The 57th Annual Meeting of Japanese Association for Oral Biology
September 11 – September 13, 2015
The Nippon Dental University
School of Life Dentistry
at Niigata, JAPAN
Special lecture accorded by the LOTTE Foundation

SL
Osamu Shimomura
Professor Emeritus at Marine Biological Laboratory in Woods Hole

Main symposium

MS-1
The outlook for dentistry in Australia: the past, the present and the future
Grant Townsend
Sch Dent, Univ Adelaide, Australia

MS-2
Transfer of scientific knowledge into the dental curriculum
Charles Shuler
Fac Dent Univ British Columbia, Canada

MS-3
Dentistry the UK
Paul Coulthard
Sch Dent, The Univ Manchester, the UK

MS-4
The future dentistry in Japan
Akira Hamura
The Nippon Dent Univ Sch Life Dent at Tokyo, Japan

Symposium of Science Council of Japan

CS-1
Development of dental medicine based on diversity of dental basic sciences: the message of the Science Council of Japan
Yamaguchi A
Oral Health Sci Center, Tokyo Dent Coll

CS-2
Project for raising cutting-edge scientists in basal dental sciences
Hirata M
Lab Mol Cell Biochem, Fac Dent Sci, Kyushu Univ

CS-3
As a basic life scientist
Ichijo H
Lab Cell Signaling, Grad Sch Pharma Sci, Univ Tokyo

CS-4
Finding of novel lymphocyte; Type 2 innate lymphoid cell
Moro K$^{1,2,3}$

CS-5
The elucidation of regulatory mechanisms of bone remodeling
Nakashima T
Dept Cell Signal, Grad Sch Med Dent Sci, Tokyo Med Dent Univ
CS – 6
Paradigm shift — from the viewpoint of developmental biology
Ohazama A
Dept Oral Anat, Niigata Univ Grad Sch Med Dent Sci

Symposium of JAOB
KS – 1
Regulatory mechanisms of vertebrate developmental body plan revealed by live-imaging and mathematical analyses
Imura T1, 2, 3
1 Ehime Univ PROS, Bio-Imaging, 2 Ehime Univ ADRES, Analytical Bio-Med, Ehime Univ Hosp, 3 Translational Res Center and Artificial Joint Integrated Center
KS – 2
Intravital multiphoton microscopy visualizing an ‘invisible hand’ controlling immune and bone cell dynamics in vivo
Ishii M1, 2
1 Dept Immunol Cell Biol, Grad Sch Med Frontier Biosci, Osaka Univ, 2 JST, CREST
KS – 3
Visualization of intracellular signal transduction by fluorescent biosensors and their clinical application
Ohba Y
Dept Cell Physiol, Hokkaido Univ Grad Sch Med
KS – 4
Deciphering cardiovascular development during embryogenesis by fluorescence imaging
Dept Cell Biol, Natl Cerebr & Cardiovasc Ctr Res Inst

KBDSSA and JAOB joint symposium at the Meeting
JKS – 1
Role of Runx2/Cbfβ complex in skeletal tissues
Dept Biochem Cell Biol, Kyungpook Natl Univ Sch Med
JKS – 2
Contribution of the Scx+/Sox9+ cell population to the establishment of the junction between tendons/ligaments and cartilage
Shukunami C
JKS – 3
Calcium signaling for osteoclast differentiation
Kim H J, Lee Z H, and Kim H – H
Dept Cell Dev Biol, Seoul Natl Univ Sch Dent
JKS – 4
Regulation of osteoclast differentiation and function by Wnt signals
Kobayashi Y1, Uehara S2, Udagawa N2, Takahashi N1
1 Inst Oral Sci, Matsumoto Dent Univ, 2 Dept Oral Biochem, Matsumoto Dent Univ
JAOB/Rising members award winner

Y-1
Cortico–muscular coherence during isometric tongue protrusion in humans: an MEG study
Maezawa H
Dept Oral Physiol, Hokkaido Univ Grad Sch Dent

Y-2
Inhibition of BMP2-induced bone formation by the p65 subunit of NF-κB via an interaction with Smad4
Hirata-Tsuchiya S1,2, Fukushima H1, Katagiri T1, Ohte S1, Shin M1, Nagano K5, Aoki K5, Morotomi T2, Sugiyama G1, Nakatomi C1, Kokabu S1, Doi T6, Takeuchi H1, Ohya K5, Terashita M2, Hirata M7, Kitamura C2 and Jimi E1

Y-3
Allogenic tooth transplantation inhibits the maintenance of dental pulp stem/progenitor cells in mice
Saito K
Div Anat Cell Biol Hard Tissue, Niigata Univ Grad Sch Med Dent Sci

Y-4
Osteocytes produce interferon-β as a negative regulator of osteoclastogenesis.
Hayashida C
Dept Oral Anat, Meikai Univ Sch Dent

Luncheon seminar

LS-1
Author workshop for young researchers supported by Elsevier: How to make a scientific paper including image processing and give an impressive presentation
Ohshima H1,2
1Div Anat Cell Biol Hard Tissue, Niigata Univ Grad Sch Med Dent Sci, 2EIC of J Oral Biosci

LS-2
Guidance to museum of medicine and dentistry
Nishimaki A
Nippon Dent Univ Sch Life Dent at Niigata, Museum of Medicine and Dentistry

Satellite symposium 1

SS1-1
Dentin evolution and tooth evolution
Tabata M J.
Sec Biostructural Sci, Grad Sch Med & Dent, Tokyo Med Dent Univ

SS1-2
Variation and evolution of dentin in lower vertebrates
Sasagawa I
Adv Res Center, Nippon Dent Univ at Niigata

SS1-3
Petrodentine (hypermineralized dentin) in lungfish
Oka S1, Ishiyama M2, Sasagawa I3
1The Nippon Dent Univ Sch Life Dent at Niigata, Dept Biol, 2The Nippon Dent Univ Sch Life at Niigata, Junior Coll, 3The Nippon Dent Univ Sch Life at Niigata, Adv Res Center Anat
SS1-4
Dentin formation and formation mechanism of incremental lines in crocodilian, reptile
Mishima H
Dept Med Hygiene, Dent Hygiene Course, Kochi Gakuen Coll
SS1-5
Evolutional changes in skeletal tissues in vertebrates
Yamaguchi A
Oral Health Sci Center, Tokyo Dent Coll

**Satellite symposium 2**

SS2-1
The origin of dental enamel
Kawasaki K
Dept Anthropol, Penn State Univ
SS2-2
Molecular evolution of dental enamel in tetrapods
Shintani S
Dept Pediatr Dent, Tokyo Dent Coll
SS2-3
Molecular biological analysis of amelogenin genes in sarcopterygii
Mikami M
Dept Microbiol, The Nippon Dent Univ Sch Dent at Niigata
SS2-4
Cloning and sequencing of a SCPP5-like gene expressed in the tooth germ and scales of the gar (Holostei)
Ishiyama M
Dept Dent Hygiene, The Nippon Dent Univ Coll at Niigata
SS2-5
The temporospatial expression patterns of enamel protein genes and Dmp1 in garpike tooth buds
Nakatomi M
Div Anat, Kyushu Dent Univ
SS2-6
Immunohistochemical analyses for SCPP5 protein on the jaw teeth and ganoid scales of gars, Lepisosteus oculatus, a bony fish
Sasagawa I
Adv Res Center, Nippon Dent Univ at Niigata

**Satellite symposium 3**

SS3-1
The role of VAMP4 to maintain the ribbon structure of the Golgi apparatus
Shitara A1, Shibui T2, Okayama M1, Arakawa T4, Mizoguchi I3, Sakakura Y2, Takuma T4
1IMTS, OPCB, NIDCR, NIH, 2Div Anat, 3Div Orthodont, 4Div Biochem, Sch Dent, Health Sci Univ Hokkaido
SS3–2
Selective transport of proteins into secretory granules of salivary acinar cells
Fujita–Yoshigaki J, Yokoyama M, Katsumata–Kato O
Dept Physiol, Nihon Univ Sch Dent at Matsudo

SS3–3
Regulation of EGFR intracellular trafficking by ROCO family kinase LRRK1
Hanafusa H1, Kedashiro S2, Matsumoto K1
1Div Biol Sci, Grad Sch Sci, Nagoya Univ, 2Div Path Sig, Dept Biochem Mol Biol Kobe Univ

SS3–4
Lysosome–associated membrane proteins (LAMPs) regulate intracellular positioning of mitochondria
Yokoyama M
Dept Biochem, Tokyo Med Dent Univ Grad Sch Med & Dent

SS3–5
New functions of lysosome biogenesis in bone cells
Tsukuba T
Dept Dent Pharmacol, Grad Sch Biomed Sci, Nagasaki Univ

Satellite symposium 4
SS4–1
Development of artificial saliva using whey
Ishikawa Y1, Pieczonka T1, Bragiel A1, Yabuuchi S2, Takeuchi Y2, Yanagisawa S3, Fukuta K4, Kim J4, Kim D4, Yoshioka M4
Grad Sch, 4APROLife Sci In. Inc.

SS4–2
The neurophysiological changes in forced expression of salivary gland–derived BDNF transgenic mice and the application of saliva test in evaluation of human psychiatric disorder
To M1, Saruta J1, Sugimoto M1,2, Kondo Y1,3, Saito I4, Tsukinoki K1
1Dept Oral Sci, Kanagawa Dent Univ Grad Sch Dent, 2Inst Adv Biosci, Keio Univ, 3Dept Pathol, Tokai Univ Sch Med, 4Dept Pathol, Sch Dent Med, Tsurumi Univ

SS4–3
A study of human salivary peptides: From peptidomics to physiological analysis
Saitoh E1, Kaneko A2, Hatamoto K3, Sega T4, Kato T3, Taniguchi M2
1Grad Sch Technol, Niigata Inst Technol, 2Grad Sch Sci & Technol, Niigata Univ, 3Dept Chem, Tokyo Dent Coll

SS4–4
Analysis of epithelial transport by the ex vivo mouse submandibular gland perfusion technique in genetically modified mice ~the relationship between membrane proteins and water secretion ~
Nakamoto T1, Kondo Y2, Mukaibo T3, Kidokoro M2, Imamura A2, Munemasa T2, Masaki C2, Hosokawa R2
1Dept Prosthodont, Matsumoto Dent Univ, 2Dept Oral Reconstruct and Rehabil, Kyushu Dent Univ

SS4–5
Differences in regulation of parasympathetic vasodilation in the major salivary glands in the rat
Sato T, Ishii H
Div Physiol, Dept Oral Biol, Sch Dent, Health Sci Univ Hokkaido
SS4–6
Endogenous peroxidase activities in the properties of variable mammalian salivary glands
Moriguchi K¹, Utsumi M¹, Jogahara T², Oda S², Honda M¹
¹Dept Oral Anat, Aichi-Gakuin Univ, Sch Dent, ²Dept Zool, Okayama Univ, Fac Sci

SS4–7
Amylase exocytosis and Ca²⁺, which is the unsolved problem continuing from the 1st Daekisen Danwakai.
Tojyo Y
Sch Dent, Health Sci Univ Hokkaido

**Satellite symposium 5**

SS5–1
3D–CLEM by combining confocal laser–scanning microscope with FIB–SEM in the central nervous system
Sonomura T
Anat II, Kanazawa Med Univ

SS5–2
Three dimensional ultrastructure analysis for the influence of mechanical stress in periodontal ligament
Hirashima S¹,², Ohta K¹, Kanazawa T¹, Togo A¹,³, Kusukawa J², Nakamura K¹
¹Dept Anat, Kurume Univ Sch Med, ²Dent & Oral Med Center, Kurume Univ Sch Med, ³EM Lab, Cent Res Unit of Kurume Univ Sch Med

SS5–3
Three-dimensional analysis of the bone using the orthogonal arranged FIB–SEM
Hashimoto M¹, Nagaoka N², Hara T³, Kamioka H¹
¹Dept. Orthodont Okayama Univ Grad Sch Med Dent, ²Lab Electron Microscopy, Okayama Univ Grad Sch Med Dent, ³NIMS

SS5–4
Ultrastructural assessment of the osteocytic networks by using FIB–SEM
Hasegawa T
Dept Deve Biol Hard Tissue, Hokkaido Univ Grad Sch Dent Med

SS5–5
Ultrastructural morphological evaluation of non–demineralized human dentin using FIB/SEM tomography
Miura J¹, Shimizu M¹, Enomoto S², Arai S²
¹Div Interdisci Dent Osaka Univ Grad Sch Dent, ²Ecotopia research center, Nagoya Univ

SS5–6
3D observation of the titanium / cell interface
Nagaoka N¹, Yoshihara K²
¹ARCOCS, Okayama Univ Grad Sch Med Dent Pharm Sci, ²Center Innov Clinic Med, Okayama Univ Hosp

**Satellite symposium 6**

SS6–1
Overview: Bone cell biology from the view point of histochemistry, ultrastructure and bio–imaging
Amizuka N, Hasegawa T, Tsuboi K, Hongo H, Yamamoto T
Dept Deve Biol Hard Tissue, Hokkaido Univ Grad Sch Dent Med

SS6–2
Morphological assessment on bone tissue using SIM, FIB–SEM, atomic force microscopy and isotope
microscopy
Hasegawa T, Tsuboi K, Hongo H, Yamamoto T, Amizuka N
Dept Deve Biol Hard Tissue, Hokkaido Univ Grad Sch Dent Med
SS6-3
Role of chemokine–mediated signal revealed by fluorescence cell imaging and bone histomorphometry
Lee J1, Imura T1, 2, 3
1 Adv Res Support Center, Ehime Univ, 2 Proteoscience Center, Ehime Univ, 3 Translational Res Center, and Artificial Joint Integrated Center
SS6-4
Intravital bone imaging dissecting the 'real' mode of actions of anti-bone resorptive drugs
Ishii M
Dept Immunol Cell Biol, Grad Sch Med Frontier Biosci, Osaka Univ, JST, CREST
SS6-5
Visualization of bone quality by FTIR and Raman spectroscopy
Kimura–Suda H1, 2, Ito T2, Kanehira Y2, Hidaka K2, Kanazawa K2, Ueno H2

Satellite symposium 7
SS7-1
Functional analysis of dental pulp stem cells and their application to regenerative therapy
Hata M
Dept Removable Prosthodont, Aichi Gakuin Univ
SS7-2
Origin of dental mesenchymal cells and property of these cells including supporting capacity of hematopoietic cells
Yamazaki H
Dept Stem Cells and Developmental Biol, Inst Med Sci, Mie Univ Grad Sch Med
SS7-3
Mineralization capacities of the dental pulp and gingiva derived mesenchymal stem cells
Kawashima N, Okiji T
SS7-4
Dental pulp–derived stem cells and translational research
Yamaza T
Dept Mol Cell Biol Oral Anat, Kyushu Univ Grad Sch Dent Sci

Satellite symposium 8
SS8-1
Cell transplantation after inferior alveolar nerve resection in rats
Honda M1, 2, Toriumi T3, Oka A2, Shinoda M3, Iwata K3, Isokawa K2
1 Dept Oral Anat Aichi Gakuin Univ Sch Dent, 2 Dept Anat Nihon Univ Sch Dent, 3 Dept Physiol, Nihon Univ Sch Dent
SS8-2
Infraorbital nerve injury increases expression of alpha-2/delta-1 subunit in the rat trigeminal ganglion
Satellite symposium 9
SS9–1
The mechanisms of glandular secretions for proper lubrication
Kurose M1, Hatta A1,2, Okamoto K1, Meng ID3, Yamamura K1
1Div Oral Physiol, Niigata Univ Grad Sch Med Dent, 2General Dent and Clinic Education Unit, Niigata Univ Hosp, 3Div Physiol, New England Univ
SS9–2
Lessons from singing birds, physiology and dentistry
Okumura T
Lab Neuroethol, Fac Comprehensive Informatics, Shizuoka Inst Sci Engineering
SS9–3
Tongue-cancer pain relief at early stage in rats
Furukawa A1, Shinoda M2, Kubo A2, Honda K1,2, Iwata K2
1Dept Oral and Maxillofacial Surg, Nihon Univ Sch Dent, 2Dept Physiol, Nihon Univ Sch Dent
SS9–4
Endocannabinoid-inducing self-amplification of sweet taste sensitivity and the possible existence of T1R3-independent sweet transduction pathway
Iwata S1, Yoshida R1, Shigemura N1, Ninomiya Y1,2
1Oral Neurosci, Grad Sch Dent Sci, Kyushu Univ Grad Sch Dent, 2R&D Center for Taste and Odor Sensing
SS9–5
The modulation of oral sensory transmission during swallowing
Sakai S, Tsuji K, Magara J, Tsujimura T, Inoue M
Dept Dysphagia Rehab, Niigata Univ Grad Sch Med Dent

Satellite symposium 10
SS10
Analytical method and its interpretation of variation in tooth morphology
Kondo S1, Manabe Y2
1Dept Anat, Sch Dent at Matusdo, Nihon Univ, 2Dept Oral Anat Dent Anthropol, Grad Sch Biomed Sci,
Size and variation of the third molar in the South Pacific populations
Matsuno M, Kondo S
Dept Anat I, Nihon Univ Sch Dent at Matsudo

Dental size variation observed in deciduous and permanent dentitions among prehistoric and modern Japanese
Kitagawa Y, Manabe Y, Oyamada J
Dept Oral Anat Dent Anthropol, Grad Sch Biomed Sci, Nagasaki Univ

Morphological covariation between enamel–dentine junction and outer enamel surface
Morita W
Dept Oral Functional Anat, Grad Sch Dent Med, Hokkaido Univ

Non–invasive imaging of internal tooth structure in humans: applications in dental education
Kato A¹, Ziegler A²
¹Dept Oral Anat, Sch Dent, Aichi Gakuin Univ, ²Inst Zool, Univ Bonn

Dynamicsofvesselrelatedfactorsofmuscleandmesenchymaltissueinthedevelopment
ofmassetermuscle
Sunohara M, Sato I
Dept Anat, Sch Dent, The Nippon Dent Univ

Formationofthemuscle–boneattachmentinthecraniofacialregion
Yamamoto M
Dept Anat, Tokyo Dent Coll

Thechangeoftheformandcharacteristicsofthetonguemuscleadjacenttothetonguecancer.
Sakiyama K¹, Takizawa S², Bando Y¹, Sakashita H¹,², Amano O¹
¹Div Anat, Meikai Univ Sch Dent, ²Div Oral SurgeryII, Meikai Univ Sch Dent

Stratifiedmyoblastsheetsobtainedbycreatinghybridoforalmucosalepithelialsheets
Higa K¹, Yamane S², Umezawa T², Serikawa M², Shimazaki J², Abe S²
¹Dept. Ophthalmol/Cornea Center, Ichikawa General Hosp, Tokyo Dent Coll, ²Dept Anat, Tokyo Dent Coll

Overview: Think about DSPP study through morphological and functional perspectives
Yamakoshi Y
Dept Biochem Mol Biol, Sch Dent Med, Tsurumi Univ

Dentin sialophosphoprotein–derived proteins in porcine pulp and dentin—Gene expression and function—
Yamamoto R  
Dept Biochem Mol Biol, Sch Dent Med, Tsurumi Univ  
SS12–3  
Functional significance of Dspp in the process of odontoblast differentiation  
Saito K¹, Nakatomi M², Ida–Yonemochi H¹, Ohshima H¹  
SS12–4  
Induction method and mechanism for odontoblastic differentiation of stem cells  
Ozeki N¹, Mogi M², Nakata K¹  
¹Dept Endod, Sch Dent, Aichi Gakuin Univ, ²Dept Med Biochem, Sch Pharm, Aichi Gakuin Univ  
SS12–5  
The usefulness of the modified recombinant DPP proteins in the hard tissue regeneration  
Suzuki S¹, Kobuke S¹, Haruyama N², Shiba H¹  
¹Dept Biol Endo, Integr Health Sci, Inst Biomed Health Sci, Hiroshima Univ, ²Sec Ortho Dento Ortho, Fac Dent Sci, Kyushu Univ

**Satellite symposium 13**  
SS13–1  
Culturing ‘uncultivable’ oral bacteria  
Vartoukian Sonia R  
Barts and The London Sch Med Dent, Queen MaryUniv London, UK  
SS13–2  
A molecular epidemiology study exploring oral microbiome structure associated with human health  
Takeshita T, Yamashita Y  
Sec Preventive and Public Health Dent, Div Oral Health, Growth and Development, Kyushu Univ Fac Dent Sci  
SS13–3  
Molecular biological control method for oral biofilm at early stage  
Mashima I¹,², Miyakawa H², Nakazawa F²  
¹Postdoctoral Fellow of JSPS, ²Dept Oral Microbiol, Sch Dent, Health Sci Univ Hokkaido

**Satellite symposium 14**  
SS14–1  
Tooth replacement phenomenon in the teleost fish, especially concerned with the Zahnreihen theory proposed by Edmund on the dentition, dental system, in lower vertebrates  
Wakita M  
Honorary member of JAOB  
SS14–2  
Reexamine the tooth morphology of Cope–Osborn Tritubercular Theory  
Kozawa Y  
Dept Comparative Anat  
SS14–3  
New aspect of tooth morphogenesis using imaging system  
Harada H, Kumakami–Sakano M, Otsu K, Fujiwara N  
Div Developmental Biol Regenerative Med, Dept Anat, Iwate Med Univ
Satellite symposium 15

SS15–1
New hypotheses in formation and disintegration of Hertwig’s epithelial root sheath
Fujiwara F, Kumakami–Sakano M, Otsu K, Harada H
Div Deve Biol and Regenerative Med, Dept Anat, Iwate Med Univ
SS15–2
Microvascular structure of peri-implant tissue
Matsuo M
Div Dent Anat, Dept Oral Sci, Kanagawa Dent Univ
SS15–3
Anatomy of the blood vessel structure related to the dental implant treatment
Miwa Y, Sato I
Dept Anat, Sch Life Dent at Tokyo, Nippon Dent Univ
SS15–4
Lymphatic vessel of the periodontal tissue
Ando Y, Fujimura A
Dept Anat, Div Func Morphol, Iwate Med Univ
SS15–5
Periodontal tissue regeneration by cooperation of distinct mesenchymal stem cells
Chosa N, Ishisaki A
Div Cell Biosignal Sci, Dept Biochem, Iwate Med Univ

Satellite symposium 16

SS16–1
Analysis of mutant DCC-inducible apoptosis on oral squamous cell carcinoma
Kiyoshima T, Wada H
Lab Oral Pathol, Fac Dent Sci, Kyushu Univ
SS16–2
Apoptotic cell clearance by cancer cells in oral squamous cell carcinoma
Yamazaki M
Dept Oral Pathol, Niigata Univ Grad Sch Med & Dent
SS16–3
Histopathological malignancy grade, tumor angiogenesis, antiangiogenic gene therapy targeting VEGF, and epithelial–mesenchymal transition (EMT) in oral cancer
Okada Y1,2, Kanri Y1, Ono J1, Ishiguro H1, Moride M1, Hasegawa H1
SS16–4
The need for basic research on the treatment strategy of oral cancer
Tanuma J, Kaneko H, Nakao J, Ehara M, Nagayama M
Dept Oral Pathol, Asahi Univ Sch Dent
A possible role of leptomeninges for transduction of systemic inflammatory signals to microglia in response to lipopolyssacharide from *Porphyromonas gingivalis*

Critical roles of cathepsin B in AD-like phenotypes following chronic systemic treatment with lipopolyssacharide from *Porphyromonas gingivalis*

Expression of the chemokine CXCL14 is a predictive biomarker for Cetuximab-dependent tumour suppression

Opioidergic effects on synaptic transmission in rat insular cortex
- Yokota E, Koshikawa N, Kobayashi M (Dept Anesthesiol, Nihon Univ Sch Dent, Dept Pharmacol, Nihon Univ Sch Dent)

Effects of alpha7 nicotinic acetylcholine receptor antagonist on bone metabolism

Mechanism of action of a novel bisphosphonate that increases bone mass in OVX rats

Injury of cholineresterase by the myeloperoxidase, hydrogen peroxide and chloride system in vitro
- Onishi M, Odajima T (Div Biochem, Sch Dent, Health Sci Univ Hokkaido, Sapporo Research Institute Basic Medicine Pedagogy)

Cloning of NK-related molecules in marmoset
- Ogawara K (Dept Immunobiol, Tohoku Univ Grad Sch Dent)

Characterization of sublingual dendritic cell after antigen painting

Induction of regulatory T cells by oral dendritic cells
- Tanaka Y, Fukumoto S, Sugawara S (Div Pediat Dent, Tohoku Univ Grad Sch Dent, Div Oral Immunol, Tohoku Univ Grad Sch Dent)

Stimulation of FcεRI induces THP-1 expression in a Rat mast cell-like cell line, RBL2H3
- Ohashi A, Naito M, Takahashi T (Dept Anat, Nihon Univ Sch Dent)

Behavior of microglia and astrocyte in trigeminal motor nucleus following masseteric nerve injury in the rat

Distribution of transient receptor potential melastatin-8-containing nerve fibers in rat oral and craniofacial structures
- Yajima T, Sato T, Ichikawa H (Div Operative Dent, Tohoku Univ Grad Sch Dent, Div Oral and Craniofacial Anat, Tohoku Univ Grad Sch Dent)

Degeneration and macrophage infiltration of labial mucosal epithelium in xerostomia patients

Altered osteocyte network and preferential alignment of biological apatite c-axis around loaded implants in rabbits

Nitrate-reducing activity variations in oral Rothia spp.
- Mashimo C, Nambu T (Dept Bacterioli, Osaka Dent Univ)

Genome sequencing of *Rothia mucilaginosa* NUM-Rm6536, a strain with high transformation efficiency
- Nambu T, Mashimo C (Dept Bacterioli, Osaka Dent Univ)

The effects of fructanase on the competence–stimulating peptide–dependent quorum sensing system in *Streptococcus mutans*

Novel peptide from *Porphyromonas gingivalis* exerting acyloligopeptidase peptide activity
- Nemoto T, Ohara–Nemoto Y (Dept Oral Mol Biol, Nagasaki Univ Grad Sch Biomed Sci)

Effect of curcumin on invasion of human gingival epithelial cells by *Porphyromonas gingivalis* outermembrane vesicles
- Izu S, Nagata H, Amano A (Dept Prev Dent, Osaka Univ Grad Sch Dent)

C55 bacteriocin produced by ETB-positive *Staphylococcus aureus* strains is a key factor for competition with ETB-negative *S. aureus* strains
Galectin-9 negatively regulates osteoclast differentiation through control of MafB expression

O1-D1


A functional collaboration between Foxc1 and ihh-Gli2 is critical for endochondral ossification

O1-D2

Hata K1, Yoshida M2, Nakamura E3, Takahata Y1, Murakami T1, Iseki S1, Yamamoto-Takano T1, Nishimura R1 (Dept Biotech, Osaka Univ Grad Sch Dent, 2Orthodont Dentofacial Orthopedics, Tohoku Univ Grad Sch Dent, 3Mol Craniofacial Embryol, Tokyo Med Dent Univ Grad Sch Dent)

H3K9MTase G9a is required for proper tooth formation

O1-D3

Kamiunten T1, Ideno H1, Nakamura Y2, Nakashima K3, Shimada A4, Nifujii A5 (Dept Orthodont, Sch Dent Med, Tsurumi Univ, 2Dept Pharmaco, Sch Dent Med, Tsurumi Univ)

Histological alterations of bone matrix surrounding osteocytes in mice with PTH administration and in lactating mice fed with calcium insufficient diet

O1-D4


Ultrastuctural assessment for biological function of vascular endothelial cells at chondro-osseous junction

O1-D5

Tsuchiya E1, Hongo H1, Yamamoto T1, Hasegawa T1, Amizuka N1 (Dept Deve Biol Hard Tissue, Hokkaido Univ Grad Sch Dent Med, Oral Diagnosis Med, Hokkaido Univ Grad Sch Dent Med)

Histochemistry examination on bone cells in obese type 2 diabetic SDT fatty rats

O1-D6

Tsuboi K1, Hongo H1, Hasegawa T1, Amizuka N1 (Dept Deve Biol Hard Tissue, Hokkaido Univ Grad Sch Dent Med)

Immunohistochemical analysis of ossification of pterygoid in embryonic mice

O1-D7

Kitamura K1, Yamamoto M2, Umezawa T3, Serikawa M4, Abe S (Dept Anat, Tokyo Dent Coll Grad Sch Dent)

Isolation and characterization of dental epithelial cells derived from amelogenesis imperfecta rat as an in vitro disease model

O1-D8


Glycation of dentinal collagen with human aging

O1-D9

Shimizu M1, Miura J2 (Div Interdisci Dent, Osaka Univ Grad Sch Dent)

Malformation of the apical region on molars in mice irradiated to the head

O1-D10

Ide Y1, Nakahara T1, Nasu M1, Ishikawa H2 (Dept Dev Reg Dent, Nippon Dent Univ Sch Life Dent at Tokyo, 2Res Cent for Odontol, Nippon Dent Univ Sch Life Dent at Tokyo, 3Dept NDU Life Sci, Nippon Dent Univ Sch Life Dent at Tokyo)

Why do we not have a hypothesis for the tooth root morphogenesis

O1-D11

Kozawa Y1 (Comp Anat Odont)

Functional significance of sodium-dependent glucose transporters in the process of ameloblast differentiation

O1-D12


Possible mechanism of positive pressure-induced cell proliferation in oral squamous cell carcinoma

O1-E1

Yoshimoto S1, Morita H1, Nakamura S2, Hirata M3 (Lab Mol Biochem, Fac Dent Sci, Kyushu Univ, 2Sec Oral and Maxillar Oncol, Div Maxillar Diag Surg Sci, Fac Dent Sci, Kyushu Univ, 3Sect General Dent, Dept General Dent, Fukuoka Dent Coll)

The 3'UTR of TPD family mRNA is post-transcriptional regulation on its gene expression

O1-E2

Motohashi H1, Mukudai Y2 (Dept Oral Surgery, Sch Dent, Showa Univ)

Fabrication of bone graft materials using iP5 cells

O1-E3

Yamamoto H1, Kayashima H1, Yatani H1, Egusa H2 (Dept Fixed, Prosthodont, Osaka Univ Grad Sch Dent, 2Div Mol Regen Prosthodont, Tohoku Univ Grad Sch Dent)

AMPAR receptor phosphorylation in Vc nociceptive neurons is involved in dry tongue pain

O1-E4

Nakaya Y1, Tsuibo Y1, Shinoda M2, Iwata K2 (Dept Oral Diagnostic, Nihon Univ Sch Dent, 2Dept Physiol, Nihon Univ Sch Dent)

Induction of osteogenic differentiation stimulated by vibration

O1-E5

Ota T1, Chiba M1, Hayashi H2 (Div Oral Physiol, Tohoku Univ, Grad Sch Dent)

Elucidating the role of the dominant expression TRPM7 in tooth and its calcification

O1-E6

Ogata K1, Oka K2, Fukushima H3, Okamoto F1, Nagashima K1, Otsuka M2, Okabe K4 (Sec Cellular Physiol, Fukuoka Dent Coll, 2Sec Pediatric Dent, Dept Oral Growth and Development, Fukuoka Dent)

Roles of transcriptional factor Mohawk in PDL

O1-E7


Development and distributional pattern of the elastic fiber system in the periodontal tissue of rats

O1-E8

Inoue K1, Han Y2, Sato T3 (Res Cent Elec Micros Sch Dent Med, Tsukuba Med, 2Dept Anat and Hist. Sch Dent Med, Tsukuba Univ)

Analyses of the ameloblast differentiation mechanism by Sox21

O1-E9

Saito K1, Fukumoto S2 (Div Pediatric Dent, Tohoku Univ)

Regulation of stemness of dental epithelial stem cells by Rho-YAP signaling

O1-E10

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- Katase N (Dept Mol Dev Biol Kawasaki Med Sch)

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- Yang X', Miyamoto O'1,12, Izukuri K'1,2, Kato Y1,2, Hata R1,2 (Oral Health Sci Res Center, Kanagawa Dent Univ Grad Sch Dent, Dept Oral Biol Kanagawa Dent Univ, Dept Oral Pathol Mol Biol, Ohu Univ Sch Dent)

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- Ariyoshi W, Okinaga T, Nishihara T (Div Infect Mol Biol, Kyushu Dent Univ)

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Role of α5 integrin subunit in branching morphogenesis fetal mouse submandibular glands

Diazepam enhances expression of PAC1–R, STAR and CYP11A1 in rat salivary glands

Effects of alpha2 nicotinic acetylcholine receptor antagonist on bone metabolism

Involvement of α2-adrenergic receptor signaling in bone formation
○Tanaka K, Hirai T, Togari A (Dept Pharmacol, Aichi–Gakuin Univ Sch Dent)

Mechanism of action of a novel bisphosphonate that increases bone mass in OXV rats
In vivo imaging analyses for the diurnal variation of microglial process accumulation following microinjection of ATP and *Porphyromonas gingivalis* (Pg)

○Takayama E¹,², Hayashi Y', Wu Z', Nakanishi H¹ (Dept Aging Sci and Pharmacol, Fac Dent Sci, Kyushu Univ, JSPS Research Fellowship for Young Scientist (DC2))

Repeated forced water administration stress on female mice behavior disorders associated with GABAergic dysfunction

○Tsukahara T, Masuhara M, Sato T (Dept Appl Pharm, Kagoshima Univ Grad Sch Med Dent Sci)

Expression of the chemokine CXCL14 is a predictive biomarker for Cetuximab–dependent tumour suppression

○Koma T¹, Ozawa S², Suzuki K, Iwabuchi H', Yang X², Miyamoto C³, Maehata Y², Hata R³ (Dept Oral Maxillofacial Surgery, Grad Sch Dent Kanagawa Dent Univ, Oral Health Sci Res Center, Grad Sch Dent Kanagawa Dent Univ, Dept Oral Sci, Grad Sch Dent Kanagawa Dent Univ)

Mechanism of the spontaneous calcium responses in the vitamin D-induced differentiation of dental epithelial cells

○Murata K', Kurashige Y', Morita T', Takahashi A¹, Saitoh M³, Tanimura A³ (Dept Pediatric Dent, Sch Dent, Health Sci Univ Hokkaido, Dept Pharmacol, Sch Dent, Health Sci Univ Hokkaido)

Gene expression analyses in microglia related to antidepressant-like effect of sodium butyrate

○Yamamoto M¹, Okinaga T¹, Iwanaga K², Nishihara T¹ (Div Infect Mol Biol, Kyushu Dent Univ, Div Oral Maxillofacial Surg, Kyushu Dent Univ)

Opioidergic effects on synaptic transmission in rat insular cortex

○Yokota E¹, Koshikawa N², Kobayashi M² (Dept Anesthesiol, Nihon Univ Sch Dent, Dept Pharmacol, Nihon Univ Sch Dent)

A possible role of leptomeninges for transduction of systemic inflammatory signals to microglia in response to lipopolysaccharide from *Porphyromonas gingivalis*

○Liu Y, Wu Z, Nakanishi H (Dept Aging Sci Pharmacol, Fac Dent Sci, Kyushu Univ)

Critical roles of cathepsin B in AD–like phenotypes following chronic systemic treatment with lipopolysaccharide from *Porphyromonas gingivalis*

○Ni J, Wu Z, Nakanishi H (Dept Aging Sci Pharmacol, Fac Dent Sci, Kyushu Univ)

Gene expression analyses in microglia related to antidepressant-like effect of sodium butyrate

○Yamawaki Y, Kanematsu T (Dept Cell Mol Pharmacol, Hiroshima Univ Inst Biomed Health Sci)

Correlation between timing of cytogenesis and cellular distribution in the nucleus of the solitary tract and parabrachial nucleus in rat

○Suwabe T', Yasuo T', Sako N (Dept Oral Physiol, Sch Dent, Asahi Univ)

Microvascular architecture of the lion filiform papillae

○Takemura A, Toda I, Uemura M, Kawashima W (Dept Anat, Osaka Dent Univ)

Histological study on aging of the lips

○Nara M, Kitamura K, Yamauchi M, Yamamoto M, Abe S (Dept Anat, Tokyo Dent Coll Grad Sch Dent)

Ultrastructure of the parotid and submandibular glands in the short tailed opossum (*Monodelphis domestica*)

○Kono T', Suzuki K¹, Tamamura R', Kanno T', Sakae T', Okada H¹ (Dept Hist Nihon Univ Sch Dent at Matsudo, Dept Biol Nihon Univ Sch Dent at Matsudo)

Expression of MEPE in mouse cartilage

○Fujikawa K, Morita T, Tamaki T, Shibata S (Dept Maxillofacial Anat, Tokyo Med Dent Univ Grad Sch Med Dent Sci)

Hyaluronan precipitates odontoblastic differentiation via CD44 in dental pulp stem cells

○Umemura N, Sakagami H (Div Pharmacol, Meikai Univ Sch Dent)

Microtubule-associated protein tau (Mapt) is a useful marker protein for terminally differentiated odontoblasts in mice

○Miyazaki T¹, Baba T¹, Komori T¹ (Dept Cell Biol, Nagasaki Univ Grad Sch Biomed Sci, Dept Oral Mol Biol, Nagasaki Univ Grad Sch Biomed Sci)

Histological studies on the tooth development of green spotted pufferfish (*Tetradon nigroviridis*)

○Yamamoto H, Fujiseki M, Yamazaki T (Dept Histol Dev Biol, Tokyo Dent Coll)

Immunohistochemical analysis of prostaglandin transporter in pulpomatized rat molars


Study of the preventive effect of initial enamel caries by carbon dioxide laser irradiation

○Kani Y', Okada Y' (Dept Pathol, Nippon Dent Univ Sch Life Dent at Niigata)

Inorganic polyphosphate–induces MMP–3–mediated proliferation in rat dental pulp fibroblast–like cells is mediated by a Wnt5-Lrp5 signaling cascade

○Ozeki N¹', Yamaguchi H', Hiyama T', Kawai R¹, Mogi M', Nakata K' (Dept Endo, Aichi-Gakuin Univ Sch Dent, Dept Med Biochem, Sch Pharm, Aichi Gakuin Univ)

Development of an applicable clinical kit which are useful for the healthy periodontal tissue

○Uchibori S¹, Kobayashi T¹, Tsuzukibashi O², Aida M (Dept Crown Bridge Prosthodont, Nihon Univ Sch Dent at Matsudo, Dept Microbiol and Immunol, Nihon Univ Sch Dent at Matsudo)

Localization of A1M1–43 in the tooth nerve fibers using fluorescence and electron microscopy

○Nishikawa S (Dept Biol, Tsurumi Univ Sch Med Dent)
Whole genome analysis of human periodontal ligament stem cells stimulated by a synthetic peptide

Microvasculature and peri-implant tissue changes after photo functionalization

Regenerating processes of alveolar bone after application of advanced platelet-rich fibrin (A-PRF)

Intragingival injection of Porphyromonas gingivalis–derived lipopolysaccharide increases plasma TNF-α levels in anaesthetised rats
  ○Aono Y, Saigusa T (Dept Pharmacol, Nihon Univ Sch Dent at Matsudo)

Stress-responsive protein is involved in the increase regulatory mechanism of the periodontal ligament fiberblasts

The effects of PKR and NLRP3 on the bone-regulated gene expression in P. gingivalis–treated osteoblasts

Macroscopic analysis of vessels and nerve supply in the elderly human palate
  ○Sato I, Miwa Y, Sunohara M (Dept Anat Sch Dent The Nippon Dent Univ at Tokyo)

Protective effects of BHI, on local ischemia/reperfusion-induced suppression of reactiveheperemia in rat gingiva

Relationship between parotid salivary secretion and hemodynamic change of superficial temporal artery after citric acid stimulation

Study of function in SNAP23 knockout HAP1 cells
  ○Arakawa T, Okayama M, Mizoguchi T, Takuma T (Div Biochem, Sch Dent, Health Sci Univ Hokkaido, Div Orthod, Sch Dent, Health Sci Univ Hokkaido)

Transient up-regulation of Bpifb1 expression in parotid acinar cells of infant mice

Dynamics of 5-methylcytosine and 5-hydroxymethylcytosine in fetal mouse submandibular gland development
  ○Hayashi T, Koyama N, Mizukoshi K, Kashimata M (Dept Pharmacol, Asahi Univ)

Expression of precursor cell marker during injury and recovery in salivary gland
  ○Yokoyama M, Katsumata-Kato O, Fujita-Yoshigaki J (Dept Physiol Nihon Univ Sch Dent at Matsudo)

Metabolomic analysis of age-related changes of salivary amino acids
  ○Tanaka S, Akita S, Taniguchi K, Katayama T, Sakagami H (Dept General Cl Dent, Meikai Univ Sch Dent, Div Pharmaco, Meikai Univ Sch Dent)

Inhibition of the peptidoglycan-mediated Toll-like receptor 2 signalling by salivary histatin

HAP–100, a fragment of protamine, is available for recovery of drug-induced xerostomia
  ○Okubo M, Kawaguchi M, Shimomura-Kuroki J (Dept Pharmacol, Tokyo Dent Coll, Tokyo Dent Coll)

Molecular mechanism of actin-coat formation on the membrane-fused secretory granules—Realtime imaging analysis with intravitral microscope—
  ○Shitara A (IMTS, OPCB, NIDCR, NIH)

Involvement of MARCKS phosphorylation and translocation in isoproterenol–induced amylase release in parotid acinar cells

The membrane microdomains is related to the concentration of secretory proteins into the rat parotid granules
  ○Katsumata-Kato O, Yokoyama M, Fujita-Yoshigaki J (Dept Physiol, Nihon Univ Sch Dent at Matsudo)

Mechanisms of acetylcholine–induced tissue-wide synchronization of Ca2+ oscillations in rat submandibular gland
  ○Nezu A, Morita T, Tanimiura A (Dept Pharmacol, Sch Dent, Health Sci Univ Hokkaido)

Effects of liquid diet on growth of rat submandibular and sublingual glands
Differrent effect of two types of bisphosphonates on alkaline phosphatase activity and matrix contents in osteoblastic cells


Muscarinic agonist-induced trafficking of AQP5s to nuclei and its role in rat parotid glands

Bragiel A., Pieczonka T., Ishikawa Y. (Dept Pharm, Tokushima Univ Grad Sci Inst Biomed Sci)

Proliferative and multidifferentiation potential of human periodontal ligament stem cells under serum-free culture condition

Murabayashi D., Nakahara T.* (Dept Dev Reg Dent, Nippon Dent Univ Sch Life Dent at Tokyo)

Immunoexpression of glucose related protein-78 in the mouse molar and incisor teeth during tooth development

Nagata K., Wada H., Fujisawa H., Mikami Y., Jinno A., Abe M., Kiyoshima T.* (Dept Oral Pathol, Fac Dent, Kyushu Univ)

Expression pattern of keratin and vimentin in rat odontogenic epithelium

Ito H., Sakurai Y., Yusa J. (Div Oral Pathol, Ohu Univ Sch Dent)

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Effects of MPAIDs, NF-κB inhibitor on osteoblasts


The effect of acetaminophen on the behavior of mouse calvaria-derived cell line MC3T3-E1


A inductive role of anterior axial mesendoderm in the determination of migratory pathway of GnRH-neuron in rat embryos

Imai H, Baba O (Dept Biosci, Ohu Univ Sch Dent)

Long-term observation of capillary formation in three-dimensional tissue culture using three kinds of porous materials as scaffold in vitro

Okamura T.1,2, Nishikawa T1, Wato M1, Tominaga K1, Imai K* (Dept Oral Pathol, Osaka Dent Univ, Dept Biomater, Osaka Dent Univ)

Study on the change in the expression level of phospho–Erk1/2 and the palatal cleft phenotype of TGFβ3 knockout mice by Gefitinib administration

Sugiyama A1,2 (Tokyo Med Dent Univ, Human Gene Sci Center)

Expression of osteogenic factors in the cleft palate of the A/J mouse embryo

Maekawa M1, Mori A1, Komada M1, Ikeda Y1* (Dept Anat, Aichi–Gakuin Univ Sch Dent, Div Res Treat Oral Maxillar Congen Anom, Aichi–Gakuin Univ Sch Dent)

VEGF-C enhances proliferation and migration ability of bone marrow-derived mesenchymal stem cells

Igarashi Y1, Chousa N1, Kyakumoto S1, Kamo M1, Kondo H1, Isisaki A* (Dept Prosthodont Oral Implantol, Sch Dent, Iwate Med Univ, Div Cell Biosignal Sci Dept Biochem Iwate Med Univ)

A study of cartilage formation by bone marrow-derived mesenchymal stem cells in vitro

Nakatsuka M1, Matsuda Y1, Hosoya A2, Kumabe S* (Dept Oral Anat, Osaka Dent Univ, Dept Oral Histol, Matsumoto Dent Univ)

A inductive role of anterior axial mesendoderm in the determination of migratory pathway of GnRH-neuron in rat embryos

Imai H, Baba O (Dept Biosci, Ohu Univ Sch Dent)

Intake of indigestible carbohydrates for the different periods influence immunoglobulin A concentrations of the rat saliva

Yamamoto Y1,2, Tou M1, Shimizu T1, Satake J*, Tsukinoki K1* (Dept Junior Coll, Kanagawa Dent Univ, Sch Dent Hygiene, Dept Oral Sci, Div Environ Pathol, Kanagawa Dent Univ, Grad Sch Dent)

Release of Ro/SS-A and La/SS-B into the extracellular space as an exosomal protein


Immunohistochemistry of glucose related protein-78 in the mouse molar and incisor teeth during tooth development

Nagata K., Wada H., Fujisawa H., Mikami Y., Jinno A., Abe M., Kiyoshima T.* (Dept Oral Pathol, Fac Dent, Kyushu Univ)

Expression pattern of keratin and vimentin in rat odontogenic epithelium

Ito H., Sakurai Y., Yusa J. (Div Oral Pathol, Ohu Univ Sch Dent)

Differrent effect of two types of bisphosphonates on alkaline phosphatase activity and matrix contents in osteoblastic cells

| P2−60 | The relevance of FGF21/Klotho, glucose and lipid metabolic mediators, in the balance between osteogenesis and adipogenesis ○Minamizaki T, Yoshio H, Takei Y, Yoshiko Y (Dept Calci Tissue Biol, Hiroshima Univ Inst Biomed Health Sci) |
| P2−61 | Geranylgeraniol induces osteoblast differentiation ○Urata M1, Kokub M2, Nakatomi C1, Matsubara T1, Hira−Tsuchiya S3, Morotomi T1, Kitamura C1, Jimi E1 (Dept Mol Signaling Biochem, Dept Health promotion Kyushu Dent Univ, 2Div Endodont and Restorative Dent, Kyushu Dent Univ) |
| P2−62 | In vivo imaging of osteoclast precursor recruitment to the inflammatory site where extensive bone destruction occurs ○Suzuki K1, Nagaoka M1, Suzuki R1, Shinoda H1 (Div Dent Pharmacol, Ohu Univ Sch Dent, 2Dept Pharmoc, Sch Dent, Showa Univ, 3Cent Environ Dent, Grad Sch Dent, Tohoku Univ) |
| P2−63 | Effect of adiponectin on osteoclast formation ○Amano H, Ooura K (Dept Pharmoc, Osaka Dent Univ) |
| P2−64 | Osteoclasts with large nuclear number can not only resorb bone matrix but also engulf osteocytes ○Suzuki R1, Imai H2, Nagaoka M1, Suzuki K1 (Dept Dent Pharmoc, Sch Dent, Ohu Univ, 2Dept Biol, Sch Dent, Ohu Univ) |
| P2−65 | Vascular invasion of cartilaginous matrix within Meckel’s cartilage resorption ○Inoue K1, Ushijima N1, Yagihara S1, Morita W1, Takahashi S1, Domon T1 (Dept Oral Functional Anat, Hokkaido Univ Grad Sci Dent Med, 2Lab EM, Hokkaido Univ Grad Sci Dent Med) |
| P2−67 | Healing of bone tissue surrounding titanium implants in a rat model ○Tsuji, M1, Nakahara K1, Maeda T1, Yosh S1 (Dept Histol, Nippon Dent Univ Sch Life Dent at Niigata, 2Adv Res Center, Nippon Dent Univ Sch Life Dent at Niigata, 3Div Oral Anat, Niigata Univ Grad Sch Med Dent Sci) |
| P2−68 | Estrogen does not induce apoptosis, but regulates function of avian medullary bone osteoclasts ○Hiyama S, Watanabe M, Uchida T (Dept Oral Biol, Hiroshima Univ Inst Biomed Health Sci) |
| P2−69 | Ultrastructural study of periosteal cell spheroids to the human alveolar bone with exposure to low−intensity pulsed ultrasound ○Miyagi N1, Higasi K1, Maeda S1, Kawata A1, Takahasi O1 (Dept Neuroanatomy, Histol Embryol, Kanagawa Dent Univ Grad Sch, 2Div Curriculum Development, Kanagawa Dent Univ) |
| P2−70 | Role of Irx3 in chondrogenesis and chondrocyte differentiation ○Tamamura Y1, Mera H1, Itokazu M1, Wakitani S2, Takahashi S1, Doi H1 (Dept Health Sports Sci, Mukogawa Women’s Univ, 2Dept Orthopedic Surgery, Osaka City Univ Grad Sch Med, 3Dept Artificial Joint Biomater, Hiroshima Univ Inst Biomed Health Sci) |
| P2−71 | Roles of N−terminal region of Fibronectin in maintaining of osteoclast precursors ○Amano S, Ohmori Y (Dept Oral Biol Meikai Univ Sch Dent) |
| P2−72 | Expression of calcium binding proteins calbindin and calreitinin in the taste organ of frog ○Ando H1, Imamura Y1, Tadokoro O1, Sogawa N1, Kondo E1, Kitagawa J1 (Dept Oral Physiol, Matsumoto Dent Univ, 2Dept Pharmoc, Matsumoto Dent Univ, 3Dept Oral Anat, Matsumoto Dent Univ) |
| P2−73 | Taste responses of bitter sensitive taste cells in mice ○Yoshida R, Ninomiya Y (Sec Oral Neurosci, Grad Sch Dent Sci, Kyushu Univ) |
| P2−74 | Analysis of single fiber responses to fatty acids in mouse chorda tympani nerve ○Yasumatsu K1, Ninomiya Y2,3 (Div Sensory Physiol, R&D Center for Taste and Odor Sensing, Kyushu Univ, 2Sect Oral Neurosci, Fac Dent Sci, Kyushu Univ) |
| P2−75 | The functional analysis of Mash1 in mouse taste bud cell differentiation using Cre−loxP system ○Sato Y, Toyono T, Kataoka S, Nakatomi M, Kibe K (Div Anat, Kyushu Dent Univ) |
| P2−76 | Expression of renin−angiotensin system (RAS) components in taste organ ○Shigemura N1, Ninomiya Y1,2 (Sec Oral Neurosci, Fac Dent Sci, Kyushu Univ, 2Res Dev Center Taste Odor Sensing, Kyushu Univ) |
| P2−77 | Immunohistochemical localization of nitric oxide synthase (NOS) isoforms after peripheral nerve transection in mice ○Kikuchi R1, Ambe K1, Nakagawa T2, Watanabe H1 (Dept Oral Maxillofacial Surg, Ohu Univ Grad Sch Dent, 2Div Oral Histol, Ohu Univ Sch Dent) |
| P2−78 | Response properties of thalamic neurons during mechanical stimulation of the temporomandibular joint in the rabbit ○Suzuki T1, Wakamori M1, Tsuibo A1,3 (Div Aging Geriat Dent, Tohoku Univ Grad Sch Dent, 2Div Mol Pharmoc Cell Biophys, Tohoku Univ Grad Sch Dent, 3Tohoku Med MegaBank Org, Tohoku Univ) |
| P2−79 | Involvement of Na−microdomain in spines in the inhibition of AMPA−receptor current by h−current in mesencephalic trigeminal neurons ○Saito M, Sato H, Toyoda H, Kawano T, Yin D, Kang Y (Dept Neurosci Oral Physiol, Osaka Univ Grad Sch Dent) |
| P2−80 | Neurons in the rostral nucleus tractus solitarius receive cardiovascular and respiratory afferent inputs ○Ishizuka K, Satoh Y (Dept Physiol, Nippon Dent Univ Sch Life Dent at Niigata) |
| P2−81 | Possible involvement of dopaminergic brainstem neurons in cisplatin−induced delayed nausea and/or emesis ○Hirai Y, Hisadome K, Maezawa H, Funahashi M (Dept Oral Physiol, Grad Sch Dent Med, Hokkaido Univ) |
Evaluation of dimethyl sulfide odor masking by food derived volatiles to the biosensor mice
○Osada K (Div Physiol Dept Oral Biol, Health Sci Univ Hokkaido Sch Dent)

Variability of temporal signaling patterns of cortical somatosensory neurons during sequential tongue movements
○Toda T, Kudo T (Div Oral Physiol, Tohoku Univ Grad Sch Dent)

Functional connectivity of human primary olfactory cortex: 7 tesla fMRI study
○Fukami H, Sahara Y (Dept Physiol, Iwate Med Univ Sch Dent)

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○Fujita S, Koshikawa N, Kobayashi M (Dept Pharm, Nihon Univ Sch Dent)

The brain mechanisms underlying the perception of pungent taste of capsaicin and subsequent autonomic responses

Postnatal changes of synaptic inputs in the rat masseter motoneurons
○Nakamura S, Kajiwara R, Mochizuki A, Nakayama K, Kiyomoto M, Inoue T (Dept Oral Physiol, Showa Univ Sch Dent, ‘Showa Univ Sch Dent’)

Role of the vestibular nuclear complex in facilitating the jaw-opening reflex following stimulation of the red nucleus in rats

Physiological properties of repetitive masseter activity during NREM sleep in guinea pigs
○Kato T, Sato F, Yoshiha A, Higashiyama M (Dept Oral Anat Neurobiol, Osaka Univ Grad Sch Dent, ‘Dept Prosthodont 1, Osaka Univ Grad Sch Dent’)

Analysis of pre-weaning behaviors in prenatal bisphenol A treated rats
○Fujimoto T, Nishikawa Y (Dept Physiol, Osaka Univ)

Interactions between parasympathetic vasodilation and systemic arterial blood pressure in the hemodynamics in the orofacial area
○Ishii H, Sato T (Div Physiol, Dept Oral Biol, Sch Dent, Health Sci Univ Hokkaido)

TLE3 regulates myogenesis in vitro

Function of miR-1 and miR-133a during the postnatal development of masseter and gastrocnemius muscles

Protective effects of clenbuterol against dexamethasone-induced masseter muscle atrophy and myosin heavy chain transition
○Umeki D, Ohnuki Y, Ito A, Nakamura Y, Okumura S (Dept Orthodont, Tsurumi Univ Sch Dent, ‘Dept Physiol, Tsurumi Univ Sch Dent’)

Analysis of postnatal day 21 response by lymphnode-metastatic sub-clones (L cells) of mouse oral squamous cell carcinoma, Sq1979 cells

Effects of the extracts of Paeonia lutea on proliferation and metastasis of squamous cell carcinoma
○Mukudai Y, Motohashi H (Dept Oral Surg, Sch Dent, Showa Univ)

Immunohistochemical analysis of cornified cell envelope related proteins in keratocystic odontogenic tumours

Suppression of bone resorption enhanced in myeloma by Pim inhibition

Nicotine exposure induces the proliferation of oral cancer cell

Kruppel-like factor 4 expression and methylation of promoter in oral carcinoma cells
○Yamaguchi K, Chiba T, Mihara N, Sudo H, Imai K (Dept Biochem, Nippon Dent Univ Sch Life Dent at Tokyo)

EBV promotes production of inflammatory cytokines through TLR-NF-κB pathway
○Imai K, Ochii K (Dept Microbiol, Nihon Univ Sch Dent)

Histopathological and immunohistochemical study of oral lichen planus and lichenoid lesion
○Okada Y (Dept Pathol, Nippon Dent Univ Sch Life Dent at Niigata)

Depressed apoptosis in cultured human gingival fibroblasts exposed to phenytoin
Syndecan-4 is involved in inflammation in human dental pulp cells
○ Kamada A, Tamura I, Goda S, Yoshikawa Y, Domae E, Ikeo T (Dept Biochem, Osaka Dent Univ)

Effects of radical scavengers on radiation injury to fetal salivary glands
○ Nasu M, Horie T, Ide Y, Mitsuhashi F, Nakahara T (Res Cent for Odontol, Niigata Dent Univ Sch Life Dent at Tokyo, Dept Dev Reg Dent, Niigata Dent Univ Sch Life Dent at Tokyo)

Activation of astrocyte in the trigeminal subnucleus caudalis evoked by inflammatory stimulation of the masticatory muscle
○ Matsuda Y, Nakatsuka M, Kumabe S (Dept Oral Anat, Osaka Dent Univ)

Mechanisms of dexamethomidine hydrochloride effects to rat paw edemas induced with carrageenan and histamine
○ Fukuda T, Toen T, Hashimoto S, Sunada K (Dept Radiosotopes Res, Res Center for Odontol, Niigata Dent Univ Sch Life Dent at Tokyo, Dept Oral Anesth, Niigata Dent Univ Sch Life Dent at Tokyo, Niigata Dent Univ Sch Life Dent at Tokyo)

Analysis of immune system against periodontal-pathogen Porphyromonas gingivalis

Molecular analyses for formation of macrophage extracellular traps induced by multifunctional glycolipid
○ Oda M, Kurosawa M, Domon H, Terao Y (Div Microbiol Infect Dis, Niigata Univ Grad Sch Med Sci Dent)

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Analyses of oral mucosa recruiting T cells under the inflammatory condition

Involvement of infiltrated T-helper cell type 1 in differentiation of CD163-positive tumor associated macrophages in oral premalignant lesion

Kinetics of chemokine gene expression in a mouse tongue cancer model
○ Yamaguchi H, Ohmori Y (Div Microbiol Immunod Dept Oral Biol Meikai Univ Sch Dent)

P. gingivalis fimbriae enhances dendritic cell-mediated cross-presentation
○ Tada H, Matsushita K, Takada H (Div Oral Microbiol, Tohoku Univ Grad Sch Dent, Dept Oral Dis Res, NCGG)

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○ Ochiai T, Kobayashi R, Takizawa T, Kuwahara N, Tsuzukibashi O, Saito M (Dept Microbiol Immunol, Niigata Univ Sch Dent at Matsudo)

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Characterization of immune responses with nasal immunization by differential time condition

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○ Horibe K, Hosoya A, Hiraga T, Nakamura H (Dept Oral Histol, Matsumoto Dent Univ)

Exploration of periodontal pathogen’s components inducing immune response
○ Narita Y, Tasaki S, Hashimoto M, Nagao J, Cho T, Tanaka Y (Sec Infect Biol, Dept Funct Biosci, Fukuoka Dent Coll)

Intrasal radiation with outer membrane vesicles of Porphyromonas gingivalis induces a biased type 2 response
○ Nakao R, Senpuku H (Dept Bacteriol, Natl Inst Infect Dis)

Inhibition effect of Weissella strain W3 on biofilm formation
○ Doi T, Mouri S, Narise A (Oral Sci Sec, Central Laboratory, LOTTE CO, LTD)

Evaluation of penetration mechanism of monoterpene alcohol and sesquiterpene alcohol into the preformed biofilm of Streptococcus mutans

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○Tashiro Y, Takahashi Y, Konishi K (Dept Microbiol, Nippon Dent Univ Sch Life Dent at Tokyo)

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The microbiological analysis of Streptococcus oralis strain 308 isolated from infective endocarditis

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○Oogai Y, Komatsuzawa H (Dept Oral Microbiol, Kagoshima Univ Grad Sch Med Dent Sci)

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○Murakami K, Hirota K, Miyake Y (Dept Oral Microbiol, Tokushima Univ Grad Sch Inst Biomed Sci)

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○Watanabe K, Hamada N (Dept Microbiol, Kanagawa Dent Univ)

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Survey on oral carriage of genus Candida in young healthy students and the antifungal susceptibility of the isolates

A study on CoA-transferases involving the butyrate produce in Porphyromonas gingivalis

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○Yoshida Y, Sato M, Nagano K, Hasegawa Y, Yoshimura F (Dept Microbiol, Aichi Gakuin Univ Sch Dent)

Contribution of chloride channel permeases to fluoride resistance in Streptococcus mutans
○Murata T, Hanada N (Dept Translational Res, Tsurumi Univ Sch Dent Med)

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Role of Porphyromonas gulae 41-kDa Fimbriae
○Sasaki H, Watanabe K, Koyata Y, Hamada N (Dept Microbiol, Grad Sch Dent, Kanagawa Dent Univ)

Development of an easy-to-use clinical kit for estimating Aggregatibacter actinomycetemcomitans levels

Fine intra-species genomic comparison in Prevotella intermedia strains
○Naito M, Nakayama K (Dept Mol Microbiol Immunol, Nagasaki Univ Grad Sch Biomed Sci)

Evaluation of amino acid and dipeptide uptakes of Porphyromonas gingivalis by non-RI assay using reduct indicator
○Kobayakawa T, Ohara--Nemoto Y, Baba T, Nemoto T (Dept Oral Mol Biol, Nagasaki Univ Grad Sch Biomed Sci)

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

Characterization and identification of red-pigmented novel species of genus Propionibacterium isolated from periodontal pockets
○Saito M, Kuwahara N, Tsuzukiibashi O, Kobayashi R, Takizawa T, Ochiai T (Dept Microbiol Immunol, Nihon Univ, Sch Dent at Matsudo)

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Exhaustive analysis of the number of oral bacterial strains found among healthy elderly treated with catechin gel: Next generation sequencing approach

○ Tamura M 1, Abe K 1, Ohyama H 1, Seki K 1, 2, 3, 4, Ochiai K 1, 2, 3, 4 (Dept Microbiol, Nihon Univ Sch Dent, 2 Div Immunol Pathobiol, Dent Res Cent, Nihon Univ Sch Dent, 3 Div Oral Health Sci, Nihon Univ Sch Dent Grad Sch Dent, 4 Div Compre Dent Clin Edu, Nihon Univ Sch Dent)

Genome analyses of Aggregatibacter actinomycetemcomitans serotype g


A2059G 23S rRNA and G439A rplC gene mutations in Streptococcus criceti strain OMZ 61


Comparison of oral microbiota between smokers and non-smokers in dental students

○ Nakano Y 1, Taniguchi H 1, Yoneda M 1, Hirofui T 1, Kuwata F 1, Hanioka T 1, 2 (Dept Chem, Nihon Univ Sch Dent, 3 Dept Preventive Public Health Dent, Fukuoka Dent Coll, 4 Dept General Dent, Fukuoka Dent Coll)

Butyric acid induces TWEAK and TRAIL signaling in NFκB treated PC12 neuronal cell

○ Seki K 1, 3, Kamio N 1, 3, Cuerno M 1, 3, Tamura M 1, 3, Kamimoto A 1, 3, Ochiai K 1, 2, 3, 4 (Div Oral Health Sci, Nihon Univ Sch Dent Grad Sch Dent, 3 Dept Compre Dent Clin Edu, Nihon Univ Sch Dent, 4 Div Microbiol, Nihon Univ Sch Dent, 5 Div Immunol Pathobiol, Dent Res Cent, Nihon Univ Sch Dent)

Characterization and partial purification of Ca-dependent ATPase of osteoblastic MC3T3-E1 cell

○ Iwatake M, Okamoto K, Tsukuba T (Dept Dent Pharmacol, Hokkaido Univ Grad Sch Med)

Identification and analysis of a protein regulating vesicle trafficking of endosome/lysosomes in osteoclasts

○ Kudo T 1, 2, 3, Deyama Y 1, 2, Yoshimura Y 1, Suzuki K 1, Yamazaki Y 1 (Dept Oral Gerodont, Hokkaido Univ Grad Sch Dent Med, 2 Div NIH, Nihon Univ Sch Dent, 3 Div Nikika Dent Clinic, 3 Dept Mol Cell Pharmacol, Hokkaido Univ Grad Sch Dent Med, 3 Poplar Avenue Dent Clin)

Changes of metabolic profiles in normal oral cells induced by eugenol


Neuromodulatory effects of appetite-related factors in GLP-1 releasing neuron of mouse brainstem

○ Hisadome K, Hira Y, Maeszawa H, Funahashi M (Dept Physiol, Tokyo Dent Coll)

Analyses of long-term Ca 2+ responses and cell movements in culture conditions in the salivary cells with stably expressing Ca 2+ biosensor using AAV vectors

○ Morita K, Nieuw H, Tanirimura A (Dept Pharmacol, Sch Dent, Health Sci Univ Hokkaido)

The elucidation of molecular mechanisms underlying the TGFβ-induced pathological changes of synovial cells derived from temporomandibular joint

○ Yokota S 1, 2, 3, ChousaN, Abe K 1, 3, Iri M 1, 2, 3, Kyakumoto S 1, 2, 3, 4, Ibi M 1, 2, 3, 4, Ohya M 1, 2, 3, 4, Hiyoshi M 1, 2, 3, Kato H 1, 2, 3, 4, Ishisaki A 1, 2, 3, 4, Kamimoto A 1, 2, 3, 4, Ochiai K 1, 2, 3, 4, Kusuyama J 1, 2, 3, 4, Kikuchi E 1, 2, 3, 4, Shigemura N 1, 2, 3, Ninomiya Y 1, 2, 3, 4, 5, 6, 7 (Sec Oral Neurosci, Res and Develop Ctr for Taste and Odor Sens, Kyushu Univ, 1 Div Sens Physiol, Res and Develop Ctr for Taste and Odor Sens, Kyushu Univ)

Neuromodulatory effects of appetite-related factors in GLP-1 releasing neurons of mouse brainstem

○ Hisadome K, Hirai Y, Maeszawa H, Funahashi M (Dept Oral Physiol, Hokkaido Univ Grad Sch Med Dent)

Molecular control of angiogenesis in tooth development

○ Sunohara H, Sato I (Dept Anat, Nippon Dent Univ Sch Life Dent at Tokyo)

Effect of placenta on collagen type-1 and inflammatory cytokine production in human gingival fibroblasts

○ Masuno K 1, 3, Imamura Y 1, 3, Honda Y 1, 3, Wang P 1, 2 (Dept Innovation Dent Educ, Osaka Dent Univ, 2 Div Dent Pharmacol, Matsumoto Dent Univ, 3 Inst Dent Res, Osaka Dent Univ)

Changes of metabolic profiles in normal oral cells induced by eugenol

○ Sakagami H 1, Tanaka S 1, 2, Murakami Y 1, 3, Katayama T 1, 2, Amano O 1, 2, Yokose S 1, 2 (Div Pharmacol, Meikai Univ Sch Dent, 2 Div General Clin Dent, Meikai Univ Sch Dent, 3 Div Anat, Meikai Univ Sch Dent, 4 Div End Operative Dent, Meikai Univ)

Identification and analysis of a protein regulating vesicle trafficking of endosome/lysosomes in osteoclasts

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Characterization and partial purification of Ca-dependent ATPase of osteoblastic MC3T3-E1 cell

○ Kudo T 1, 2, 3, Deyama Y 1, 2, Yoshimura Y 1, Suzuki K 1, Yamazaki Y 1 (Dept Oral Gerodont, Hokkaido Univ Grad Sch Dent Med, 2 Nikika Dent Clinic, 3 Dept Mol Cell Pharmacol, Hokkaido Univ Grad Sch Dent Med, 3 Poplar Avenue Dent Clinic)

Cafeostol has a weaker inhibitory effect on osteoclastogenesis than kaheawol and promotes osteoblast maturation

○ Fukuma Y, Sakai E, Nishishita K, Okamoto K, Tsukuba T (Div Dent Pharmacol, Nagasaki Univ Grad Sch Biomed Sci)

Phosphate enhances the biphosphonate-induced cytotoxicity of osteoblastic cells

○ Tajima M, Sakagami H (Div Pharmacol, Dept Diagn Therapeutic Sci, Meikai Univ Sch Dent)
Inhibition of oral ulcer-induced pain by shogaol and gingerol through sodium channel Na,1.8 blockage
○Hitomi S, Ono K, Yamaguchi K, Inenaga K (Div Physiol, Kyushu Dent Univ)

Regulation of noradrenaline transporter gene expression by nicotine

Purification of a novel lectin from the dorsal spines of the stonefish, Synanceia verrucosa
○Kato K1, Nakagawa H1,2, Shinohara M1, Ohura K1 (Dept Pharmacol, Osaka Dent Univ, 2Dept Nursing, Saitama Univ)

The designing of the new derivatives of Coumarin having cytotoxic activity to human oral tumor cell (Part 2)
○Ishihara M1, Yamauchi M2 (Div Basic Chem Oral Biol, Tissue Engineering, Meikai Univ Sch Dent, 2Div Med Informatics Dept Community Health Sci, Meikai Univ Sch Dent)

Neuronal response to thermal stimuli in the monkey ventral premotor cortex
○Unno S1, Iwata K (Dept Physiol, Sch Dent, Nihon Univ)

The behavioral responses to various concentration of vitamin C solutions in vitamin C deficient rats
○Yasuo T, Suwabe T, Sako N (Dept Oral Physiol, Aichi-Gakuin Univ Sch Dent)

Whole mouth gustatory test on elementary school-age children
○Saiki C, Ide R, Takahashi M, Imai T (Dept Physiol, Nippon Dent Univ Sch Life Dent at Tokyo)

Measurement of physical properties of food bolus with incline analysis
○Shiozawa K, Okumura S (Dept Physiol, Tsurumi Univ Sch Dent Med)

Involvement of FOXO1 and PGC1-α in transcription of D- dopachrome tautomerase gene
○Iwata T1, Kuribayashi K2, Yoshimoto K3 (Dept Med Pharmacol, Tokushima Univ Grad Sci Inst Biomed Sci, 2Dept Oral Max Surgery, Sch Med, Dokkyo Med Univ)

Codon optimization of luciferase genes for efficient protein expression in mammalian cells and bioluminescence imaging: its application for dentistry research
○Suzuki T1, Egashira M2, Kawai T2,3, Kanamori T1,4, Inouye S1 (Dept Biochem, Aichi-Gakuin Univ Sch Dent, 2Dept Dent Mater Sci, Aichi-Gakuin Univ Sch Dent, 3Center Adv Oral Sci, Aichi-Gakuin Univ, 4JNC Yokohama Res Center)

Distribution of TRPV1 and TRPV2 in the human stellate ganglion and spinal cord
○Fuji Y, Sato T, Shimizu Y, Ichikawa H (Div Oral Craniofacial Anat, Tohoku Univ Grad Sch Dent)

Histochemical assessment of tooth germ and alveolar bone in transgenic mice over-expressing parathyroid hormone-related peptide in osteoblasts

Saliva components as a possibility of systemic stress marker
○Hata F1, Katsuragi H2 (Nippon Dent Univ Sch Life Dent at Niigata, 2Dept Microbiol, Nippon Dent Univ Sch Life Dent at Niigata)

Immunohistochemical localization of RELM-beta/FIZZ2 during tooth development
○Takahama A1, Hosoya A2, Nakamura H2 (Matsumoto Dent Univ, 2Dept Oral Histol, Matsumoto Dent Univ)

Spatiotemporal expression patterns of Hey1 and Hey2 during mouse tooth development
○Kibe K1, Nakatomi M2, Kataoka S1, Toyono T1, Seta Y2 (Sch Dent, Kyushu Dent Univ, 2Div Anat, Kyushu Dent Univ)

Ultrastructural assessment on osteoblasts and osteocytes in c-fos deficient mice
○Abe M1, Hongo H2, Yamamoto T1, Hasegawa T2, Amizuka N2 (Sch Dent Med, Hokkaido Univ, 1Dept Deve Biol Hard Tissue, Hokkaido Univ Grad Sci Dent Med)

Porphyromonas gingivalis-induced production of IL-31 by human mast cells
○Takase A1, Tada H1, Nishioka T2, Matsuoka K1, Takada H1 (Div Oral Microbiol, Tohoku Univ Grad Sch Dent, 2Div Oral Diag, Tohoku Univ Grad Sch Dent, 3Dept Oral Dis Res, NCCG)

Extracellular ATP induces IL-6 production in human salivary gland cells
○Nemoto T1,2, Kuroishi T1, Sugawara S2 (Tohoku Univ Sch Dent, 2Div Oral Immunol, Tohoku Univ Grad Sch Dent)

A study on a transport mechanism of the accessory protein Mfa5 in Mfa1 fimbriae of Porphyromonas gingivalis
○Ijima Y, Hasegawa Y, Nagano K, Yoshida Y, Yoshimura F (Dept Microbiol, Aichi-Gakuin Univ Sch Dent)

NFAT activity-based screening for identifying osteoclastogenesis-related small compounds