligament cell line

Asuka Yuda<sup>1</sup>, Hidefumi Maeda<sup>2</sup>, Shinsuke Fujii<sup>3</sup>, Satoshi Monnouchi<sup>1</sup>, Naohide Yamamoto<sup>1</sup>, Naohisa Wada<sup>2</sup>, Atsushi Tomokiyo<sup>4</sup>, Katsuaki Koori<sup>2</sup>, Sayuri Hamano<sup>1</sup>, Akifumi Akamine<sup>1,2</sup>

<sup>1</sup>Dept. of Endo. & Operat. Dent., Kyushu Univ. Grad. Sch. of Dent., <sup>2</sup>Dept. of Endo., Kyushu Univ. Hosp., <sup>3</sup>Dept. of Mol. Biol. & Biochem. Osaka Univ. Grad. Sch. of Med., <sup>4</sup>Colgate Australian Clinical Dent. Res. Centre, Sch. of Dent., Univ. of Adelaide

SS9-7

Systemic deletion of CCN2 ameliorates anti-glomerular basement membrane nephritis

Hideki Yokoi<sup>1</sup>, Naohiro Toda<sup>1</sup>, Masato Kasahara<sup>1</sup>, Kiyoshi Mori<sup>1,2</sup>, Takashige Kuwabara<sup>1</sup>, Hiroataka Imamaki<sup>1</sup>, Akira Ishii<sup>1</sup>, Kenichi Koga<sup>1</sup>, Keita P. Mori<sup>1</sup>, Yukiko Kato<sup>1</sup>, Shoko Ohno<sup>1</sup>, Akira Sugawara<sup>3</sup>, Taiji Matsusaka<sup>4</sup>, Kazuwa Nakao<sup>1,2</sup>, Masashi Mukoyama<sup>1</sup>

<sup>1</sup>Dept. of Med. and Clin. Sci., <sup>2</sup>Med. Innovation Center, Kyoto Univ. Grad. Sch. of Med., <sup>3</sup>Dept. of Nephrol., Osaka Red Cross Hosp., <sup>4</sup>Dept. of Nephrol. and Endocrinol., Tokai Univ.

## **Satellite Symposium 10: Mechanisms of Tissue Destruction by Periodontal Pathogens: Current Status and Future View**

SS10-1

Strategy of periodontal destruction by *P. gingivalis* — Transfiguration of periodontal etiology —

Atsuo Amano

Dept. of Preventive Dent., Osaka Univ. Grad. Sch. of Dent.

SS10-2

Bacterial proteases: versatile virulence factors

Takahisa Imamura

Dept. of Med. Pathol., Fac. of Life Sci., Kumamoto Univ.

SS10-3

Machinery for post-translational modifications required for secretion of gingipains

Keitarou Saiki, Kiyoshi Konishi

Dept. Microbiol., Nippon Dent. Univ. Sch. of Life Dent. at Tokyo

SS10-4

Mechanism of bone resorption by gingipains

Yoichi Miyamoto

Dept. of Biochem., Showa Univ. Sch. of Dent.

SS10-5

Recent findings on structure and assembly mechanism of Mfa1 fimbriae in *Porphyromonas gingivalis* —

Role of the downstream gene products of mfa1 —

Yoshiaki Hasegawa, Yukitaka Murakami

Dept. of Oral Microbiol., Div. of Oral Infect. and Health Sci., Asahi Univ. Sch. of Dent.

### **Satellite Symposium 11: Intraoral Pain—Bench to Bedside—**

SS11-1

Expression of pain receptor channels in oral mucosa

Mizuho Kido

Dept. Mol. Cell Biol. Oral Anat., Grad. Sch. Dent. Sci., Kyushu Univ.

SS11-2

Characteristics of intra-oral painful disease

Osamu Komiyama

Dept. of Clin. Oral Physiol., Nihon Univ. Sch. of Dent. at Matsudo

SS11-3

Artemin signaling contributes tongue pain in burning mouth syndrome

Masamichi Shinoda

Dept. of Physiol., Nihon Univ. Sch. of Dent.

SS11-4

Management for disease causing a pain in oral region

Noboru Noma

Dept. of Oral Diagnostic Sci., Nihon Univ. Sch. of Dent.

SS11-5

Mechanism of the oral ulcer-induced intraoral pain in rats

Suzuro Hitomi

Div. of Physiol., Kyushu Dent. Univ.

### **Satellite Symposium 12: Osteocyte Biology**

SS12-1

Overview: Osteocyte, a conductor of bone cells

Norio Amizuka, Yukina Miyamoto, Hiromi Hongo, Muneteru Sasaki, Tomoka Hasegawa

Dept. of Develop Biol. of Hard Tissue, Hokkaido Univ.

SS12-2

Bone mass regulation by mechanical stress through osteocyte network

Toshihisa Komori

Dept. of Cell Biol. Nagasaki Univ.

SS12-3

Osteocytic osteolysis

Koichi Matsuo

Lab. of Cell & Tissue Biol., Keio Univ. Sch. of Med.

SS12-4

Regulation of bone destruction by osteocytes

Tomoki Nakashima

Dept. of Cell Signal, Tokyo Med. and Dent. Univ.

### **Lunchon Seminar**

L-1

Potential and mysterious actions of bone-modifying agent bisphosphonate

Toshiyuki Yoneda

Div. of Hematology/Oncology, Indiana Univ. Sch. of Med.

L-2

Impact of mechanobiology on oral biology

Keiji Naruse

Dept. of Cardiovascular Physiol. Okayama Univ. Grad. Sch. of Med., Dent. and Pharma. Sci.

L-3

Mechanism of inhibitory effects of oolong tea polyphenols on dental caries

Michiyo Matsumoto-Nakano

Dept. of Pediatric Dent., Okayama Univ. Grad. Sch. of Med., Dent. and Pharma. Sci.

L-4

Author workshop for young researchers supported by Elsevier: How to make and submit a scientific paper for Journal of Oral Biosciences using EES

Hayato Ohshima

Div. of Anat. & Cell Biol., Niigata Univ. Grad. Sch. of Med. & Dent. Sci.

Editor-in-Chief of Journal of Oral Biosciences

## ■ Oral Presentation

<b>O-1</b>	Smad8 negatively regulates BMP signaling ○Katagiri T <sup>1</sup> , Fujimoto M <sup>1</sup> , Miyamoto A <sup>1</sup> , Kokabu S <sup>1</sup> , Jimi E <sup>2</sup> , Osawa K <sup>1</sup> ( <sup>1</sup> Div. of Pathophysiol., Saitama Med. Univ. RCGM, <sup>2</sup> Dept. of Health Improvement, Kyushu Dent. Univ.)
<b>O-2</b>	Histochemical examination on bone tissue in ovariectomized leptin receptor-mutated (db/db) mice ○Tanaka Y <sup>1,2</sup> , Hasegawa T <sup>1</sup> , Yamada T <sup>1</sup> , Oda K <sup>3</sup> , Tei K <sup>2</sup> , Amizuka N <sup>1</sup> ( <sup>1</sup> Dept. Hard. Tissue, Grad. Sch. Dent. Hokkaido. Univ., <sup>2</sup> Dept. Oral and Maxillo, Grad. Hokkaido. Univ., <sup>3</sup> Dev. Biochem., Grad. Niigata. Univ.)
<b>O-3</b>	Co-repressor, TLE3 suppresses osteoblast differentiation via recruiting HDAC ○Kokabu S <sup>1,2</sup> , Sato T <sup>1</sup> , Enoki Y <sup>1</sup> , Okubo M <sup>1</sup> , Katagiri T <sup>3</sup> , Yoda T <sup>1</sup> ( <sup>1</sup> Dept. of Oral & Maxillofacial Surgery, Fac. of Med., Saitama Med. Univ., <sup>2</sup> Dept. of Dev. Biol., Harvard Sch. of Dent. Med., <sup>3</sup> Dev. Pathophysiol. of Genomic Med, Saitama Med. Univ.)
<b>O-4</b>	PP2A Calpha regulates osteoblast differentiation through the expression of bone-related genes including Osterix. ○Okamura H <sup>1</sup> , Haneji T <sup>1</sup> ( <sup>1</sup> Dept. of Histo. & Oral Histo., Univ. of Tokushima Grad. Sch.)
<b>O-5</b>	Osteocytes negatively modulate osteoclastogenesis through their production of interferon-beta ○Hayashida C <sup>1</sup> , Ito J <sup>1</sup> , Nakayachi M <sup>2</sup> , Okayasu M <sup>2</sup> , Oyama Y <sup>3</sup> , Hakeda Y <sup>1</sup> , Sato T <sup>1</sup> ( <sup>1</sup> Div. of Oral Anat., Dept. of Human Development & Fostering, Meikai Univ. Sch. Dent., <sup>2</sup> Div. of Orthodontol., Dept. of Human Development & Fostering, Meikai Univ. Sch. Dent., <sup>3</sup> 1st Div. of Oral and Maxillofacial Surgery, Dept. of Diagnostic and Therapeutic Sci, Meikai Univ. Sch. Dent.)
<b>O-6</b>	Response of osteoclasts and RANKL expression in the regenerating scales of goldfish under simulated microgravity ○Ikegame M <sup>1</sup> , Hattori A <sup>2</sup> , Yamamoto T <sup>1</sup> , Suzuki N <sup>3</sup> ( <sup>1</sup> Dept. of Oral Morphol., Okayama Univ., Grad. Sch. of Med. Dent. & Pharm., <sup>2</sup> Dept. of Biol., Coll. of Liberal Arts & Sci., Tokyo Med. Dent. Univ., <sup>3</sup> Inst. of Nat. & Environ. Technol., Kanazawa Univ.)
<b>O-7</b>	Immunoelectron microscopic localization of E-FABP in septoclasts of the epiphyseal plates of mice and influence of dietary vitamin-A or retinoic acid ○Bando Y <sup>1</sup> , Takizawa S <sup>1</sup> , Sakiyama K <sup>1</sup> , Amano O <sup>1</sup> ( <sup>1</sup> Div. of Anat. Meikai Univ. of Dent.)
<b>O-8</b>	Novel mechanisms involved in regulation of osteoclastogenesis via curdlan-dectin-1 signaling ○Yamasaki T <sup>1,2</sup> , Ariyoshi W <sup>1</sup> , Okinaga T <sup>1</sup> , Hosokawa R <sup>2</sup> , Nishihara T <sup>1</sup> ( <sup>1</sup> Dept. of Infections & Molecular Biol., Kyushu Dent. Univ. , <sup>2</sup> Dept. of Oral Reconstruction & Rehabilitation, Kyushu Dent. Univ.)
<b>O-9</b>	Involvement of acetylcholinesterase in osteoclast differentiation ○Sato T <sup>1</sup> , Enoki Y <sup>1</sup> , Kokabu S <sup>1</sup> , Okubo M <sup>1</sup> , Usui M <sup>2</sup> , Yoda T <sup>1</sup> ( <sup>1</sup> Dept. of Oral & Maxillofac Surg., Saitama Med. Univ., <sup>2</sup> Div. of Periodontol., Kyushu Dent. Univ.)
<b>O-10</b>	Cyclic compressive force induces osteoclast differentiation via prostaglandin E <sub>2</sub> production in rat gingival fibroblasts. ○Araki D <sup>1</sup> , Hara T <sup>1</sup> , Ishimine C <sup>1</sup> , Minagi S <sup>1</sup> ( <sup>1</sup> Dept. of Occlusal & Oral Functional Rehabil., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm.)
<b>O-11</b>	Ultrastructural examination on osteoclast-like cell in RANKL-deficient mice ○Miyamoto Y <sup>1,2</sup> , Hasegawa T <sup>2</sup> , Sasaki M <sup>2</sup> , Oda K <sup>3</sup> , Udagawa N <sup>1</sup> , Yamamoto T <sup>2</sup> , Amizuka N <sup>2</sup> ( <sup>1</sup> Sch. of Dent. Med., Hokkaido Univ., <sup>2</sup> Dept. of Dev. Biol. of Hard Tissue, Grad. Sch. of Dent. Med. Hokkaido. Univ., <sup>3</sup> Dept. of Oral Biochem. Grad. Sch. of Med and Dent. Sci. Niigata. Univ., <sup>4</sup> Dept. of Oral Biochem. Matsumoto Dent. Univ.)
<b>O-12</b>	Wnt5a-Ror2 signals regulate osteoclastic bone-resorbing activity through Rho activation ○Uehara S <sup>1</sup> , Udagawa N <sup>1</sup> , Takahashi N <sup>2</sup> , Kobayashi Y <sup>2</sup> ( <sup>1</sup> Dept. of Biochem., Matsumoto Dent. Univ., <sup>2</sup> Inst. for Oral Sci. Matsumoto Dent. Univ.)
<b>O-13</b>	Anatomical study on structure of maxillary incisive canal structure with three-dimensional reconstruction of microCT images ○Fukuda M <sup>1</sup> , Noguchi T <sup>1</sup> , Omine Y <sup>1</sup> , Kinoshita H <sup>1</sup> , Matsunaga S <sup>1</sup> , Ide Y <sup>1</sup> , Abe S <sup>1</sup> ( <sup>1</sup> Dept. of Anat. Tokyo Dent. Coll.)
<b>O-14</b>	Three-dimensional reconstruction and interactive Virtual-Reality viewing of vascular architecture ○Shimazu Y <sup>1</sup> , Taya Y <sup>1</sup> , Soeno Y <sup>1</sup> , Shirako Y <sup>1</sup> , Fujita K <sup>1</sup> , Sato K <sup>1</sup> , Aoba T <sup>1</sup> ( <sup>1</sup> Dept. of Pathol., Sch. of Life Dent., Nippon Dent. Univ.)
<b>O-15</b>	Education of oral anatomy using 3D-CT image -relations between volume of paranasal sinuses and tooth- ○Takahashi T <sup>1</sup> , Maeda S <sup>1</sup> , Ichijo Y <sup>1</sup> , Takahashi Y <sup>1</sup> , Moriyama H <sup>2</sup> , Kumasaka S <sup>3</sup> , Kobahashi S <sup>4</sup> ( <sup>1</sup> Dept. of 3D Imaging Anat. Kanagawa Dent. Univ. Grad. Sch. of Dent., <sup>2</sup> Dept. of Anat. Showa Univ. Sch. of Med., <sup>3</sup> Dept. of Radiological Sci. Fac. of Health Sci. Komazawa Univ., <sup>4</sup> Dept. of Anat. Kyushu Dent. Univ.)
<b>O-16</b>	Morphological analysis of cranial base synchondrosis in cartilage calcification insufficient rat ○Takeuchi A <sup>1</sup> , Nagayama M <sup>2</sup> , Kuzushima K <sup>1</sup> , Watabe H <sup>1</sup> , Ehara M <sup>2</sup> , Amano H <sup>3</sup> , Tanaka M <sup>4</sup> , Watanabe M <sup>5</sup> , Tanuma J <sup>2</sup> , Kitai N <sup>1</sup> ( <sup>1</sup> Dept. of Orthodont., Asahi Univ. Sch. of Dent., <sup>2</sup> Dept. of Oral Pathol., Asahi Univ. Sch. of Dent., <sup>3</sup> Dept. of Pharmacol., Sch. of Dent. Showa Univ. , <sup>4</sup> Dept. of Nutr., Jr. Col. Div. Univ. of Aizu, <sup>5</sup> Inst. for Animal Exp., St. Marianna Univ. Grad. Sch. of Med.)
<b>O-17</b>	A morphological variation of the foramen spinosum in <i>Pan troglodytes</i> ○Kondo S <sup>1</sup> , Naitoh M <sup>2</sup> , Matsuno M <sup>1</sup> ( <sup>1</sup> Dept. of Anat. I, Nihon Univ. Sch. of Dent. at Matsudo, <sup>2</sup> Dept. of Maxillofacial Radiol., Aichi-Gakuin Univ. Sch. of Dent.)
<b>O-18</b>	Effects of soft diet on temporomandibular joint of growing rats ○Kato T <sup>1,2,3</sup> , Takahashi S <sup>2</sup> , Uekita H <sup>1</sup> , Domon T <sup>2</sup> ( <sup>1</sup> Dept. of Oral Rehabil., Hokkaido Univ. Grad. Sch. of Dent. Med., <sup>2</sup> Dept. of Oral Functional Anat., Hokkaido Univ. Grad. Sch. of Dent. Med., <sup>3</sup> Sapporo Hokuyū Hosp.)
<b>O-19</b>	Differences in healing patterns of the bone-implant interface between immediately and delayed placed titanium implants into the mouse maxilla ○Watanabe T <sup>1</sup> , Saito K <sup>1</sup> , Ohshima H <sup>1</sup> ( <sup>1</sup> Div. of Anat. & Cell Biol. of Hard Tissue, Niigata Univ. Grad. Sch. of Med. & Dent. Sci.)
<b>O-20</b>	Biological effects of occlusal loading on bone tissue around titanium implants immediately placed into extraction sockets ○Ikeda Y <sup>1</sup> , Hasegawa T <sup>2</sup> , Amizuka N <sup>2</sup> , Yokoyama A <sup>1</sup> ( <sup>1</sup> Dept. of Oral Func. Pros. Div. of Oral Func. Sci. Hokkaido Univ. Grad. Sch. of Dent. Med. , <sup>2</sup> Dept. of Dev. Biol. of Hard Tissue, Grad. Sch. of Dent., Hokkaido Univ.)
<b>O-21</b>	Effect of surface morphology of zirconia on osteoblastic differentiation ○Taniguchi Y <sup>1,2</sup> , Kido H <sup>1</sup> , Yamazaki J <sup>2</sup> ( <sup>1</sup> Dept. of Oral Implantol., Fukuoka Dent. Coll., <sup>2</sup> Dept. of Physiol. Sci. & Mol. Biol., Fukuoka Dent. Coll.)

<b>O-22</b>	Effect of silk fibroin on primary osteoinductivity ○Uchida R <sup>1</sup> , Kiba H <sup>2</sup> , Bhawal U <sup>3</sup> , Arai K <sup>4</sup> , Kuboyama N <sup>5</sup> , Nishiyama N <sup>1</sup> ( <sup>1</sup> Dept. of Dent. Biomaterials, Nihon Univ. Sch. <sup>2</sup> Dept. of Oral Pathol., Nihon Univ. Sch. Dent. at Matsudo. <sup>3</sup> Dept. of Biochem. and Molecular Biol., Nihon Univ. Sch. Dent. at Matsudo. <sup>4</sup> Dept. of Pediatric Dent., Nihon Univ. Sch. Dent. at Matsudo. <sup>5</sup> Nihon Univ. Sch. Dent. at Matsudo)
<b>O-23</b>	Sintering temperature-dependent effects of carbonate apatite on the proliferation and differentiation of rat bone marrow derived cells ○Onoe I <sup>1,2</sup> , Kawaki H <sup>1</sup> , Kondo Y <sup>1,2</sup> , Takahashi J <sup>1,2</sup> , Kamiya M <sup>1</sup> , Takayama E <sup>1</sup> , Nagahara K <sup>2</sup> , Kondoh N <sup>1</sup> ( <sup>1</sup> Dept. of Oral Biochem., Asahi Univ. Sch. of Dent. <sup>2</sup> Dept. of Oral & Maxillofacial Implantol., Asahi Univ. Sch. of Dent.)
<b>O-24</b>	The effects of <i>V. parvula</i> 's supernatant for the biofilm formation of <i>S. sanguinis</i> ○Mashima I <sup>1</sup> , Kamaguchi A <sup>1</sup> , Miyakawa H <sup>1</sup> , Fujita M <sup>1</sup> , Nakazawa F <sup>1</sup> ( <sup>1</sup> Dept. Oral Microbiol., Sch. of Dent., Heal. Sci. Univ. Hokkaido)
<b>O-25</b>	Oral actinobacteria kills <i>P. gingivalis</i> dependently on NO <sub>3</sub> ○Nambu T <sup>1</sup> , Mashimo C <sup>1</sup> , Yamane K <sup>1</sup> , Yamanaka T <sup>1</sup> , Fukushima H <sup>1</sup> ( <sup>1</sup> Dept. Bacteriol., Fac. Dent., Osaka Dent. Univ.)
<b>O-26</b>	Effects of extract from potherb mustard on the biofilm formation of <i>Actinomyces naeslundii</i> ○Arai T <sup>1,2</sup> , Ochiai K <sup>3</sup> , Mohri S <sup>4</sup> , Saeki Y <sup>4</sup> , Senpuku H <sup>1</sup> ( <sup>1</sup> Dept. of Bac I., NIID. <sup>2</sup> Dept. of Maxillofacial Surgery, Nihon Univ. Sch. of Dent at Matsudo. <sup>3</sup> Dept. of Microbiol., Nihon Univ. Sch. of Dent. <sup>4</sup> Dept, Lotte Co., Ltd. Oral Sci. Section Basic Res. )
<b>O-27</b>	Analysis of the major outer membrane protein of <i>Treponema denticola</i> ○Abiko Y <sup>1</sup> , Nagano K <sup>1</sup> , Yoshida Y <sup>1</sup> , Yoshimura F <sup>1</sup> ( <sup>1</sup> Dept. of Microbiol. Sch. of Dent. Aichi Gakuin Univ. )
<b>O-28</b>	Construction of a plasmid vector for electrotransformation of <i>Porphyromonas gingivalis</i> ○Tagawa J <sup>1</sup> , Inoue T <sup>2</sup> , Sato K <sup>3</sup> , Naito M <sup>3</sup> , Nakayama M <sup>2</sup> , Nakayama K <sup>2</sup> , Yamashiro T <sup>4</sup> , Ohara N <sup>2</sup> ( <sup>1</sup> Dept. of Ortho., Okayama Univ. Hosp. <sup>2</sup> Dept. of Microbiol., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm. <sup>3</sup> Dept. of Microbiol. & Oral Infect., Nagasaki Univ. Grad. Sch. of Biomed. Sci. <sup>4</sup> Dept. of Ortho. & Dent. Orthoped., Osaka Univ. Grad. Sch. of Dent.)
<b>O-29</b>	Involvement of the novel two-component NsrRS and LcrRS systems in distinct resistance pathways against lantibiotics in <i>Streptococcus mutans</i> ○Matsuo M <sup>1</sup> , Komatsuzawa H <sup>1</sup> ( <sup>1</sup> Dept. of Oral Microbiol., Kagoshima Univ. Grad. Sch. of Med. and Dent.)
<b>O-30</b>	Different evolutionary strategies among the Red-complex bacteria ○Endo A <sup>1</sup> , Watanabe T <sup>2</sup> , Maruyama F <sup>2,3</sup> , Izumi Y <sup>1</sup> , Nakagawa I <sup>2</sup> ( <sup>1</sup> Dept. of Perio. Tokyo Med. & Dent. Univ. Grad. Sch. of Med. & Dent. <sup>2</sup> Dept. of Bac. & Phatho. Tokyo Med. Dent. Univ. Grad. Sch. of Med. & Dent. <sup>3</sup> Dept. of Micro. Gen. & Eco. Tokyo Med. Dent. Univ. Grad. Sch. of Med. & Dent.)
<b>O-31</b>	Genetic and serologic analyses of FimA fimbriae of <i>Porphyromonas gingivalis</i> strains ○Nagano K <sup>1</sup> , Abiko Y <sup>1</sup> , Yoshida Y <sup>1</sup> , Yoshimura F <sup>1</sup> ( <sup>1</sup> Dept. of Microbiol., Sch. of Dent., Aichi Gakuin Univ.)
<b>O-32</b>	Identification of integrin $\alpha 3$ as a molecular marker of cells undergoing epithelial mesenchymal transition and of cancer cells with aggressive phenotypes ○Saitoh M <sup>1</sup> ( <sup>1</sup> Dept. of Biochem. Grad. Sch. of Med. & Eng. Univ. of Yamanashi)
<b>O-33</b>	Immunohistochemical study of Dkk-3 and b-catenin expressions in head and neck squamous cell carcinoma ○Fujii M <sup>1</sup> , Ito S <sup>1</sup> , Yu S <sup>1</sup> , Takebe Y <sup>1</sup> , Kawai H <sup>1</sup> , Tsujigiwa H <sup>1</sup> , Nagatsuka H <sup>1</sup> ( <sup>1</sup> Dept. of Oralpathol. Med., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm.)
<b>O-34</b>	Expression and role of High mobility group box 1 (HMGB1) in the adjacent tissue of the tongue cancer ○Takizawa S <sup>1</sup> , Sakiyama K <sup>1</sup> , Inoue K <sup>2</sup> , Bando Y <sup>1</sup> , Sakasita H <sup>2</sup> , Amano O <sup>1</sup> ( <sup>1</sup> Meikai Univ. Sch. of Dent. Anat. Lecture. <sup>2</sup> Second Div. of Oral and Maxillofacial Surgery, Dept. of Diagnostic and Therapeutic Sci, Meikai Univ. Sch. of Dent.)
<b>O-35</b>	Regulation of EGFR by GLUT1 in squamous cell carcinoma cells ○Yoshimoto S <sup>1</sup> , Nagano K <sup>1</sup> , Sugiyama G <sup>1</sup> , Morita H <sup>2</sup> , Nakamura S <sup>3</sup> , Hirata M <sup>1</sup> ( <sup>1</sup> Lab. of Mol. & Biochem., Fac. of Dent. Sci., Kyushu Univ. <sup>2</sup> Special Patient Oral Care Unit of Kyushu Univ. Hosp. <sup>3</sup> Sect. of Oral and Maxillofac. Oncol., Div. of Maxillofac. Diag. Surg. Sci., Fac. of Dent. Sci., Kyushu Univ.)
<b>O-36</b>	The expression of integral membrane protein 2a (itm2a) during the tooth germ development ○Kihara M <sup>1,2</sup> , Kiyoshima T <sup>1</sup> , Nagata K <sup>1</sup> , Wada H <sup>1</sup> , Fujiwara H <sup>1</sup> , Hasegawa K <sup>1,3</sup> , Someya H <sup>1,4</sup> , Takahashi I <sup>2</sup> , Sakai H <sup>1</sup> ( <sup>1</sup> Lab of Oral Patho, Fac. of Dent. Sci., Kyushu Univ. <sup>2</sup> Dept. of Ortho, Fac. of Dent. Sci., Kyushu Univ. <sup>3</sup> Dept. of Endo. and Ope. Dent., Fac. of Dent. Sci., Kyushu Univ. <sup>4</sup> Dept. of Remov Prosthodontics, Fac. of Dent. Sci., Kyushu Univ.)
<b>O-37</b>	Characterization of human dental pulp cells-derived spheroids in serum-free medium: stem cell distribution and neuronal/osteogenic potency ○Xiao L <sup>1</sup> , Tsutsui T <sup>1</sup> ( <sup>1</sup> Dept. of Pharm., Nippon Dent Univ. Sch of Life Sci.)
<b>O-38</b>	Mechanism of discrepancy between upper and lower dentition ○Kozawa Y <sup>1</sup> ( <sup>1</sup> Nihon Univ.)
<b>O-39</b>	Epigenetic mechanisms in the development of mouse tooth germ ○Yoshioka H <sup>1</sup> , Minamizaki T <sup>1</sup> , Yoshiko Y <sup>1</sup> ( <sup>1</sup> Dept. of Calif. Tissue Biol., Hiroshima Univ. Inst. of Biomed. & Hlth. Sci.)
<b>O-40</b>	The anti-inflammatory effects of matrix metalloproteinase-3 on irreversible pulpitis of mature erupted teeth ○Nakamura H <sup>1</sup> ( <sup>1</sup> Dept. of Oral Surg., Kanazawa Univ., Grad. Sch. of Med.)
<b>O-41</b>	Functional effects of hypotonic sensitivity TRP channels and Na <sup>+</sup> -Ca <sup>2+</sup> exchanger in mouse odontoblasts cultured cells ○Sato M <sup>1</sup> , Tsumura M <sup>1</sup> , Sobhan U <sup>1</sup> , Kodama S <sup>1</sup> , Shimada M <sup>2</sup> , Nishiyama A <sup>3</sup> , Mochizuki H <sup>1</sup> , Ogura K <sup>1</sup> , Tazaki M <sup>1</sup> , Shibukawa Y <sup>1</sup> ( <sup>1</sup> Dept. of Physiol., Tokyo Dent. Coll. <sup>2</sup> Dept. of Clin. Oral Health Sci., Tokyo Dent. Coll. <sup>3</sup> Dept. of Oral Med., Tokyo Dent. Coll.)
<b>O-42</b>	Histology and elemental composition of the mantle dentin in the human deciduous teeth ○Takahashi M <sup>1</sup> , Goto S <sup>2</sup> ( <sup>1</sup> Dept. of Dent. Hygiene, Nippon Dent. Univ. Coll. at Dent. Hygiene, Nippon Dent. Univ. Coll. at Niigata. <sup>2</sup> Dept. of Dent. Material Sci., Sch. of Life Dent. at Niigata, Nippon Dent. Univ.)

<b>O-43</b>	Functional analysis of intraflagellar transport protein 88 in odontoblast ○Kawata K <sup>1</sup> , Takeda S <sup>1</sup> ( <sup>1</sup> Dept. of Anat. & Cell Biol., Yamanashi Univ. Grad. Sch. of Med. & Engin.)
<b>O-44</b>	In-office bleaching therapy – a potential expanded use for remineralization of enamel subsurface lesions ○Iizuka J <sup>1</sup> , Taniguchi M <sup>2</sup> , Teranaka T <sup>1</sup> , Takagaki Y <sup>2</sup> , Mukai Y <sup>1</sup> ( <sup>1</sup> Dept. of Cario. & Resto., Kanagawa Dent. Univ. Grad. Sch. of Dent., <sup>2</sup> Dept. of Mol. & Cell. Bio. of Miner. Tissue., Kanagawa Dent. Univ. Grad. Sch. of Dent.)
<b>O-45</b>	The role of <i>Msx2</i> for the maintenance of ameloblast polarization in mice ○Nakatomi M <sup>1</sup> , Ida-Yonemochi H <sup>1</sup> , Ohshima H <sup>1</sup> ( <sup>1</sup> Div. of Anat. & Cell Biol. of the Hard Tissue, Niigata Univ. Grad. Sch. of Med. & Dent. Sci.)
<b>O-46</b>	Functional role of Rho signaling in ameloblast differentiation ○Otsu K <sup>1</sup> , Fujiwara N <sup>1</sup> , Harada H <sup>1</sup> ( <sup>1</sup> Dev. of Dev. Biol. & Regen. Med., Dept of Anat., Iwate Med. Univ)
<b>O-47</b>	MMP20 and KLK4 activation and inactivation interactions ○Yamakoshi Y <sup>1</sup> , Karakida T <sup>1</sup> , Oida S <sup>1</sup> ( <sup>1</sup> Dept. of Biochem. & Mol. Biol., Tsurumi Univ., Sch. of Dent. Med.)
<b>O-48</b>	Alterations of bone matrix surrounding osteocytes and thier lacunae after administration of parathroid hormone in mice ○Hongo H <sup>1</sup> , Yamada T <sup>1</sup> , Udagawa N <sup>2</sup> , Amizuka N <sup>1</sup> ( <sup>1</sup> Dept. of Dev. Biol. of Hard Tissue, Hokkaido Univ. Grad., <sup>2</sup> Dept. of Biochem., Matsumoto Dent. Univ.)
<b>O-49</b>	Biological effects of the frequency of intermittent PTH administration on bone cells ○Yamamoto T <sup>1</sup> , Sasaki M <sup>1</sup> , Hongo H <sup>1</sup> , Hasegawa T <sup>1</sup> , Yamada T <sup>1</sup> , Yamamoto T <sup>1</sup> , Amizuka N <sup>1</sup> ( <sup>1</sup> Dept. of Dev. Biol. Hard Tissue., Hokkaido Univ. Grad. Sch. of Dent. Med.)
<b>O-50</b>	Opposing effects of FGF18 and FGF2 on osteogenesis of developing mouse fetal skull ○Iseki S <sup>1</sup> , Okuhara S <sup>1</sup> , Ota MS <sup>1</sup> , Kasugai S <sup>2</sup> ( <sup>1</sup> Dept. of Mol. Craniofac. Emb. Tokyo Med. and Dent. Univ. Grad. Sch. of Med. Dent. Sci., <sup>2</sup> Dept. of Oral Implant. & Regen. Med. Tokyo Med. and Dent. Univ. Grad. Sch. of Med. Dent. Sci.)
<b>O-51</b>	The Rhyolite ceramics radiating far infrared ray (FIR) energy promotes the formation of bone ○Aldartsogt D <sup>1</sup> , Yamashita K <sup>1</sup> , Sumida K <sup>1</sup> , Seki S <sup>1</sup> , Masui T <sup>1</sup> , Kitamura S <sup>1</sup> ( <sup>1</sup> Dept. of Oral Anat., Tokushima Univ. Grad. Sch. of Dent.)
<b>O-52</b>	Klf4 regulates expression of MMP and aggrecanase in chondrocytic cells ○Fujikawa J <sup>1,2</sup> , Abe M <sup>1</sup> , Miura J <sup>3</sup> , Wakisaka S <sup>1</sup> ( <sup>1</sup> Dept. of Anat. & Dev. Bio., Osaka Univ. Grad. Sch., <sup>2</sup> Div. of Special Care Dent., Osaka Univ. Dent. Hosp., <sup>3</sup> Div. for interdisciplinary Dent., Osaka Univ. Dent. Hosp.)
<b>O-53</b>	DMP1 mRNA and protein expression during osteoblast-to-osteocyte transition ○Oya K <sup>1,2</sup> , Sato S <sup>1</sup> , Noda Y <sup>1</sup> , Ishida K <sup>1</sup> , Usami U <sup>3</sup> , Kishino M <sup>1</sup> , Ogawa Y <sup>1</sup> , Komori T <sup>4</sup> , Toyosawa S <sup>1</sup> ( <sup>1</sup> Dept. of Oral Path., Osaka Univ. Grad. Sch. of Dent., <sup>2</sup> Div. for Interdiscip. Dent., Osaka Univ. Dent. Hosp., <sup>3</sup> Labo. for Clinic. Investigation Osaka Univ. Dent. Hosp., <sup>4</sup> Dept. of Cell Biol. Unit of Basic Med. Sci, Nagasaki Univ. Grad. Sch. of Biomed. Sci)
<b>O-54</b>	Ultrastructural analysis of osteocyte in the mineralization front ○Miura J <sup>1</sup> , Oya K <sup>1,2</sup> , Sato S <sup>2</sup> , Toyosawa S <sup>2</sup> ( <sup>1</sup> Div. for Interdisciplinary Dent. Osaka Univ. Dent. Hosp., <sup>2</sup> Dept. Oral Pathol. Osaka Univ. Grad. Sch. Dent.)
<b>O-55</b>	A participation of the cells derive from bone marrow in bone healing ○Kawai H <sup>1</sup> , Tsujigiwa H <sup>1</sup> , Itou S <sup>1</sup> , Nakano K <sup>2</sup> , Yu S <sup>1</sup> , Kawakami T <sup>3</sup> , Nagatsuka H <sup>1</sup> ( <sup>1</sup> Dept. Oralpatho. Med., Okayama Univ. Grad. Sch. of Med. Dent. and Pharm., <sup>2</sup> Oral Path, Matsumoto Univ., <sup>3</sup> Analysis of Hard Tissue Disorder, Matsumoto Univ.)
<b>O-56</b>	Effects of beta2-adrenoceptor agonists on function and phenotype of rat masseter muscle ○Ohnuki Y <sup>1</sup> , Okumura S <sup>1</sup> ( <sup>1</sup> Dept. of Physiol., Tsurumi Univ. Sch. of Dent. Med. )
<b>O-57</b>	CCN2 inhibits the osteoblastic phenotypes induced by BMP2 in mouse myoblasts. ○Nishida T <sup>1</sup> , Kubota S <sup>1</sup> , Takigawa M <sup>1</sup> ( <sup>1</sup> Dept. of Biochem. & Mol. Bent., Okayama Univ. Grad. Sch. of Med. Dent & Pharm.)
<b>O-58</b>	The free fatty acids potentiate contraction via FFAR1 in airway smooth muscle ○Mizuta K <sup>1,2</sup> , Kudo T <sup>3</sup> ( <sup>1</sup> Dept. of Dento-oral Anesthesiol., Tohoku Univ. Grad. Sch. of Dent., <sup>2</sup> Dept. of Anesthesiol. Columbia Univ. Coll. of Physicians & Surgeons, <sup>3</sup> Dept. of Oral Physiol., Tohoku Univ. Grad. Sch. of Dent.)
<b>O-59</b>	Expression of thyroid hormone receptor and negative regulator of skeletal muscle growth mRNAs in mouse masseter and quadriceps femoris muscles after birth ○Sato I <sup>1</sup> , Miwa Y <sup>1</sup> , Sunohara M <sup>1</sup> ( <sup>1</sup> Dept of Anat., Sch. of Life Dent. at Tokyo, Nippon Dent. Univ.)
<b>O-60</b>	Expression of erythropoietin receptor on stem cells from exfoliated deciduous teeth ○Ma L <sup>1,2</sup> , Yamaza T <sup>2</sup> , Hoshino Y <sup>1</sup> , Yamaza H <sup>1</sup> , Nonaka K <sup>1</sup> , Kukita T <sup>2</sup> ( <sup>1</sup> Dept. of Pediatr. Dent., Kyushu Univ. Grad. Sch. of Dent. Sci., <sup>2</sup> Dept. of Mol. Cell Biol. & Oral Anat.)
<b>O-61</b>	Therapeutic benefits of the engrafted dopaminergic neurons induced from human dental pulp stem cells ○Fujii H <sup>1</sup> , Yamamoto A <sup>1</sup> , Matsubara K <sup>1</sup> , Ueda M <sup>1</sup> ( <sup>1</sup> Dept. of Oral and Maxi. Surgery, Nagoya Univ. Grad. Sch. of Med.)
<b>O-62</b>	Establishment of method of primary tenocyte in 3D culture ○Shimada A <sup>1</sup> , Wada S <sup>2</sup> , Komatsu K <sup>1</sup> , Nakashima K <sup>1</sup> , Nifuji A <sup>1</sup> ( <sup>1</sup> Dept. of Pharmacol., Tsurumi Univ. Sch. of Dent. Med., <sup>2</sup> Dept. of Orthodont., Tsurumi Univ. Sch. of Dent. Med. )
<b>O-63</b>	Expression of cytoskeleton protein in engineered epithelial-mesenchymal hybrid cell sheet ○Yamane S <sup>1</sup> , Umezawa T <sup>1</sup> , Ide Y <sup>1</sup> , Abe S <sup>1</sup> ( <sup>1</sup> Dept. of Anat., Tokyo Dent. Coll.)
<b>O-64</b>	Effects of simvastatin on osteogenic differentiation of mouse gingival fibroblast-derived iPS cells ○Okawa H <sup>1</sup> , Egusa H <sup>1</sup> , Yatani H <sup>1</sup> ( <sup>1</sup> Dept. of Fixed Prosthodontics, Osaka Univ. Grad. Sch. of Dent.)
<b>O-65</b>	Effectiveness of Enzymatically Synthesized Glycogen (ESG) on the healing process following intentionally-delayed tooth replantation in mice ○Quispe-Salcedo A <sup>1</sup> , Ida-Yonemochi H <sup>1</sup> , Ohshima H <sup>1</sup> ( <sup>1</sup> Div. of Anat. and Cell Biol. of the Hard Tissue, Dept. of Tissue Regeneration and Reconstruction, Niigata Univ. Grad. Sch. of Med. and Dent. Sci)

<b>O-66</b>	Evaluating the regenerative effect of CCN2 independent modules on chondrocytes in vitro and OA models in vivo ○Abd El Kader T <sup>1,2</sup> , Kubota S <sup>1</sup> , Nishida T <sup>1</sup> , Hattori T <sup>1</sup> , Aoyama E <sup>3</sup> , Janune D <sup>1</sup> , Kuboki T <sup>2</sup> , Takigawa M <sup>1,3</sup> (Dept. of Biochem. & Mol. Bent., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., Oral Rehabil. Regen. Med., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., Biodent. Res. Ctr., Okayama Univ. Grad. Sch. of Med. Dent & Pharm.)
<b>O-67</b>	The root bark extracts of <i>J. effusus</i> and <i>P. suffruticosa</i> protect salivary gland acinar cells from apoptotic cell death induced by CDDP ○Mukudai Y <sup>1</sup> (Dept. of Oral Surg., Sch. of Dent., Showa Univ.)
<b>O-68</b>	The circadian rhythm of clock genes, clock controlled gene and functional molecules in submandibular gland <i>in vitro</i> ○Uchida H <sup>1,2,3</sup> , Sakai T <sup>2</sup> , Nakamura W <sup>1</sup> (Lab of Oral Chronobiol., Osaka Univ. Grad. Sch. of Dent., Dept. of Oral-Facial Disorders, Osaka Univ. Grad. Sch. of Dent., JSPS Res. Fellow)
<b>O-69</b>	FACS isolation of intercalated duct cells from the adult salivary gland ○Takeyama A <sup>1</sup> , Yoshikawa Y <sup>2</sup> , Ikeo T <sup>2</sup> , Morita S <sup>1</sup> , Hieda Y <sup>3</sup> (First Dept. of the Oral and Maxillofacial Surgery, Grad. Sch. of Dent., Osaka Dent. Univ., Dept. of Biochem., Grad. Sch. of Dent., Osaka Dent. Univ., Biol., Sch. of Dent., Osaka Dent. Univ.)
<b>O-70</b>	Oxidization of salivary proteins – a possible measure of stress among the model evacuees staying in a shelter ○Taniguchi M <sup>1</sup> , Iizuka J <sup>2</sup> , Mukai Y <sup>2</sup> , Takagaki Y <sup>1</sup> (Dept. of Mol. & Cell. Bio. of Miner. Tissue., Kanagawa Dent. Univ. Grad. Sch. of Dent., Dept. of Cario. & Resto., Kanagawa Dent. Univ. Grad. Sch. of Dent.)
<b>O-71</b>	Relationship between sexual cycle and saliva BDNF, estrogen, and progesterone ○Matsuki C <sup>1</sup> , Kondo Y <sup>1,2</sup> , Saruta J <sup>1</sup> , To M <sup>1</sup> , Hayashi T <sup>1</sup> , Yamamoto Y <sup>1</sup> , Shimizu T <sup>1</sup> , Tsukinoki K <sup>1</sup> (Dept. of Environ. Pathol., Grad. Sch. of Kanagawa Dent. Univ., Dept. of Pathol., Tokai Univ. Sch. of Med.)
<b>O-72</b>	Influence of various luminacoid intake on increase of saliva IgA and salivary gland intratissue IgA ○Yamamoto Y <sup>1</sup> , Hayashi T <sup>1</sup> , Tou M <sup>1</sup> , Shimizu T <sup>1</sup> , Saruta J <sup>1</sup> , Kondo Y <sup>1,2</sup> , Tsukinoki K <sup>1</sup> (Dept. of Environ. Pathol., Grad. Sch. of Kanagawa Dent. Univ., Dept. of Pathol., Tokai Univ. Sch. of Med.)
<b>O-73</b>	The role of acyltransferase in tumor associated macrophage ○Taniguchi K <sup>1,3</sup> , Hikiji H <sup>2</sup> , Okinaga T <sup>3</sup> , Nishihara T <sup>3</sup> (Div. of Oral and Max. Surg., Kyushu Dent. Univ., Dept. of Oral Functional Management, Kyushu Dent. Univ., Div. of Infections and Mol. Biol., Kyushu Dent. Univ.)
<b>O-74</b>	New selective inhibitor of NF- $\kappa$ B inhibits bone invasion by oral squamous cell carcinoma ○Tada Y <sup>1,2</sup> , Fukushima H <sup>2</sup> , Osawa K <sup>3</sup> , Jimi E <sup>2</sup> (Div. of Dent. Anesthesiol., Kyushu Dent. Univ., Div. of Molecular Signaling and Biochem., Kyushu Dent. Univ., Div. of Pathophysiol., Res. Center for Genomic Med., Saitama Med. Univ.)
<b>O-75</b>	Histochemical study on osteocyte-derived factors in osteolytic bone metastases of MDA-MB-231 human breast cancer cells ○Yamada T <sup>1</sup> , Tsuboi K <sup>1</sup> , Hiraga T <sup>3</sup> , Yamamoto T <sup>1</sup> , Tanaka Y <sup>1</sup> , Hasegawa T <sup>1</sup> , Oda K <sup>2</sup> , Amizuka N <sup>1</sup> (Dept. of Dev. Biol. of Hard Tissue, Hokkaido Univ. Grad. Sch. of Dent. Med., Dept. of Biol, Niigata Univ. Sch. of Dent., Dept. of Histol. & Cell Biol., Matsumoto Dent. Univ.)
<b>O-76</b>	Defense mechanism of carcinogenesis on reactive oxidative stress via cellular senescence in normal human epidermal keratinocytes ○Sasaki M <sup>1,2</sup> , Kajija H <sup>1</sup> , Nagaoka Y <sup>1,2</sup> , Tsutsumi T <sup>1</sup> , Fukawa T <sup>1,2</sup> , Okamoto F <sup>1</sup> , Okabe K <sup>1</sup> (Dept. of Physiological Sci. and Molecular Biol., Fukuoka Dent. Coll., Dept. of Oral and Maxillofacial Surgery, Fukuoka Dent. Coll.)
<b>O-77</b>	Anti-fibrotic CCN3 effect accompanied by altered gene expression profile of CCN the family ○Janune D <sup>1</sup> , Abd El Kader T <sup>1,2</sup> , Kubota S <sup>1</sup> , Nishida T <sup>1</sup> , Hattori T <sup>1</sup> , Aoyama E <sup>3</sup> , Kuboki T <sup>2</sup> , Takigawa M <sup>1,3</sup> (Dept. of Biochem. & Mol. Bent., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., Dept. of Dent. Rehabil. & Regen. Med., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., Biodent. Res. Cntr, Okayama Univ. Dent. Sch.)
<b>O-78</b>	Osteocalcin triggers the secretion of incretin GLP-1, thereby inducing insulin secretion ○Mizokami A <sup>1</sup> , Yasutake Y <sup>1</sup> , Hirata M <sup>1</sup> (Lab. of Mol. & Cell. Biochem., Fac. of Dent. Sci., Kyushu Univ.)
<b>O-79</b>	Disrupted function of FGF23/klotho axis induces vascular ossification– Histochemical examination on aorta of <i>kl/kl</i> mice – ○Hasegawa T <sup>1</sup> , Yamada T <sup>1</sup> , Sasaki M <sup>1</sup> , Sasano Y <sup>2</sup> , Amizuka N <sup>1</sup> (Dept. of Dev. Biol. of Hard Tissue, Grad. Sch. of Dent., Hokkaido Univ., Div. of Cranio. Dev. and Reg., Tohoku Univ. Grad. Sch. of Dent.)
<b>O-80</b>	Listone 3 lysine 9 methyltransferases are predominantly expressed in the prehypertrophic chondrocytes during the skeletal development ○Nifuji A <sup>1</sup> , Shimada A <sup>1</sup> , Nakashima K <sup>1</sup> (Dept. of Pharm, Tsurumi Univ., Sch. of Dent. Med.)
<b>O-81</b>	Calcification in the bone matrix of rat calvaria during development ○Henmi A <sup>1</sup> , Okata H <sup>2</sup> , Mikami Y <sup>1</sup> , Suzuki O <sup>3</sup> , Sasano Y <sup>1</sup> (Div. of Craniofacial Development and Regeneration, Tohoku Univ. Grad. Sch. of Dent., Div. Periodontol. and Endodontol., Tohoku Univ. Grad. Sch. of Dent., Div. of Craniofacial Function Engineering, Tohoku Univ. Grad. Sch. of Dent.)
<b>O-82</b>	SP6 positively regulates Rock1 promoter activity in dental epithelial cells ○Yanuaryska RD <sup>1</sup> , Miyoshi K <sup>2</sup> , Horiguchi T <sup>2</sup> , Tanimura A <sup>2</sup> , Arya A <sup>1</sup> , Noma T <sup>2</sup> (Grad. Sch. Oral Sci., Univ. Tokushima, Dept. Mol. Biol., HBS, Univ. Tokushima Grad. Sch.)
<b>O-83</b>	CXCL3 positively regulates adipogenic differentiation ○Kusuyama J <sup>1,2</sup> , Bandow K <sup>1</sup> , Kakimoto K <sup>1</sup> , Ohnishi T <sup>1</sup> , Matsuguchi T <sup>1</sup> (Dept. of Oral Biochem, Kagoshima Univ. Grad. Sch. of Med & Dent., Res. Fellow of the Japan Society for the Promotion of Science)
<b>O-84</b>	Lymphangiogenesis and its molecular regulation during mouse tongue development ○Taya Y <sup>1</sup> , Fujita K <sup>1</sup> , Soeno Y <sup>1</sup> , Shimazu Y <sup>1</sup> , Sato K <sup>1</sup> , Aoba T <sup>1</sup> (Dept. of Pathol., Nippon Dent. Univ.)
<b>O-85</b>	Chemokine CXCL14/BRAK is a multifunctional tumor suppressor ○Hata R <sup>1</sup> , Izukuri K <sup>2</sup> , Kato Y <sup>3</sup> (Oral Health Sci. Res. Cent., Grad. Sch. of Dent. Kanagawa Dent. Univ., Grad. Sch. Dent., Kanagawa Dent. Univ., Dept. Oral Func. Mol. Biol., Ohu Univ. Sch. Dent.)
<b>O-86</b>	Expression of TLR2 and TLR4 in glomerular endothelial cells under diabetic conditions ○Takata S <sup>1</sup> , Uchiyama T <sup>1</sup> , Turuga E <sup>2</sup> , Hatakeyama Y <sup>2</sup> , Ishikawa H <sup>1</sup> , Sawa Y <sup>2</sup> (Dept. of Oral Growth Dev., Fukuoka Dent. Coll., Dept. of Morphol. Bio., Fukuoka Dent. Coll.)
<b>O-87</b>	<i>Candida albicans</i> upregulates galectin-3 secretion by Ca9-22 cells ○Tamai R <sup>1</sup> , Kiyoura Y <sup>1</sup> (Dept. of Oral Med. Sci., Ohu Univ. Sch. Dent.)



<b>O-88</b>	Inhibitory effect of CL peptide derived from rice proteins on endotoxic activity ○Kato T <sup>1</sup> , Kokubu E <sup>2</sup> , Taniguchi M <sup>3</sup> , Saito A <sup>4</sup> , Saitoh E <sup>5</sup> , Ishihara K <sup>2</sup> ( <sup>1</sup> Lab. of Chem., Tokyo Dent. Coll., <sup>2</sup> Dept. of Microbiol., Tokyo Dent. Coll., <sup>3</sup> Grad. Sch. of Sci. and Technol., Niigata Univ., <sup>4</sup> Dept. of Periodontol., Tokyo Dent. Coll., <sup>5</sup> Dept. of Env. Sci., Niigata Inst. Technol.)
<b>O-89</b>	Rapid decay of DUSP mRNAs is involved in cellular stress responses ○Matsuguchi T <sup>1</sup> , Kusuyama J <sup>1</sup> , Bandow K <sup>1</sup> , Kakimoto K <sup>1</sup> , Ohnishi T <sup>1</sup> ( <sup>1</sup> Dept. of Oral Biochem., Kagoshima Univ. Grad Sch. of Med. Dent. Sci)
<b>O-90</b>	Development of intractable liver disease treatment using serum-free conditioned medium derived from stem cells from human deciduous teeth ○Matsushita Y <sup>1</sup> , Yamamoto A <sup>1</sup> , Matsubara K <sup>1</sup> , Ueda M <sup>1</sup> ( <sup>1</sup> Dept. of Oral and Maxillofacial Surgery Nagoya Univ. Grad. Sch. of Med.)
<b>O-91</b>	Inflammasome activity in periodontopathic bacterium-infected macrophage ○Okinaga T <sup>1</sup> , Ariyoshi W <sup>1</sup> , Nishihara T <sup>1</sup> ( <sup>1</sup> Div. Infect. & Mol. Biol., Kyushu Dent. Univ.)
<b>O-92</b>	Immunological response of NK cells stimulated by renin ○Shimada E <sup>1</sup> , Endo M <sup>1</sup> , Ogasawara K <sup>1</sup> ( <sup>1</sup> Dept. of Immunobiol., Grad. Sch. of Dent., Tohoku Univ.)
<b>O-93</b>	Finding of NK cell activation induced cell death ○Ogasawara K <sup>1</sup> , Shimada E <sup>1</sup> , Endo M <sup>1</sup> ( <sup>1</sup> Dept. of Immunobiol., Grad. Sch. of Dent., Tohoku Univ.)
<b>O-94</b>	Development of metal ion visualization technology in metal allergy ○Endo M <sup>1</sup> , Shimada E <sup>1</sup> , Ogasawara K <sup>1</sup> ( <sup>1</sup> Dept. of Immunobiol., Grad. Sch. of Dent., Tohoku Univ.)
<b>O-95</b>	The protective effect of Igusa extract for dental caries and periodontitis ○Murakami K <sup>1</sup> , Hoshino Y <sup>2</sup> , Hirota K <sup>1</sup> , Miyake Y <sup>1</sup> ( <sup>1</sup> Dept. of Oral Microbiol., Tokushima Univ. Grad. Sch. of Health Biosci., <sup>2</sup> Dept. of Hygiene and Oral Health Sci., Tokushima Univ. Grad. Sch. of Health Biosci.)
<b>O-96</b>	A transcriptional roadmap to the differentiation and senescence of human oral keratinocytes ○Bhawal U <sup>1,4</sup> , Kobayashi R <sup>2</sup> , Fukuoka CY <sup>1</sup> , Abiko Y <sup>1</sup> ( <sup>1</sup> Dept. of Biochem. & Mol. Biol., Nihon Univ. Sch. of Dent. at Matsudo, <sup>2</sup> Dept. of Oral Immunol., Nihon Uni. Sch. of Dent. at Matsudo)
<b>O-97</b>	Effect of nicotine induction of CCN2/CTGF on fibrosis in human periodontal tissue cells ○Igarashi H <sup>1,4</sup> , Kubota S <sup>2</sup> , Tachibana T <sup>3</sup> , Murakashi E <sup>1</sup> , Okabe M <sup>4</sup> , Takigawa M <sup>2</sup> , Numabe Y <sup>1</sup> ( <sup>1</sup> Dept. of Perio., Nippon Dent. Univ., <sup>2</sup> Dept. of Biochem. & Mol. Biol., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>3</sup> Core Res., Jikei Univ., <sup>4</sup> Dept. of Anat., Jikei Univ.)
<b>O-98</b>	Masseter muscle activity during awake state, non-REM sleep and REM sleep in mice ○Katayama K <sup>1,2</sup> , Mochizuki A <sup>1</sup> , Kato T <sup>3</sup> , Ikeda M <sup>2</sup> , Nogawa Y <sup>1,2,4</sup> , Nakamura S <sup>1</sup> , Nakayama K <sup>1</sup> , Yazawa I <sup>1</sup> , Baba K <sup>2</sup> , Inoue T <sup>1</sup> ( <sup>1</sup> Dept. of Oralphys., Showa Univ. Sch. of Dent, <sup>2</sup> Dept. of Prosth., Showa Univ. Sch. of Dent, <sup>3</sup> Dept. of Anat and Neurobiol., Osaka Univ. Grad. Sch. of Dent., <sup>4</sup> Dept. of Partial Prosth., Tokyo. Med. and Dent. Univ. Grad. Sch. of Med. and Dent.)
<b>O-99</b>	Effects of alterations of occlusal vertical dimension on the neuronal regulation of isometric contraction of masseter muscles during clenching ○Fujinami Y <sup>1</sup> , Tanaka Y <sup>1</sup> , Kang Y <sup>1</sup> ( <sup>1</sup> Dept. Neurosci. & Oral Physiol., Osaka Univ. Grad. Sch. Dent.)
<b>O-100</b>	Experimentally induced rhythmic jaw movements in naturally sleeping animals ○Kato T <sup>1</sup> , Yamada K <sup>2</sup> , Higashiyama M <sup>3</sup> , Fatema A <sup>1</sup> , Haque T <sup>1</sup> , Kogo M <sup>2</sup> , Yoshida A <sup>1</sup> ( <sup>1</sup> Dept. of Oral Anat. & Neurobiol., Osaka Univ. Grad. Sch. of Dent., <sup>2</sup> Dept. of Oral & Maxillofac. Surg. 1, Osaka Univ. Grad. Sch. of Dent., <sup>3</sup> Dept. of Fixed Prosthodont. 1, Osaka Univ. Grad. Sch. of Dent.)
<b>O-101</b>	Modification of synaptic strength through the microglial cathepsin S rhythmicity ○Hayashi Y <sup>1</sup> , Okada R <sup>1</sup> , Wu Z <sup>1</sup> , Nakanishi H <sup>1</sup> ( <sup>1</sup> Dept. of Aging Sci & Pharmacol, Fac. of Dent. Sci., Kyushu Univ.)
<b>O-102</b>	Chromogranin A (CGA) induces the IL-1beta production by microglia in the novel cathepsin B-dependent manner ○Wu Z <sup>1</sup> , Nakanishi H <sup>1</sup> ( <sup>1</sup> Dept. Aging Sci. Pharmacol., Fac. Dent. Sci., Kyushu Univ.)
<b>O-103</b>	Nerve injury activated microglia engulf myelinated axons in a P2Y12 signaling-dependent manner in the dorsal horn ○Naeda M <sup>1</sup> , Uemura M <sup>1</sup> , Toda I <sup>1</sup> , Takemura A <sup>1</sup> , Suwa F <sup>1</sup> ( <sup>1</sup> Dept. of Anat., Osaka Dent. Univ.)
<b>O-104</b>	Social jet-lag, a disturbance of the biological clock ○Nakamura W <sup>1</sup> , Takasu N <sup>1,3</sup> ( <sup>1</sup> Lab. of Oral Chronobiol., Osaka Univ. Grad. Sch. of Dent., <sup>2</sup> JST PRESTO, <sup>3</sup> Res. Fellow of JSPS (PD))
<b>O-105</b>	Spatial distribution profile of excitatory inputs in the insular cortex revealed by a laser scanning photostimulation technique ○Kobayashi M <sup>1</sup> , Koshikawa N <sup>1</sup> ( <sup>1</sup> Dept. of Pharmacol., Nihon Univ. Sch. of Dent.)
<b>O-106</b>	Projections from the dorsal peduncular cortex to pain-receptive trigeminal caudal subnucleus in rats ○Akhter F <sup>1</sup> , Haque T <sup>1</sup> , Sato F <sup>1</sup> , Kato T <sup>1</sup> , Yoshida A <sup>1</sup> ( <sup>1</sup> Dept. of Oral Anat. and Neurobiol., Grad. Sch. of Dent., Osaka Univ.)
<b>O-107</b>	Identification of myogenic-lineage committed cells in primary cultures derived from rat molar periodontal ligament ○Tominaga N <sup>1</sup> , Nakahara T <sup>1,2</sup> , Ishikawa H <sup>1,2</sup> ( <sup>1</sup> Dept. of Dev. & Regenerative Dent. Sch. of life Dent. Tokyo. Nippon Dent. Univ., <sup>2</sup> Dept. of NDU Life Sci. Sch. of life Dentist. Tokyo. Nippon Dent. Univ.)
<b>O-108</b>	Mechanisms of allergy-induced external root resorption during orthodontic tooth movement ○Murata N <sup>1</sup> , Ioi H <sup>1</sup> , Ouchi M <sup>1</sup> , Aijima R <sup>2</sup> , Oki Y <sup>2</sup> , Yamaza T <sup>2</sup> , Takahashi I <sup>1</sup> , Kido M <sup>2</sup> ( <sup>1</sup> Dept. of Orthodontics, Grad. Sch. of Dent. Sci., Kyushu Univ., <sup>2</sup> Dept. of Molecular Cell Biol. and Oral Anat., Grad. Sch. of Dent. Sci., Kyushu Univ.)
<b>O-109</b>	Distribution and stem cell marker expression of bone marrow derived cells in PDL ○Kaku M <sup>1</sup> , Kitami M <sup>1</sup> , Ida T <sup>1</sup> , Akiba Y <sup>1,2</sup> , Uoshima K <sup>1,2</sup> ( <sup>1</sup> Div. of Bioprosthodontics Niigata Univ. Grad. Sch. of Med. & Dent. Sci., <sup>2</sup> Niigata Univ. Med & Dent. Hosp.)

<b>O-110</b>	Histochemical assessment on bone cells after the discontinuation of bisphosphonates ○Tsuboi K <sup>1,2</sup> , Sasaki M <sup>1</sup> , Hasegawa T <sup>1</sup> , Kitagawa Y <sup>2</sup> , Amizuka N <sup>1</sup> ( <sup>1</sup> Dept. of Dev. Biom. of Hard Tissue, Hokkaido Univ. Grad. Sch. of Dent. Med., <sup>2</sup> Dept. of Dev. Oral Med. & Diag, Hokkaido Univ. Grad. Sch. of Dent. Med.)
<b>O-111</b>	Nitrogen-containing bisphosphonates inhibit cell fusion during osteoclastogenesis ○Nagaoka Y <sup>1,2</sup> , Kajiya H <sup>1</sup> , Sasaki M <sup>1,2</sup> , Naganuma K <sup>2</sup> , Tutumi T <sup>1</sup> , Fukawa T <sup>1,2</sup> , Okamoto F <sup>1</sup> , Okabe K <sup>1</sup> ( <sup>1</sup> Dept. of Physiological Sci. and Molecular Biol., Fukuoka Dent. Coll., <sup>2</sup> Dept. of Oral Maxillofacial Surgery, Fukuoka Dent. Coll.)
<b>O-112</b>	Histological mapping of minodronate by isotope microscopy and its biological effects on osteoclasts ○Sasaki M <sup>1</sup> , Hongo H <sup>1</sup> , Kobayashi S <sup>2</sup> , Yurimoto H <sup>2</sup> , Amizuka N <sup>1</sup> ( <sup>1</sup> Dept. of Dev. Biol. of Hard Tissue Hokkaido Univ. Grad. Sch. of Dent., <sup>2</sup> Cre. Res. Ins. Hokkaido Univ)
<b>O-113</b>	Bone-independent analgesic effects of non-nitrogen-containing bisphosphonates: involvement of phosphate transporters ○Shima K <sup>1</sup> , Yamamoto T <sup>1</sup> , Sugawara S <sup>2</sup> , Endo Y <sup>2</sup> ( <sup>1</sup> Div. Orthod. Dentofacial Orthopedics, Grad. Sch. Dent., Tohoku Univ., <sup>2</sup> Div. Oral Immu., Grad. Sch. Dent., Tohoku Univ. )
<b>O-114</b>	Alendronate promotes osteoblast differentiation by direct effects ○Komatsu K <sup>1</sup> , Shimada A <sup>1</sup> , Shibata T <sup>1</sup> , Nakashima K <sup>1</sup> , Amizuka N <sup>2</sup> , Nifuji A <sup>3</sup> ( <sup>1</sup> Dept. of Pharmacol., Tsurumi Univ. Sch. of Dent. Med., <sup>2</sup> Dept. of Dev. Biol. of Hard Tissue, Grad. Sch. of Dent. Med., Hokkaido Univ., <sup>3</sup> Nat. Inst. of Radiol. Sci.)
<b>O-115</b>	Uptake of zoledronate within soft-tissue cells: possible involvement of phosphate transporters ○Okada S <sup>1,2</sup> , Kiyama T <sup>1,3</sup> , Oizumi T <sup>2</sup> , Sasaki K <sup>3</sup> , Takahashi T <sup>2</sup> , Sugawara S <sup>1</sup> , Endo Y <sup>1</sup> ( <sup>1</sup> Div. of Oral Immunol., Tohoku Univ. Grad. Sch. of Dent., <sup>2</sup> Div. of Oral Maxillofacial Surgery, Tohoku Univ. Grad. Sch. of Dent., <sup>3</sup> Div. of Adv. Prosthetic Dent., Tohoku Univ. Grad. Sch. of Dent.)
<b>O-116</b>	Tbx1 regulates oral epithelial adhesion and palatal development ○Funato N <sup>1</sup> ( <sup>1</sup> Tokyo Med. & Dent. Univ., Hum. Gene Sci. Center)
<b>O-117</b>	Thermosensitive TRP channel promotes wound repair in oral epithelia ○Aijima R <sup>1,2,3</sup> , Ohsaki Y <sup>1</sup> , Zhang J <sup>1</sup> , Kitsuki T <sup>1</sup> , Murata N <sup>1</sup> , Kido M <sup>1</sup> ( <sup>1</sup> Dept. of Mol. Cell Biol. & Oral Anat., Grad. Sch. of Dent. Sci., Kyushu Univ., <sup>2</sup> Dept. of Oral & Maxillofacial Surgery, Fac. of Med., Saga Univ., <sup>3</sup> Div. of Hist. & Neuro Anat., Dept. of Anat. & Physiol., Fac. of Med., Saga Univ.)
<b>O-118</b>	Mash1 regulates the expression of GAD67 in type III cell of mouse taste bud ○Kito A <sup>1,2</sup> , Seta Y <sup>1</sup> , Toyono T <sup>1</sup> , Kataoka S <sup>3</sup> , Kakinoki Y <sup>2</sup> , Toyoshima K <sup>1</sup> ( <sup>1</sup> Dept. of Histol. and Neurobiol., Kyushu Dent. Univ., <sup>2</sup> Dept. of Special Needs and Geriatric Dent., Kyushu Dent. Univ., <sup>3</sup> Dept. of Oral Anat., Kyushu Dent. Univ.)

## ■ Poster Presentation

<b>P1-1</b>	Calcification in mandibular bone during development ○Hayashi R <sup>1</sup> , Kozuka M <sup>1</sup> , Shishido S <sup>1</sup> , Kakiuchi Y <sup>1</sup> , Henmi A <sup>1</sup> , Okata H <sup>2</sup> , Sasano Y <sup>1</sup> ( <sup>1</sup> Div. of Craniofacial Development and Regeneration, Tohoku Univ. Grad. Sch. of Dent., <sup>2</sup> Div. of Periodontol. and Endodontol., Tohoku Univ. Grad. Sch. of Dent.)
<b>P1-2</b>	Unique characteristics of Dipeptidyl–Peptidase (DPP) V and DPP7 from <i>Porphyrromonas endodontalis</i> ○Yanase A <sup>1</sup> , Ohara–Nemoto Y <sup>1</sup> , Shimoyama Y <sup>2</sup> , Kimura S <sup>2</sup> , Baba TT <sup>1</sup> , Nemoto TK <sup>1</sup> ( <sup>1</sup> Dept. of Mol. Biol., Nagasaki Univ. Sch. of Med. & Dent. Sci., <sup>2</sup> Dept. of Microbiol. & Oral Infect., Iwate Med. Univ.)
<b>P1-3</b>	Effects of liquiritigenin on RANKL–induced osteoclastogenesis ○Uchino K <sup>1</sup> , Okamoto K <sup>1</sup> , Sakai E <sup>1</sup> , Fukuma Y <sup>1</sup> , Iwatake M <sup>1</sup> , Nishishita K <sup>1</sup> , Tsykuba T <sup>1</sup> ( <sup>1</sup> Dept. of Oral Pathopharmacol., Nagasaki Univ. Grad. Sch. Biomed Sci.)
<b>P1-4</b>	Dendritic active properties in the trigeminal motoneurons ○Nakai K <sup>1</sup> , Nakamura S <sup>2</sup> , Mochizuki A <sup>2</sup> , Nakayama K <sup>2</sup> , Yazawa I <sup>2</sup> , Inoue T <sup>2</sup> ( <sup>1</sup> Showa Univ. Sch. of Dent., <sup>2</sup> Dept. of Oral Physiol., Showa Univ. Sch. of Dent.)
<b>P1-5</b>	Inhivision of angiogenesis in bone graft materials ○Seki Y <sup>1</sup> , Takahashi M <sup>1</sup> , Shimizu Y <sup>1</sup> , Oikawa M <sup>1</sup> , Kumamoto H <sup>1</sup> ( <sup>1</sup> Div. Oral Pathol. Tohoku Univ.)
<b>P1-6</b>	Histological aspects on the resorption of posterior region of mouse Meckel’s cartilage ○Kamaguchi M <sup>1</sup> , Inoue K <sup>2</sup> , Takahashi S <sup>2</sup> , Kato T <sup>2</sup> , Uekita H <sup>2</sup> , Ushijima N <sup>3</sup> , Domon T <sup>2</sup> ( <sup>1</sup> Sch. of Dent. Med., Hokkaido Univ., <sup>2</sup> Dept. of Oral Functional Anat., Grad. Sch. of Dent. Med., Hokkaido Univ., <sup>3</sup> Lab. EM, Grad. Sch. of Dent. Med., Hokkaido Univ.)
<b>P1-7</b>	Overexpression of CCN3 in cartilage negatively regulates endochondral ossification ○Kadoya K <sup>1</sup> , Hattori T <sup>2</sup> , Kuwahara M <sup>1</sup> , Ono M <sup>3</sup> , Hoshijima M <sup>2</sup> , Kuboki T <sup>3</sup> , Takigawa M <sup>2</sup> ( <sup>1</sup> Okayama Univ. Dent. Sch., <sup>2</sup> Dept. of Biochem. & Mol. Bent., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>3</sup> Dept. of Oral Rehabil. & Regener. Med., Okayama Univ. Grad. Sch. of Med. Dent & Pharm.)
<b>P1-8</b>	CBCT analysis of lingual foramen in the molar region of Japanese monkey mandible ○Hanatani K <sup>1</sup> , Shimada K <sup>2</sup> , Sato I <sup>2</sup> ( <sup>1</sup> Dept of Anat., Sch. of Life Dent. at Tokyo, Nippon Dent. Univ., <sup>2</sup> Dept of Anat., Sch. of Life Dent. at Tokyo, Nippon Dent. Univ., <sup>3</sup> Dept. of Neurol., Gross Anat. Sec. Kagoshima Univ. Grad. Sch. of Med.)
<b>P1-9</b>	Epithelial barrier impairment of oral mucosa in xerostomia patients ○Utsunomiya R <sup>1</sup> , Aijima R <sup>1,3</sup> , Yoshizumi J <sup>2</sup> , Kitsuki T <sup>2</sup> , Danjo A <sup>3</sup> , Yamashita Y <sup>3</sup> , Kido M <sup>1</sup> ( <sup>1</sup> Dept. of Molecular Cell Biol. and Oral Anat., Grad. Sch. of Dent. Sci., Kyushu Univ., <sup>2</sup> Dept. of Oral and Maxillofacial Surgery, Grad. Sch. of Dent. Sci., Kyushu Univ., <sup>3</sup> Dept. of Oral and Maxillofacial Surgery, Saga Med. Sch.)
<b>P1-10</b>	Retinoic acid relates with wnt5a signaling to induce abnormal myogenic development of tongue in fetal mice ○Liu B <sup>1</sup> , Liu H <sup>1</sup> , Xiao J <sup>1</sup> ( <sup>1</sup> Dept. of Oral Biol., Colg. of Stomatol., Dalian Med. Univ.)
<b>P1-11</b>	Retinoic acid induces myogenic differentiation in C2C12 cell line ○Liu B <sup>1</sup> , Liu H <sup>1</sup> , Xiao J <sup>1</sup> ( <sup>1</sup> Dept. of Oral Biol., Colg. of Stomatol., Dalian Med. Univ.)
<b>P1-12</b>	Expression of neuropeptide receptors the during differentiation process from mouse iPS cells to osteoblasts ○Nagao S <sup>1</sup> , Goto T <sup>2</sup> , Egusa H <sup>3</sup> , Yatani H <sup>3</sup> , Kobayashi S <sup>2</sup> , Maki K <sup>1</sup> ( <sup>1</sup> Dipt. of Stomatognathic Function Sci., Kyushu Dent.Univ., <sup>2</sup> Dept. of Anat., Kyushu Dent. Univ., <sup>3</sup> Dept. of Fixed Prosthodont., Osaka Univ. Grad. Sch. of Dent.)
<b>P1-13</b>	Histochemical study on osteocyte–derived factors in osteolytic bone metastases by MDA–MB–231 human breast cancer cells ○Yamada T <sup>1</sup> , Tsuboi K <sup>1</sup> , Hiraga T <sup>3</sup> , Yamamoto T <sup>1</sup> , Tanaka Y <sup>1</sup> , Hasegawa T <sup>1</sup> , Oda K <sup>2</sup> , Amizuka N <sup>1</sup> ( <sup>1</sup> Dept. of Dev. Biol. of Hard Tissue, Hokkaido Univ. Grad. Sch. of Dent. Med., <sup>2</sup> Dept. of Biol., Niigata Univ. Sch. of Dent., <sup>3</sup> Dept. of Histol. & Cell Biol., Matsumoto Dent. Univ.)
<b>P1-14</b>	Disrupted function of FGF23/klotho axis induces vascular ossification – Histochemical examination on aorta of <i>kl/kl</i> mice – ○Hasegawa T <sup>1</sup> , Yamada T <sup>1</sup> , Sasaki M <sup>1</sup> , Sasano Y <sup>2</sup> , Amizuka N <sup>1</sup> ( <sup>1</sup> Dept. of Dev. Biol. of Hard Tissue, Grad. Sch. of Dent., Hokkaido Univ., <sup>2</sup> Divi. of Cranio. Dev. and Reg., Tohoku Univ. Grad. Sch. of Dent.)
<b>P1-15</b>	Histochemical assessment on bone cells after the discontinuation of bisphosphonates ○Tsuboi K <sup>1,2</sup> , Sasaki M <sup>1</sup> , Hasegawa T <sup>1</sup> , Kitagawa Y <sup>2</sup> , Amizuka N <sup>1</sup> ( <sup>1</sup> Dept. of Dev. Biom. of Hard Tissue, Hokkaido.Univ.Grad. Sch. of Dent. Med., <sup>2</sup> Dept. of Dev. Oral Med. & Diag, Hokkaido Univ. Grad. Sch. of Dent. Med.)
<b>P1-16</b>	Immunohistochemical study of Nox in mice lingual papillae ○Kashiwabara Y <sup>1</sup> , Ambe K <sup>2</sup> , Kikuchi R <sup>3</sup> , Nakagawa T <sup>2</sup> , Watanabe H <sup>2</sup> ( <sup>1</sup> Dept. of Cell Biol. Oral Histol., Ohu Univ., Grad. Sch. of Dent., <sup>2</sup> Div. of Oral Histol., Dept. of Morphological Biol., Ohu Univ., Sch. of Dent., <sup>3</sup> Dept. of Oral Maxillofacial Surgery, Ohu Univ., Grad. Sch. of Dent.)
<b>P1-17</b>	Distribution patterns of tight junction and its associated proteins, occludin and claudins in mouse palatal epithelium ○Shiotsu N <sup>1,2</sup> , Kawamoto T <sup>3</sup> , Kawai M <sup>1</sup> , Torii Y <sup>2</sup> , Yamamoto T <sup>1</sup> ( <sup>1</sup> Dept. of Oral Morphol., Okayama Univ. Grad. Sch. of Med., Dent & Pharma. Sci., <sup>2</sup> Dept. of Comprehen. Dent., Okayama Univ. Grad. Sch. of Med. Dent & Pharma. Sci., <sup>3</sup> Radioisotope Res. Inst., Tsurumi Univ. Sch. of Dent. Med.)
<b>P1-18</b>	Alterations of bone matrix surrounding osteocytes and thier lacunae after administration of parathroid hormone in mice ○Hongo H <sup>1</sup> , Yamada T <sup>1</sup> , Udagawa N <sup>2</sup> , Amizuka N <sup>1</sup> ( <sup>1</sup> Dept. of Dev. Biol. of Hard Tissue Hokkaido Univ. Grad., <sup>2</sup> Dept. of Biochem., Matsumoto Dent. Univ.)
<b>P1-19</b>	Histochemical examination on bone tissue in ovariectomized leptin receptor–mutated ( <i>db/db</i> ) mice ○Tanaka Y <sup>1,2</sup> , Hasegawa T <sup>1</sup> , Yamada T <sup>1</sup> , Oda K <sup>2</sup> , Tei K <sup>2</sup> , Amizuka N <sup>1</sup> ( <sup>1</sup> Dept. Hard. Tissue, Grad. Sch. Dent. Hokkaido. Univ., <sup>2</sup> Dept. Oral and Maxillo, Grad. Hokkaido Univ., <sup>3</sup> Dev. Biochem., Grad. Niigata. Univ.)
<b>P1-20</b>	Regulation of osteoclastogenesis by galectin–9, a suppressor of inflammation, through membrane surface receptor Tim–3 ○Moriyama K <sup>1,2</sup> , Kukita A <sup>3</sup> , Uehara N <sup>1</sup> , Zhang J <sup>1</sup> , Takahashi I <sup>2</sup> , Kukita T <sup>1</sup> ( <sup>1</sup> Dept. of Mol. Cell Biol. & Oral Anat. Kyushu Univ.Fac. of Dent. Sci., <sup>2</sup> Dept. of Orthod. Kyushu Univ. Fac. of Dent. Sci., <sup>3</sup> Dept. of Microbiol. Saga Univ. Fac. of Med.)
<b>P1-21</b>	Influence of osteopontin deficiency on pulpal healing process following tooth injuries in mice ○Saito K <sup>1,2</sup> , Ohshima H <sup>1</sup> ( <sup>1</sup> Div. of Anat. and Cell Biol. of the Hard Tissue, Dept. of Tissue Regeneration and Reconstruction, Niigata Univ. Grad. Sch. of Med. and Dent. Sci., <sup>2</sup> JSPS Res. Fellow)

<b>P1-22</b>	Vesicular secretion of ATP in the rat odontoblasts ○Iwanabe E <sup>1</sup> , Goto T <sup>2</sup> , Gunjigake K <sup>1</sup> , Kataoka S <sup>2</sup> , Kuroishi K <sup>1</sup> , Ueda M <sup>1</sup> , Kobayashi S <sup>2</sup> (Dept. of Orthodontics, Kyushu Dent. Univ. Grad. Sch. of Dent., <sup>2</sup> Dept. of Anat., Kyushu Dent. Univ.)
<b>P1-23</b>	Expression and release of asporin and sclerostin in human periodontal ligament cells under the mechanical compressive force ○Ueda M <sup>1</sup> , Goto T <sup>2</sup> , Kuroishi K <sup>1</sup> , Gunjigake K <sup>1</sup> , Iwanabe E <sup>1</sup> , Kobayashi S <sup>2</sup> (Dept. of Orthodontics, Kyushu Dent. Univ. Grad. Sch. of Dent., <sup>2</sup> Dept. of Anat., Kyushu Dent. Univ.)
<b>P1-24</b>	Detection of primary cilium in periodontal ligament at normal and excessive occlusal loading state ○Ida T <sup>1</sup> , Kaku M <sup>1</sup> , Kitami M <sup>1,2</sup> , Uoshima K <sup>1,3</sup> (Div. of Bioprosthodontics, Niigata Univ. Grad. Sch. of Med. and Dent. Sci., <sup>2</sup> JSPS Res. Fellow, <sup>3</sup> Niigata Univ., Med. and Dent. Hosp.)
<b>P1-25</b>	Biological effects of occlusal loading on bone tissue around titanium implants immediately placed into extraction sockets ○Ikeda Y <sup>1</sup> , Hasegawa T <sup>2</sup> , Amizuka N <sup>2</sup> , Yokoyama A <sup>1</sup> (Dept. of Oral Func. Pros. Div. of Oral Func. Sci. Hokkaido Univ. Grad. Sch. of Dent. Med., <sup>2</sup> Dept. of Dev. Biol. of Hard Tissue, Grad. Sch. of Dent., Hokkaido Univ.)
<b>P1-26</b>	The role of miR-29 in the proliferation of C2C12 myogenic cell line ○Chikenji A <sup>1</sup> , Yamane A <sup>2</sup> , Ando H <sup>2</sup> , Gomi K <sup>1</sup> (Dept. of Periodontol., Tsurumi Univ. Sch. of Dent. Med., <sup>2</sup> Dept. of Biophysics, Tsurumi Univ. Sch. of Dent. Med.)
<b>P1-27</b>	Calcification in the bone matrix of rat calvaria during development ○Henmi A <sup>1</sup> , Okata H <sup>2</sup> , Mikami Y <sup>1</sup> , Suzuki O <sup>3</sup> , Sasano Y <sup>1</sup> (Div. of Craniofacial Development and Regeneration, Tohoku Univ. Grad. Sch. of Dent., <sup>2</sup> Div. of Periodontol. and Endodontol., Tohoku Univ. Grad. Sch. of Dent., <sup>3</sup> Div. of Craniofacial Function Engineering, Tohoku Univ. Grad. Sch. of Dent.)
<b>P1-28</b>	Influence of the mesenchymal cell to a skeletal muscle myoblast-cells sheet ○Umezawa T <sup>1</sup> , Yamane S <sup>1</sup> , Ide Y <sup>1</sup> , Abe S <sup>1</sup> (Dept. of Anat., Tokyo Dent. Coll.)
<b>P1-29</b>	Localization of Tie2 and Angiopoietin1 in tooth development ○Nakajima K <sup>1</sup> , Shibata Y <sup>2</sup> , Sawase T <sup>1</sup> , Ikeda T <sup>2</sup> (Dept. of Oral Implantol., Nagasaki Univ. Grad. Sch. of Med. Dent & Pharm., <sup>2</sup> Dept. of Oral Pathol., Nagasaki Univ. Grad. Sch. of Med. Dent & Pharm.)
<b>P1-30</b>	FACS isolation of intercalated duct cells from the adult salivary gland ○Takeyama A <sup>1</sup> , Yoshikawa Y <sup>2</sup> , Ikeo T <sup>2</sup> , Morita S <sup>1</sup> , Hieda Y <sup>3</sup> (First Dept. of the Oral and Maxillofacial Surgery, Grad. Sch. of Dent., Osaka Dent. Univ., <sup>2</sup> Dept. of Biochem., Grad. Sch. of Dent., Osaka Dent. Univ., <sup>3</sup> Biol., Sch. of Dent., Osaka Dent. Univ.)
<b>P1-31</b>	Mechanisms of allergy-induced external root resorption during orthodontic tooth movement ○Murata N <sup>1</sup> , Ioi H <sup>1</sup> , Ouchi M <sup>1</sup> , Aijima R <sup>2</sup> , Oki Y <sup>2</sup> , Yamaza T <sup>2</sup> , Takahshi I <sup>1</sup> , Kido M <sup>2</sup> (Dept. of Orthodontics, Grad. Sch. of Dent. Sci., Kyushu Univ., <sup>2</sup> Dept. of Molecular Cell Biol. and Oral Anat., Grad. Sch. of Dent. Sci., Kyushu Univ.)
<b>P1-32</b>	Differentiation potential of osteoblast from cultured C2C12 cells on zirconia disc ○Saito M <sup>1</sup> , Karakida T <sup>2</sup> , Yamamoto R <sup>2</sup> , Nagano T <sup>1</sup> , Gomi K <sup>1,2</sup> , Oida S <sup>2</sup> (Dept. of Periodontol., Tsurumi Univ. Sch. of Dent. Med., <sup>2</sup> Dept. of Biochem. and Mol. Biol. Tsurumi Univ. Sch. of Dent. Med.)
<b>P1-33</b>	Mechanism of osteoblast differentiation by Sp7 and autoregulation of Sp7 promoter ○Komori H <sup>1</sup> , Miyazaki T <sup>1</sup> , Moriishi T <sup>1</sup> (Dept. of Cell Biol., Nagasaki Univ. Grad. Sch. of Med. Dent & Pharm.)
<b>P1-34</b>	Regeneration of tooth germ structure using iPS cells ○Sakano M <sup>1</sup> , Otsu K <sup>1</sup> , Fujiwara N <sup>1</sup> , Harada H <sup>1</sup> (Dept. of Dev. Biol. & Regen. Med., Dept of Anat., Iwate Med. Univ.)
<b>P1-35</b>	The roles and distribution of Steroid hormone during the development of neocortex ○Komada M <sup>1</sup> , Ikeda Y <sup>1</sup> (Dept. of Anat., Sch. of Dent., Aichi Gakuin Univ.)
<b>P1-36</b>	Functional analysis of intraflagellar transport protein 88 in odontoblast ○Kawata K <sup>1</sup> , Takeda S <sup>1</sup> (Dept. of Anat. & Cell Biol., Yamanashi Univ. Grad. Sch. of Med. & Engin.)
<b>P1-37</b>	Runx/Cbfb signaling regulates androgen-mediated sexual dimorphism in salivary gland ○Itoh S <sup>1</sup> , Yanagita T <sup>2</sup> , Yamashiro T <sup>3</sup> (Dept. of Orthod., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>2</sup> Dept. of Orthod., Okayama Univ. Hosp., <sup>3</sup> Dept. of Orthod. & Dentofac. Orthop., Osaka Univ. Grad. Sch. of Dent.)
<b>P1-38</b>	Effects of simvastatin on osteogenic differentiation of mouse gingival fibroblast-derived iPS cells ○Okawa H <sup>1</sup> , Egusa H <sup>1</sup> , Yatani H <sup>1</sup> (Dept. of Fixed Prosthodontics, Osaka Univ. Grad. Sch. of Dent.)
<b>P1-39</b>	Histological mapping of minodronate by isotope microscopy and its biological effects on osteoclasts ○Sasaki M <sup>1</sup> , Hongo H <sup>1</sup> , Kobayashi S <sup>2</sup> , Yurimoto H <sup>2</sup> , Amizuka N <sup>1</sup> (Dept. of Dev. Biol. of Hard Tissue Hokkaido Univ Grad. Sch. of Dent., <sup>2</sup> Cre. Res. Ins. Hokkaido Univ.)
<b>P1-40</b>	Osteocytes negatively modulate osteoclastogenesis through their production of interferon-beta ○Hayashida C <sup>1</sup> , Ito J <sup>1</sup> , Nakayachi M <sup>2</sup> , Okayasu M <sup>2</sup> , Oyama Y <sup>3</sup> , Hakeda Y <sup>1</sup> , Sato T <sup>1</sup> (Div. of Oral Anat., Dept. of Human Development and Fostering, Meikai Univ. Sch. Dent., <sup>2</sup> Div. of Orthodontol., Dept. of Human Dev. and Fostering, Meikai Univ. Sch. Dent., <sup>3</sup> First Div. of Oral and Maxillofacial Surgery, Dept. of Diagnostic and Therapeutic Sci, Meikai Univ. Sch. Dent.)
<b>P1-41</b>	Role of lectin-like oxidized low-density of lipoprotein receptor-1 in regulating osteoclastogenesis and inflammatory bone destruction ○Ito J <sup>1</sup> , Nakayachi M <sup>1,2</sup> , Hayashida C <sup>1</sup> , Okayasu M <sup>1,3</sup> , Oyama Y <sup>1,4</sup> , Sato T <sup>1</sup> , Hakeda Y <sup>1</sup> (Div. of Oral Anat., Meikai Univ. Sch. Dent., <sup>2</sup> Div. of Orthodontics, Meikai Univ. Sch. Dent., <sup>3</sup> Dept. of Oral-Maxillofac. Surg., Dent. and Orthodontics, Univ. of Tokyo, <sup>4</sup> Div. of Oral Maxillofac. Surg., Meikai Univ. Sch. Dent.)
<b>P1-42</b>	Powdery diet makes a skeletal change in mouse mandibular; Analysis with Micro-3DCT imaging ○Yanagita T <sup>1</sup> , Kubota S <sup>2</sup> , Takigawa M <sup>2</sup> , Yamashiro T <sup>3</sup> (Dept. of Orthod., Okayama Univ. Hosp., <sup>2</sup> Dept. of Biochem. & Mol. Bent., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>3</sup> Dept. of Orthod. & Dentofac Orthop., Osaka Univ. Grad. Sch. of Dent.)
<b>P1-43</b>	Immunohistochemical detection of endomorphin-1 in the rat trigeminal ganglion ○Yajima T <sup>1</sup> , Sato T <sup>2</sup> , Saito M <sup>1</sup> , Ichikawa H <sup>2</sup> (Div. of Operative Dent., Grad. Sch. of Dent., Tohoku Univ., <sup>2</sup> Div. of Oral & Craniofacial Anat., Grad. Sch. of Dent., Tohoku Univ.)

<b>P1-44</b>	Observation of greater palatine canal in human maxillary bone ○Omey Y <sup>1</sup> , Fukuda M <sup>1</sup> , Noguchi T <sup>1</sup> , Kinoshita H <sup>1</sup> , Mastunaga S <sup>1</sup> , Ide Y <sup>1</sup> , Abe S <sup>1</sup> ( <sup>1</sup> Dept. of Anat., Tokyo Dent. Coll. Grad. Sch)
<b>P1-45</b>	Bilateral, asymmetric anomalies of the anterior bellies of digastric ○Yamazaki Y <sup>1</sup> , Isokawa K <sup>1,2</sup> ( <sup>1</sup> Dept. of Anat., Nihon Univ. Sch. of Dent., <sup>2</sup> Div. of Func. Morpho., Dent. Res. Cent., Nihon Univ. Sch. of Dent.)
<b>P1-46</b>	The uptake and axonal transport of Botulinum neurotoxin type A by primary afferent neurons. ○Maruhama K <sup>1</sup> , Matsuka Y <sup>2</sup> , Terayama R <sup>1</sup> , Kuboki T <sup>3</sup> , Sugimoto T <sup>1</sup> ( <sup>1</sup> Dept. of Oral Function & Anat., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>2</sup> Dept. of Fixed Prosth., Inst. of Health Biosci, Tokushima Univ. Grad. Sch., <sup>3</sup> Dept. of Oral Rehabil. & Regenerative Med., Okayama Univ. Grad. Sch. of Med. Dent & Pharm.)
<b>P1-47</b>	Analysis of biological apatite crystal orientation in posterior cortical bone of human maxilla ○Kasahara M <sup>1</sup> , Matsunaga S <sup>1</sup> , Ide Y <sup>1</sup> , Abe S <sup>1</sup> ( <sup>1</sup> Dept. of Anat., Tokyo Dent. Coll., <sup>2</sup> Tokyo Dent. Coll. Oral Health Sci. Center)
<b>P1-48</b>	Thermosensitive TRP channel promotes wound repair in oral epithelia ○Aijima R <sup>1,2,3</sup> , Ohsaki Y <sup>1</sup> , Zhang J <sup>1</sup> , Kitsuki T <sup>1</sup> , Murata N <sup>1</sup> , Kido M <sup>1</sup> ( <sup>1</sup> Dept. of Mol. Cell Biol. & Oral Anat., Grad. Sch. of Dent. Sci., Kyushu Univ., <sup>2</sup> Dept. of Oral & Maxillofacial Surgery, Fac. of Med., Saga Univ., <sup>3</sup> Div. of Hist. & NeuroAnat., Dept. of Anat. & Physiol., Fac. of Med., Saga Univ.)
<b>P1-49</b>	Evaluation of oral ulcer-induced intraoral pain hypersensitivity using newly developed behavioral assays in rats ○Hitomi S <sup>1</sup> , Ono K <sup>1</sup> , Inenaga K <sup>1</sup> ( <sup>1</sup> Div. of Physiol., Kyushu Dent. Univ. )
<b>P1-50</b>	Neural responses to tannic acid applied to the tongue recorded from the lingual and chorda tympani nerves in rats ○Mikamo S <sup>1</sup> , Kodama N <sup>2</sup> , Mitoh Y <sup>1</sup> , Kobashi M <sup>1</sup> , Minagi S <sup>2</sup> , Matsuo R <sup>1</sup> ( <sup>1</sup> Dept. of Oral Physiol., Okayama Univ. Grad. Sch. of Med., Dent and Pharm., <sup>2</sup> Dept. of Occlusal and Oral Functional Rehabilitation, Okayama Univ. Grad. Sch. of Med., Dent. and Pharm.)
<b>P1-51</b>	Age-related change in the initial component of somatosensory evoked magnetic fields by stimulation of lips ○Hihara H <sup>1</sup> , Kanataka H <sup>2</sup> , Koeda S <sup>3</sup> , Goto S <sup>4</sup> , Takahashi T <sup>4</sup> , Saito M <sup>1</sup> ( <sup>1</sup> Tohoku Univ. Grad. Sch. of Dent. Operative, <sup>2</sup> Tohoku Univ. Grad. Sch. of Dent. Liai. Cent. for Innov. Dent., <sup>3</sup> Grad. Sch. of Tokyo Med. and Dent. Univ. Oral and Maxillofac. Surg., <sup>4</sup> Tohoku Univ. Grad. Sch. of Dent. Oral and Maxillofac. Surg.)
<b>P1-52</b>	A regulatory mechanism for the excitability of the area postrema neurons via presynaptic CCK receptors ○Sugeta S <sup>1</sup> , Hirai Y <sup>1</sup> , Maezawa H <sup>1</sup> , Funahashi M <sup>1</sup> ( <sup>1</sup> Dept. of Oral Physiol. Dent., Hokaido Univ. Grad. Sch. of Dent.)
<b>P1-53</b>	Effect of GLP-1 on the reflex swallowing of the rat ○Mizutani S <sup>1</sup> , Kobashi M <sup>1</sup> , Fujita M <sup>1</sup> , Mitoh Y <sup>1</sup> , Matsuo R <sup>1</sup> ( <sup>1</sup> Dept. Oral Physiol., Okayama Univ. Grad. Sch. of Med. Dent & Pharm.)
<b>P1-54</b>	Effects of autonomic activity on jaw opening reflex responses in anesthetized rabbits ○Sakai S <sup>1</sup> , Tsuji K <sup>1</sup> , Magara J <sup>1</sup> , Tsujimura T <sup>1</sup> , Inoue M <sup>1</sup> ( <sup>1</sup> Div. of Dysph Rehabil., Niigata Univ. Grad. Sch. of Med. and Dent.)
<b>P1-55</b>	The swallowing reflex is facilitated by bilateral electrical stimulation of the SLNs ○Takahashi K <sup>1,2</sup> , Kitagawa J <sup>2</sup> , Yamamura K <sup>2</sup> , Saito I <sup>1</sup> ( <sup>1</sup> Div. Orthodontics, Niigata Univ. Grad. Sch. Med. Dent. Sci., <sup>2</sup> Div. Oral Physiol., Niigata Univ. Grad. Sch. Med. Dent. Sci.)
<b>P1-56</b>	The secretion of GLP-1 from mice taste bud in response to sweet taste stimuli ○Takai S <sup>1</sup> , Yasumatsu K <sup>1</sup> , Yoshida R <sup>1</sup> , Shigemura N <sup>1</sup> , Ninomiya Y <sup>1</sup> ( <sup>1</sup> Sect. of Oral NeuroSci., Kyushu Univ., Grad. Sch. of Dent. Sci.)
<b>P1-57</b>	Iontophoretic application of A-type potassium channel blocker enhances the trigeminal ganglion neuronal excitability ○Hara N <sup>1</sup> , Takeda M <sup>1</sup> , Takahashi M <sup>1</sup> , Matsumoto S <sup>1</sup> ( <sup>1</sup> Dept. of Physiol. Sch. of Life Dent. Nippon Dent. Univ.)
<b>P1-58</b>	Expression of TRPV1 and ANO1 in rat trigeminal ganglion neurons innervating the tongue ○Kanazawa T <sup>1</sup> , Matsumoto S <sup>1</sup> ( <sup>1</sup> Dept. of Physiol., Sch. of Life Dent. at Tokyo, Nippon Dent. Univ.)
<b>P1-59</b>	The relationship anorectic effects of intraperitoneally administered L-histidine and neural activity on brain stem ○Okusha Y <sup>1,2</sup> , Hirai Y <sup>1</sup> , Funahashi M <sup>1</sup> ( <sup>1</sup> Dept. of Oral Physiol., Hokkaido Univ. Grad. Sch. Dent., <sup>2</sup> Dept. of Gerodontology, Hokkaido Univ. Grad. Sch. Dent)
<b>P1-60</b>	The circadian rhythm of clock genes, clock controlled gene and functional molecules in submandibular gland ○Uchida H <sup>1,2,3</sup> , Sakai T <sup>2</sup> , Nakamura W <sup>1</sup> ( <sup>1</sup> Lab. of Oral Chronobiol., Osaka Univ. Grad. Sch. of Dent., <sup>2</sup> Dept. of Oral-Facial Disorders, Osaka Univ. Grad. Sch. of Dent., <sup>3</sup> JSPS Res. Fellow)
<b>P1-61</b>	Effect of dexmedetomidine intraperitoneal administration on the cardiorespiratory function in neonatal rats ○Tamiya J <sup>1</sup> , Saiki C <sup>1</sup> , Ide R <sup>1</sup> , Matsumoto S <sup>1</sup> ( <sup>1</sup> Dept. of Physiol., Nippon Dent. Univ., Sch. Life Dent.)
<b>P1-62</b>	Alkaline sensitivity in rat odontoblasts ○Tsumura M <sup>1</sup> , Sato M <sup>1</sup> , Sobhan U <sup>1</sup> , Kodama S <sup>1</sup> , Shimada M <sup>2</sup> , Nishiyama A <sup>3</sup> , Tazaki M <sup>1</sup> , Shibukawa Y <sup>1</sup> ( <sup>1</sup> Dept. of Physiol., Tokyo Dent. Coll., <sup>2</sup> Dept. of Clin. Oral Health Sci., Tokyo Dent. Coll., <sup>3</sup> Dept. of Oral Med., Tokyo Dent. Coll.)
<b>P1-63</b>	Electrophysiological and morphological characteristics of gamma motor neurons in the rat trigeminal motor nucleus ○Nishimura K <sup>1,2</sup> , Isogai Y <sup>1,2</sup> , Saito M <sup>1</sup> , Sato H <sup>1</sup> , Toyoda H <sup>1</sup> , Yamashiro T <sup>2</sup> , Kang Y <sup>1</sup> ( <sup>1</sup> Dept. of Neurosci. & Oral. Phys., Osaka Univ. Grad. Sch. of Dent., <sup>2</sup> Dept. of Orthod. & Dentofacial Orthop., Osaka Univ. Grad. Sch. of Dent.)
<b>P1-64</b>	The effect of endogenous leptin and endocannabinoids on sweet taste sensitivity in mice with different circulating leptin levels ○Niki M <sup>1</sup> , Jyotaki M <sup>1</sup> , Yoshida R <sup>1</sup> , Ninomiya Y <sup>1</sup> ( <sup>1</sup> Sect. of Oral Neurosci., Grad. Sch. of Dent. Sci., Kyushu Univ.)
<b>P1-65</b>	The regulative effect of gastric-acid inhibitor Nizatidine in salivary secretion ○Ueda H <sup>1</sup> , Suga M <sup>2</sup> , Yagi T <sup>1</sup> , Miyawaki S <sup>2</sup> ( <sup>1</sup> Dept. of Orthodontics, Kagoshima Univ. Hosp., <sup>2</sup> Dept. of Orthodontics & Dentofacial Orthopedics, Kagoshima Univ. Grad. Sch. of Med. & Dent. Sci)

<b>P1-66</b>	Effects of ethanol and acetaldehyde on neurons of the thirst center in rat ○Ujihara I <sup>1,2</sup> , Hitomi S <sup>2</sup> , Ono K <sup>2</sup> , Kakinoki Y <sup>1</sup> , Inenaga K <sup>2</sup> (1Kyushu Dent. Univ. Div. of Special Needs and Gerodont., 2Kyushu Dent. Univ. Div. of Physiol.,)
<b>P1-67</b>	The localization of parasympathetic vasodilator fibers related to hemodynamics in rat salivary gland ○Sato T <sup>1</sup> , Iishii H <sup>1</sup> (1Div. of Physiol., Dept. of Oral Biol., Sch. Dent., Health Sci. Univ. Hokkaido)
<b>P1-68</b>	Somatostatin facilitate the excitability of nociceptive cervical dorsal horn neuron via disinhibition of GABAergic interneuron. ○Takahashi M <sup>1</sup> , Takeda M <sup>1</sup> , Matsumoto S <sup>1</sup> (Dept. of Physiol, Sch. of Life Dent. at Tokyo, Nippon Dent. Univ.)
<b>P1-69</b>	Property of voluntary control of lip-closing force using visual-feedback ○Miyamoto T <sup>1</sup> , Sasayama C <sup>2</sup> , Kato T <sup>3</sup> , Yamada K <sup>1</sup> , Masuda Y <sup>2</sup> (Dept. of Hard Tissue Res., Grad. Sch. of Oral Med. Matsumoto Dent. Univ., 2Dept. of Oral and Maxillofacial Biol., Grad. Sch. of Oral Med., Matsumoto Dent. Univ., 3Dept. of Oral Anat. and Neurobiol., Grad. Sch. of Dent., Osaka Univ.)
<b>P1-70</b>	Involvement of Connexin43 in facial ectopic hyperalgesia following inferior alveolar nerve injury ○Kaji K <sup>1,2</sup> , Shinoda M <sup>2</sup> , Shimizu N <sup>1</sup> , Iwata K <sup>2</sup> (1Dept. of Orthodontics., Nihon Univ. Sch. of Dent., 2Dept. of Physiol., Nihon Univ. Sch. of Dent.)
<b>P1-71</b>	Size distribution of alpha and gamma motor neuron in the rat trigeminal motor nucleus ○Isogai Y <sup>1,2</sup> , Yamashiro T <sup>2</sup> , Kang Y <sup>1</sup> (Dept. of Neurosci & Oral Phys., Osaka Univ. Sch. of Dent., 2Dept. of Orthod. & Dentofacial Orthop., Osaka Univ. Grad. of Dent.)
<b>P1-72</b>	Effect of nicotine induction of CCN2/CTGF on fibrosis in human periodontal tissue cells ○Igarashi H <sup>1,4</sup> , Kubota S <sup>2</sup> , Tachibana T <sup>3</sup> , Murakashi E <sup>1</sup> , Okabe M <sup>4</sup> , Takigawa M <sup>2</sup> , Numabe Y <sup>1</sup> (1Dept. of Perio., Nippon Dent. Univ., 2Dept. of Biochem. & Mol. Bent., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm., 3Core Res., Jikei Univ., 4Dept. of Anat., Jikei Univ.)
<b>P1-73</b>	Early behaviors of transplanted cells and the effect of HSP27 over expression on osteoblasts ○Kitami M <sup>1,3</sup> , Kaku M <sup>1</sup> , Ida T <sup>1</sup> , Akiba Y <sup>1,2</sup> , Uoshima K <sup>1,2</sup> (1Div. of Bioprosthodontics Niigata Univ. Grad. Sch. of Med. & Dent. Sci., 2Med. and Dent. Hospital, Niigata Univ., 3JSPS Res. Fellow)
<b>P1-74</b>	miRNA-720 regulates stem cell phenotype, proliferation and differentiation of dental pulp cells ○Hara ES <sup>1</sup> , Ono M <sup>1</sup> , Pham HT <sup>1</sup> , Kuboki T <sup>1</sup> (Dept. of Oral Rehab. & Reg. Med, Okayama Univ. Grad. Sch. of Med. Dent. & Pharm.)
<b>P1-75</b>	Roles of osteocalcin in the differentiation and maturation of adipocytes ○Otani T <sup>1</sup> (1Div. of Biochem., Inst. of Dent. Sci., Univ. of Kyushu)
<b>P1-76</b>	CXCL3 positively regulates adipogenic differentiation ○Kusuyama J <sup>1</sup> , Bandow K <sup>1</sup> , Kakimoto K <sup>1</sup> , Ohnishi T <sup>1</sup> , Matsuguchi T <sup>1</sup> (1Dept. of Oral Biochem, Kagoshima Univ. Grad. Sch. of Med & Dent., 2Res. Fellow of the Japan Society for the Promotion of Sci.)
<b>P1-77</b>	Involvement of the cerebral pericytes and the subsequent infiltration of peripheral immune cells in the neuropathological changes of cathepsin D-deficient mice ○Okada R <sup>1</sup> , Wu Z <sup>1</sup> , Nakanishi H <sup>1</sup> (1Dept. Aging Sci. Pharmacol., Fac. Dent. Sci., Kyushu Univ.)
<b>P1-78</b>	Ameloblastin inhibits the cell proliferation of oral epithelial cells ○Saito N <sup>1,2</sup> , Ariyoshi W <sup>1</sup> , Okinaga T <sup>1</sup> , Washio A <sup>2</sup> , Kitamura T <sup>2</sup> , Nishihara T <sup>1</sup> (1Div. of Infections and Molecular Biol., Kyushu Dent. Univ., 2Div. of Endodontics and Restorative Dent., Kyushu Dent. Univ.)
<b>P1-79</b>	RelB restored the inhibitory effects of osteoclast differentiation in NIK <i>aly/aly</i> mutation via RelB induced processing of NF-κB2 ○Taniguchi R <sup>1,2</sup> , Fukushima H <sup>2</sup> , Maki K <sup>1</sup> , Jimi E <sup>2</sup> (1Div. of Developmental Stomatognathic Function Sci., Dept. of Health Improvement, Kyushu Dent. Univ., 2Div. of Molecular Signaling and Biochem., Kyushu Dent. Univ.)
<b>P1-80</b>	Change of the expression of incretin receptors in MC3T3-E1 cells ○Aoyama E <sup>1</sup> , Watari I <sup>1</sup> , Inoue KA <sup>2</sup> , Yanagishita M <sup>2</sup> , Ono T <sup>1</sup> (1Orthod. Sci., Dept. of Oral Health Sci, Tokyo Med. & Dent. Univ. Grad. Sch. of Med. & Dent. Sci., 2Biochem. Dept. of Bio-Matrix, Tokyo Med. & Dent. Univ. Grad. Sch. of Med. & Dent. Sci.)
<b>P1-81</b>	Novel RNA molecules that are associated with hypertrophic differentiation of growth plate chondrocytes ○Hara C <sup>1</sup> , Kubota S <sup>1</sup> , Aoyama E <sup>1</sup> , Takigawa M <sup>1</sup> (1Dept. of Biochem. & Mol. Bent., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm.)
<b>P1-82</b>	LAMP2 is involved in the intracellular transport of RANKL ○Rajapakse A <sup>1</sup> , Podyma-Inoue K <sup>1</sup> , Yanagishita M <sup>1</sup> , Yokoyama M <sup>1</sup> (1Dept. Biochem., Tokyo Med. & Dent. Univ. Grad. Sch. of Med. & Dent.)
<b>P1-83</b>	Bioactive substances and low molecular weight of enamelin in porcine immature enamel ○Kinoshita S <sup>1</sup> , Karakida T <sup>2</sup> , Oida S <sup>2</sup> , Asada Y <sup>1</sup> , Yamakoshi Y <sup>2</sup> (1Dept. of Pediatric Dent., Tsurumi Univ., Sch. of Dent. Med., 2Dept. of Biochem. & Mol. Biol., Tsurumi Univ., Sch. of Dent. Med.)
<b>P1-84</b>	Function of CXCL12 in periodontal ligament fibroblasts ○Yashiro Y <sup>1</sup> , Nomura Y <sup>2</sup> , Ishikawa M <sup>1</sup> , Arai C <sup>1</sup> , Noda K <sup>1</sup> , Hanada N <sup>2</sup> , Nakamura Y <sup>1</sup> (1Dept. of Orthodontics, Sch. of Dent. Med., Tsurumi Univ., 2Dept. of Translational Res., Sch. of Dent. Med., Tsurumi Univ.)
<b>P1-85</b>	Roles of gap junctional intercellular communication in human periodontal ligament cells ○Kato R <sup>1</sup> , Ishihara Y <sup>2</sup> , Kawanabe N <sup>2</sup> , Kamioka H <sup>2</sup> , Takano-Yamamoto T <sup>1</sup> , Yamashiro T <sup>3</sup> (1Div. of Orthod. and Dentofacial Orthop., Tohoku Univ. Grad. Sch. Dent., 2Dept. of Orthod., Okayama Univ. Grad. Sch. Med. Dent. Pharm. Sci., 3Dept. of Orthod. and Dentofacial Orthop., Osaka Univ. Grad. Sch. Dent.)
<b>P1-86</b>	Characterization of energy metabolism and identification of biomarkers in oral squamous cell carcinoma by metabolome analysis ○Ogawa T <sup>1,2</sup> , Washio J <sup>2</sup> , Takahashi T <sup>1</sup> , Takahashi N <sup>2</sup> (1Dept. of Oral & Maxillofacial Surgery, Tohoku Univ. Grad. Sch. of Dent., 2Dept. of Oral Ecol. & Biochem., Tohoku Univ. Grad. Sch. of Dent.)
<b>P1-87</b>	Regulation of EGFR by GLUT1 in squamous cell carcinoma cells ○Yoshimoto S <sup>1,2</sup> , Nagano K <sup>1</sup> , Sugiyama G <sup>1</sup> , Morita H <sup>2</sup> , Nakamura S <sup>3</sup> , Hirata M <sup>1</sup> (1Lab. of Mol. & Biochem., Fac. of Dent. Sci., Kyushu Univ., 2Special Patient Oral Care Unit of Kyushu Univ. Hosp., 3Sect. of Oral and Maxillofac. Oncol., Div. of Maxillofac. Diag. Surg. Sci., Fac. of Dent. Sci., Kyushu Univ.)

<b>P1-88</b>	Effect of hyaluronic acid in osteoclast differentiation ○Hirota S <sup>1</sup> , Kawamoto A <sup>1</sup> , Yoshikawa Y <sup>2</sup> , Takahashi K <sup>1</sup> , Ikeo T <sup>2</sup> , Komasa Y <sup>1</sup> ( <sup>1</sup> Dept. of Geriatric Dent. Osaka Dent. Univ. Grad. Sch. of Dent., <sup>2</sup> Dept. of Biochem., Osaka Dent. Univ.)
<b>P1-89</b>	Cdc42 is essential gene for cartilage development ○Suzuki W <sup>1,2</sup> , Yamada A <sup>1</sup> , Aizawa R <sup>1,3</sup> , Suzuki D <sup>1</sup> , Nakayama M <sup>1,4</sup> , Yamamoto M <sup>3</sup> , Maki K <sup>4</sup> , Baba K <sup>2</sup> , Kamijo R <sup>1</sup> ( <sup>1</sup> Dept. of Biochem. Showa Univ. Sch. of Dent., <sup>2</sup> Dept. of Prostho. Showa Univ. Sch. of Dent., <sup>3</sup> Dept. of Perio. Showa Univ. Sch. of Dent., <sup>4</sup> Dept. of Ortho. Showa Univ. Sch. of Dent.)
<b>P1-90</b>	Cell adhesion signaling induces expression of RANK in osteoclast precursors ○Mochizuki A <sup>1</sup> , Takami M <sup>2</sup> , Miyamoto Y <sup>2</sup> , Inoue T <sup>1</sup> , Kamijo R <sup>2</sup> ( <sup>1</sup> Dept. of Oral Physiol. Showa Univ. Sch. of Dent., <sup>2</sup> Dept. of Biochem. Showa Univ. Sch. of Dent.)
<b>P1-91</b>	Application of dentin-stem cell complex to bone regeneration ○Tanaka M <sup>1,2</sup> , Kawaki H <sup>1</sup> , Oguri K <sup>1,2</sup> , Mori H <sup>2</sup> , Kamiya M <sup>1</sup> , Takayama E <sup>1</sup> , Yoshida T <sup>2</sup> , Kondoh N <sup>1</sup> ( <sup>1</sup> Dept. of Oral Biochem., Asahi Univ. Sch. of Dent., <sup>2</sup> Dept. of Endodont., Asahi Univ. Sch. of Dent.)
<b>P1-92</b>	Effect of tomosyn phosphorylation by Akt on GLUT4 translocation ○Nagano K <sup>1</sup> , Takeuchi H <sup>2</sup> , Sugiyama G <sup>1</sup> , Otani T <sup>1</sup> , Hirata M <sup>1</sup> ( <sup>1</sup> Lab. Mol. Cell. Biochem., Fac. Dent. Sci., Kyushu Univ., <sup>2</sup> Div. Appl. Pharmacol., Kyushu Dent. Univ.)
<b>P1-93</b>	The 3'-UTR-mediated gene regulation of CCN1 that controls inflammatory and tissue regeneration processes ○Murase Y <sup>1,2</sup> , Kubota S <sup>1</sup> , Maeda A <sup>1</sup> , Hara C <sup>1</sup> , Sumiyoshi K <sup>1</sup> , Nishida T <sup>1</sup> , Sasaki A <sup>2</sup> , Takigawa M <sup>1</sup> ( <sup>1</sup> Dept. of Biochem. & Mol. Bent., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm., <sup>2</sup> Dept. of Oral & Maxillofacial Surgery, Okayama Univ. Grad. Sch. of Med. Dent. & Pharm.)
<b>P1-94</b>	Adhesion of periodontitis-associated bacteria on PMMA and its modification by saliva ○Ishiguro K <sup>1,2</sup> , Washio J <sup>2</sup> , Sakuma Y <sup>1</sup> , Takeuchi Y <sup>1</sup> , Fukushima S <sup>3</sup> , Sasaki K <sup>1</sup> , Takahashi N <sup>2</sup> ( <sup>1</sup> Div. Adv. Prost. Dent. Tohoku Univ. Grad. Sch. Dent., <sup>2</sup> Div. Oral Ecol. Biochem. Tohoku Univ. Grad. Sch. Dent., <sup>3</sup> Dept. of Next-gener. Dent. Mater. Res.)
<b>P1-95</b>	Wnt5a-Ror2 signals regulate osteoclastic bone-resorbing activity through Rho activation ○Uehara S <sup>1</sup> , Udagawa N <sup>1</sup> , Takahashi N <sup>2</sup> , Kobayashi Y <sup>2</sup> ( <sup>1</sup> Dept. of Biochem. Matsumoto Dent. Univ., <sup>2</sup> Inst. for Oral Sci. Matsumoto Dent. Univ.)
<b>P1-96</b>	Possible roles of dentin particles on the stem cell activities ○Oguri K <sup>1,2</sup> , Kawaki H <sup>1</sup> , Tanaka M <sup>1,2</sup> , Mori H <sup>2</sup> , Kamiya M <sup>1</sup> , Takayama E <sup>1</sup> , Yoshida T <sup>2</sup> , Kondoh N <sup>1</sup> ( <sup>1</sup> Dept. of Oral Biochem., Asahi Univ. Sch. of Dent., <sup>2</sup> Dept. of Endodont., Asahi Univ. Sch. of Dent.)
<b>P1-97</b>	Effects of carbonate apatite on the adhesion and proliferation of rat bone marrow derived stromal cells ○Takahashi J <sup>1,2</sup> , Kawaki H <sup>1</sup> , Onoe I <sup>1,2</sup> , Kondo Y <sup>1,2</sup> , Kamiya M <sup>1</sup> , Takayama E <sup>1</sup> , Nagahara K <sup>2</sup> , Kondoh N <sup>1</sup> ( <sup>1</sup> Dept. of Oral Biochem., Asahi Univ. Sch. of Dent., <sup>2</sup> Dept. of Oral & Maxillofacial Implantol., Asahi Univ. Sch. of Dent.)
<b>P1-98</b>	Effects of carbonate apatite on osteoblast proliferation and differentiation ○Kondo Y <sup>1,2</sup> , Kawaki H <sup>1</sup> , Onoe I <sup>1,2</sup> , Takahashi J <sup>1,2</sup> , Kamiya M <sup>1</sup> , Takayama E <sup>1</sup> , Nagahara K <sup>2</sup> , Kondoh N <sup>1</sup> ( <sup>1</sup> Dept. of Oral Biochem., Asahi Univ. Sch. of Dent., <sup>2</sup> Dept. of Oral & Maxillofacial Implantol., Asahi Univ. Sch. of Dent.)
<b>P1-99</b>	Dexamethasone increases the phosphate content in and hardness of mineralized nodules formed by osteoblasts ○Miyamoto S <sup>1,2</sup> , Miyamoto Y <sup>1</sup> , Maki K <sup>2</sup> , Kamijo R <sup>1</sup> ( <sup>1</sup> Dept. of Biochem, Sch. of Dent, Showa Univ., <sup>2</sup> Dept. of Orthodont, Sch. of Dent., Showa Univ.)
<b>P1-100</b>	Sphingomyelin synthase of osteoblasts (SMS) 2 effect of osteoclast differentiation ○Kayama T <sup>1</sup> , Yoshikawa Y <sup>2</sup> , Ikeo T <sup>2</sup> , Okazaki J <sup>1</sup> ( <sup>1</sup> Dept. of Removable Prosthodontics., Osaka Dent. Univ., <sup>2</sup> Dept. of Biochem., Osaka Dent. Univ.)
<b>P1-101</b>	Suppressive effects of mouse OSCC cell lines on IFN-gamma producing capability of host spleens cells ○Inagaki T <sup>1</sup> , Kamiya M <sup>2</sup> , Kawaki H <sup>2</sup> , Kawaki H <sup>2</sup> , Takayama E <sup>2</sup> , Muramatsu Y <sup>1</sup> , Kondoh N <sup>2</sup> ( <sup>1</sup> Dept. of Oral Maxillofacial Surg., Asahi Univ. Sch. Dent., <sup>2</sup> Dept. of Oral Biochem., Asahi Univ. Sch. Dent., <sup>3</sup> Dept. of Anesthesiol., Asahi Univ. Sch. Dent.)
<b>P1-102</b>	Relationship between migraine and malocclusion ○Saruta J <sup>1</sup> , To M <sup>1</sup> , Hayashi T <sup>1</sup> , Shimizu T <sup>1</sup> , Yamamoto Y <sup>1</sup> , Matsuki C <sup>1</sup> , Kawashima R <sup>2</sup> , Kondo Y <sup>1,3</sup> , Tsukinoki K <sup>1</sup> ( <sup>1</sup> Dept. of Environ. Pathol., Kanagawa Dent. Univ. Grad. Sch., <sup>2</sup> Dept. of Oral & Maxillo., Jichi Med. Univ., <sup>3</sup> Dept. of Pathol., Tokai Univ. Sch. of Med.)
<b>P1-103</b>	Role of TrkB expression in rat adrenal gland during acute immobilization stress ○Kondo Y <sup>1,2</sup> , To M <sup>2</sup> , Saruta J <sup>2</sup> , Hayashi T <sup>2</sup> , Matsuki C <sup>2</sup> , Yamamoto Y <sup>2</sup> , Shimizu T <sup>2</sup> , Kawashima R <sup>3</sup> , Tsukinoki K <sup>2</sup> ( <sup>1</sup> Dept. of Pathol., Tokai Univ. Sch. of Med., <sup>2</sup> Dept. of Environmental Pathol., Grad. Sch. of Kanagawa Dent. Univ., <sup>3</sup> Dept. of Dent., Oral and Maxillofacial Surgery, Grad. Sch. of Jichi Med. Univ.)
<b>P1-104</b>	Analysis of hBD-2-induced expression in human periodontal gingiva ○To M <sup>1</sup> , Shimizu T <sup>1</sup> , Saruta J <sup>1</sup> , Sato T <sup>2</sup> , Kondo Y <sup>1,3</sup> , Hayashi T <sup>1</sup> , Yamamoto Y <sup>1</sup> , Matsuki C <sup>1</sup> , Hamada N <sup>2</sup> , Tsukinoki K <sup>1</sup> ( <sup>1</sup> Dept. of Environ. Pathol., Grad. Sch. of Kanagawa Dent. Univ., <sup>2</sup> Dept. Microbiol. & Infect., Grad. Sch. of Kanagawa Dent. Univ., <sup>3</sup> Dept. of Pathol., Tokai Univ. Sch. of Med.)
<b>P1-105</b>	Roles of IL-1 in prolonged murine masseter muscle activity ○Chiba K <sup>1</sup> , Yoneda H <sup>2</sup> , Sugawara S <sup>3</sup> , Endo Y <sup>3</sup> ( <sup>1</sup> Div. Aging Geriatr. Dent., Tohoku Univ. Sch. Dent., <sup>2</sup> Div. of Adv. Prostho. Dent., Tohoku Univ. Sch. Dent., <sup>3</sup> Div. of Oral Mol. Regul., Tohoku Univ. Sch. Dent.)
<b>P1-106</b>	HBD-2 or IL-1beta expression level as a response to challenge with <i>Porphyromonas gingivalis</i> using <i>in vivo</i> experimental model of human gingiva with periodontitis ○Shimizu T <sup>1</sup> , Tou M <sup>1</sup> , Kawashima R <sup>2</sup> , Hayashi T <sup>1</sup> , Saruta J <sup>1</sup> , Sato T <sup>3</sup> , Kondo Y <sup>4</sup> , Yamamoto Y <sup>1</sup> , Hamada N <sup>3</sup> , Tsukinoki K <sup>1</sup> ( <sup>1</sup> Dept. of Environ. Pathol., Grad. Sch. of Kanagawa Dent. Univ., <sup>2</sup> Dept. of Dent. Oral. & Maxillofac. Surg., Grad. Sch. of Jichi Med. Univ., <sup>3</sup> Dept. Microbiol. & Infect., Grad. Sch. of Kanagawa Dent. Univ., <sup>4</sup> Dept. of Pathol., Tokai Univ. Sch. of Med.)
<b>P1-107</b>	CCN3 is an inhibitory factor in bone regeneration ○Matsushita Y <sup>1,2,3</sup> , Sakamoto K <sup>1</sup> , Minamizato T <sup>1,4</sup> , Haada K <sup>2</sup> , Yamaguchi A <sup>1</sup> ( <sup>1</sup> Oral Pathol., Grad. Sch. of Med. Dent., Tokyo Med. and Dent. Univ., <sup>2</sup> Maxillofac. Surg., Grad. Sch. of Med. Dent., Tokyo Med. and Dent. Univ., <sup>3</sup> Clinic. Oral Oncol., Nagasaki Univ. Grad. Sch. of Biomed. Sci., <sup>4</sup> Regen. Oral Surg., Nagasaki Univ. Grad. Sch. of Biomed. Sci.)
<b>P1-108</b>	Wound healing of the rat salivary gland using collagen gel ○Kobayashi F <sup>1,2</sup> , Inoue T <sup>1,2</sup> ( <sup>1</sup> Dept. of Oral Health Sci. Center, Tokyo Dent. Coll., <sup>2</sup> Dept. of Clinical Pathophygiol., Tokyo Dent. Coll.)

<b>P1-109</b>	The effect of bisphosphonate on the bone formation after extraction in ovariectomized rats. ○Yamazaki T <sup>1</sup> , Hiruma N <sup>1</sup> , Miake Y <sup>1</sup> , Moriguti M <sup>1</sup> , Sawada T <sup>1</sup> , Yamamoto H <sup>1</sup> , Yanagisawa T <sup>1</sup> (Dept. of Ultrastructure Sci., Tokyo Dent. Coll.)
<b>P1-110</b>	Resin monomers promote allergies induced by dental materials-contained allergens in mice ○Bando K <sup>1,2</sup> , Tanaka Y <sup>1,3</sup> , Kuroishi T <sup>1</sup> , Yamamoto T <sup>2</sup> , Sugawara S <sup>1</sup> , Endo Y <sup>1</sup> (Dept. of Molecular Regulation, Tohoku Univ. Grad. Sch. of Dent., <sup>2</sup> Div. Orthod. Dentofacial Orthopedics, Grad. Sch. Dent, Tohoku Univ., <sup>3</sup> Liaison Cent. for Inno. Dent., Grad. Sch. Dent, Tohoku. Univ.)
<b>P1-111</b>	Profiling of DNA methylation in periodontal fibroblasts stimulated with LPS ○Takai R <sup>1</sup> , Uehara O <sup>2</sup> , Chujo T <sup>1</sup> , Satoh H <sup>1</sup> , Yoshida K <sup>1</sup> , Sato J <sup>1</sup> , Nishimura M <sup>1</sup> , Arakawa T <sup>3</sup> , Takuma T <sup>3</sup> , Abiko Y <sup>1</sup> (Div. of Oral Med. and Pathol. HSUH. Sch. Dent., <sup>2</sup> Div. of Disease Cont. and Mol. Epidemiol. HSUH. Sch. Dent., <sup>3</sup> Div. of Oral Biochem. HSUH. Sch. Dent.)
<b>P1-112</b>	Understanding the system of tumor immunity by using mouse models of autoimmune disease ○Kondo T <sup>1</sup> , Yamada A <sup>1</sup> , Arakaki R <sup>1</sup> , Kudo Y <sup>1</sup> , Ishimaru N <sup>1</sup> (Dept. of Oral Mol. Path. Inst. of Health Biosci. The Univ. of Tokushima Grad. Sch.)
<b>P1-113</b>	Nuclear long non-coding RNA -And its role in salivary gland tumors- ○Hokazono C <sup>1</sup> , Irie T <sup>1</sup> , Yasuhara R <sup>1</sup> , Tnaka T <sup>1</sup> , Mishima K <sup>1</sup> (Div. of Pathol., Dept. of Oral. Diag. Sci., Sch. of Dent., Showa Univ.)
<b>P1-114</b>	The possibility that human papillomavirus (HPV) infection participates in malignant transformation of oral lichen planus (OLP) ○Kato S <sup>1</sup> , Kawai R <sup>1</sup> , Torii R <sup>1</sup> , Honda Y <sup>1</sup> , Kato I <sup>1</sup> , Yoshida W <sup>1,2</sup> , Sugita Y <sup>1,2</sup> , Sato E <sup>1,2</sup> , Kubo K <sup>1,2</sup> , Maeda H <sup>1,2</sup> (Dept. of Oral Pathol., Aichi-Gakuin Univ. Sch. of Dent., <sup>2</sup> Center of Adv. Oral Sci., Aichi-Gakuin Univ.)
<b>P1-115</b>	Comparison of in vitro invasion between squamous cell carcinoma cell lines with different metastatic potential in the tongue ○Liu H <sup>1</sup> , Liu B <sup>1</sup> , Xiao J <sup>1</sup> (Dept. of Oral Biol., Colg. of Stomatol., Dalian Med. Univ.)
<b>P1-116</b>	Analysis the role of secreted growth factors on stromal tissue in ameloblastoma ○Takebe Y <sup>1</sup> , Tsujigiwa H <sup>1</sup> , Yu S <sup>1</sup> , Fujii M <sup>1</sup> , Kawai H <sup>1</sup> , Tamamura R <sup>2</sup> , Sasaki A <sup>3</sup> , Nagatsuka H <sup>1</sup> (Dept. of Oral Path., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>2</sup> Dept. of Oral Maxillofacial Surg., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>3</sup> Dept. of Hist., Cyt. and Dev. Anat. Nihon Univ. Sch. of Dent. Matsudo)
<b>P1-117</b>	Examination of relationship between brain transition and antioxidant activity in hypoglossal absorption of lactoferrin ○Hayashi T <sup>1</sup> , Yamamoto Y <sup>1</sup> , Yoshino F <sup>2</sup> , Yoshida A <sup>2</sup> , Saruta J <sup>1</sup> , To M <sup>1</sup> , Kondo Y <sup>1,3</sup> , Kawashima R <sup>4</sup> , Lee MC <sup>2</sup> , Tsukinoki K <sup>1</sup> (Dept. of Environ. Pathol., Grad. Sch. of Kanagawa Dent. Univ., <sup>2</sup> Dept. of Oral Sci., Grad. Sch. of Kanagawa Dent. Univ., <sup>3</sup> Dept. of Pathol., Tokai Univ. Sch. of Med., <sup>4</sup> Dept. of Dent. Oral. & Maxillofac. Surg., Grad. Sch. of Jichi Med. Univ.)
<b>P1-118</b>	F-spondin protects periodontal hard tissue from resorption ○Oka H <sup>1</sup> , Kitagawa M <sup>2</sup> , Takata T <sup>1,3</sup> (Dept. of ICDD, Hiroshima Univ. Inst. of Biomed. & Health Sci., <sup>2</sup> Center of Oral Clinical Exam., Hiroshima Univ. Hosp., <sup>3</sup> Dept. of Oral and Maxillofacial Pathobio., Hiroshima Univ. Inst. of Biomed. & Health Sci.)
<b>P1-119</b>	Expression of PTEN and Smad4 signaling in salivary gland tumors ○Liu H <sup>1</sup> , Liu B <sup>1</sup> , Xiao J <sup>1</sup> (Dept. of Oral Biol., Colg. of Stomatol., Dalian Med. Univ.)
<b>P1-120</b>	Analysis of effect of MDP for LPS-induced osteoclast formation ○Ishida M <sup>1</sup> , Kitaura H <sup>1</sup> , Kimura K <sup>1</sup> , Takada H <sup>2</sup> , Takano-Yamamoto T <sup>1</sup> (Dept. of Ortho & Dent Orthop, Tohoku Univ. Grad. Sch. of Dent., <sup>2</sup> Dept. of Oral Biol., Tohoku Univ. Grad. Sch. of Dent.)
<b>P1-121</b>	Novel mechanisms involved in regulation of osteoclastogenesis via curdlan-dectin-1 signaling ○Yamasaki T <sup>1,2</sup> , Ariyoshi W <sup>1</sup> , Okinaga T <sup>1</sup> , Hosokawa R <sup>2</sup> , Nishihara T <sup>1</sup> (Dept. of Infections & Molecular Biol., Kyushu Dent. Univ. , <sup>2</sup> Dept. of Oral Reconstruction & Rehabilitation, Kyushu Dent. Univ.)
<b>P1-122</b>	The effects of <i>V. parvula</i> 's supernatant for the biofilm formation of <i>S. sanguinis</i> ○Mashima I <sup>1</sup> , Kamaguchi A <sup>1</sup> , Miyakawa H <sup>1</sup> , Fujita M <sup>1</sup> , Nakazawa F <sup>1</sup> (Dept. Oral Microbiol., Sch. of Dent., Health. Sci. Univ. Hokkaido)
<b>P1-123</b>	Participation on quorum sensing on coaggregation of <i>Streptococcus mutans</i> and <i>Fusobacterium nucleatum</i> ○Ryu Y <sup>1</sup> , Mikami M <sup>2</sup> , Katsuragi H <sup>2</sup> , Shimomura-Kuroki J <sup>1</sup> (Dept. of Pediatric Dent., Nippon Dent. Univ. Sch. Life. Dent. at Niigata., <sup>2</sup> Dept. of Microbiol., Nippon Dent. Univ. Sch. Life. Dent. at Niigata.)
<b>P1-124</b>	Construction of a plasmid vector for electrotransformation of <i>Porphyromonas gingivalis</i> ○Tagawa J <sup>1</sup> , Inoue T <sup>2</sup> , Sato K <sup>3</sup> , Naito M <sup>3</sup> , Nakayama M <sup>2</sup> , Nakayama K <sup>2</sup> , Yamashiro T <sup>1</sup> , Ohara N <sup>2</sup> (Dept. of Ortho., Okayama Univ. Hosp., <sup>2</sup> Dept. of Microbiol., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm., <sup>3</sup> Dept. of Microbiol. & Oral Infect., Nagasaki Univ. Grad. Sch. of Biomed. Sci., <sup>4</sup> Dept. of Ortho. & Dent. Orthoped., Osaka Univ. Grad. Sch. of Dent.)
<b>P1-125</b>	<i>Porphyromonas gingivalis</i> PGN_1796 is involved in drug sensitivity ○Taguchi Y <sup>1</sup> , Sato K <sup>4</sup> , Inoue T <sup>2</sup> , Kano K <sup>3</sup> , Nakayama M <sup>2</sup> , Maeda H <sup>1</sup> , Nakayama K <sup>4</sup> , Ohara N <sup>2</sup> (Dept. Pathophysiol. Periodontal Sci. Okayama Univ. Grad. Sch. of Med. Dent. & Pharm., <sup>2</sup> Dept. of Microbiol., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm., <sup>3</sup> Dept. of Orthodont., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm., <sup>4</sup> Dept. of Microbiol. & Oral Infect., Nagasaki Univ. Grad. Sch. of Biomed. Sci.)
<b>P1-126</b>	Inhibitory effects of new plant extract component on oral microorganisms ○Ohya M <sup>1</sup> , Tamura M <sup>1,2</sup> , Imai K <sup>1,2</sup> , Ochiai K <sup>1,2</sup> (Dept. Microbiol., Nihon Univ. Sch. Dent., <sup>2</sup> Div. Immunol. Pathobiol., Res. Cent., Nihon Univ. Sch. Dent.)
<b>P1-127</b>	Analysis of bacterial flora in dental calculus by next-generation sequencer ○Jo R <sup>1</sup> , Kumata N <sup>1</sup> , Ishimaru H <sup>1</sup> , Morishima S <sup>2</sup> , Kon R <sup>1</sup> (Analytical Technol. Res. Center, Lion Corporation, <sup>2</sup> The Lion Foundation for Dental Health)
<b>P1-128</b>	Extracellular nuclease from <i>Streptococcus sanguinis</i> contributes to evasion of innate immunity ○Sumioka R <sup>1</sup> , Morita C <sup>1</sup> , Nakata M <sup>1</sup> , Okahashi N <sup>2</sup> , Sumitomo T <sup>1</sup> , Kawabata S <sup>1</sup> (Dept. of Oral and Mol. Microbiol., Grad. Sch. of Dent., Osaka Univ., <sup>2</sup> Oral Frontier Center, Grad. Sch. of Dent., Osaka Univ.)



<b>P1-129</b>	<p>PGN<sub>1202</sub> (<i>rhoN</i>) is an essential gene in <i>Porphyromonas gingivalis</i></p> <p>○Kano K<sup>1</sup>, Inoue T<sup>2</sup>, Taguchi Y<sup>3</sup>, Tagawa J<sup>4</sup>, Nakayama M<sup>2</sup>, Yamashiro T<sup>5</sup>, Ohara N<sup>2</sup> (<sup>1</sup>Dept. of Ortho, Okayama Univ. Grad. Sch. of Med. Dent &amp; Pharm., <sup>2</sup>Dept. of Oral Microbiol., Okayama Univ. Grad. Sch. of Med. Dent &amp; Pharm., <sup>3</sup>Dept. of Periodontal Sci., Okayama Univ. Grad. Sch. of Med. Dent &amp; Pharm., <sup>4</sup>Dept. of Ortho., Okayama Univ. Hosp., <sup>5</sup>Dept. of Ortho. &amp; Dent. Orthoped., Osaka Univ. Grad. Sch. of Dent.)</p>
<b>P1-130</b>	<p>Activation of inflammasome by <i>Streptococcus sanguinis</i></p> <p>○Saeki A<sup>1</sup>, Sugiyama M<sup>1</sup>, Hasebe A<sup>1</sup>, Nakazawa F<sup>2</sup>, Shibata K<sup>1</sup> (<sup>1</sup>Lab. Oral Mol. Microbiol., Dept of Oral Pathbiol. Sci., Hokkaido Univ. Grad. Sch. Dent. Med. , <sup>2</sup>Dept. of Oral Microbiol. Sch. Dent. Health Sci. Univ. of Hokkaido)</p>
<b>P1-131</b>	<p>Analysis of the major outer membrane protein of <i>Treponema denticola</i></p> <p>○Abiko Y<sup>1</sup>, Nagano K<sup>1</sup>, Yoshida Y<sup>1</sup>, Yoshimura F<sup>1</sup> (<sup>1</sup>Dept. of Microbiol. Sch. of Dent. Aichi Gakuin Univ. )</p>
<b>P1-132</b>	<p>Analgesic effect of GABA transporter inhibitor on neuropathic pain in mice</p> <p>○Jinzenji A<sup>1,2</sup>, Sogawa C<sup>2</sup>, Miyawaki T<sup>1</sup>, Morita K<sup>3</sup>, Sogawa N<sup>2</sup>, Kitayama S<sup>2</sup> (<sup>1</sup>Dept. of Dent. Anesh. &amp; Spec. Care. Dentist., Okayama Univ. Grad. Sch. of Med. Dent. &amp; Pharm., <sup>2</sup>Dept. of Dent. Pharmacol., Okayama Univ. Grad. Sch. of Med. Dent. &amp; Pharm., <sup>3</sup>Dept. of Pharmacol., Fac. of Nursing, Hiroshima Bunka Gakuen Univ.)</p>
<b>P1-133</b>	<p>Function of Na,K-ATPase in osteoblasts</p> <p>○Yamada J<sup>1</sup>, Deyama Y<sup>2</sup>, Yoshimura Y<sup>2</sup>, Suzuki K<sup>2</sup>, Yawaka Y<sup>1</sup> (<sup>1</sup>Dept. of Dent. for Children and Disabled, Grad. Sch. of Dent. Med., Hokkaido Univ., <sup>2</sup>Dept. of Mol. Cell Pharmacol, Grad. Sch. of Dent. Med., Hokkaido Univ.)</p>
<b>P1-134</b>	<p>PICK1 regulates osteoclastogenesis by binding to calcineurin B</p> <p>○Kamano Y<sup>1,2</sup>, Egusa H<sup>1</sup>, Saeki M<sup>2</sup>, Okawa H<sup>1</sup>, Yatani H<sup>1</sup> (<sup>1</sup>Dept. of Fixed Prosthodontics., Osaka Univ. Grad. Sch. of Dent., <sup>2</sup>Dept. of Pharmacol., Osaka Univ. Grad. Sch. of Dent.)</p>
<b>P1-135</b>	<p>Effects of phenytoin on the calcium responses in human gingival fibroblast</p> <p>○Hayashi Y<sup>1</sup>, Murata K<sup>1</sup>, Kurasige Y<sup>1</sup>, Saitoh M<sup>1</sup>, Tanimura A<sup>2</sup> (<sup>1</sup>Dept. of Pedodontics, Sch. of Dent., Health Sci. Univ. of Hokkaido, <sup>2</sup>Dept. of Pharmacol., Sch. of Dent., Health Sci. Univ. of Hokkaido)</p>
<b>P1-136</b>	<p>Anti-aging effects of ubiquinol on periodontal tissue</p> <p>○Yoneda T<sup>1</sup>, Tomofuji T<sup>1</sup>, Ekuni D<sup>1</sup>, Azuma T<sup>1</sup>, Endou Y<sup>1</sup>, Kasuyama K<sup>1</sup>, Machida T<sup>1</sup>, Morita M<sup>1</sup> (<sup>1</sup>Dept. of Preventive Dent., Okayama Univ. Grad. Sch. of Med. Dent &amp; Pharm.)</p>
<b>P1-137</b>	<p>Analysis of miRNA expression in pituitary adenomas</p> <p>○Ono S<sup>1</sup>, Iwata T<sup>2</sup>, Mizusawa N<sup>2</sup>, Yoshimoto K<sup>2</sup> (<sup>1</sup>Dept. of Med. Pharmacol., Univ. of Tokushima Grad. Sch. of Oral Sci., <sup>2</sup>Dept. of Med. Pharmacol., Inst. of Health Biosci. Univ. of Tokushima Grad. Sch.)</p>
<b>P1-138</b>	<p>Cathepsin S-dependent antigen presentation is essential for the maintenance of neuropathic pain</p> <p>○Zhang X<sup>1</sup>, Wu Z<sup>1</sup>, Hayashi Y<sup>1</sup>, Nakanishi H<sup>1</sup> (<sup>1</sup>Dept. of Aging Sci. &amp; Pharmacol., Fac of Dent. Sci., Kyushu Univ.)</p>
<b>P1-139</b>	<p>Effect of whey on age-dependent atrophy and gene expression changes of salivary glands</p> <p>○Pieczonka T<sup>1</sup>, Bragiel A<sup>1</sup>, Ishikawa Y<sup>1</sup> (<sup>1</sup>Dept. of Pharm, Tokushima Univ. Grad. Sch. of Dent.)</p>
<b>P1-140</b>	<p>Inflammatory and necrotic reactions of nitrogen-containing bisphosphonates (N-BPs): effects of phosphate transporter inhibitors</p> <p>○Kiyama T<sup>1,2</sup>, Okada S<sup>1,3</sup>, Sato E<sup>1</sup>, Sasaki K<sup>2</sup>, Sugawara S<sup>1</sup>, Endo Y<sup>1</sup> (<sup>1</sup>Dept. of Oral Imm., Tohoku Univ. Grad. Sch. of Dent., <sup>2</sup>Dept. of Adv. Prosth Dent., Tohoku Univ. Grad. Sch. of Dent., <sup>3</sup>Dept. of Oral and Maxillofacial Surg., Tohoku Univ. Grad. Sch. of Dent.)</p>
<b>P1-141</b>	<p>Shear stress induced Ca<sup>2+</sup> elevation is mediated by glutamate in MC3T3-E1</p> <p>○Tsuchiya N<sup>1,2</sup>, Kodama D<sup>1</sup>, Goto S<sup>2</sup>, Togari A<sup>1</sup> (<sup>1</sup>Dept. of Pharmacol. Aichi-Gakuin Univ. Sch. of Dent., <sup>2</sup>Dept. of Ortho. Aichi-gakuin Univ. Sch. of Dent.)</p>
<b>P1-142</b>	<p>RANKL binding peptides promote chondrocyte differentiation and inhibit cartilage destruction.</p> <p>○Sugamori Y<sup>1</sup>, Kato G<sup>1</sup>, Tamura Y<sup>1</sup>, Ohya K<sup>1</sup>, Aoki K<sup>1</sup> (<sup>1</sup>Dept. of Bio-matrix (Sec. of Pharmacol.), Grad. Sch., Tokyo Med. and Dent. Univ.)</p>
<b>P1-143</b>	<p>Effect of DMX sheet against radiation mucositis</p> <p>○Shinomiya T<sup>1</sup>, Yoshikawa M<sup>1,2</sup>, Kawaguchi M<sup>1</sup>, Okumura S<sup>3</sup>, Okubo M<sup>1</sup> (<sup>1</sup>Dept. of Pharmacol., Tokyo Dent. Coll., <sup>2</sup>Dept. of Pharmacol., Sch. of Med., Tokai Univ., <sup>3</sup>ROHTO Pharmaceutical Co.,Ltd.)</p>
<b>P1-144</b>	<p>Effect of fluorine on Na,K-ATPase activity and its phosphorylated intermediate</p> <p>○Okino Y<sup>1</sup>, Deyama Y<sup>2</sup>, Yoshimura Y<sup>2</sup>, Suzuki K<sup>2</sup> (<sup>1</sup>Dept. Oral Health Sci. Dev. Prevent. Dent. Grad. Sch. Dent. Med. Hokkaido Univ., <sup>2</sup>Dept. Oral Pathobiol. Dev. Mol. Cell Pharmacol. Grad. Sch. Dent. Med. Hokkaido Univ.)</p>
<b>P1-145</b>	<p>Keratin13 gene silencing in oral squamous cell carcinoma cells by epigenetic dysregulation</p> <p>○Naganuma K<sup>1,2</sup>, Hatta M<sup>2</sup>, Ohkubo T<sup>2</sup>, Yamazaki J<sup>2</sup> (<sup>1</sup>Dept. of Oral Maxillofac. Surg., Fukuoka Dent. Coll., <sup>2</sup>Dept. of Physiol. Sci. &amp; Mol. Biol., Fukuoka Dent. Coll.)</p>
<b>P1-146</b>	<p>Salivary ion channels as biomarkers of salt-sensitive hypertension</p> <p>○Bragiel A<sup>1</sup>, Pieczonka T<sup>1</sup>, Ishikawa Y<sup>1</sup> (<sup>1</sup>Dept. of Pharm., Tokushima Univ. Grad. Sch. of Dent.)</p>
<b>P1-147</b>	<p>Electrophysiological responses of the rabbit thalamic neurons receiving the maxillofacial sensory input</p> <p>○Suzuki T<sup>1</sup>, Wakamori M<sup>2</sup>, Tabata T<sup>1</sup>, Tsuboi A<sup>1,3</sup> (<sup>1</sup>Div. of Aging &amp; Geriat. Dent., Tohoku Univ. Grad. Sch. of Dent., <sup>2</sup>Div. of Mol. Pharmacol. &amp; Cell Biophys., Tohoku Univ. Grad. Sch. of Dent., <sup>3</sup>Tohoku Med. Megabank Org.)</p>
<b>P1-148</b>	<p>The function of <i>Poxn</i> Poxn-expressing taste neurons in ingestion behavior of drosophila</p> <p>○Huruyama A, Ohsuga K, Munakata Y (<sup>1</sup>Dept. Oral Func. Molecular Biol. Ohu Univ. Sch. Dent. )</p>
<b>P1-149</b>	<p>Functional analysis of umami taste receptors in the chorda tympani and the glossopharyngeal nerves of mGluR4 knockout mice</p> <p>○Yasumatsu K<sup>1</sup>, Shigemura N<sup>1</sup>, Ninomiya Y<sup>1</sup> (<sup>1</sup>Sect. of Oral NeuroSci., Kyushu Univ.)</p>
<b>P1-150</b>	<p>How do humans detect the intensity and palatability of mixed taste solutions?</p> <p>○Katagawa Y<sup>1</sup>, Yasuo T<sup>2</sup>, Suwabe T<sup>2</sup>, Gen K<sup>1</sup>, Sako N<sup>2</sup> (<sup>1</sup>Dept. Dent. for the Disability and Oral Health, Asahi Univ. Sch. Dent., <sup>2</sup>Dept. Oral Physiol., Asahi Univ. Sch. Dent.)</p>

<b>P1-151</b>	Axonal projection profile of fast-spiking interneurons in the agranular insular cortex ○Fukuda S <sup>1</sup> , Kobayashi M <sup>1</sup> , K N <sup>1</sup> ( <sup>1</sup> Dept of Pharmacol., Nihon Univ. Sch. of Dent.)
<b>P1-152</b>	CCK modulates activities of the mouse chorda tympani nerve ○Yasaka M <sup>1</sup> , Yasumatsu K <sup>1</sup> , Niki M <sup>1</sup> , Shigemura N <sup>1</sup> , Ninomiya Y <sup>1</sup> ( <sup>1</sup> Dept. of Oral Neurosci., Kyushu Univ. Grad. Sch. of Dent.)
<b>P1-153</b>	Analysis of TASK3 currents that control the gating of excitatory synaptic transmissions onto jaw-closing motoneurons in expression systems ○Tanaka C <sup>1,2</sup> , Saito M <sup>1</sup> , Sato H <sup>1</sup> , Toyoda H <sup>1</sup> , Kang Y <sup>1</sup> ( <sup>1</sup> Dept. of Neurosci. & Oral Physiol., Osaka Univ. Grad. Sch. of Dent., <sup>2</sup> Dept. of Remov. Prosthodont., Osaka Univ. Grad. Sch. of Dent.)
<b>P1-154</b>	Stress on ovariectomized mice induced abnormal behavior and decrease of KCC2 expression, however, 17alpha-estradiol reversed the effect ○Tsukahara T <sup>1</sup> , Masuhara M <sup>1</sup> , Sonomura T <sup>2</sup> , Uemura N <sup>1</sup> , Sato T <sup>1</sup> ( <sup>1</sup> Dept. of Applied Pharm., <sup>2</sup> Dept. of Oral Anat.)
<b>P1-155</b>	Evaluation of the masking of dimethyl sulfide odors by 3,7-dimethyl terpenes through the use of trained odor sensor mice ○Osada K <sup>1</sup> ( <sup>1</sup> Dev. of Physiol., Health Sci Univ. of Hokkaido)
<b>P1-156</b>	Role of trigeminally mediated parasympathetic reflex vasodilation and its modulation by GABAergic system in the regulation of cerebral hemodynamics in the rats ○Ishii H <sup>1</sup> , Sato T <sup>1</sup> ( <sup>1</sup> Div. of Physiol., Dept. of Oral Biol., Sch. Dent., Health Sci. Univ. Hokkaido)
<b>P1-157</b>	Effect of jaw-neck cooperated movement on human jaw-opening reaction time ○Munakata Y <sup>1</sup> , Ohsuga K <sup>1</sup> , Furuyama A <sup>1</sup> ( <sup>1</sup> Div. of Oral Physiol., Ohu Univ. Sch. of Dent.)
<b>P1-158</b>	Effects of Osmanthus odor on mastication and feeding behavior ○Yamamoto T <sup>1</sup> ( <sup>1</sup> Dept. of Health Nutri., Kio Univ.)
<b>P1-159</b>	Effects of olfactory bulb stimulation on the excitatory propagation in the insular cortex responding to the stimulation of the gustatory thalamic nucleus ○Mizoguchi N <sup>1,2</sup> , Kobayashi M <sup>2</sup> , Muramoto K <sup>1</sup> ( <sup>1</sup> Div. of Physiol., Meikai Univ. Sch. Dent., <sup>2</sup> Dept. of Pharmacol., Nihon Univ. Sch. Dent.)
<b>P1-160</b>	Genetic variation of Capsaicin receptor and oral pain perception ○Yoshizumi J <sup>1</sup> , Utsunomiya R <sup>2</sup> , Aijima R <sup>2,3</sup> , Kitsuki T <sup>1,2</sup> , Kido M <sup>2</sup> ( <sup>1</sup> Dept. of Oral & Maxillofacial Surgery, Grad. Sch. of Dent.Sci., Kyushu Univ., <sup>2</sup> Dept. of Molecular Cell Biol. and Oral Anat., Grad. Sch. of Dent. Sci., Kyushu Univ., <sup>3</sup> Dept. of Oral & Maxillofacial Surgery, Saga Med. Sch.)
<b>P1-161</b>	Mice lacking GLP-1 receptor show selective reduction for sweet compounds ○Iwata S <sup>1</sup> , Yasumatsu K <sup>1</sup> , Takai S <sup>1</sup> , Shigemura N <sup>1</sup> , Ninomiya Y <sup>1</sup> ( <sup>1</sup> Oral Neurosci., Grad. Sch. Dent. Sci., Kyushu Univ.)
<b>P1-162</b>	Glial response within the nucleus of solitary tract after inferior alveolar nerve injury ○Kakihara R <sup>1</sup> , Suwabe T <sup>3</sup> , Nishikawa Y <sup>2</sup> , Morita S <sup>1</sup> ( <sup>1</sup> First Dept. of Oral and Maxillofacial Surgery Osaka Dent. Univ., <sup>2</sup> Dept. of Physiol. Osaka Dent. Univ., <sup>3</sup> Dept. of Oral Physiol. Oral Functional Sci. and Rehabilitation Sch. of Dent., Asahi Univ.)
<b>P1-163</b>	Neuronal responses in the primary somatosensory cortex to thermal stimuli in behaving monkeys ○Unno S <sup>1</sup> , Iwata K <sup>1</sup> ( <sup>1</sup> Dept. of Physiol., Sch. of Dent., Nihon Univ. )
<b>P1-164</b>	Induction mechanism of thirst sensation in hangover ○Inenaga K <sup>1</sup> , Ujihara I <sup>1,2</sup> , Hitomi S <sup>1</sup> , Ono K <sup>1</sup> , Kakinoki Y <sup>2</sup> ( <sup>1</sup> Div. of Physiol. Kyushu Dent. Univ., <sup>2</sup> Div. of Special Needs & Gerodont. Kyushu Dent. Univ. )
<b>P1-165</b>	Chorda tympani nerve responses to 5 basic tastes in vitamin C deficient rats ○Yasuo T <sup>1</sup> , Suwabe T <sup>1</sup> , Sako N <sup>1</sup> ( <sup>1</sup> Dept. Oral Physiol., Asahi Univ. Sch. Dent.)
<b>P1-166</b>	Capsaicin induces theta-band synchronization between gustatory and autonomic insular cortices ○Saito M <sup>1</sup> , Toyoda H <sup>1</sup> , Sato H <sup>1</sup> , Kang Y <sup>1</sup> ( <sup>1</sup> Dept. of Neurosci. & Oral Physiol., Osaka Univ. Grad. Sch. of Dent.)
<b>P1-167</b>	Expression of pituitary adenylate cyclase-activating peptide (PACAP) in the periodontal ligament after invasive stress ○Kitaura H <sup>1</sup> , Kimura K <sup>1</sup> , Ishida M <sup>1</sup> , Takano-Yamamoto T <sup>1</sup> ( <sup>1</sup> Dept.of Ortho & Dent Orthop, Tohoku Univ. Grad. Sch. of Dent.)
<b>P1-168</b>	The food deprivation increase the expression levels of sweet/umami receptors, T1R family in mouse circumvallate taste buds ○Toyono T <sup>1</sup> , Seta Y <sup>1</sup> , Kataoka S <sup>2</sup> , Kito A <sup>3</sup> , Toyoshima K <sup>1</sup> ( <sup>1</sup> Div. Oral Histol. & Neurobiol., Dept. Health Improv., Kyushu Dent. Univ., <sup>2</sup> Div. Oral Histol. & Neurobiol., Dept. Health Improv., Kyushu Dent. Univ., <sup>3</sup> Div. Oral Oral Care & Rehabil., Dept. Physical Functions, Kyushu Dent. Univ.)
<b>P1-169</b>	Phospholipase C-related inactive protein (PRIP) is involved in the regulation of phasic inhibition in the barrel cortex ○Toyoda H <sup>1</sup> , Saito M <sup>1</sup> , Sato H <sup>1</sup> , Kanematsu T <sup>2</sup> , Hirata M <sup>3</sup> , Kang Y <sup>1</sup> ( <sup>1</sup> Dept. Neurosci. & Oral Physiol., Osaka Univ. Grad. Sch. Dent., <sup>2</sup> Dept. Dent. Pharmacol., Grad. Sch. Biomed. Sci., Hiroshima Univ., <sup>3</sup> Lab. Mol. Cell. Biochem., Fac. Dent. Sci., Kyushu Univ.)
<b>P1-170</b>	Analgesic effect of oxidized galectin-1 in a neuropathic pain model ○Yonehara N <sup>1</sup> , Terasawa R <sup>1</sup> ( <sup>1</sup> Dept. Dent. Pharmacol., Ohu Univ. Sch. Dent.)
<b>P1-171</b>	Excitatory effect of orexin on the superior salivatory nucleus neurons innervating the submandibular and sublingual salivary glands in rats ○Mitoh Y <sup>1</sup> , Sato T <sup>2</sup> , Fujita M <sup>1</sup> , Kobashi M <sup>1</sup> , Ichikawa H <sup>1,2</sup> , Matsuo R <sup>1</sup> ( <sup>1</sup> Dept. of Oral Physiol., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>2</sup> Dev. Oral Craniofacial Anat. Tohoku Univ. Grad. Sch. Dent.)
<b>P1-172</b>	The dryness of corneal epithelial cell elicit further dryness sensation ○Hatta A <sup>1,2</sup> , Kurose M <sup>1</sup> , Fujii N <sup>2</sup> , Yamamura K <sup>1</sup> ( <sup>1</sup> Div. of Oral Physio., Niigata Univ. Grad. Sch. of Med. Dent., <sup>2</sup> General Dent. Unit., Niigata Univ. Med. Dent. Hospital)

<b>P1-173</b>	Analysis of reflex excitability during sleep in rats ○Hino S <sup>1</sup> , Kato T <sup>1</sup> , Horie N <sup>1</sup> , Shimoyama T <sup>1</sup> , Sakagami H <sup>2</sup> , Adachi K <sup>2</sup> (Dept. of Oral & Maxillofacial Surgery., Saitama Med. Center. Saitama Med. Univ., <sup>2</sup> Dept. of Dent. Pharmacol., Meikai Univ. Sch. of Dent.)
<b>P1-174</b>	Analysis of odor-related behaviors in the endocrine disruptor exposure rats ○Fujimoto T <sup>1</sup> , Nishikawa Y <sup>1</sup> (Dept. Physiol., Osaka Dent. Univ.)
<b>P1-175</b>	Effects of cold stimuli on taste sensitivities: Sex differences ○Fujiyama R <sup>1</sup> , Okada Y <sup>1</sup> , Toda K <sup>1</sup> (Integrative Sensory Physiol., Grad. Sch. of Biomed. Sci., Nagasaki Univ.)
<b>P1-176</b>	How is swallowing reflex desensitized by continuous electrical stimulation of the superior laryngeal nerve? ○Tsuji K <sup>1</sup> , Tsujimura T <sup>1</sup> , Inoue M <sup>1</sup> (Div. of Dysphagia Rehabilitation, Niigata Univ. Grad. Sch. Med. and Dent. Sci.)
<b>P1-177</b>	Morphology and physiology of rat supratrigeminal premotor neurons ○Nakamura S <sup>1</sup> , Nakayama K <sup>1</sup> , Mochizuki A <sup>1</sup> , Yoshida A <sup>2</sup> , Inoue T <sup>1</sup> (Dept. of Oral Physiol., Showa Univ. Sch. of Dent., <sup>2</sup> Dept. of Oral Anat. Neurobiol., Fac. of Dent., Osaka Univ.)
<b>P1-178</b>	Evaluation of lip sensory disturbance using somatosensory evoked magnetic fields ○Maezawa H <sup>1,2</sup> , Yoshida K <sup>2</sup> , Mima T <sup>2</sup> , Hirai Y <sup>1</sup> , Funahashi M <sup>1</sup> , Nagamine T <sup>2,4</sup> , Fukuyama H <sup>2</sup> (Dept. of Oral Physiol., Hokkaido Univ. Sch. Dent., <sup>2</sup> Human Brain Res. Center., Kyoto Univ. Sch. Med., <sup>3</sup> Dept. of Oral & Maxillofacial Surgery., Kyoto Med. Center., <sup>4</sup> Dept. of System Neurosci., Sapporo Med. Univ. Sch. Med.)
<b>P1-179</b>	Responses of the neurons in the rostral part of the nucleus tractus solitarius to stimulation of the aortic depressor and lingual-trigeminal nerves ○Ishizuka K <sup>1</sup> , Satoh Y <sup>1</sup> (Dept. of Physiol., Nippon Dent. Univ. Sch. of Niigata)
<b>P1-180</b>	Learning-dependent AMPA receptor delivery into the CA3-CA1 synapses occurs in dorsal, but not ventral hippocampus ○Mizuno J <sup>1</sup> , Mitsushima D <sup>1,2</sup> (Dept. of Oralsci, Kanagawa Dent. Univ. Grad. Sch. Dent., <sup>2</sup> Dept. of Systems Neurosci., Yamaguchi Univ. Grad. Sch. Med.)
<b>P1-181</b>	Involvement of the lateral reticular nucleus in the modulation of the jaw-opening reflex by stimulation of the red nucleus ○Satoh Y <sup>1</sup> , Ishizuka K <sup>1</sup> , Iwasaki S <sup>1</sup> (Dept. of Physiol., Nippon Dent. Univ., Niigata)
<b>P1-182</b>	The distribution of TRPV1 and TRPV2 in the rat pharynx ○Sato T <sup>1</sup> , Yajima T <sup>2</sup> , Kano M <sup>1</sup> , Suzuki T <sup>1</sup> , Ichikawa H <sup>1</sup> (Div. of Oral & Craniofacial Anat., Grad. Sch. of Dent., Tohoku Univ., <sup>2</sup> Div. of Operative Dent., Grad. Sch. of Dent., Tohoku Univ.)
<b>P1-183</b>	The network oscillation in the barrel cortex observed by a voltage-sensitive dye imaging method ○Sato H <sup>1</sup> , Toyoda H <sup>1</sup> , Saito M <sup>1</sup> , Kang Y <sup>1</sup> (Dept. Neurosci. & Oral Physiol., Osaka Univ. Grad. Sch. Dent.)
<b>P1-184</b>	Activity of parietal somatosensory neurons during sequential tongue movements ○Toda T <sup>1</sup> , Kudo T <sup>1</sup> , Hayashi H <sup>1</sup> (Div. of Physiol., Tohoku Univ. Grad. Sch. of Dent.)
<b>P1-185</b>	Leptin selectively suppresses sweet taste responses of mouse fungiform taste cells ○Yoshida R <sup>1</sup> , Niki M <sup>1</sup> , Jyotaki M <sup>1</sup> , Takai S <sup>1</sup> , Ninomiya Y <sup>1</sup> (Sect. of Oral Neurosci., Grad. Sch. of Dent. Sci., Kyushu Univ.)
<b>P1-186</b>	Effects of chronic Akt/mTOR inhibition by rapamycin on mechanical overload-induced hypertrophy and myosin heavy chain transition in masseter muscle ○Umeki D <sup>1</sup> , Ohnuki Y <sup>2</sup> , Arai C <sup>1</sup> , Okumura S <sup>2</sup> , Nakamura Y <sup>1</sup> (Dept. of Orthodontics, Tsurumi Univ. Sch. of Dent., <sup>2</sup> Dept. of Physiol., Tsurumi Univ. Sch. of Dent.)
<b>P1-187</b>	3D-visualization of muscles arrangement of mouse tongue by using micro-CT ○Iwasaki S <sup>1</sup> , Aoyagi H <sup>2</sup> (Dept. of Physiol., Nippon Dent. Univ. Sch. of Life Dent. at Niigata., <sup>2</sup> Adv. Res. Cent., Nippon Dent. Univ. Sch. of Life Dent. at Niigata)
<b>P1-188</b>	Improvement of 5P system of team-based learning (TBL) on basic dental medicine instead of teacher-centered lecture ○Katsuragi H <sup>1</sup> (Dept. of Microbiol., Nippon Dent. Univ. Sch. of Life Dent. at Niigata)
<b>P2-1</b>	Re-realization of anatomical structure of oral region using multi viewpoint 3D anatomy system ○Yamaai Y <sup>1</sup> , Ono M <sup>2</sup> , Ibaragi S <sup>3</sup> , Kuboki T <sup>2</sup> (Dept. of Oral Function and Anat., Okayama Univ. Grad. Sch., <sup>2</sup> Oral Rehabil. Regenerative Med., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>3</sup> Oral Maxillofacial Surg. Biopathol., Okayama Univ. Hosp.)
<b>P2-2</b>	Improvement of acrylic resin injection method for blood vessel ○Suwa F <sup>1</sup> , Uemura M <sup>1</sup> , Takemura A <sup>1</sup> , Toda I <sup>1</sup> , Fang YR <sup>2</sup> (Dept. of Anat., Osaka Dent. Univ., <sup>2</sup> Dept. of Oriental Med., Osaka Dent. Univ.)
<b>P2-3</b>	The hypothesis on the origin of the torus mandibularis ○Sakiyama K <sup>1</sup> , Bando Y <sup>1</sup> , Takizawa S <sup>1,2</sup> , Amano O <sup>1</sup> (Div. of Anat, Meikai Univ. Sch. of Dent., <sup>2</sup> Div. Oral Surg 2, Meikai Univ. Sch. of Dent.)
<b>P2-4</b>	TMEM16E exhibits protein instability and distinct characteristics in chloride channel/pore forming ability ○Tobiume K <sup>1</sup> , Hirono C <sup>1</sup> , Sugita M <sup>1</sup> (Program of Dent. Sci., Hiroshima Univ. Grad. Sch. of BioMed. and Health Sci. Sci.)
<b>P2-5</b>	Pharmacological improvement of the cleft palate phenotype in TGF-beta3 knockout mouse fetuses by Iressa administration ○Takigawa T <sup>1</sup> , Into T <sup>2</sup> , Takagi S <sup>1</sup> , Imaida C <sup>1</sup> (Dept. of Oral Anat., Asahi Univ. Sch. of Dent., <sup>2</sup> Dept. of Oral Microbiol., Asahi Univ. Sch. of Dent.)
<b>P2-6</b>	Critical regulators on angiogenesis during tooth development ○Sunohara M <sup>1</sup> , SATO I <sup>1</sup> (Dept. of Anat., Sch. of Life Dent. at Tokyo, The Nippon Dent. Univ.)
<b>P2-7</b>	Fgfr1 conditional knock out mice derived ectopic chondrogenesis and osteogenesis in the cranial bone formation ○Kawai M <sup>1</sup> , Yamamoto T <sup>1</sup> (Dept. of Oral Morphol., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm.)

<b>P2-8</b>	Immunohistochemical localization of Mn-SOD in mouse femur during endochondral ossification ○Ambe K <sup>1</sup> , Kashiwabara Y <sup>2</sup> , Kikuchi R <sup>3</sup> , Nakagawa T <sup>1</sup> , Watanabe H <sup>1</sup> ( <sup>1</sup> Div. of Oral Histol., Dept. of Morphological Biol., Ohu Univ., Sch. of Dent., <sup>2</sup> Dept. of Cell Biol. Oral Histol., Ohu Univ., Grad. Sch. of Dent., <sup>3</sup> Dept. of Oral Maxillofacial Surgery, Ohu Univ., Grad. Sch. of Dent.)
<b>P2-9</b>	Identification, characterization and expression analysis of DMP1 (dentin matrix protein 1) gene in amphibian, <i>Xenopus laevis</i> . ○Yonekura T <sup>1</sup> , Homma H <sup>1</sup> , Sakurai A <sup>1</sup> , Moriguchi M <sup>2</sup> , Miake Y <sup>2</sup> , Toyosawa S <sup>3</sup> , Shintani S <sup>1</sup> ( <sup>1</sup> Tokyo Dent. Coll. Dept. of Pediatric Dent., <sup>2</sup> Tokyo Dent. Coll. Dept. of Ultrastructural Sci., <sup>3</sup> Osaka Univ. Dept. of Oral Pathol.)
<b>P2-10</b>	Gene expression profile analysis of clonal human dental pulp cells with respect to multipotency ○Kobayashi T <sup>1</sup> , Torii D <sup>1</sup> , Tsutsui TW <sup>1</sup> , Tsutsui T <sup>1</sup> ( <sup>1</sup> Dept. of Pharmacol., Nippon Dent. Univ., Sch. Life Dent. at Tokyo)
<b>P2-11</b>	The evolution of myomiR targets on striated muscle genes ○Ando H <sup>1</sup> , Yamane A <sup>1</sup> ( <sup>1</sup> Dept. of Biophysics, Tsurumi Univ. Sch. of Dent. Med.)
<b>P2-12</b>	Cytokines-induce matrix metalloproteinase (MMP)-3 regulated cell proliferation in odontoblast-like cell derived from mouse embryonic stem (ES) cells ○Hiyama T <sup>1</sup> , Ozeki N <sup>1</sup> , Yamaguchi H <sup>1</sup> , Nakata K <sup>1</sup> , Mogi M <sup>2</sup> , Nakamura H <sup>1</sup> ( <sup>1</sup> Dept. of Endo., Sch. of Dent., Aichi Gakuin Univ., <sup>2</sup> Dept. of Med. Biochem., Sch. of Pharmacy, Aichi Gakuin Univ.)
<b>P2-13</b>	Alpha 7 integrin-positive human skeletal muscle stem cells differentiate into odontoblast-like cells with induction of altered adhesive and migratory phenotype ○Ozeki N <sup>1</sup> , Mogi M <sup>2</sup> , Yamaguchi H <sup>1</sup> , Hiyama T <sup>1</sup> , Nakata K <sup>1</sup> , Nakamura H <sup>1</sup> ( <sup>1</sup> Dept. of Endo., Sch. of Dent., Aichi Gakuin Univ., <sup>2</sup> Dept. of Med. Biochem., Sch. of Pharmacy, Aichi Gakuin Univ.)
<b>P2-14</b>	Induction of odontogenic epithelial cell by Thymosin beta 4 transfection ○Fujiwara H <sup>1</sup> , Kiyoshima T <sup>1</sup> , Nagata K <sup>1</sup> , Wada H <sup>1</sup> , Kihara M <sup>1,2</sup> , Hasegawa K <sup>1,3</sup> , Someya H <sup>1,4</sup> , Sakai H <sup>1</sup> ( <sup>1</sup> Labo. of Oral Path., Fac. of Dent. Sci., Kyushu Univ., <sup>2</sup> Dev. of Orthodontics, Fac. of Dent. Sci., Kyushu Univ., <sup>3</sup> Dept. of Endo. and Operative Dent., Fac. of Dent. Sci., Kyushu Univ., <sup>4</sup> Dept. of Removable Prosthodontics, Fac. of Dent. Sci., Kyushu Univ.)
<b>P2-15</b>	Characteristics and hard tissue-forming potency of cultured human periodontal ligament cells ○Torii D <sup>1</sup> , Konishi K <sup>2</sup> , Goto S <sup>3</sup> , Tsutsui T <sup>1</sup> ( <sup>1</sup> Dept. of Pharmacol., Nippon Dent. Univ. Sch. of Life Dent. at Tokyo, <sup>2</sup> Dept. of Microbiol., Nippon Dent. Univ. Sch. of Life Dent. at Tokyo, <sup>3</sup> Dept. of Dent. Material Sci., Nippon Dent. Univ. Sch. of Life Dent. at Niigata)
<b>P2-16</b>	Induction of odontogenic epithelial cells by transfection of Thymosin beta 4 into keratinocytes isolated from mouse gingival epithelium ○Someya H <sup>1,2</sup> , Kiyoshima T <sup>1</sup> , Nagata K <sup>1</sup> , Wada H <sup>1</sup> , Fujiwara H <sup>1</sup> , Kihara M <sup>1,3</sup> , Hasegawa K <sup>1,4</sup> , Koyano K <sup>2</sup> , Sakai H <sup>1</sup> ( <sup>1</sup> Lab of Patho., Fac. of Dent. Sci., Kyushu Univ., <sup>2</sup> Sec. of Imp. and Rehab., Dent. Div. of O Rehab., Fac. of Dent. Sci., Kyushu Univ., <sup>3</sup> Dept. of Ortho., Fac. of Dent. Sci., Kyushu Univ., <sup>4</sup> Dept. of Endo. and Ope., Dent. Fac. of Dent. Sci., Kyushu Univ.)
<b>P2-17</b>	Immortalized pulp cells derived from deciduous teeth have a capacity to differentiate into osteoblasts and adipocytes <i>in vitro</i> ○Akazawa Y <sup>1</sup> , Hasegawa T <sup>1</sup> , Chosa N <sup>2</sup> , Yosimura Y <sup>3</sup> , Asakawa T <sup>4</sup> , Ishizaki A <sup>2</sup> , Iwamoto T <sup>1,5</sup> ( <sup>1</sup> Dept. of Ped. Dent., Tokushima Univ. Hosp., <sup>2</sup> Div. of Cellular Biosignal Sci., Dept. of Biochem., Iwate Med. Univ., <sup>3</sup> Dept. of Mol. Cell Pharm., Div. of Oral Pathological Sci., Grad. Sch. of Dent. Med., Hokkaido Univ., <sup>4</sup> Dept. of Special Needs Dent., Div. of Dent. for Persons with Disabilities, Showa Univ. Sch. of Dent., <sup>5</sup> Dept. of Ped. Dent., Subdiv. of Soc. and Env. Med., Div. of Integrated Sci. of Translational Res., Inst. of Health Biosci., The Univ. of Tokushima Grad. Sch.)
<b>P2-18</b>	Cytokine-like peptide, SCRG1 from mesenchymal stem cells has an ability to suppress the osteogenic differentiation ○Aomatsu E <sup>1</sup> , Chosa N <sup>2</sup> , Ibi M <sup>2</sup> , Kyakumoto S <sup>2</sup> , Kamo M <sup>2</sup> , Hasegawa T <sup>3</sup> , Satoh K <sup>1</sup> , Miura H <sup>1</sup> , Ishisaki A <sup>2</sup> ( <sup>1</sup> Div. of Orthodont., Iwate Med. Univ. Sch. of Dent., <sup>2</sup> Div. of Cell. Biosig. Sci., Dept. of Biochem., Iwate Med. Univ., <sup>3</sup> Inst. of Health Biosci., Univ. of Tokushima Grad. Sch.)
<b>P2-19</b>	Expression of thyroid hormone receptor in the regeneration of amphibian alveolar ○MIWA Y <sup>1</sup> , Sunohara M <sup>1</sup> , Yamaguchi T <sup>2</sup> , Sato I <sup>1</sup> ( <sup>1</sup> Dept. of Anat., Sch. of Life Dent. at Tokyo, Nippon Dent. Univ., <sup>2</sup> Dept. of Prevent., Field of Dev. Med., Kagoshima Univ. Grad. Sch. Med. & Dent.)
<b>P2-20</b>	Participation of bone marrow-derived cells in tooth extraction wound healing ○Sato H <sup>1</sup> ( <sup>1</sup> Dept. of Anat. & Cellul. Pathol., Iwate Med. Univ.)
<b>P2-21</b>	Evaluation of bone augmentation using HDACi treated cell transplantation. ○Eguchi K <sup>1</sup> , Akiba Y <sup>1,2</sup> , Akiba N <sup>1,2</sup> , Kitami M <sup>1,3</sup> , Kaku M <sup>1</sup> , Uoshima K <sup>1,2</sup> ( <sup>1</sup> Div. of Bio-Prosthodontics, Niigata Univ. Grad. Sch. of Med. & Dent., <sup>2</sup> Niigata Univ. Med. & Dent. Hosp., <sup>3</sup> Res. Fellow of the Japan Society for the Promotion of Science)
<b>P2-22</b>	Combination of TGF- $\beta$ and other cytokines such as IGF-I, PDGF, or VEGF enhances osteogenic differentiation of mesenchymal stem cells. ○Yokota J <sup>1</sup> , Chosa N <sup>2</sup> , Takahashi N <sup>2</sup> , Ibi M <sup>2</sup> , Kyakumoto S <sup>2</sup> , Kamo M <sup>2</sup> , Hasegawa T <sup>3</sup> , Kondo H <sup>1</sup> , Ishisaki A <sup>2</sup> ( <sup>1</sup> Dept. of Imp., Iwate Med. Univ. Sch. of Dent., <sup>2</sup> Div. of Cell. Biosig. Sci., Dept. of Biochem., Iwate Med. Univ., <sup>3</sup> Inst. of Health Biosci., Univ. of Tokushima Grad. Sch.)
<b>P2-23</b>	Effects of platelet rich plasma on odontoblast-like cells ○Yeom KH <sup>1,2</sup> , Washio A <sup>1</sup> , Ariyoshi W <sup>2</sup> , Kitamura C <sup>1</sup> , Nishihara T <sup>2</sup> ( <sup>1</sup> Div. of Endodontics and Restorative Dent., Kyushu Dent. Univ., <sup>2</sup> Div. of Infections and Molecular Biol., Kyushu Dent. Univ.)
<b>P2-24</b>	Gene expression and immunolocalization of prostanoid receptors in rat molar pulp during orthodontic tooth movement ○Ohkura N <sup>1</sup> , Ohkura M <sup>2</sup> , Shigetani Y <sup>1</sup> , Yoshida N <sup>1</sup> , Yoshida K <sup>1</sup> , Saitoh I <sup>2</sup> , Okiji T <sup>1</sup> ( <sup>1</sup> Div. of Cariol., Operative Dent. and Endodontics, Dept. of Oral Health Sci., Niigata Univ. Grad. Sch. of Med. and Dent. Sci., <sup>2</sup> Div. of Orthodontics, Dept. of Oral Biological Sci., Niigata Univ. Grad. Sch. of Med. and Dent. Sci.)
<b>P2-25</b>	Influence of bilirubin on human dental pulp-derived stem cells ○Hoshino Y <sup>1</sup> , Yamaza T <sup>2</sup> , Ma L <sup>1</sup> , Yamaza H <sup>1</sup> , Nonaka K <sup>1</sup> ( <sup>1</sup> Dept. of Pediatric Dent., Kyushu Univ. Grad. Sch. of Dent. Sci., <sup>2</sup> Dept. of Mol. Cell Bio. & Oral Anat., Kyushu Univ. Grad. Sch. of Dent. Sci.)
<b>P2-26</b>	Expression and role of CCN2 in primary dental epithelial cells ○Shimo T <sup>1</sup> , Kurio N <sup>1</sup> , Okui T <sup>1</sup> , Kuroda H <sup>1</sup> , Matsumoto K <sup>1</sup> , Horikiri Y <sup>1</sup> , Ibaragi S <sup>1</sup> , Yoshioka N <sup>1</sup> , Sasaki A <sup>1</sup> ( <sup>1</sup> Dept. Oral and Maxillofac. Surg., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm.)

<b>P2-27</b>	Cusp formation of the upper molars in shrews ○Yamanaka A <sup>1</sup> , Iwai H <sup>1</sup> ( <sup>1</sup> Dept. of Oral Anat., Kagoshima Univ. Grad. Sch. of Med. & Dent.)
<b>P2-28</b>	Comparative study on teeth and ganoid scales in Lepisosteus, actinopterygian, bony fish ○Sasagawa I <sup>1</sup> , Ishiyama M <sup>2</sup> , Yokosuka H <sup>2</sup> , Mikami M <sup>3</sup> , Uchida T <sup>4</sup> ( <sup>1</sup> Adv. Res. Center, Nippon Dent. Univ. Sch. of Life Dent. Niigata, <sup>2</sup> Dept. of Histol., Nippon Dent. Univ. Sch. of Life Dent. Niigata, <sup>3</sup> Dept. of Microbiol., Nippon Dent. Univ. Sch. of Life Dent. Niigata, <sup>4</sup> Dept. of Oral Biol., Hiroshima Univ. Grad. Sch. of Biomed. Sci.)
<b>P2-29</b>	Origin of bone-like tissues in dental pulp after tooth transplantation ○Hosoya A <sup>1</sup> , Yukita A <sup>2</sup> , Yoshiba K <sup>3</sup> , Yoshiba N <sup>3</sup> , Kasahara E <sup>4</sup> ( <sup>1</sup> Dept. of Oral Histol., Matsumoto Dent. Univ., <sup>2</sup> Dept. of Education Sci, Shizuoka Univ., <sup>3</sup> Div. of Cariol., Operative Dent. and Endodontics, Niigata Univ. Grad. Sch. of Med. and Dent. Sci., <sup>4</sup> Dept. of Endodontics and Operative Dent., Matsumoto Dent. Univ.)
<b>P2-30</b>	Analysis of dental caries and genetic risk factors in children ○Shimomura-Kuroki J <sup>1</sup> , Ryu Y <sup>1</sup> , Nashida T <sup>2</sup> ( <sup>1</sup> Dept. of Pediat. Dent., The Nippon Dent. Univ. Sch. Life Dent. Niigata, <sup>2</sup> Dept. of Biochem., The Nippon Dent. Sch. Life Dent. Niigata)
<b>P2-31</b>	Akt signaling regulates glycogen metabolism to promote ameloblast differentiation ○Ida-Yonemochi H <sup>1</sup> , Ohshima H <sup>1</sup> , Harada H <sup>2</sup> ( <sup>1</sup> Div. of Anat. Cell Biol. of Hard Tissue, Niigata Univ. Grad. Sch. Med. Dent. Sci., <sup>2</sup> Div. of Dev. Biol. & Regener. Med., Dept. of Anat., Iwate Med. Univ.)
<b>P2-32</b>	Study of the preventive effect of initial enamel caries by carbon dioxide laser irradiation ○Kanri Y <sup>1</sup> , Okada Y <sup>1</sup> ( <sup>1</sup> Dept. of Pathol., The Nippon Dent. Univ. Sch. of Life Dent., Niigata)
<b>P2-33</b>	Inhibition of in vitro calcification by synthetic peptides ○Fujisawa R <sup>1</sup> , Tamura M <sup>1</sup> ( <sup>1</sup> Dept. of Oral Biochem. & Mol. Bio., Sch. of Dent., Hokkaido Univ.)
<b>P2-34</b>	Guaiaicol activates TRPV3 channels in mouse odontoblast-lineage cells ○Shimada M <sup>1</sup> , Tsumura M <sup>2</sup> , Sato M <sup>2</sup> , Sobhan U <sup>2</sup> , Tazaki M <sup>2</sup> , Shibukawa Y <sup>2</sup> ( <sup>1</sup> Div. of Pediatr. Dent., Dept. Clin. Oral Health Sci., Tokyo Dent. Coll., <sup>2</sup> Dept. of Physiol., Tokyo Dent. Coll.)
<b>P2-35</b>	Role of SDF-1 in pulp cells derived from deciduous teeth in vitro ○Hasegawa T <sup>1</sup> , Akazawa Y <sup>1</sup> , Chosa N <sup>2</sup> , Yoshimura Y <sup>3</sup> , Asakawa T <sup>4</sup> , Ishisaki A <sup>2</sup> , Iwamoto T <sup>1,5</sup> ( <sup>1</sup> Dept. of Ped. Dent., Tokushima Univ. Hosp., <sup>2</sup> Div. of Cellular Biosignal Sci., Dept. of Biochem., Iwate Med. Univ., <sup>3</sup> Dept. of Mol. Cell Pharm., Div. of Oral Pathological Sci., Grad. Sch. of Dent. Med., Hokkaido Univ., <sup>4</sup> Dept. of Special Needs Dent., Div. of Dent. for Persons with Disabilities, Showa Univ. Sch. of Dent., <sup>5</sup> Dept. of Ped. Dent., Subdiv. of Soc. and Env. Med., Div. of Integrated Sci. of Translational Res., Inst. of Health Biosci., The Univ. of Tokushima Grad. Sch.)
<b>P2-36</b>	Localization of prickle in the rat incisor ameloblasts ○Nishikawa S <sup>1</sup> , Kawamoto T <sup>2</sup> ( <sup>1</sup> Dept. of Biol., Tsurumi Univ. Sch. of Dent. Med., <sup>2</sup> Radioisotope Res. Inst., Tsurumi Univ. Sch. of Dent. Med.)
<b>P2-37</b>	Geometric morphometric analysis of enamel-dentin junction and outer-enamel surface in human maxillary first permanent molar and second deciduous molar ○Morita W <sup>1</sup> ( <sup>1</sup> Lab. of Phys. Anthro. Fac. of Sci. Kyoto Univ.)
<b>P2-38</b>	Ubiquitination of LEF1 in the odontoblast of rat tooth germ ○Moriguchi M <sup>1</sup> , Miake Y <sup>1</sup> , Yamaguchi Y <sup>2</sup> , Fujizeki M <sup>1</sup> , Yamamoto H <sup>1</sup> ( <sup>1</sup> Dept. of Ultrastructur. Sci., Tokyo Dent. Coll., <sup>2</sup> Dept. of Physi. Thera., Niigata Univ. Health Wel., Fac. Med. Tech.)
<b>P2-39</b>	An in vitro analysis for tissue regeneration by outgrowth cells from human dental pulp ○Yoshiba N <sup>1</sup> , Yoshiba K <sup>1</sup> , Ohkura N <sup>1</sup> , Hosoya A <sup>2</sup> , Nakamura H <sup>2</sup> , Okiji T <sup>1</sup> ( <sup>1</sup> Operative Dent. & Endod., Niigata Univ. Grad. Sch. of Med. Dent., <sup>2</sup> Dept. of Oral Histol., Matsumoto Dent. Univ.)
<b>P2-40</b>	Micro CT image versus transparent specimen findings of extracted Japanese mandibular incisors' root canal formation ○Kamemoto H <sup>1</sup> , Katsumata A <sup>1</sup> , Kita K <sup>1</sup> ( <sup>1</sup> Dept. of Oral Radiol., Asahi Univ. Sch. of Dent.)
<b>P2-41</b>	Histochemical analysis of hypermineralized petrodentine formation, and glycogen storage of the odontoblast in the tooth plate of extant lungfish ○Oka S <sup>1</sup> , Mikami M <sup>2</sup> , Ishiyama M <sup>3</sup> ( <sup>1</sup> Dept. of Biol., Sch. Life Dent. at Niigata, Nippon Dent. Univ., <sup>2</sup> Dept. of Microbiol., Nippon Dent. Univ., <sup>3</sup> Dept. of Histol., Nippon Dent. Univ.)
<b>P2-42</b>	Morphological differences by area of the epithelial papillae and microvascular architecture in the cat filiform papillae ○Takemura A <sup>1</sup> , Hikida K <sup>1</sup> , Suwa F <sup>1</sup> ( <sup>1</sup> Dept. of Anat., Osaka Dent. Univ.)
<b>P2-43</b>	Expression of cadherins in mouse taste buds ○Seta Y <sup>1</sup> , Kito A <sup>1</sup> , Toyono T <sup>1</sup> , Kataoka S <sup>1</sup> , Toyoshima K <sup>1</sup> ( <sup>1</sup> Div. of Oral Histol. Neurobiol., Kyushu Dent. Univ.)
<b>P2-44</b>	Change in expression of cell adhesion molecules by calcium-induced differentiation in mouse keratinocyte ○Miyazaki A <sup>1,2</sup> , Ohkubo T <sup>2</sup> , Hatta M <sup>2</sup> , Ishikawa H <sup>1</sup> , Yamazaki J <sup>2</sup> ( <sup>1</sup> Dept. of Oral Growth Dev., Fukuoka Dent. Coll., <sup>2</sup> Dept. of Physiol. Sci. & Mol. Biol., Fukuoka Dent. Coll.)
<b>P2-45</b>	Desmosomal gene expression in oral epithelial hyperplasia ○Ochiai T <sup>1</sup> , Nakano K <sup>1</sup> , Hasegawa H <sup>1</sup> ( <sup>1</sup> Dept. of Oral Pathol., Matsumoto Dent. Univ.)
<b>P2-46</b>	Study on an anti-inflammatory effect by F-spondin of cementoblast ○Kitagawa M <sup>1</sup> , Miyauchi M <sup>2</sup> , Oka H <sup>3</sup> , Sotomaru Y <sup>4</sup> , Takata T <sup>2,3</sup> ( <sup>1</sup> Center of Oral Clinical Examination, Hiroshima Univ. Hosp., <sup>2</sup> Dept. of Oral and Maxillofacial Pathobiol., Hiroshima Univ. Inst. of BioMed. & Health Sci., <sup>3</sup> Dept. of International Collaboration Development for Dent., Hiroshima Univ. Inst. of BioMed. & Health Sci., <sup>4</sup> Natural Sci. Center for Basic Res. and Dev., Hiroshima Univ.)
<b>P2-47</b>	The influence on periodontal cell growth factor by the stress-related material ○Sadaoka S., Kawahara I., Yagami K., Maki S. ( <sup>1</sup> Dept. of Oral Health, Matsumoto Dent. Univ. Sch. of Dent., <sup>2</sup> Dept. of Social Dent., Matsumoto Dent. Univ. Sch. of Dent.)

<b>P2-48</b>	Effects of erythropoietin on stem cells from human periodontal ligament with periodontitis ○Masuda K <sup>1</sup> , Yamaza T <sup>2</sup> , Ma L <sup>3</sup> , Hoshino Y <sup>3</sup> , Higuchi Y <sup>1</sup> , Kukita T <sup>2</sup> ( <sup>1</sup> General Oral Care, Kyushu Univ. Hosp., <sup>2</sup> Dept. Mol. Cell Biol. & Oral Anat., Kyushu Univ. Grad. Sch. of Dent. Sci., <sup>3</sup> Dept. Pediatric Dent., Kyushu Univ. Grad. Sch. of Dent. Sci.)
<b>P2-49</b>	Microcirculation changes of peri-implant tissue with plaque control ○Matsuo M <sup>1,2</sup> , Iimura A <sup>1,2</sup> ( <sup>1</sup> Dept. of Oral Sci. Kanagawa Dent. Univ., <sup>2</sup> Inst. for Res. of Disaster Dent. Med. in Yokosuka and Shonan. Kanagawa Dent. Univ.)
<b>P2-50</b>	The behavior of epithelial sheath cells and dental follicle cells in the initial cementogenesis ○Yamamoto T <sup>1</sup> , Hasegawa T <sup>1</sup> , Yamamoto T <sup>1</sup> , Hongo H <sup>1</sup> , Yamada T <sup>1</sup> , Oda K <sup>2</sup> , Amizuka N <sup>1</sup> ( <sup>1</sup> Dept. of Dev. Biol. of Hard Tissue, Hokkaido Univ. Grad. Sch. of Dent. Med., <sup>2</sup> Dept. of Oral Biochem., Niigata Univ. Grad. Sch. of Med. Dent.)
<b>P2-51</b>	Induction of hard tissue from rat gingival mesenchymal stem cells ○Takahashi T <sup>1</sup> , Ushijima N <sup>1</sup> , Takita H <sup>1</sup> , Iizuka T <sup>1</sup> ( <sup>1</sup> Support Sec. for Education and Res. Hokkaido Univ. Grad. Sch. of Dent. Med.)
<b>P2-52</b>	Changes of peri-implant tissue with ultraviolet photo-activation incident to the experimental inflammation ○Takahashi SS <sup>1</sup> , Takahashi-W S <sup>1</sup> , Matsuo M <sup>1</sup> ( <sup>1</sup> Dept. of Oral Sci., Kanagawa Dent Univ.)
<b>P2-53</b>	Quantitative evaluation of orthodontic treatment-related pain: Animal model study ○Adachi K <sup>1</sup> , Sasaki A <sup>2</sup> , Suda N <sup>2</sup> , Sakagami H <sup>1</sup> ( <sup>1</sup> Div. Pharmacol. Meikai Univ. Sch. of Dent., <sup>2</sup> Div. Orthodontol. Meikai Univ. Sch. of Dent.)
<b>P2-54</b>	Localization change of HSP47 in the mouse periodontal ligament cells due to orthodontic mechanical stress ○Muraoka R <sup>1</sup> , Nakano K <sup>2</sup> , Yamada K <sup>1</sup> , Kawakami T <sup>2</sup> ( <sup>1</sup> Dept. of Orthodont., Matsumoto Dent. Univ., <sup>2</sup> Hard Tissue Pathol. Unit, Matsumoto Dent. Univ. Grad. Sch. of Oral Med.)
<b>P2-55</b>	Experimental tooth movement-activated sensory system stimulates osteoclast activity via central sympathetic nervous system ○Kondo H <sup>1</sup> , Kondo M <sup>1,2</sup> , Miyazawa K <sup>2</sup> , Goto S <sup>2</sup> , Togari A <sup>1</sup> ( <sup>1</sup> Dept. of Pharmacol., Aichi-Gakuin Univ. Sch. Dent., <sup>2</sup> Dept. of Orthod., Aichi-Gakuin Univ. Sch. Dent.)
<b>P2-56</b>	Development of the oxytalan fiber system in the labial and lingual periodontal space of rat incisors ○Inoue K <sup>1</sup> , Hara Y <sup>2</sup> , Sato T <sup>2</sup> ( <sup>1</sup> Res. Cent. of Elec. Micros. Sch. of Dent. Med., Tsurumi Univ., <sup>2</sup> Dept. of Anat. and Hist. Sch. of Dent. Med. Tsurumi Univ.)
<b>P2-57</b>	Synthesis and application of secretory granule-specific pH indicator in rat parotid acinar cells ○Matsuki-Fukushima Mi <sup>1</sup> , Katsumata-Kato O <sup>1</sup> , Yokoyama M <sup>1</sup> , Fujita-Yoshigaki J <sup>1</sup> ( <sup>1</sup> Dept. of Physiol. Nihon Univ. Sch. of Dent. at Matsudo)
<b>P2-58</b>	Methamphetamine-withdrawal stress activates PACAP-DBI pathway in rat salivary gland, resulting in inhibition of salivary secretion ○Okubo M <sup>1</sup> , Shinomiya T <sup>1</sup> , Tsukagoshi E <sup>1</sup> , Kawaguchi M <sup>1</sup> ( <sup>1</sup> Dept. of Pharmacol., Tokyo Dent. Coll.)
<b>P2-59</b>	Expression of antibacterial proteins in parotid acinar cells of non-obese diabetic mouse ○Nashida T <sup>1</sup> , Yoshie S <sup>2</sup> , Sato R <sup>3</sup> , Imai A <sup>1</sup> , Shimomura H <sup>1</sup> ( <sup>1</sup> Dpt. of Biochem., Sch. of Life Dent. at Niigata, The Nippon Dent. Univ. , <sup>2</sup> Dept. of Histol., <sup>3</sup> Dept. of Dent. Hygiene, The Nippon Dent. Univ. Coll. at Niigata)
<b>P2-60</b>	The ratio of glycine and proline in saliva shows constant ratio independent of age and periodontal diseases. ○Tanaka S <sup>1</sup> , Akita S <sup>1</sup> , Katayama T <sup>1,2</sup> , Sakagami H <sup>3</sup> , Sugimoto M <sup>4</sup> ( <sup>1</sup> Div. Oral Diagnosis, Meikai Univ. Sch. Dent., <sup>2</sup> Div. Operative Dent., Meikai Univ. Sch. , <sup>3</sup> Dent. Div. Pharmacol., Meikai Univ. Sch. Dent., <sup>4</sup> Inst. Adv. Biosci., Keio Univ.)
<b>P2-61</b>	Constitutive internalization of AQP5 in human salivary gland HSG cell ○Hasegawa T <sup>1</sup> , Yao C <sup>1</sup> , Akamatsu T <sup>1</sup> , Yoshimura H <sup>1</sup> ( <sup>1</sup> Dept. of Mol. Oral Physiol., Inst. of Health Biosci., Univ. of Tokushima)
<b>P2-62</b>	Involvement of subtilisin-like proprotein convertase PACE4 in regeneration of salivary gland ○Akamatsu T <sup>1</sup> , Yao C <sup>1</sup> , Hasegawa T <sup>1</sup> , Yoshimura H <sup>1</sup> ( <sup>1</sup> Dept. Mol. Oral Physiol., Inst. Health Biosci., Univ. Tokushima Grad. Sch.)
<b>P2-63</b>	Transduction and functional analyses of luminescent and fluorescent probes to the salivary cells using viral vectors ○Morita T <sup>1</sup> , Nezu A <sup>1</sup> , Tojyo Y <sup>2</sup> , Tanimura A <sup>1</sup> ( <sup>1</sup> Dept. of Pharmacol., Sch. of Dent., Health Sci Univ. of Hokkaido, <sup>2</sup> Dept. of Biophys., Health Sci. Univ. Hokkaido)
<b>P2-64</b>	Relation of mRNA level of histatins in saliva to oral hygiene ○Sato R <sup>1</sup> , Nashida T <sup>2</sup> , Mikami M <sup>3</sup> , Imai A <sup>2</sup> ( <sup>1</sup> Dept. of Dent. Hygiene, Nippon Dent. Univ. Coll. at Niigata, <sup>2</sup> Dept. of Biochem. Sch. of Life Dent. at Niigata, <sup>3</sup> Dept. of Microbiol. Sch. of Life Dent. at Niigata, Nippon Dent. Univ.)
<b>P2-65</b>	Inhibitory mechanisms of toll-like receptor ligand efficacy of heat shock protein by salivary histatin ○Imamura Y <sup>1,2</sup> , Wang PL <sup>3</sup> ( <sup>1</sup> Dept. of Pharmacol., Matsumoto Dent. Univ., <sup>2</sup> Div. of Mol. Eng. & Drug Dev. Sci., Grad. Sch. of Oral Med., Matsumoto Dent. Univ., <sup>3</sup> Dept. of Dent. Educ. Innov., Osaka Dent. Univ.)
<b>P2-66</b>	Study on the red fluorescence over-expression of salivary cells in tdTomato transgenic mice ○Furukawa S <sup>1</sup> , Hatakeyama S <sup>1</sup> , Hori T <sup>1</sup> , Ishisaki A <sup>2</sup> , Ohtsuka M <sup>3</sup> , Fujimura A <sup>4</sup> , Kinno Y <sup>1</sup> , Seino Y <sup>1</sup> , Miura H <sup>1</sup> ( <sup>1</sup> Divi. of Orthodontics, Dept. of Developmental Oral Health Sci., Sch. of Dent., Iwate Med. Univ., <sup>2</sup> Div. of Cellular Biosignal Sci., Dept. of Biochem., Iwate Med. Univ., <sup>3</sup> Dept. of Mol. Life Sci., Div. of Basic Mol. Sci. and Mol. Med., Sch. of Med., Tokai Univ., <sup>4</sup> Div. of Functional Morphol., Dept. of Anat., Iwate Med. Univ.)
<b>P2-67</b>	Immunohistochemical study of ABCG2 and CD133 in adenoid cystic carcinoma ○Tamamura R <sup>1</sup> , Tsujigiwa H <sup>2</sup> , Okada H <sup>1</sup> , Sakae T <sup>1</sup> , Nagatsuka H <sup>2</sup> ( <sup>1</sup> Dept. of Histol., Nihon Univ. Sch. of Dent. at Matsudo, <sup>2</sup> Dept. of Oral Pathol. & Med., Okayama Univ. Grad. Sch. of Med. Dent & Pharm.)
<b>P2-68</b>	Metabolic DNA chip analysis of salivary glands from the mice raised with different chewing load ○Kawahara K <sup>1</sup> , Morita K <sup>2</sup> , Shimizu Y <sup>3</sup> , Nikawa H <sup>1</sup> ( <sup>1</sup> Dept. of Oral Biol. & Engineering, Hiroshima Univ. Inst. of Biomed. & Health Sci., <sup>2</sup> Dept. Pharmacol., Hiroshima Bunka Gakuen Univ., <sup>3</sup> Dept. of Dent. Anesthesiol., Hiroshima Univ. Inst. of Biomed & Health Sci.)
<b>P2-69</b>	Immunohistochemical localization of PACAP receptor in developing mouse salivary glands ○Nonaka N <sup>1</sup> , Nakamura M <sup>1</sup> ( <sup>1</sup> Dept. of Oral Anat. & Dev. Biol., Showa Univ. Sch. of Dent.)
<b>P2-70</b>	Effects of aminothioli radioprotectors on X-ray irradiated mice fetal submandibular glands ○Nasu M <sup>1</sup> , Nakahara T <sup>2</sup> , Ide Y <sup>2</sup> ( <sup>1</sup> Res. Cent. for Odontol., Sch. of Life Dent. at Tokyo, Nippon Dent. Univ. , <sup>2</sup> Dept. of Dev. & Reg., Sch. of Life Dent. at Tokyo, Nippon Dent. Univ.)

<b>P2-71</b>	Effects of administration of ginger on major salivary glands of diabetic rats ○Ikeda R <sup>1,2</sup> , Sato S <sup>2</sup> , Kikuchi K <sup>2</sup> ( <sup>1</sup> Dept. of Dent. Hygiene, Nippon Dent. Univ. Coll. at Tokyo, <sup>2</sup> Dept. of Histol., Sch. of Life Dent. at Tokyo, Nippon Dent. Univ.)
<b>P2-72</b>	Effect of Shh on branching morphogenesis of mouse submandibular gland rudiment ○Mizukoshi K <sup>1</sup> , Koyama N <sup>1</sup> , Hayashi T <sup>1</sup> , Murakami M <sup>2</sup> , Sugiya H <sup>3</sup> , Matsuura S <sup>3</sup> , Kashimata M <sup>1</sup> ( <sup>1</sup> Asahi Univ., Sch. of Dent., Dept. of Dent. Pharmacol., <sup>2</sup> NIPS, Dept. of Mol. Physiol., <sup>3</sup> Nihon Univ., Sch. of Veter. Med., Dept. of Biochem.)
<b>P2-73</b>	What is the difference between embryonic day 12 and 13 submandibular glands of mice ○Koyama N <sup>1</sup> , Mizukoshi K <sup>1</sup> , Hayashi T <sup>1</sup> , Kashimata M <sup>1</sup> ( <sup>1</sup> Dept. of Dent. Pharmacol., Asahi Univ. Sch. Dent.)
<b>P2-74</b>	Mutant ALK2 receptors identified in patients with fibrodysplasia ossificans progressiva show different sensitivities to type II receptors ○Fujimoto M <sup>1,2</sup> , Osawa K <sup>1</sup> , Kokabu S <sup>1</sup> , Suda N <sup>2</sup> , Katagiri T <sup>1</sup> ( <sup>1</sup> Div. of Pathophysiol., Res. Cent. for Genomic Med., Saitama Med. Univ., <sup>2</sup> Div. of Orthodontics., Meikai Univ. Sch. Dent.)
<b>P2-75</b>	Identification of Rab14 GTPase as a CCN2/CTGF binding protein and the role of this interaction in vesicle trafficking in chondrocytes ○Hoshijima M <sup>1,2</sup> , Hattori T <sup>1</sup> , Aoyama E <sup>3</sup> , Nishida T <sup>1</sup> , Takigawa M <sup>1,3</sup> ( <sup>1</sup> Dept. of Biochem. & Mol. Bent., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>2</sup> Dept. of Ortho., Okayama Univ. Hosp., <sup>3</sup> Okayama Univ. Dent. Sch., Biodent. Res.)
<b>P2-76</b>	PKR plays an important role in the inflammatory bone destruction ○Teramachi J <sup>1</sup> , Morimoto H <sup>2</sup> , Haneji T <sup>1</sup> ( <sup>1</sup> Dept. of Oral Histol., The Univ. of Tokushima. Inst. of HBS, <sup>2</sup> Dept. of Histol., Univ. of Occupational and Environmental Health. Grad. Sch. of Med.)
<b>P2-77</b>	Tenocytes regulation of osteoblast survival ○Wada S <sup>1</sup> , Shimada A <sup>2</sup> , Nakamura Y <sup>1</sup> , Nakashima K <sup>2</sup> , Nifuji A <sup>2</sup> ( <sup>1</sup> Dept. of Orthod., Sch. of Dent. Med., Tsurumi Univ., <sup>2</sup> Dept. of Pharm., Sch. of Dent. Med., Tsurumi Univ.)
<b>P2-78</b>	The effects of estrogen on various ATPases in osteoblastic MC3T3-E1 cells ○Kong L <sup>1</sup> , Suzuki K <sup>2</sup> , Deyama Y <sup>1</sup> , Kudo T <sup>1</sup> , Yoshimura Y <sup>1</sup> (Hinode Dent. Hosp., <sup>2</sup> Div. of Mol. Cell Pharm., Dept. of Oral Pathobiol., Hokkaido Univ. Grad. Sch. of Dent. Med.)
<b>P2-79</b>	Promotion of Ccn2 expression and osteoblastic differentiation by actin polymerization, which is induced by laminar fluid flow stress ○Honjo T <sup>1</sup> , Kubota S <sup>2</sup> , Kamioka H <sup>3</sup> , Yamashiro T <sup>4</sup> , Takigawa M <sup>2</sup> , Takano-Yamamoto T <sup>5</sup> ( <sup>1</sup> Dept. of Oral & Maxillofac. Surg., Tottori Univ. Hosp., <sup>2</sup> Dept. of Biochem. & Mol. Dent., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>3</sup> Dept. of Ortho., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>4</sup> Dept. of Ortho. & Dentfa. Orthoped., Osaka Univ. Grad. Sch. of Dent., <sup>5</sup> Div. of Ortho. & Dentfa. Othoped., Tohoku Univ. Grad. Sch. of Dent.)
<b>P2-80</b>	Changes of SOST mRNA expression in the alveolar bone induced by mechanical stress ○Fujiwara A <sup>1</sup> , Watanabe R <sup>2</sup> , Aoki K <sup>1,3</sup> , Yano W <sup>2</sup> , Satoh K <sup>2</sup> , Kogaya Y <sup>2</sup> , Kitai N <sup>1</sup> , Ejiri S <sup>2</sup> ( <sup>1</sup> Dept. of Orthod. Sch. of Dent. Asahi Univ., <sup>2</sup> Dept. of Oral Anat. Sch. of Dent. Asahi Univ., <sup>3</sup> Dept. of Oral Radiol. Sch. of Dent. Asahi Univ.)
<b>P2-81</b>	Distribution of mechanical stress and sclerostin localization in alveolar bones induced by mechanical loading ○Watanabe R <sup>1</sup> , Aoki K <sup>2,3</sup> , Fujiwara A <sup>2</sup> , Yano W <sup>1</sup> , Satoh K <sup>1</sup> , Kogaya Y <sup>1</sup> , Kitai N <sup>2</sup> , Ejiri S <sup>1</sup> ( <sup>1</sup> Dept. of Oral Anat. Asahi Univ. Sch. of Dent., <sup>2</sup> Dept. of Orthod. Asahi Univ. Sch. of Dent., <sup>3</sup> Dept. of Oral Radiol. Asahi Univ. Sch. of Dent.)
<b>P2-82</b>	Effects of W9 peptide in osteoblast and osteoclast differentiation ○Nakamura M <sup>1,2</sup> , Udagawa N <sup>1,2</sup> , Aoki K <sup>3</sup> , Ohya K <sup>3</sup> ( <sup>1</sup> Dept. of Biochem., Matsumoto Dent. Univ., <sup>2</sup> Div. of Hard Tissue Res., Inst. of Oral Sci., Matsumoto Dent. Univ., <sup>3</sup> Pharmacol., Dept. of Hard Tissue Engineering Div. of Bio-Matrix, Grad. Sch., Tokyo Med. and Dent. Univ.)
<b>P2-83</b>	The role of p130Cas in osteoclastic bone resorption ○Osawa K <sup>1,2</sup> , Fukushima H <sup>1</sup> , Tamura Y <sup>3</sup> , Aoki K <sup>3</sup> , Ohya K <sup>3</sup> , Maki K <sup>4</sup> , Jimi E <sup>1</sup> ( <sup>1</sup> Div of Molecular Signaling and Biochem., Kyushu Dent. Univ., <sup>2</sup> Div. of Pathophysiol., Res. Cent. For Genomic Med., Saitama Med. Univ., <sup>3</sup> Sec. of Pharmacol., Dept. of Hard Tissue Engineering, Tokyo Med. And Dent. Univ., <sup>4</sup> Div. of Growth and Dev. for Function, Kyushu Dent. Univ.)
<b>P2-84</b>	The role of sonic hedgehog in fracture repair ○Matsumoto K <sup>1</sup> , Horikiri Y <sup>1</sup> , Shimo T <sup>1</sup> , Kurio N <sup>1</sup> , Okui T <sup>1</sup> , Kuroda M <sup>1</sup> , Sasaki A <sup>1</sup> ( <sup>1</sup> Dep. Oral and Maxillofac Surg., Okayama Univ.)
<b>P2-85</b>	Transcriptional regulation of bone sialoprotein (BSP) gene mediated by Runx2 ○Yamauchi M <sup>1</sup> ( <sup>1</sup> Dept. of Orthodontics, Kanagawa Dent. Univ.)
<b>P2-86</b>	Effects of chemical constituents from <i>Sanguisorba officinalis</i> on osteoclastogenesis ○Sakai E <sup>1</sup> , Iwatake M <sup>1</sup> , Nishishita K <sup>1</sup> , Fukuma Y <sup>1</sup> , Okamoto K <sup>1</sup> , Tsukuba T <sup>1</sup> ( <sup>1</sup> Div. Oral Pathopharmacol., Dept. Development. Reconstruct. Med., Nagasaki Univ. Grad. Sch. of Biomed. Sci.)
<b>P2-87</b>	Mechanical stress suppresses osteoclastogenesis via suppression of DC-STAMP in RAW264.7 cells ○Yoshimura Y <sup>1</sup> , Kameyama S <sup>1,2</sup> , Hasegawa T <sup>3</sup> , Deyama Y <sup>1</sup> , Suzuki K <sup>1</sup> , Iida J <sup>2</sup> ( <sup>1</sup> Dept. Mol. Cell Pharmacol., Grad. Sch. of Dent. Med., Hokkaido Univ., <sup>2</sup> Dept. Orthodont., Grad. Sch. of Dent. Med., Hokkaido Univ., <sup>3</sup> Dept. Pediatric Dent., Tokushima Univ. Hosp.)
<b>P2-88</b>	Clarification of the inhibitory mechanisms of the pomegranate polyphenol in osteoclastogenesis ○Iwatake M <sup>1</sup> , Sakai E <sup>1</sup> , Nishishita K <sup>1</sup> , Okamoto K <sup>1</sup> , Tsukuba T <sup>1</sup> ( <sup>1</sup> Dept. Oral Pathopharmacol., Grad. Sch. Biomed. Sci., Nagasaki Univ.)
<b>P2-89</b>	The effects of TRPV4 channel on bone fracture healing ○Okii Y <sup>1</sup> , Aijima R <sup>1</sup> , Hatakeyama J <sup>1</sup> , Oosaki Y <sup>1</sup> , Cho S <sup>1</sup> , Murata N <sup>1</sup> , Kituki T <sup>1</sup> , Kido M <sup>1</sup> ( <sup>1</sup> Dept. of Mol. Cell Biol. and Oral Anat. Grad. Sch. of Dent. Sci., Kyushu Univ)
<b>P2-90</b>	Effect of VCAM-1 on the osteoclast differentiation in RAW264.7 cells ○Hayashi H <sup>1</sup> , Uji Y <sup>1</sup> , Goda S <sup>2</sup> , Ikeo T <sup>2</sup> , Matsumoto N <sup>1</sup> ( <sup>1</sup> Dept. of Ortho. Osaka Dent. Univ. Grad. Sch. Dent., <sup>2</sup> Dept. of Biochem. Osaka Dent. Univ. Grad. Sch. Dent.)
<b>P2-91</b>	Osteoclast differentiators regulators in the conditioned medium of human osteosarcoma-derived MG-63 cells ○Karakida T <sup>1</sup> , Yamakoshi Y <sup>1</sup> , Oida S <sup>1</sup> ( <sup>1</sup> Dept. of Biochem. & Mol. Biol., Tsurumi Univ. Sch. of Dent. Med.)

<b>P2-92</b>	Wnt1 produced in the late stage of osteoclast differentiation enhances osteoclast function ○Amano S <sup>1</sup> , Ohmori Y <sup>1</sup> ( <sup>1</sup> Dept. of Oral Biol. and Tissue Engr., Meikai Univ. Sch. Dent.)
<b>P2-93</b>	Scanning electron microscopic observation of the tunneling nanotubes in cell fusion among osteoclast precursors ○Zhang JQ <sup>1</sup> , Takahashi A <sup>1,3</sup> , Kukita A <sup>2</sup> , Narimatsu K <sup>1,4</sup> , Uehara N <sup>1</sup> , Yamaza T <sup>1</sup> , Kido M <sup>1</sup> , Kukita T <sup>1</sup> ( <sup>1</sup> Dept. of Mol. Cell Biol. & Oral Anat., Fac. of Dent. Sci., Kyushu Univ., <sup>2</sup> Dept. of Microbiol., Fac. of Med., Saga Univ., <sup>3</sup> Dept. of Oral Rehabilitation, Fac. of Dent. Sci., Kyushu Univ., <sup>4</sup> Dept. of Orthodont., Fac. of Dent. Sci., Kyushu Univ.)
<b>P2-94</b>	Tensile force induces vascular formation in cranial sutures via CTGF signaling ○Takeshita N <sup>1</sup> , Hasegawa M <sup>1</sup> , Seki D <sup>1</sup> , Miyashita S <sup>1</sup> , Takano-Yamamoto T <sup>1</sup> ( <sup>1</sup> Div. of Orthod. & Dentofacial Orthop., Dept. of Oral Health & Dev., Tohoku Univ. Grad. Sch. of Dent.)
<b>P2-95</b>	Quercetin inhibits osteoclastogenesis via membrane-type estrogen receptor GPR30 ○Masuhara M <sup>1</sup> , Tsukahara T <sup>1</sup> , Sato T <sup>1</sup> ( <sup>1</sup> Dept. of Appl. Pharm., Kagoshima Univ. Grad. Sch. of Med. Dent. Sci.)
<b>P2-96</b>	Preparation of mouse macrophage reporter cell lines which express fluorescent protein by RANKL and analysis of osteoclast differentiation ○Kukita A <sup>1</sup> , Kukita T <sup>2</sup> ( <sup>1</sup> Dept. of Microbiol. Fac. of Med. Saga Univ., <sup>2</sup> Dept. of Mo. Cell & Oral Anat. Fac. of Dent. Kyushu Univ.)
<b>P2-97</b>	Effects of IL-17A on the osteoclast differentiation of RAW264.7 cells ○Inoue H <sup>1</sup> , Domae E <sup>2</sup> , Goda S <sup>2</sup> , Uchihashi K <sup>1</sup> , Nishikawa Y <sup>1</sup> ( <sup>1</sup> Dept. of Physiol., Osaka Dent. Univ., <sup>2</sup> Dept. of Biol. Chem., Osaka Dent. Univ.)
<b>P2-98</b>	Isolation of a novel lectin from the globiferous pedicellariae of the toxopneustid sea urchin, <i>Toxopneustes pileolus</i> ○Nakagawa H <sup>1</sup> , Shinohara M <sup>2</sup> , Nishiitsutsuji R <sup>2</sup> , Ohura K <sup>2</sup> ( <sup>1</sup> Dept. of Environmental Symbiosis, Inst. of Socio-Arts and Sci., Univ. of Tokushima Grad. Sch., <sup>2</sup> Dept. of Pharmacol., Osaka Dent. Univ.)
<b>P2-99</b>	Effect of serum factors on increment of alkaline phosphatase activity in osteoblastic-like cells MC3T3-E1 ○Toen T <sup>1</sup> , Fukada T <sup>1</sup> , Hashimoto S <sup>1</sup> ( <sup>1</sup> Sect. of Radioisotopes Res., Res. Center for Odontol., The Nippon Dent. Univ.)
<b>P2-100</b>	Effects of EGF on the proliferation and myofibroblast differentiation of periodontal ligament-derived endothelial progenitor cell-like fibroblastic cells ○Kimura H <sup>1,2</sup> , Okubo N <sup>1</sup> , Chosa N <sup>1</sup> , Ibi M <sup>1</sup> , Kyakumoto S <sup>1</sup> , Kamo M <sup>1</sup> , Kinno Y <sup>2</sup> , Miura H <sup>2</sup> , Isisaki A <sup>1</sup> ( <sup>1</sup> Div. of Cell. Biopsig. Sci., Dept. of Biochem., Iwate Med. Univ., <sup>2</sup> Div. of Orthodont., Dept. of Oral Health Sci., Iwate Med. Univ. Sch. of Dent.)
<b>P2-101</b>	Identification of molecules involved in improvement of insulin resistance by D-dopachrome tautomerase ○Iwata T <sup>1</sup> , Ishimoto K <sup>2</sup> , Mizusawa N <sup>1</sup> , Yoshimoto K <sup>1</sup> ( <sup>1</sup> Dept. of Med. Pharmacol., Inst. of Health Biosci, Univ. of Tokushima Grad. Sch., <sup>2</sup> Dept. of Orthodontics & Dentofacial Othropedics, Inst. of Health Biosci, Univ. of Tokushima Grad. Sch.)
<b>P2-102</b>	The renal lymphangiogenesis of type 1 and type 2 diabetic mice ○Uchiyama T <sup>1</sup> , Takata S <sup>1</sup> , Turuga E <sup>2</sup> , Hatakeyama Y <sup>2</sup> , Ishikawa H <sup>1</sup> , Sawa Y <sup>2</sup> ( <sup>1</sup> Fukuoka Dent. Coll. Dept. of Oral Growth & Dev., <sup>2</sup> Fukuoka Dent. Coll. Dept. of Morp Biol. )
<b>P2-103</b>	Functional role of adenosine receptors in insulin secretion by pancreatic islets ○Ohtani M <sup>1</sup> , Ohura K <sup>1</sup> ( <sup>1</sup> Dept. of Pharmacol., Osaka Dent. Univ.)
<b>P2-104</b>	Regulation of insulin secretion by phospholipase C-related catalytically inactive protein ○Asano S <sup>1</sup> , Kanematsu T <sup>1</sup> ( <sup>1</sup> Dept. of Cell. & Mol. Pharm., Hiroshima Univ.)
<b>P2-105</b>	The effects of dietary sodium-restriction in developing stage on the morphology of mandible and teeth ○Inui-Yamamoto C <sup>1</sup> , Ueda K <sup>1</sup> , Nakatsuka M <sup>1</sup> , Kumabe S <sup>1</sup> , An C <sup>1</sup> , Matsuda Y <sup>1</sup> , Iwai Y <sup>1</sup> ( <sup>1</sup> Dept. of Oral Anat., Osaka Dent. Univ.)
<b>P2-106</b>	Relationship between natural bite size and body mass index (BMI) ○Shiozawa K <sup>1</sup> , Okumura S <sup>1</sup> ( <sup>1</sup> Dept. of Physiol. Tsurumi Univ. Sch. of Dent. Med.)
<b>P2-107</b>	Molecular characterization of PRIP as an adaptor protein of Akt ○Sugiyama G <sup>1</sup> , Takeuchi H <sup>2</sup> , Nagano K <sup>1</sup> , Otani T <sup>1</sup> , Hirata M <sup>1</sup> ( <sup>1</sup> Lab. Mol. Cell. Biochem., Fac. Dent. Sci., Kyushu Univ., <sup>2</sup> Div. of Appl. Pharmacol., Kyushu Dent. Univ.)
<b>P2-108</b>	A self-limiting regulation of TRPC3,C6,C7 channels linked with PI(4,5)P <sub>2</sub> -DAG signaling ○Imai Y <sup>1</sup> , Yoshimoto S <sup>1,2</sup> ( <sup>1</sup> Special Patient Oral Care Unit of Kyushu Univ. Hosp., <sup>2</sup> Lab. of Mol. Cell. Biochem., Fac. of Dent. Sci., Kyushu Univ.)
<b>P2-109</b>	Involvement of AMPA receptor (GluR2 and GluR3) trafficking in trigeminal spinal subnucleus caudalis neurons in face acute-inflammatory pain ○Tsuboi Y <sup>1</sup> , Iwata K <sup>1</sup> ( <sup>1</sup> Dept. of Physiol., Nihon Univ. Sch. of Dent. )
<b>P2-110</b>	Injury of pancreas elastase by a system composed of myeloperoxidase, hydrogen peroxide and chloride ○Onishi M <sup>1</sup> , Odajima T <sup>2</sup> ( <sup>1</sup> Div. of Biochem., Sch. of Dent., Health Sci. Univ. of Hokkaido, <sup>2</sup> Sapporo Res. Inst. of Basic Med. & Pedagogy)
<b>P2-111</b>	Mechanism of inhibition of nitric oxide synthase gene <i>NOS2</i> expression by interleukin-4 ○Hiroi M <sup>1</sup> , Yamaguchi H <sup>1</sup> , Ohmori Y <sup>1</sup> ( <sup>1</sup> Div. of Microbiol. and Immunol., Dept. of Oral Biol. and Tissue Engineering, Meikai Univ. Sch. of Dent.)
<b>P2-112</b>	Anti-inflammatory effect of rikkosan on IL-1B-induced gingival fibroblast and periodontal ligament fibroblast ○Horie N <sup>1,4</sup> , Kato T <sup>1</sup> , Hino S <sup>1</sup> , Nagao T <sup>2</sup> , Adachi K <sup>2</sup> , Kaneko T <sup>3,4</sup> , Shimoyama T <sup>1</sup> , Kusama K <sup>4</sup> , Sakagami H <sup>2</sup> ( <sup>1</sup> Dept. Oral Surg. Saitama Med. Center, Saitama Med. Univ., <sup>2</sup> Dept. of Phalmacol., Meikai Univ. Sch. of Dent., <sup>3</sup> Dept. of Oral and Maxillofac. Surg. Nihon Univ. Sch. of Dent., <sup>4</sup> Dept. of Pathol, Meikai Univ. Sch. of Dent.)
<b>P2-113</b>	Unique features of sublingual mucosal dendritic cells after antigen application ○Zhang C <sup>1</sup> , Ohno T <sup>1</sup> , Azuma M <sup>1</sup> ( <sup>1</sup> Dept. Mol. Immunol., Grad. Sch., Tokyo Med. Dent. Univ.)



<b>P2-114</b>	Localization of tumor associated macrophages in precancerous lesion and mechanism of the macrophage differentiation ○Mori K <sup>1</sup> , Hiroi M <sup>2</sup> , Shimada J <sup>1</sup> , Ohmori Y <sup>2</sup> ( <sup>1</sup> Div. of First Oral and Maxillofacial Surgery, Dept. of Diagnosis and Therapeutics Sci, Meikai Univ. Sch. of Dent., <sup>2</sup> Div. of Microbiol. and Immunol., Dept. of Oral Biol. and Tissue Engineering, Meikai Univ. Sch. of Dent.)
<b>P2-115</b>	Locally injected dexmedetomidine inhibits carrageenin-induced inflammatory responses in injected region ○Sukegawa S <sup>1</sup> , Nagatsuka H <sup>2</sup> , Miyawaki T <sup>1</sup> ( <sup>1</sup> Dept. of Dent. Anesth. & Special Care Dent., Okayama Univ. Grad. Sch. of Med., Dent. & Pharm., <sup>2</sup> Dept. of Oral Path. & Med., Okayama Univ., Grad. Sch. of Med., Dent. & Pharm. )
<b>P2-116</b>	Mechanisms of resistance to interferon gamma in mouse squamous carcinoma cells ○Yamaguchi H <sup>1</sup> , Hiroi M <sup>1</sup> , Ohmori Y <sup>1</sup> (Meikai Univ. Sch. of Dent., Dept. of Oral Biol. & Tissue Eng., Div. of Microbio. & Immun.)
<b>P2-117</b>	Effect of eugenol on the pro-inflammatory cytokine production by normal oral cells ○Koh T <sup>1</sup> , Saito Y <sup>2</sup> , Murakami Y <sup>1</sup> , Katayama T <sup>1,3</sup> , Sakagami H <sup>2</sup> ( <sup>1</sup> Div. Oral Diagnosis, Meikai Univ. Sch. Dent., <sup>2</sup> Div. Pharmacol., Meikai Univ. Sch. Dent., <sup>3</sup> Div. Operative Dent., Meikai Univ. Sch. Dent.)
<b>P2-118</b>	Determination of migratory dental pulp dendritic cells in regional lymph nodes using Kaede transgenic mice ○Bhingare A <sup>1</sup> , Ohno T <sup>1</sup> , Zhang C <sup>1</sup> , Azuma M <sup>1</sup> ( <sup>1</sup> Dept. Mol. Immunol., Grad. Sch., Tokyo Med. Dent. Univ.)
<b>P2-119</b>	Expression of mouse B-defensin-3 in the upper digestive mucosa under stress conditions ○Kawashima R <sup>1</sup> , Shimizu T <sup>2</sup> , Yamamoto Y <sup>2</sup> , Matsuki T <sup>2</sup> , Hayashi T <sup>2</sup> , To M <sup>2</sup> , Kondo Y <sup>2,3</sup> , Saruta J <sup>2</sup> , Tsukinoki K <sup>2</sup> ( <sup>1</sup> Dept. of Oral & Maxillofacial Surg., Jichi Med. Univ., <sup>2</sup> Dept. of Environ. Pathol., Grad. Sch. of Kanagawa Dent. Univ., <sup>3</sup> Dept. of Pathol., Tokai Univ. Sch. of Med.)
<b>P2-120</b>	Effects of zinc-oxide eugenol mixture on expression of prostaglandin E synthases in inflamed pulps of rats ○Fukada T <sup>1</sup> , Toen T <sup>1</sup> , Hashimoto S <sup>1</sup> ( <sup>1</sup> Sect. of Radioisotopes Res., Res. Center for Odontol., Sect. of Life Dent. at Tokyo, The Nippon Dent. Univ.)
<b>P2-121</b>	Effects of Rac1 on the production of MMP-3 by TNF- $\alpha$ ○Komasa R <sup>1</sup> , Goda S <sup>2</sup> , Yoshikawa K <sup>1</sup> , Ikee T <sup>2</sup> , Yamamoto K <sup>1</sup> ( <sup>1</sup> Dept. of Operative., Osaka Dent. Univ., <sup>2</sup> Dept. of Biochem., Osaka Dent. Univ.)
<b>P2-122</b>	Effect of apelin on inflammatory response in macrophage ○Obara N <sup>1</sup> , Akifusa S <sup>3</sup> , Usui M <sup>1</sup> , Kasai H <sup>1</sup> , Okinaga T <sup>2</sup> , Ariyoshi W <sup>2</sup> , Nishihara T <sup>2</sup> ( <sup>1</sup> Div. of Periodontol., Kyushu Dent. Univ., <sup>2</sup> Div. of Infect. & Molecul. Biol., Kyushu Dent. Univ., <sup>3</sup> Dept. of Oral Health Manage, Kyushu Dent. Univ.)
<b>P2-123</b>	Mice MyD88 deficiency promotes B-1 cell accumulation in submandibular glands and basal production of salivary immunoglobulins ○Into T <sup>1</sup> , Takigawa T <sup>2</sup> , Shibata K <sup>3</sup> ( <sup>1</sup> Dept. Oral Microbiol., Asahi Univ. Sch. Dent., <sup>2</sup> Dept. Oral Anat., Asahi Univ. Sch. Dent., <sup>3</sup> Lab. Oral Mol. Microbiol., Dept. Oral Pathobiol. Sci., Hokkaido Univ. Grad. Sch. Dent. Med.)
<b>P2-124</b>	Study of ameloblastoma and keratocystic odontogenic tumor ○Miyazaki Y <sup>1</sup> , Inoue H <sup>1</sup> , Kikuchi K <sup>1</sup> , Kusama K <sup>1</sup> ( <sup>1</sup> Div. of Pathol., Meikai Univ. Sch. of Dent.)
<b>P2-125</b>	Immunohistochemical study of BAFF-R in malignant lymphomas of oral and maxillofacial regions ○Okada O <sup>1</sup> ( <sup>1</sup> Dept. of Pathol., The Nippon Dent. Univ. Sch. of Life Dent. at Niigata)
<b>P2-126</b>	Gene expression profile of side population cells in human oral cancer cell line ○Nozaki T <sup>1</sup> , Nishiitsutsuji R <sup>2</sup> , Ohura K <sup>1</sup> ( <sup>1</sup> Dept. of Pharmacol., Osaka Dent. Univ., <sup>2</sup> Dept. of Pharmacol., Osaka Dent. Univ., Grad. Sch. of Dent.)
<b>P2-127</b>	Pre-B-cell leukemia homeobox interacting protein 1 (HPIP) regulates invasion of oral squamous cell carcinoma ○Irie T <sup>1</sup> , Hokazono C <sup>1</sup> , Yasuhara R <sup>1</sup> , Tanaka J <sup>1</sup> , Kohno Y <sup>1</sup> , Yamamoto G <sup>1</sup> , Mishima K <sup>1</sup> ( <sup>1</sup> Div. of Pathol., Dept. of Oral. Diag. Sci., Sch. of Dent., Showa Univ.)
<b>P2-128</b>	Malignancy of mouse OSCC cell line, Sq1979, affects IFN-gamma producing capability of host spleens cells ○Azuma Y <sup>1</sup> , Kamiya M <sup>2</sup> , Inagaki T <sup>3</sup> , Kawaki H <sup>2</sup> , Takayama E <sup>2</sup> , Sakurai S <sup>1</sup> , Chihara E <sup>1</sup> , Kondoh N <sup>2</sup> ( <sup>1</sup> Dept. of Anesthesiol., Asahi Univ. Sch. Dent., <sup>2</sup> Dept. of Oral Biochem., Asahi Univ. Sch. Dent., <sup>3</sup> Dept. of Oral Maxillofacial Surg., Asahi Univ. Sch. Dent.)
<b>P2-129</b>	Immunohistochemical examination of HSP27 in ameloblastomas ○Nakano K <sup>1</sup> , Kubo K <sup>2</sup> , Sugita Y <sup>2</sup> , Maeda H <sup>2</sup> , Hasegawa H <sup>1</sup> , Kawakami T <sup>1</sup> ( <sup>1</sup> Hard Tissue Pathol. Unit, Matsumoto Dent. Univ. Grad. Sch. of Oral Med., <sup>2</sup> Dept. of Oral Pathol., Sch. of Dent., Aichi Gakuin Univ.)
<b>P2-130</b>	WISP1/CCN4: A potential target for inhibiting prostate cancer growth and metastasis to bone ○Ono M <sup>1,2</sup> , Kuboki T <sup>1</sup> , Young M <sup>2</sup> ( <sup>1</sup> Dept. of Oral Rehab. & Reg. Med., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>2</sup> NIDCR, NIH)
<b>P2-131</b>	Curious morphological change and transformation by extracellular Ca <sup>2+</sup> and RANKL in ameloblastoma cells ○Morita H <sup>1</sup> , Yoshimoto S <sup>1,2</sup> , Nakamura S <sup>3</sup> , Hirata M <sup>2</sup> ( <sup>1</sup> Special Patient Oral Care Unit of Kyushu Univ. Hosp., <sup>2</sup> Lab. of Mol. Cell. Biochem., Fac. of Dent. Sci., Kyushu Univ., <sup>3</sup> Sect. of Oral Maxillofac. Oncol., Div. of Maxillofac. Diag. Surg. Sci., Fac. of Dent. Sci., Kyushu Univ.)
<b>P2-132</b>	The role of sonic hedgehog as an angiogenic factor in oral squamous cell carcinoma ○Kuroda M <sup>1</sup> , Kurio N <sup>1</sup> , Shimo T <sup>1</sup> , Ibaragi S <sup>1</sup> , Okui T <sup>1</sup> , Horikiri Y <sup>1</sup> , Matsumoto K <sup>1</sup> , Sasaki A <sup>1</sup> ( <sup>1</sup> Dept. Oral and Maxillofac Surg., Okayama Univ.)
<b>P2-133</b>	The antidiabetic drug metformin inhibits IGF-1 induced oral squamous cell proliferation in vitro and in vivo ○Kurio N <sup>1</sup> , Shimo T <sup>1</sup> , Kuroda H <sup>1</sup> , Matsumoto K <sup>1</sup> , Sasaki A <sup>1</sup> ( <sup>1</sup> Dept. of Oral and Maxillo. Surg., Okayama Univ. Grad. Sch. of Med. Dent. Pharm.)
<b>P2-134</b>	Significance of podoplanin expressing stromal fibroblasts in oral squamous cell carcinoma ○Inoue H <sup>1</sup> , Kikuchi K <sup>1</sup> , Miyazaki Y <sup>1</sup> , Kusama K <sup>1</sup> ( <sup>1</sup> Div. of Pathol., Meikai Univ. Sch. of Dent.)
<b>P2-135</b>	Metabolite profiling in oral cells after exposure to eugenol ○Saito Y <sup>1</sup> , Koh T <sup>2</sup> , Murakami Y <sup>2</sup> , Tanaka S <sup>2</sup> , Katayama T <sup>2</sup> , Sakagami H <sup>1</sup> , Sugimoto M <sup>3</sup> ( <sup>1</sup> Dev. Pharmacol., Meikai Univ. Sch. Dent., <sup>2</sup> Div. Oral Diagnosis, Meikai Univ. Sch. Dent., <sup>3</sup> Grad. Sch. Media Govern., Keio Univ.)

<b>P2-136</b>	Potent analgesic effects of platelet-activating factor (PAF) antagonists in a bone cancer pain model ○Motoyama N <sup>1</sup> , Morita K <sup>2</sup> , Kitayama T <sup>3</sup> , Kanematsu T <sup>3</sup> , Kurihara H <sup>4</sup> , Dohi T <sup>5</sup> ( <sup>1</sup> Dept. Dent. Sci. Health Promot., Hiroshima Univ., <sup>2</sup> Dept. Pharmacol., Hiroshima Bunka Gakuen Univ., <sup>3</sup> Dept. Cell & Mol. Pharmacol., Hiroshima Univ., <sup>4</sup> Dept. Periodontal Med., Hiroshima Univ., <sup>5</sup> Dept. Clinical Pharmacol., Nihon Pharmaceutical Univ.)
<b>P2-137</b>	Change of mitochondria on the zoledronate-induced cytotoxicity ○Tajima M <sup>1</sup> , Sakagami H <sup>1</sup> ( <sup>1</sup> Div. of Pharmacol., Dept. of Diagnostic and Therapeutic Sci, Meikai Univ. Sch. of Dent.)
<b>P2-138</b>	Designing of new cytotoxic isoquinolines against human oral squamous cell carcinoma (Part3) ○Ishihara M <sup>1</sup> , Yamauthi M <sup>2</sup> ( <sup>1</sup> Div. of Basic Chemistry Oral Biol. and Tissue Engineering, Meikai Univ. Sch. Dent., <sup>2</sup> Div. Med. Informatics Dept. of Community Health Sci.)
<b>P2-139</b>	Analgesic action of chitosan oligosaccharides on formalin-induced pain ○Terasawa R <sup>1</sup> , Koiso K <sup>1</sup> , Yonehara N <sup>1</sup> ( <sup>1</sup> Dept. Dent. Pharmacol., Ohu Univ. Sch. Dent.)
<b>P2-140</b>	Metabolite profiling in oral cells after exposure to sodium fluoride ○Sakagami H <sup>1</sup> , Tanaka S <sup>2</sup> , Katayama T <sup>2,3</sup> , Garcia Contreras R <sup>1,4</sup> , Sugimoto M <sup>5</sup> ( <sup>1</sup> Div. Pharmacol., Meikai Univ. Sch. Dent., <sup>2</sup> Div. Oral Diagnostics, Meikai Univ. Sch. Dent., <sup>3</sup> Div. Operative Dent., Meikai Univ. Sch. Dent., <sup>4</sup> Autonomous Univ. State Mexico, <sup>5</sup> Inst. Adv. Biosci., Keio Univ.)
<b>P2-141</b>	The inhibitory mechanism of eugenol on TRPV1 channel activated by proton ○Yoshida T <sup>1</sup> , Takahashi K <sup>2</sup> , Wakamori M <sup>1</sup> ( <sup>1</sup> Div. Mol. Pharmacol. and Cell Biophys., Dept. Oral Biol. Tohoku Univ. Grad. Sch. of Dent., <sup>2</sup> Tohoku Univ. Sch. of Dent.)
<b>P2-142</b>	Anti-UV activity of Kampo medicines, constituent plant extracts and glycyrrhizin ○Kato T <sup>1</sup> , Hino S <sup>1</sup> , Horie N <sup>1,2</sup> , Kaneko T <sup>2,4</sup> , Shimoyama T <sup>1</sup> , Kusama K <sup>2</sup> , Sakagami H <sup>3,5</sup> ( <sup>1</sup> Dept. of Oral Surg., Saitama Med. Center, Saitama Med. Univ., <sup>2</sup> Div. of Patho. Dept. of Diag. and Thera. Sci., Meikai Univ. Sch. of Dent., <sup>3</sup> MPL., Meikai Univ. Sch. of Dent., <sup>4</sup> Dept. of Oral and Maxillo. Surg., Nihon Univ. Sch. of Dent., <sup>5</sup> Div. of Pharm. Dept. of Diag. and Thera. Sci., Meikai Univ. Sch. of Dent. )
<b>P2-143</b>	The effect of melanoidins on the stability of bactericidal dental resin binding hydrogen peroxide molecule ○Inoue K <sup>1</sup> , Mizuno M <sup>2</sup> , Takahashi S <sup>1</sup> , Ushijima N <sup>3</sup> , Nakajima T <sup>1</sup> , Matsumura K <sup>1</sup> , Domon T <sup>1</sup> ( <sup>1</sup> Dept. of Oral Functional Anat., Grad. Sch. of Dent. Med., Hokkaido Univ., <sup>2</sup> Dept. of Oral Biochem., Grad. Sch. of Dent. Med., Hokkaido Univ., <sup>3</sup> Lab. EM, Grad. Sch. of Dent. Med., Hokkaido Univ.)
<b>P2-144</b>	Structure and function of <i>Porphyromonas gingivalis</i> outer membrane vesicles purified by density gradient centrifugation ○Nakao R <sup>1</sup> , Senpuku H <sup>1</sup> ( <sup>1</sup> Dept. of Bacteriol. I, National Inst. Infect. Dis.)
<b>P2-145</b>	The inhibition of PI3K/Akt pathway by <i>Porphyromonas gingivalis</i> gingipains ○Nakayama M <sup>1</sup> , Inoue T <sup>1</sup> , Nakayama K <sup>2</sup> , Ohara N <sup>1</sup> ( <sup>1</sup> Dept. of Oral Microbiol., Okayama Univ. Grad. Sch. of Med. Dent & Pharm., <sup>2</sup> Dept. of Microbiol. and Oral Infect., Nagasaki Univ. Grad. Sch. of Biomed. Sci.)
<b>P2-146</b>	Group A <i>Streptococcus</i> translocates across an epithelial barrier via calpain activation ○Sumitomo T <sup>1</sup> , Nakata M <sup>1</sup> , Terao Y <sup>2</sup> , Kawabata S <sup>1</sup> ( <sup>1</sup> Dept. Oral and Mol. Microbiol., Grad. Sch. Dent., Osaka Univ., <sup>2</sup> Div. Microbiol. Infect. Dis., Grad. Sch. Med. Dent. Sci., Niigata Univ.)
<b>P2-147</b>	Characterization of the <i>S. mutans</i> <i>malQ</i> gene involved in maltooligosaccharide catabolism ○Sato Y <sup>1</sup> , Okamoto-Shibayama K <sup>2</sup> , Azuma T <sup>1,3</sup> ( <sup>1</sup> Dept. of Biochem., Tokyo Dent. Coll., <sup>2</sup> Dept. of Microbiol., Tokyo Dent. Coll., <sup>3</sup> Oral Health Sci. Center, Tokyo Dent. Coll.)
<b>P2-148</b>	Distribution of <i>Rothia aeria</i> in the oral cavities ○Tsuchibashi O <sup>1</sup> , Uchibori S <sup>2</sup> , Fukumoto M <sup>1</sup> ( <sup>1</sup> Dept. of Depart. of Labo. Med. for Dent., Nihon Univ. Sch. Dent. at Matsudo, <sup>2</sup> Dept. of Dept. of Cr. Br. Prosthodont., Nihon Univ. Sch. Dent. at Matsudo)
<b>P2-149</b>	<i>Streptococcus salivarius</i> like strains from elephant oral cavity ○Saito M <sup>1</sup> , Takada K <sup>1</sup> , Hirasawa M <sup>1</sup> ( <sup>1</sup> Dept. of Oral Microbiol. Nihon Univ. Sch. of Dent. at Matsudo)
<b>P2-150</b>	Metabolomics approach on sugar alcohols metabolism of human dental plaque <i>in vivo</i> ○Washio J <sup>1</sup> , Takahashi N <sup>1</sup> ( <sup>1</sup> Div. of Oral Ecol. and Biochem., Tohoku Univ. Grad. Sch. Dent.)
<b>P2-151</b>	A study of <i>Porphyromonas gingivalis</i> non-coding RNA in response to an environmental stress ○Hiratsuka K <sup>1</sup> ( <sup>1</sup> Dept. of Biochem. & Mol. Biol., Nihon Univ. Sch. of Dent. at Matsudo)
<b>P2-152</b>	Distribution of <i>Rothia aeria</i> in pharynx ○Uchibori S <sup>1</sup> , Tsuchibashi O <sup>2</sup> ( <sup>1</sup> Dept. of Dept. of Cr. Br. Prosthodont., Nihon Univ. Sch. Dent. at Matsudo, <sup>2</sup> Dept. of Depart. of Labo. Med for Dent., Nihon Univ. Sch. Dent. at Matsudo)
<b>P2-153</b>	Mechanism of <i>Candida albicans</i> induced IL-1 beta production ○Hasebe A <sup>1</sup> , Saeki A <sup>1</sup> , Sugiyama M <sup>1</sup> , Shibata K <sup>1</sup> ( <sup>1</sup> Div. of Oral Mol. Microbiol., Dept. of Oral Pathobiol. Sci., Hokkaido Univ. Grad. Sch. of Dent. Med.)
<b>P2-154</b>	Antifungal activity and engineering of protamine-derived peptide ○Cho T <sup>1</sup> , Nagao J <sup>1</sup> , Imayoshi R <sup>1</sup> ( <sup>1</sup> Dept. of Functional Biosci., Sec. of Infection Biol., Fukuoka Dent. Coll.)
<b>P2-155</b>	Role of Bacillus Calmette-Guerin on the anti-tumor activity in oral cancer ○Murakami J <sup>1</sup> , Ohara N <sup>2</sup> , Nakayama M <sup>2</sup> , Tsujigiwa H <sup>3</sup> , Nagatsuka H <sup>3</sup> , Konouchi H <sup>1</sup> , Yanagi Y <sup>1</sup> , Unetsubo T <sup>4</sup> , Asaumi J <sup>4</sup> ( <sup>1</sup> Dept. Oral Rad, Okayama Univ. Hosp., <sup>2</sup> Dept. Oral Microbiol., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm., <sup>3</sup> Dept. Oral Pathol., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm., <sup>4</sup> Dept. Oral Rad., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm.)
<b>P2-156</b>	Characterization of <i>Porphyromonas gingivalis</i> HtrA protein ○Yukitake H <sup>1</sup> , Sato K <sup>1</sup> , Nakayama K <sup>1</sup> ( <sup>1</sup> Dept. Mol. Microbiol. Immunol., Grad. Sch. BioMed. Sci., Nagasaki Univ.)

<b>P2-157</b>	Analysis of PorSS PorU in periodontal bacteria ○Narita Y <sup>1</sup> , Sato K <sup>1</sup> , Yukitake H <sup>1</sup> , Nakayama K <sup>1</sup> ( <sup>1</sup> Dept. Mol. Microbiol. Immunol., Grad. Sch. BioMed. Sci., Nagasaki Univ.)
<b>P2-158</b>	Oral bacteria-related enhancement of influenza virus infections ○Kamio N <sup>1</sup> , Imai K <sup>1</sup> , Tamura M <sup>1</sup> , Cueno M <sup>1</sup> , Ochiai K <sup>1</sup> ( <sup>1</sup> Dept. Microbiol., Nihon Univ. Sch. of Dent.)
<b>P2-159</b>	Evaluation of pathogenicity of <i>Candida albicans</i> in germination-ready states using a silkworm infection model ○Matsumoto H <sup>1</sup> , Nagao J <sup>1</sup> , Imayoshi R <sup>1</sup> , Cho T <sup>1</sup> ( <sup>1</sup> Dept. of Functional Biosci., Sec. of Infection Biol., Fukuoka Dent. Coll.)
<b>P2-160</b>	Comprehensive analysis of indigenous plaque microbiota of pre- and post-weanling, and grown-up mice ○Matsuyama J <sup>1</sup> , Sato T <sup>2</sup> , Quispe-Salcedo A <sup>3</sup> , Takahashi N <sup>2</sup> , Ohshima H <sup>3</sup> ( <sup>1</sup> Div. of Pediatr. Dent., Niigata Univ. Grad. Sch. Med. Dent. Sci., <sup>2</sup> Div. of Oral Ecol. Biochem., Tohoku Univ. Grad. Sch. Dent., <sup>3</sup> Div. of Anat. Cell Biol. Hard Tissue, Niigata Univ. Grad. Sch. Med. Dent. Sci.)
<b>P2-161</b>	Isolation and characterization of phosphoproteins from <i>Porphyromonas gingivalis</i> ○Izumigawa M <sup>1</sup> , Ikai Y <sup>1</sup> , Horie T <sup>1</sup> , Hasegawa Y <sup>2</sup> , Kawabata A <sup>1</sup> , Kitai N <sup>1</sup> , Murakami Y <sup>2</sup> ( <sup>1</sup> Dept. of Orthod., Asahi Univ. Sch. Dent., <sup>2</sup> Dept. of Oral Microbiol., Asahi Univ. Sch. Dent.)
<b>P2-162</b>	Cell surface protein of <i>Candida albicans</i> involved in its dimorphic transition ○Shibayama K <sup>1</sup> , Kikuchi Y <sup>1</sup> , Kokubu E <sup>1</sup> , Sato Y <sup>2</sup> , Ishihara K <sup>1</sup> ( <sup>1</sup> Dept. of Microbiol., Tokyo Dent. Coll., <sup>2</sup> Dept. of Biochem., Tokyo Dent. Coll.)
<b>P2-163</b>	Effect of <i>Prevotella intermedia</i> heat shock proteins on biofilm formation ○Yamanaka T <sup>1</sup> , Yamane K <sup>1</sup> , Nambu T <sup>1</sup> , Mashimo C <sup>1</sup> , Fukushima H <sup>1</sup> ( <sup>1</sup> Dept. of Bacteriol., Osaka Dent. Univ.)
<b>P2-164</b>	Ig-like domain of gingipain ○Sato K <sup>1</sup> , Yukitake H <sup>1</sup> , Narita Y <sup>1</sup> , Nakayama K <sup>1</sup> ( <sup>1</sup> Dept. Mol. Microbiol. Immunol., Grad. Sch. Biomed. Sci., Univ. of Nagasaki, <sup>2</sup> Dept. Physics, Gakushuin Univ.)
<b>P2-165</b>	<i>Streptococcus anginosus</i> infection and aberrant AID expression in oral cancer ○Sasaki M <sup>1</sup> , Kodama Y <sup>1</sup> , Shimoyama Y <sup>1</sup> , Kimura S <sup>1</sup> ( <sup>1</sup> Div. Mol. Microbiol., Iwate Med. Univ.)
<b>P2-166</b>	Introduction of a new HIV test system using OraSure <sup>®</sup> to identify HIV positive people ○Imai K <sup>1</sup> , Ochiai K <sup>1</sup> ( <sup>1</sup> Dept. of Microbiol., Nihon Univ. Sch. of Dent, )
<b>P2-167</b>	Genome analysis of <i>Streptococcus mutans</i> -like strain isolated from lesser panda oral cavity ○Kuwahara N <sup>1</sup> , Nito M <sup>2</sup> , Okamoto M <sup>3</sup> , Saito M <sup>1</sup> , Hirasawa M <sup>1</sup> , Takada K <sup>1</sup> ( <sup>1</sup> Dept. of Oral Microbiol., Nihon Univ. Sch. of Dent. at Matsudo, <sup>2</sup> Dept. of Mol. Microbiol. Immunol., Nagasaki Univ. Grad. Sch. Biomed. Sci., <sup>3</sup> Dept. Oral Microbiol. Sch. Dent. Med., Tsurumi Univ.)
<b>P2-168</b>	Regulation of intraspecies diversification by genetic recombination and CRISPR in <i>Porphyromonas gingivalis</i> ○Maruyama F <sup>1,2</sup> , Watanabe T <sup>1</sup> , Nozawa T <sup>1</sup> , Nakagawa I <sup>1</sup> ( <sup>1</sup> Dept. of Bac. & Phatho. Tokyo Med. & Dent. Univ. Grad. Sch. of Med. & Dent., <sup>2</sup> Dept. of Micro. Gen. & Eco. Tokyo Med. & Dent. Univ. Grad. Sch. of Med. & Dent.)
<b>P2-169</b>	Phylogenetic analysis of <i>Streptococcus troglodytae</i> glucosyltransferase ○Okamoto M <sup>1</sup> , Imai S <sup>2</sup> , Hanada N <sup>2</sup> ( <sup>1</sup> Dept. of Oral Microbiol., Sch. of Dent. Med., Tsurumi Univ., <sup>2</sup> Dept. of Translational Res., Sch. of Dent. Med., Tsurumi Univ.)
<b>P2-170</b>	Hydrogen peroxide is a hidden virulence factor of oral streptococci ○Okahashi N <sup>1</sup> , Okinaga T <sup>2</sup> , Sakurai A <sup>3</sup> , Terao Y <sup>4</sup> , Nakata M <sup>5</sup> , Kawabata S <sup>5</sup> , Nishihara T <sup>2</sup> ( <sup>1</sup> Oral Frontier Center, Grad. Sch. Dent., Osaka Univ., <sup>2</sup> Div. Infect. Mol. Biol., Kyushu Dent. Coll., <sup>3</sup> Dept. Pediatric Dent., Tokyo Dent. Coll., <sup>4</sup> Div. Microbiol. Infect. Dis., Grad. Sch. Med. Dent., Niigata Univ., <sup>5</sup> Dept. Oral Mol. Microbiol., Grad. Sch. Dent., Osaka Univ.)
<b>P2-171</b>	<i>Candida albicans</i> Msi3p, a homolog of the <i>Saccharomyces cerevisiae</i> Sse1p of the Hsp70 family, is involved in cell growth and fluconazole tolerance ○Nagao J <sup>1</sup> , Cho T <sup>1</sup> , Imayoshi R <sup>1</sup> ( <sup>1</sup> Dept. of Functional Biosci., Sec. of Infection Biol., Fukuoka Dent. Coll.)
<b>P2-172</b>	Study for localization of Mfa3 in <i>Porphyromonas gingivalis</i> Mfa1 fimbriae ○Ikai R <sup>1</sup> , Hasegawa Y <sup>2</sup> , Izumigawa M <sup>1</sup> , Horie T <sup>1</sup> , Kawabata A <sup>1</sup> , Kitai N <sup>1</sup> , Yoshimura F <sup>3</sup> , Murakami Y <sup>2</sup> ( <sup>1</sup> Dept. of Orthod., Asahi Univ. Sch. Dent., <sup>2</sup> Dept. of Oral Microbiol., Asahi Univ. Sch. Dent., <sup>3</sup> Dept. of Microbiol., Aichi Gakuin Univ. Sch. Dent.)
<b>P2-173</b>	Cytotoxicity and antibacterial activity of roselle ethanol extract on oral bacteria in vitro ○Sulistiyani H <sup>1</sup> , Fujita M <sup>1</sup> , Mashima I <sup>1</sup> , Miyakawa H <sup>1</sup> , Kamaguchi A <sup>1</sup> , Nakazawa F <sup>1</sup> ( <sup>1</sup> Dept. of Oral Microbiol., Health Sci. Univ. of Hokkaido Sch. of Dent.)
<b>P2-174</b>	<i>Porphyromonas gingivalis</i> strains have varying sialic acid-binding positively-charged amino acid residues found in the sialidase domain ○Cueno M <sup>1</sup> , Kamio N <sup>1,2</sup> , Imai K <sup>1,2</sup> , Tamura M <sup>1,2</sup> , Ochiai K <sup>1,2</sup> ( <sup>1</sup> Dept. Microbiol., Nihon Univ. Sch. Dent., <sup>2</sup> Div. Immunol. Pathobiol., Res. Cent., Nihon Univ. Sch. Dent.)
<b>P2-175</b>	Inhibitor of quinol peroxidase of aggressive periodontopathic bacterium ○Kawarai T <sup>1</sup> , Konishi K <sup>1</sup> ( <sup>1</sup> Dept. of Microbiol., Sch. of Life Dent. at Tokyo, Nippon Dent. Univ.)
<b>P2-176</b>	Inhibitory effect of terpene alcohol derived from essential oils on <i>Streptococcus mutans</i> biofilm ○Fujita M <sup>1</sup> , Miyakawa H <sup>1</sup> , Kamaguchi A <sup>1</sup> , Nakazawa F <sup>1</sup> ( <sup>1</sup> Dept. of Oral Microbiol., Health Sci. Univ. of Hokkaido, Sch. Dent.)
<b>P2-177</b>	Inhibitory effects on oral candidiasis and migration using oral care gel ○Tamura M <sup>1,2</sup> , Ohya M <sup>1</sup> , Abe K <sup>1</sup> , Ochiai K <sup>1,2</sup> ( <sup>1</sup> Dept. Microbiol., Nihon Univ. Sch. Dent., <sup>2</sup> Div. Immunol. Pathobiol., Res. Cent., Nihon Univ. Sch. Dent.)
<b>P2-178</b>	Characterization of <i>Streptococcus criceti</i> dextran-binding lectin B gene in <i>Streptococcus mutans</i> ○Tamura H <sup>1</sup> , Yamada A <sup>1</sup> , Kato H <sup>1</sup> ( <sup>1</sup> Div. of Bioregulatory Pharmacol., Dept. of Pharmacol., Iwate Med. Univ.)

<b>P2-179</b>	Comparative study on drug susceptibility of <i>Candida albicans</i> and <i>Candida dubliniensis</i> ○Nakamura K <sup>1</sup> ( <sup>1</sup> Adv. Res. Center, The Nippon Dent. Univ. Sch. of Life Dent. at Niigata)
<b>P2-180</b>	The effect of nitrogen sources on the acid production and the growth of oral <i>Actinomyces</i> ○Norimatsu Y <sup>1,2</sup> , Kawashima J <sup>2,3</sup> , Yamamoto T <sup>1</sup> , Takahashi N <sup>2</sup> ( <sup>1</sup> Div. of Orthodontics and Dentofacial Orthopedics, Tohoku Univ. Grad. Sch. of Dent., <sup>2</sup> Div. of Oral Ecol. and Biochem., Tohoku Univ. Grad. Sch. of Dent., <sup>3</sup> Div. of Periodontol. and Endodontol., Tohoku Univ. Grad. Sch. of Dent.)
<b>P2-181</b>	PRIP controls autophagosomal maturation containing <i>Staphylococcus aureus</i> ○Harada K <sup>1</sup> , Kanematsu T <sup>1</sup> ( <sup>1</sup> Div. of Cellular and Molecular Pharmacol., Grad. Sch. of Biomed. Sci, Hiroshima Univ.)
<b>P2-182</b>	Role of putative ECF sigma factor on biofilm formation of <i>Porphyromonas gingivalis</i> ○Kikuchi Y <sup>1,2</sup> , Shibayama K <sup>2</sup> , Kokubu E <sup>1,2</sup> , Ohara N <sup>3</sup> , Nakayama K <sup>4</sup> , Ishihara K <sup>2</sup> ( <sup>1</sup> Oral Health Sci. Center., Tokyo Dent. Coll. , <sup>2</sup> Dept. Microbiol., Tokyo Dent. Coll. , <sup>3</sup> Dept. Oral Microbiol., Okayama Univ. Sch. Dent. , <sup>4</sup> Dept. Mol. Microbiol. Immunol., Nagasaki Univ.)
<b>P2-183</b>	Involvement of Por secretion system in biofilm formation by <i>Capnocytophaga ochracea</i> ○Kita D <sup>1</sup> , Kikuchi Y <sup>2</sup> , Kokubu E <sup>2</sup> , Shibayama K <sup>2</sup> , Saito A <sup>1</sup> , Ishihara K <sup>2</sup> ( <sup>1</sup> Dept. of Periodontol., Tokyo Dent. Coll., <sup>2</sup> Dept. of Microbiol., Tokyo Dent. Coll.)
<b>P2-184</b>	Possibility of contact dependent activation by oral bacteria ○Kamaguti A <sup>1</sup> , Osada K <sup>2</sup> , Shibui T <sup>3</sup> , Niioka T <sup>4</sup> , Okamoto M <sup>5</sup> , Takada K <sup>6</sup> , Fujita M <sup>1</sup> , Ishii H <sup>2</sup> , Sakakura Y <sup>3</sup> , Nakazawa F <sup>1</sup> ( <sup>1</sup> Dept. Oral Microbiol. Sch. Dent. Health. Sci. Univ. Hokkaido, <sup>2</sup> Dept. Oral Phy. Sch. Dent. Health. Sci. Univ. Hokkaido, <sup>3</sup> Dept. Anat. Sch. Dent. Health. Sci. Univ. Hokkaido, <sup>4</sup> Sch. Pha. Sci./Cen. Dev. Hig. Edu. Health Sci. Univ. Hokkaido, <sup>5</sup> Dept. Oral Microbiol. Sch. Med. Tsurumi Univ., <sup>6</sup> Dept. Oral Microbiol. Nihon Univ. Sch. Dent. Matsudo)
<b>P2-185</b>	Genes encoding multi-component type drug efflux pumps in <i>Porphyromonas gingivalis</i> ○Inoue T <sup>1</sup> , Taguchi Y <sup>2</sup> , Kano K <sup>3</sup> , Nakayama M <sup>1</sup> , Ohara N <sup>1</sup> ( <sup>1</sup> Dept. of Oral Microbiol., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm., <sup>2</sup> Dept. of Periodontal Sci., Okayama Univ. Grad. Sch. of Med. Dent. & Pharm., <sup>3</sup> Dept. of Orthodontics, Okayama Univ. Grad. Sch. of Med. Dent. & Pharm.)
<b>P2-186</b>	A possible application of the natural apatite crystal for biomedical field ○Miake Y <sup>1</sup> , Mishima H <sup>2</sup> , Shimoda S <sup>3</sup> ( <sup>1</sup> Dept. of Ultrastructural Sci., Tokyo Dent. Coll., <sup>2</sup> Dept. of Med. Hygiene, Dent. Hygiene, Kochi Gakuen Coll., <sup>3</sup> Dept. of Oral Anat., Tsurumi Univ., Sch. of Dent. Med.)
<b>P2-187</b>	Resorption analysis of xenograft deproteinized bovine bone mineral ○Arai H <sup>1</sup> , Yanagisawa N <sup>1</sup> , Suzuki O <sup>2</sup> , Nakamura M <sup>1</sup> ( <sup>1</sup> Oral Anat. & Dev. Biol., Showa Univ. Sch. of Dent., <sup>2</sup> Div. of Craniofacial Function Engineering, Tohoku Univ. Grad. Sch. of Dent. )