Publicaton list of the GCOE team

2012

Masaki Noda

1. Hanyu R, Wehbi V, Hayata T, Moriya S, Feinstein T, Ezura Y, Nagao M, Saita Y, Hemmi H, Notomi T, Nakamoto T, Schipani E, Takeda S, Kaneko K, Kurosawa H, Karsenty G, Kronenberg H, Vilardaga JP, Noda M. Anabolic action of parathyroid hormone regulated by the β2-adrenergic receptor. Proceedings of the National Academy of Sciences of the United States of America;109:7433-8, 2012
2. [Miyajima D](http://www.ncbi.nlm.nih.gov/pubmed?term=Miyajima%20D%5BAuthor%5D&cauthor=true&cauthor_uid=22773831), [Hayata T](http://www.ncbi.nlm.nih.gov/pubmed?term=Hayata%20T%5BAuthor%5D&cauthor=true&cauthor_uid=22773831), [Suzuki T](http://www.ncbi.nlm.nih.gov/pubmed?term=Suzuki%20T%5BAuthor%5D&cauthor=true&cauthor_uid=22773831), [Hemmi H](http://www.ncbi.nlm.nih.gov/pubmed?term=Hemmi%20H%5BAuthor%5D&cauthor=true&cauthor_uid=22773831), [Ezura Y](http://www.ncbi.nlm.nih.gov/pubmed?term=Ezura%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=22773831), [Nakamoto T](http://www.ncbi.nlm.nih.gov/pubmed?term=Nakamoto%20T%5BAuthor%5D&cauthor=true&cauthor_uid=22773831), [Notomi T](http://www.ncbi.nlm.nih.gov/pubmed?term=Notomi%20T%5BAuthor%5D&cauthor=true&cauthor_uid=22773831), [Amagasa T](http://www.ncbi.nlm.nih.gov/pubmed?term=Amagasa%20T%5BAuthor%5D&cauthor=true&cauthor_uid=22773831), [Böttcher RT](http://www.ncbi.nlm.nih.gov/pubmed?term=B%C3%B6ttcher%20RT%5BAuthor%5D&cauthor=true&cauthor_uid=22773831), [Costell M](http://www.ncbi.nlm.nih.gov/pubmed?term=Costell%20M%5BAuthor%5D&cauthor=true&cauthor_uid=22773831), [Fässler R](http://www.ncbi.nlm.nih.gov/pubmed?term=F%C3%A4ssler%20R%5BAuthor%5D&cauthor=true&cauthor_uid=22773831), [Noda M](http://www.ncbi.nlm.nih.gov/pubmed?term=Noda%20M%5BAuthor%5D&cauthor=true&cauthor_uid=22773831). Profilin1 regulates sternum development and endochondral bone formation. Journal of Biological Chemistry; 28;287:33545-53, 2012
3. [Notomi T](http://www.ncbi.nlm.nih.gov/pubmed?term=Notomi%20T%5BAuthor%5D&cauthor=true&cauthor_uid=22833668), [Ezura Y](http://www.ncbi.nlm.nih.gov/pubmed?term=Ezura%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=22833668), [Noda M](http://www.ncbi.nlm.nih.gov/pubmed?term=Noda%20M%5BAuthor%5D&cauthor=true&cauthor_uid=22833668). Identification of two pore channel 2 as a novel regulator of osteoclastogenesis. Journal of Biological Chemistry; 287:35057-64, 2012
4. Sakuma T, Nakamoto T, Hemmi H, Kitazawa S, Kitazawa R, Notomi T, Hayata T, Ezura Y, Amagasa T, Noda M. CIZ/NMP4 is expressed in B16 melanoma and forms a positive feedback loop with RANKL to promote migration of the melanoma cells. Journal of Cellular Physiology; 227:2807-12, 2012

Junji Tagami

◎Bakhsh TA, Sadr A, Shimada Y, Mandurah M, Hariri I, AlsayedEZ, Tagami J, Sumi Y. Concurrent evaluation of composite internal adaptation and bond strength in a class-I cavity. J Dent (in press).

Carvalho AO, Oliveira MT, Nikaido T, Tagami J, Giannini M.　Effect of adhesive system and application strategy on reduction of dentin permeability.Braz Oral Res 26: 397-403, 2012

◎Gando I, Ariyoshi M, Ikeda M, Sadr A, Nikaido T, Tagami J. Resistance of dentin coating materials against abrasion by toothbrush. Dent Mater J (in press).

◎Hamba H, Nikaido T, Sadr A, Nakashima S, Tagami J. Enamel Lesion Parameter Correlations between Polychromatic Micro-CT and TMR. J Dent Res 91: 586-591, 2012.

◎Hariri I, Sadr A, Nakashima S, Shimada Y, Tagami J, Sumi Y. Estimation of enamel and dentin mineral content from refractive index. Caries Res (in press).

◎Hariri I, Sadr A, Shimada Y, Tagami J, Sumi Y. Effects of structural orientation of enamel and dentin on light attenuation and local refractive index: an optical coherence tomography study. J Dent 40: 387-96, 2012.

◎Horie K,Nakajima M,Hosaka K, Kainose K, Tanaka A, Foxton RM, Tagami J. Influence of composite-composite join on light transmission characteristics of layered resin composite. Dent Mater 28: 204-211, 2012.

◎Ichikawa C, Nikaido T, Inoue G, Sadr A, Tagami J. Ultra-morphologies of the dentin acid-base resistant zone of two-step self-etching systems after long-term storage in water. J Adhes Dent 14: 207-213, 2012.

◎Imai K, Shimada Y, Sadr A, Tagami J, Sumi Y. Noninvasive cross-sectional visualizationof enamel cracks by optical coherence tomography. J Endod 38: 1269-1274, 2012.

◎Islam S, Hiraishi N, Nassar M, Yiu C, Otsuki M, Tagami J.Effect of natural cross-linkers incorporation in a self-etching primer on dentine bond strength. J Dent 40: 1052-1059,2012.

◎Islam SM, Hiraishi N, Nassar M, Sono R, Otsuki M, Takatsura T, Yiu C, Tagami J. In vitro effect of hesperidin on root dentin collagen and de/re-mineralization.

Dent Mater J 31: 362-367, 2012.

◎Jamleh A, Sadr A, Nomura N, Yahata Y, Ebihara A, Hanawa T, Tagami J, Suda H. Nano-indentationtesting of new and fractured nickel-titanium endodontic instruments. Int Endod J 45: 462-468, 2012.

◎Kitasako Y, Sadr A, Hamba H, Ikeda M, Tagami J. Gum containing calcium-fluoride reinforces enamel subsurface lesion in situ. J Dent Res 91: 370-375, 2012.

◎Kuribayashi M, Kitasako Y, Matin K, Sadr A, Shida K, Tagami J. Intraoral pH measurement of carious lesions with qPCR of cariogenic bacteria to differentiate caries activity. J Dent 40: 222-228, 2012.

Li N, Nikaido T, Sadr A, Takagaki T, Chen JH, Tagami J. PhosphoricAcid-Etching Promotes BondStrength and Formation of Acid-Base Resistant Zone on Enamel. Oper Dent (in press).

◎Moosavi H, Hariri I, Sadr A, Thitthaweerat S, Tagami J. Effects of curing mode and moisture on nanoindentation mechanical properties and bonding of a self-adhesive resin cement to pulp chamber floor. Dent Mater (in press).

◎Mori F, Hiraishi N, Otsuki M, Tagami J.　 Effect of mastication on flow and properties of saliva.

Asian Pac J Dent 12: 1-5, 2012.

◎Nakagawa H, Sadr A, Shimada Y, Tagami J, Sumi Y. Validation of swept source optical coherent tomography (SS-OCT) for the diagnosis of smooth surface caries in vitro. J Dent (in press).

Nakajima Y, Shimada Y, Miyashin M, Takagi Y, Tagami J, Sumi Y. Noninvasive cross-sectional imaging of incomplete crown fractures (cracks) using swept-source optical coherence tomography. Int Endod J 45: 933-941, 2012.

◎Nakata K, Nikaido T, Nakashima S, Nango N, Tagami J. An approach to normalizing micro-CT depth profiles of mineral density for monitoring enamel remineralization progress. Dent Mater J 31: 533–540, 2012.

◎Nazari A, Sadr A, Saghiri MA, Campillo-Funollet M, Hamba H, Shimada Y, Tagami J, Sumi Y. Non-destructive characterization of voids in six flowable composites using swept-source optical coherence tomography. Dent Mater (in press).

◎Nazari A, Shimada Y, Sadr A, Tagami J.Pre-etching vs. grinding in promotion of adhesion to intact enamel using self-etch adhesives. Dent Mater J 31: 394-400 2012.

◎Nazari A, Sadr A, Campillo-Funoller M, Nakashima S, Shimada Y, Tagami J, Sumi Y.Effect of hydration on assessment of early enamel lesion using swept-source optical coherence tomography. J Biophotonics (in press).

◎Nazari A, Sadr A, Shimada Y, Tagami J, Sumi Y. 3D assessment of void and gap formation in flowable resin composites using optical coherence tomography. J Adhes Dent (in press).

◎Nurrohman H, Nikaido T, Takagaki T, Sadr A, Ichinose S, Tagami J. Apatitecrystal protection against acid-attack beneath resin-dentin interface with fouradhesives: TEM and crystallography evidence. Dent Mater 28: e89-98, 2012.

◎Nurrohman H, Nikaido T, Takagaki T, Sadr A, Waidyasekera K, Kitayama S, Ikeda M, Tagami J.Dentin bonding performance and ability of four MMA-based adhesiveresins to prevent demineralization along the hybrid layer. J Adhes Dent. 14: 339-348, 2012.

Oyanagi T, Tagami J, Matin K. Potentials of mouthwashes in disinfecting cariogenic bacteria and biofilms leading to inhibition of caries. Open Dent J 6: 23-30, 2012

◎Prasansuttiporn T,Nakajima M, Foxton RM, Tagami J. Scrubbing effect of self-etching adhesives on bond strength to NaOCl-treated dentin. J Adhes Dent 14: 121-127, 2012

◎Shimada Y, Sadr A, Nazari A, Nakagawa H, Otsuki M, Tagami J, Sumi Y. 3D evaluation of composite resin restoration at practical training using swept-source optical coherence tomography (SS-OCT). Dent Mater J 31: 409-417, 2012.

◎Takahashi R, Nikaido T, Tagami J, Hickel R, Kunzelmann KH. Contemporary adhesives: marginal adaptation and microtensile bond strength of class II composite restorations. Am J Dent 25:181-188, 2012.

◎Tano E, Otsuki M, Kato J, Sadr A, Ikeda M, Tagami J.　Effects of 405 nm Diode Laser on Titanium Oxide Bleaching Activation. Photomed Laser Surg 30: 648-54, 2012.

◎Thanatvarakorn O, Nakashima S, Sadr A, Prasansuttiporn T, Ikeda M, Tagami J. In vitro evaluation of dentinal hydroraulic conductance and tubule sealing by a novel calcium-phosphate desensitizer. J Biomed Mater Res Part B (in press).

◎Thitthaweerat S, Nakajima M, Foxton RM, Tagami J. Effect of waiting interval in chemical activation mode of one-step dual-cure adhesives on bonding to root canal dentine. J Dent 40: 1109-1118, 2012

◎Tsubone M, Nakajima M,Hosaka K, Foxton RM, Tagami J. Color shifting effect at the border of resin composite restorations in human teeth. Dent Mater 28: 811-817, 2012.

◎Yahagi C, Takagaki T, Sadr A, Ikeda M, Nikaido T, Tagami J. Effect of liningwith a flowablecomposite on internal adaptation of direct composite restorationsusing all-in-one adhesive systems. Dent Mater J. 31: 481-488, 2012.

Yiu CK, Hiraishi N, Tay FR, King NM. Effect of chlorhexidine incorporation into dental adhesive resin on durability of resin-dentin bond. J Adhes Dent 14: 355-362, 2012.

◎Yoshikawa T, Wattanawongpitak N, Cho E, Tagami J.Effect of remaining dentin thickness on bond strength of various adhesive systems to dentin. Dental Mater J 31: 1-6, 2012.

Hiroshi Takayanagi

◎1. Tsuji K, Negishi-Koga T, Sumiya E, Kukita A, Kato S, Maeda T, Pandolfi PP, Moriyama K, Takayanagi H.Stage-specific functions of LRF in the transcriptional control of osteoclast development.

Proc Natl Acad Sci USA., 109:2561, 2012

2. Otero K, Shinohara M, Zhao H, Cella M, Gilfillan S, Colucci A, Faccio R, Ross FP, Teitelbaum SL, Takayanagi H, Colonna M. TREM2 and -catenin regulate bone homeostasis by controlling the rate of osteoclastogenesis.

J Immunol., 188:2612, 2012

3. Fujita K, Iwasaki M, Ochi H, Fukuda T, Ma C, Miyamoto T, Takitani K, Negishi-Koga T, Sunamura S, Kodama T, Takayanagi H, Tamai H, Kato S, Arai H, Shinohara K, Itoh H, Okawa A, Takeda S. Vitamin E decreases bone mass by stimulating osteoclast fusion

Nat Med., 18:589, 2012

◎4. Hayashi M, Nakashima T, Taniguchi M, Kodama T, Kumanogoh A, Takayanagi H. Osteoprotection by Semaphorin 3A.

Nature, 485:69, 2012

◎5. Shinohara M, Nakamura M, Masuda H, Hirose J, Kadono Y, Iwasawa M, Nagase Y, Ueki K,Kadowaki T, Sasaki T, Kato S, Nakamura H, Tanaka S, Takayanagi H.Class IA phosphatidylinositol 3-kinase regulates osteoclastic bone resorption through Akt-mediated vesicle transport.

J Bone Miner Res., doi: 10.1002/jbmr.1703.

◎6. Hara-Yokoyama M, Kukimoto-Niino M, Terasawa K, Harumiya S, Podyma-Inoue KA, Hino N, Sakamoto K, Itoh S, Hashii N, Hiruta Y, Kawasaki N, Mishima-Tsumagari C, Kaitsu Y, Matsumoto T, Wakiyama M, Shirouzu M, Kasama T, Takayanagi H, Utsunomiya-Tate N, Takatsu K, Katada T, Hirabayashi Y, Yokoyama S, Yanagishita M.Tetrameric Interaction of the Ectoenzyme CD38 on the Cell Surface Enables Its Catalytic and Raft-Association Activities.

Structure,20:1585, 2012

◎7. Al-Bari A, Shinohara M, Nagai Y, Takayanagi H. Inhibitory effect of chloroquine on bone resorption reveals the essential role of lysosomes in osteoclast differentiation and function.Inflamma Regener., (in press)

Ikuo Morita

1. ◎ Periodontal Ligament Stem Cells Possess the Characteristics of Pericytes Kengo Iwasaki, D.D.S., Ph.D., Motohiro Komaki, D.D.S., Ph.D. Naoki Yokoyama, Ph.D., Yuichi Tanaka, Ph.D, Atsuko Taki, M.D., Ph.D., Yasuyuki Kimura, D.D.S., Masaki Takeda, ‖Shigeru Oda, D.D.S., Ph.D., Yuichi Izumi, D.D.S., Ph.D., Ikuo Morita, Ph.D.

The Journal of Periodontology in press

1. Wang J, Ohno-Matsui K, Morita I.、Cholesterol enhances amyloid β deposition in mouse retina by modulating the activities of Aβ -regulating enzymes in retinal pigment epithelial cells. Biochem Biophys Res Commun. 424:704-709, 2012
2. Moriyama M, Ohno-Matsui K, Modegi T, Kondo J, Takahashi Y, Tomita M, Tokoro T, Morita .　Quantitative Analyses of High-Resolution 3D MR Images of Highly Myopic Eyes to Determine Their Shapes.　Invest Ophthalmol Vis Sci. 5:4510-4518, 2012
3. Li X, Akiyama M, Nakahama K, Koshiishi T, Takeda S, Morita I.　Role of intercellular adhesion molecule-2 in osteoclastogenesis.　Genes Cells. 17:568-575, 2012.
4. Taki A, Abe M, Komaki M, Oku K, Iseki S, Mizutani S, Morita I.　Expression of angiogenesis-related factors and inflammatory cytokines in placenta and umbilical vessels in pregnancies with preeclampsia and chorioamnionitis/funisitis.　Congenit Anom ;52:97-103, 2012
5. Wang J, Ohno-Matsui K, Morita I.　Elevated amyloid β production in senescent retinal pigment epithelium, a possible mechanism of subretinal deposition of amyloid β in age-related macular degeneration.　Biochem Biophys Res Commun. 423:73-78, 2012.
6. ◎ Wayakanon P, Bhattacharjee R, Nakahama K, Morita I. The role of the Cx43 C-terminus in GJ plaque formation and internalization. Biochem Biophys Res Commun. 420:456-61, 2012
7. Nakamura M, Soya T, Hiratai R, Nagai A, Hashimoto K, Morita I, Yamashita K. Endothelial cell migration and morphogenesis on silk fibroin scaffolds containing hydroxyapatite. J Biomed Mater Res A. 100:969-77, 2012

Ken Omura

1. ◎Hanabata Y, Nakajima Y, Morita KI, Kayamori K, Omura K: Coexpression of SGLT1 and EGFR is associated with tumor differentiation in oral squamous cell carcinoma. Odontology. 100:156-163, 2012.
2. Mochizuki Y, Omura K, Nakamura S, Harada H, Shibuya H, Kurabayashi T: Preoperative predictive model of cervical lymph node metastasis combining fluorine-18 fluorodeoxyglucose positron-emission tomography/computerized tomography findings and clinical factors in patients with oral or oropharyngeal squamous cell carcinoma. Oral Surg Oral Med Oral Pathol Oral Radiol. 113:274-282, 2012.
3. Mochizuki Y, Omura K, Hirai H, Kugimoto T, Osako T, Taguchi T: Chronic mandibular osteomyelitis with suspected underlying synovitis, acne, pustulosis, hyperostosis, and osteitis (SAPHO) syndrome: a case report. J Inflamm Res. 5:29-35, 2012.
4. Sakamoto K, Fujii T, Kawachi H, Miki Y, Omura K, Morita K, Kayamori K, Katsube K, Yamaguchi A: Reduction of NOTCH1 expression pertains to maturation abnormalities of keratinocytes in squamous neoplasms. Lab Invest. 92:688-702, 2012.
5. ◎Kuribayashi Y, Tsushima F, Sato M, Morita KI, Omura K: Recurrence patterns of oral leukoplakia after curative surgical resection: important factors that predict the risk of recurrence and malignancy. J Oral Pathol Med. 41:682-688, 2012.
6. ◎Khanom R, Sakamoto K, Pal SK, Shimada Y, Morita K, Omura K, Miki Y, Yamaguchi A: Expression of basal cell keratin 15 and keratin 19 in oral squamous neoplasms represents diverse pathophysiologies. Histol Histopathol. 27:949-959, 2012.
7. Suzuki M, Hatsuse H, Nagao K, Takayama Y, Kameyama K, Kabasawa Y, Omura K, Yoshida M, Fujii K, Miyashita T: Selective haploinsufficiency of longer isoforms of PTCH1 protein can cause nevoid basal cell carcinoma syndrome.

J Hum Genet. 57:422-426, 2012.

1. ◎Kugimoto T, Morita K, Omura K: Development of oral cancer screening test by detection of squamous cell carcinoma among exfoliated oral mucosal cells. Oral Oncol. 48:794-798, 2012.
2. ◎Tsushima F, Sawai T, Kayamori K, Okada N, Omura K. Schwannoma in the floor of the mouth: A case report and clinicopathological studies of 10 cases in the oral region. Journal of Oral and maxillofacial surgery, Medicine, and Pathology. 24:175-179, 2012.
3. Izumo T, Kirita T, Ariji E, Ozeki S, Okada N, Okabe S, Okazaki Y, Omura K, Kusama M, Sato T: General rules for clinical and pathological studies on oral cancer: A synopsis. Jpn J Clin Oncol. 42:1099-1109, 2012.
4. ◎Matsumoto K, Morita KI, Jinno S, Omura K: Sensory changes after tongue reduction for macroglossia. Oral Surg Oral Med Oral Pathol Oral Radiol. 2012 Aug 15.
5. ◎Shimada Y, Morita KI, Kabasawa Y, Taguchi T, Omura K: Clinical manifestations and treatment for keratocystic odontogenic tumors associated with nevoid basal cell carcinoma syndrome: a study in 25 Japanese patients. J Oral Pathol Med. 2012 Aug 8.
6. Kabasawa Y, Sato M, Kikuchi T, Sato Y, Takahashi Y, Higuchi Y, Omura K : Analysis and comparison of clinical results of bilateral sagittal split ramus osteotomy performed with the use of monocortical locking plate fixation or bicortical screw fixation. Oral Surg Oral Med Oral Pathol Oral Radiol. 2012 Jul.
7. Mochizuki Y, Omura K, Nakamura S, Kayamori K, Harada H, Shibuya H: Evaluation of metastatic cervical lymph nodes in patients with oral squamous cell carcinoma using 18F-FDG PET-CT scans and histopathologic correlation. J Surg Rad. in press.
8. Inomata K, Marukawa E, Takahashi Y, Omura K: The effect of covering materials with open wound in alveolar ridge augmentation using beta-tricalcium phosphate: an experimental study in the dog. The International Journal of Oral& Maxillofacial Implants. in press.
9. Takahashi Y, Marukawa E, Omura K: Application of a new material, beta-tricalcium phosphate/collagen composites, to extraction socket preservation: an experimental study in dogs. The International Journal of Oral & Maxillofacial Implants. in press.

Shohei Kasugai

1. Madi M, Zakaria O, Kasugai S. Coated vs. uncoated implants: Bone defect configurations. Journal of Oral Implantology *in press*
2. Madi M, Zakaria O, Noritake K, Fuji M, Kasugai S. Peri-implantitis progression around thin sputtered hydroxyapatite-coated implants: Clinical and radiographic evaluation in dogs. International Journal of Oral and Maxillofacial Implants *in press*
3. Miyahara T, Dahlin C, Galli S, Parsafar S, Koizumi H, Kasugai S.　[A novel dual material mouthguard for patients with dental implants.](http://www.ncbi.nlm.nih.gov/pubmed/22853626) Dental Traumatology *in press*
4. Miyahara T, Nyan M, Shimoda A, Yamamoto Y, Kuroda S, Shiota M, Akiyoshi K, Kasugai S. Exploitation of a novel polysaccharide nanogel cross-linking membrane for guided bone regeneration (GBR). Journal of Tissue Engineering and Regenerative Medicine 6:666-72, 2012
5. Rungsiyanont S, Dhanesuan N, Swasdison S, Kasugai S. [Evaluation of biomimetic scaffold of gelatin-hydroxyapatite crosslink as a novel scaffold for tissue engineering: Biocompatibility evaluation with human PDL Fibroblasts, human mesenchymal stromal cells, and primary bone cells.](http://www.ncbi.nlm.nih.gov/pubmed/21343214) Journal of Biomaterials Applications 27:47-54, 2012
6. Bhargava S, Doi H, Kondo R, Aoki H, Hanawa T, Kasugai S. Effect of sandblasting on the mechanical properties of Y-TZP zirconia. Biomedical and Material Engineering 22:383-98, 2012
7. Umehara K, Iimura T, Sakamoto K, Lin Z, Kasugai S, Igarashi Y, Yamaguchi A. Canine oral mucosal fibroblasts differentiate into osteoblastic cells in response to BMP-2. The Anatomical Redord 295:1327-35, 2012
8. Zakaria O, Madi M, Kasugai S. A novel osteogenesis technique: The expansible guided bone regeneration. Journal of Tissue Engineering:2041731412441194, 2012
9. Zakaria O, Kon K, Kasugai S. [Evaluation of a biodegradable novel periosteal distractor.](http://www.ncbi.nlm.nih.gov/pubmed/21998069) Journal of Biomedical and Material Research Part B - Applied Biomaterials 100:882-9, 2012
10. Zakaria O, Madi M, Kasugai S. [Induced osteogenesis using a new periosteal distractor.](http://www.ncbi.nlm.nih.gov/pubmed/22374066) Journal of Oral Maxillofacial Surgery 70:225-34, 2012
11. Hao J, Kuroda S, Chen K, Noritake K, Rodoriguez R, Pluemsakunthai W, Aoki H, Kasugai S. Bacterial adhesion behavior and bone formation effect of zeledronic acid (ZOL) immobilized sputtered hydroxyapatite implants. Journal of Bio-Integration 2:103-109, 2012
12. Madi M, Zakaria O, Noritake K, Fujii M, Kasugai S. Ligature-induced periimplantitis surrounding thin sputtered HA-coated implants. An experimental study in dogs. Clinical and radiographic evaluations. ournal of Bio-Integration 2:111-117, 2012
13. Date Y, Yokoyama Y, Kondo H, Kuroda S, Ohya K, Ota MS, Iseki S, Kasugai S. [Restricted expression of chromatin remodeling associated factor Chd3 during tooth root development.](http://www.ncbi.nlm.nih.gov/pubmed/21972924) Journal of Periodontal Research 47:180-7, 2012
14. Murakami I, Murakami Y, Clifford DK, Palacci P, Kasugai S. Panoramic implant notation sytem – A mothod to denote implant position and prosthodontic modalities. Journal of Prosthodontic Research 56:65-9, 2012

Hideaki Suda

1. ◎ Otabe K, Muneta T, Kawashima N, Suda H, Tsuji K, Sekiya I.

Comparison of gingiva, dental pulp, and periodontal ligament cells from the standpoint of mesenchymal stem cell properties.

Cell Medicine. 4. 13-21, 2012.

1. ◎ Xu J, Kawashima N, Fujiwara N, Harada H, Ota M, Suda H.

Promotional effects of vasoactive intestinal peptide on the development of rodent Hertwig’s epithelial root sheath.

Congenital Anomalies. 52:162-7. 2012.

1. ◎ Wei S, Kawashima N, Suzuki N, Xu J, Takahashi S, Zhou M, Koizumi Y, Suda H.

Kinetics of Th17-related cytokine expression in experimentally induced rat periapical lesions.Aust Endod J . in press.

1. Sun H, Yang J, Kawashima N, Li Y, Zhang W, Wang P.

A brief comparison of curricula at dental schools in China and Japan.

J Dent Educ. 76:765-73. 2012.

1. Kawashima N.

Characterisation of dental pulp stem cells: A new horizon for tissue regeneration?,

Arch Oral Biol. 57:1439-58. 2012.

1. Yoshida T, Kumashiro Y, Iwata T, Ishihara J, Umemoto T, Shiratsuchi Y, Kawashima N, Sugiyama T, Yamato M, Okano T.
Requirement of Integrin s3 for Iron Transportation during Enamel Formation.

J Dent Res. in press.

1. ◎ Bolortuya G, Ebihara A, Ichinose S, Watanabe S, Anjo T, Kokuzawa C , Saegusa H, Kawashima N, and Suda H.

Effects of Dentin Surface Modifications Treated with Er:YAG and Nd:YAG Laser Irradiation on Fibroblast Cell Adhesion.

Photomedicine and laser surgery. 30:63-70. 2012.

1. Jamleh A, Sadr A , Nomura N, Yahata Y , Ebihara A. Hanawa T, Tagami J. and Suda H. Nano-indentation testing of new and fractured nickel-titanium endodontic instruments.

International Endodontic Journal. 45:462-8. 2012.

1. Jamleh A, Kobayashi C, Yahata Y, Ebihara A and Suda H..

Deflecting load of nicel titanium rotary instruments during cyclic fatigue.

Dental Materials Journal. 31:389-93. 2012.

1. Kokuzawa C, Ebihara A, Watanabe S, Anjo T, Bolortuya G, Saegusa H, Suda H.

Shaping of the root canal using Er:YAG laser irradiation.

Photomedicine and laser surgery. 30:367-73. 2012.

1. Yoshioka T, Sakaue H, Ishimura H, Ebihara A, Suda H, Sumi Y .

Detection of root surface fractures with swept-source optical coherence tomography(SS-OCT).

Photomedicine and laser surgery. in press.

1. Kaneko T , Chokuchanachaisakul U, Kawamura J, Yamanaka Y, Ito T , Sunakawa M, Suda H, Okiji T.

Upregulation of p38 mitogen-activated protein linase during pulp injuru-induced glial cell/neuronal interaction in the rat thalamus.

J of Endod.　in press.

1. Ikeda H, Suda H.

Facilitatory Effect of AC-Iontophoresis of Lidocaine Hydrochloride on the Permeability of Human Enamel and Dentine in Extracted Teeth.

Archives of Oral Biology. in press.

1. Ikeda H, Suda H.

Functional syncytium through electrical coupling between human odontoblasts.

J Dental Research. inpress.

1. Li Y, Ikeda H, Suda H,

Measurement of the Functional Space for Hydrodynamic Fluid　Movement in Rat Dentine Using Fluorescent Microspheres.

Archives of Oral Biology. in press.

1. ◎ H.G. Wang, N. Kawashima, T. Iwata, J. Xu, S. Takahashi, T. Sugiyama, H. Suda,

MEPE Activated by Furin Promotes Pulpal Cell Adhesion,

Jouranal of Dental Research 90:529-534, 2011.

1. XM. Hou, Y. Yahata, Y. Hayashi, A. Ebihara, T. Hanawa and H. Suda,

Phase transformation behaviour and bending property of twisted nickel–titanium endodontic instruments,

International Endodontic Journal 44:253-258, 2011.

1. A. Ebihara, Y. Yahata, K. Miyara, K. Nakano, Y. Hayashi and H. Suda,

Heat treatment of nickel–titanium rotary endodontic instruments: effects on bending properties and shaping abilities,

International Endodontic Journal 44:843-849, 2011.

1. ◎ G. Bolortuya, A. Ebihara, S. Ichinose, S. Watanabe, T. Anjo, C. Kokuzawa, H. Saegusa, N. Kawashima and H. Suda,

Initial fibroblast attachment to Erbium:YAG laser-irradiated dentine,

International Endodontic Journal 44:1134-1144, 2011.

1. ◎ Chokechanachaisakul U, Yamanaka Y, Kaneko T，Katsube K,　Kobayashi H, Okiji T, Suda H,

Gene expression analysis of resident macrophages in lipopolysaccharide-stimulated rat molar pulp,

Journal of Endodontics 37:1258-1263, 2011.

1. Kaneko M, Kaneko T，Kaneko R. Chokechanachaisakul U, Kawamura J, Sunakawa M, Okiji T, Suda H,

The role of N-methyl-D-aspartate receptor subunits in the rat thalamic mediodorsal nucleus during central sensitization,

Brain Research 1371:16-22, 2011.

1. Adorno CG, Yoshioka T, Suda H,

Crack initiation on the apical root surface caused by three different nickel-titanium rotary files at different working lengths,

Journal of Endodontics 37:522-5, 2011.

1. T. Yoshioka, I. Kikuchi, C. Adorno, H. Suda,

Periapical bone defects of root filled teeth with persistent lesions evaluated by cone-beamcomputed tomography,

International Endodontic Journal 44:245-252, 2011.

1. T. Kaneko, H. Sakaue, T. Okiji, H. Suda,

Clinical management of dens invaginatus in a maxillary lateral incisor with the aid of cone-beam computed tomography – a case report,

Dental Traumatology27:478-483, 2011.

1. Kaneko T, Okiji T, Kaneko R, Suda H, Nor JE,

Laser- capture microdissection for factor Ⅷ-expressing endothelial cells in cancer tissues,

Methods Mol Biol 755:395-403, 2011.

Yuichi Izumi

1.　Almehdi A, Aoki A, Ichinose S, Taniguchi Y, Sasaki KM, Ejiri K, Sawabe M, Chui C, Katagiri S, Izumi Y. Histological and SEM analysis of root cementum following irradiation with Er:YAG and CO2 lasers. Lasers Med Sci (e-pub May 15th, 2012).

2. ◎[Aoyama N](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Aoyama%20N%22%5BAuthor%5D), [Suzuki J](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Suzuki%20J%22%5BAuthor%5D), [Ogawa M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Ogawa%20M%22%5BAuthor%5D), Watanabe R, [Kobayashi N](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Kobayashi%20N%22%5BAuthor%5D), [Hanatani T](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Hanatani%20T%22%5BAuthor%5D), [Yoshida](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Takeuchi%20Y%22%5BAuthor%5D) A, Ashigaki N, [Izumi Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Izumi%20Y%22%5BAuthor%5D), [Isobe M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Isobe%20M%22%5BAuthor%5D). Clarithromycin Suppresses the Periodontal Bacteria-Accelerated Abdominal Aortic Aneurysms in Mice. [J Periodontal Res.](http://www.ncbi.nlm.nih.gov/pubmed/21143481) 47:463-469;2012

3. Belal MH, WatanabeH, Ichinose S, Ishikawa I.Effect of PDGF-BB combined with EDTA gel on adhesion and proliferation to the root surface. *Odontology* 100:206-214, 2012　.

4.◎Bharti P, Katagiri S, Nitta H, Nagasawa T, Kobayashi H, Takeuchi Y, Izumiyama H, Uchiyama I, Inoue S, Izumi Y. Periodontal treatment with topical antibiotics improves glycemic control in association with elevated serum adiponectin in patients with type 2 diabetes mellitus. *Obesity Research and Clinical Practice* (in press)

5.◎Chui C, Hiratsuka K, Aoki A, Takeuchi Y, Abiko Y, Izumi Y.Blue LED Inhibits the Growth of *Porphyromonas gingivalis* by Suppressing the Expression of Genes Associated with DNA Replication and Cell Division. Lasers Surg Med (2012 e-pub Nov 5th.)

6. Hamaya R, Ogawa M, Kobayashi N, Suzuki J, Itai A, Hirata Y, Nagai R, Isobe M. A novel IKK inhibitor prevents progression of restenosis after arterial injury in mice. Int Heart J. 53:133-138, 2012.

7. Hanatani T, Suzuki J, Ogawa M, Aoyama N, Kobayashi N, Hirata Y, Nagai R, Izumi Y, Isobe M. The periodontal pathogen Aggregatibacter actinomycetemcomitans deteriorates ventricular remodeling after myocardial infarction in mice. Int Heart J 53:253-256, 2012.

8. Hayakumo S, Arakawa S, Mano Y, Izumi Y. Clinical and microbiological effects of ozone nano-bubble water irrigation as an adjunct to mechanical subgingival debridement in periodontitis patients in a randomized controlled trial. Clin Oral Investig. (in press)

9.◎Himeno-Ando A, Izumi Y, Yamaguchi A, Iimura T. Structural differences in the osteocyte network between the calvaria and long bone revealed by three-dimensional fluorescence morphometry, possibly reflecting distinct mechano-adaptations and sensitivities. Biochem Biophys Res Commun 417:765-770, 2012.

10. Katagiri S, Nagasawa T, Kobayashi H, Takamatsu H, Bharti P, Izumiyama H, Uchimura I,

Tagami T, Suzuki T, Nanbara H, Taniguchi Y, Hayakumo S, Koyanagi T, Himeno-Ando A, Goto

M, Kajio H, Takahashi Y, Izumi Y, Noda M Improvement of glycemic control aft er periodontal

treatment by resolving gingival inflammation in type 2 diabetic patients with periodontal disease. J Diabetes Invest 3: 402-409, 2012

11. Katagiri S, Nitta H, Nagasawa T, Izumi Y, Kanazawa M, Matsuo A, Chiba H, Fukui M,

Nakamura N, Oseko F, Kanamura N, Inagaki K, Noguchi T, Naruse K, Matsubara T, Miyazaki S,

Miyauch T, Ando Y, Hanada N, Inoue S. Effect of glycemic control on periodontitis in type 2 diabetic patients with periodontal disease. J Diabetes Invest (in press)

12. ◎Kobayashi N, Suzuki J, Ogawa M, Aoyama N, Hanatani T, Hirata Y, Nagai R, Izumi Y, Isobe

M. *Porphyromonas gingivalis* accelerates neointimal formation after arterial injury. J Vasc Res.

49:417-424. 2012.

13. Komaki M, Iwasaki K, Arzate H, Narayanan AS, Izumi Y, Morita I. Cementum protein

1(CEMP1) induces a cementoblastic phenotype and reduces osteoblastic differentiation in

periodontal ligament cells. Journal of Cellular Physiology 227:649-657,2012

14. Mima A, Hiraoka-Yamomoto J, Li Q, Kitada M, Li C, Geraldes P, Matsumoto M, Mizutani K,

Park K, Cahill C, Nishikawa SI, Rask-Madsen C, King GL. Protective Effects of GLP-1 on

Glomerular Endothelium and Its Inhibition by PKCβ Activation in Diabetes. Diabetes.2012.

15. Mima A, Kitada M, Geraldes P, Li Q, Matsumoto M, Mizutani K, Qi W, Li C, Leitges M,

Rask-Madsen C, King GL. Glomerular VEGF resistance induced by PKCδ/SHP-1 activation and contribution to diabetic nephropathy. The Federation of American Societies for Experimental Biology Journal. 26:2963-74. 2012.

1. Miyazaki H, Oshiro T, Watanabe H, Kakizaki H, Makiguchi T, Kim M, Negishi A, Yokoo S.

Ultrasound-guided intralesional laser treatment of voluminous venous malformation in the oral cavity. *Int J oral Maxillofac Surg* (in press)

17. Nanbara H, Wara-aswapati N, Nagasawa T, Yoshida Y,Yashiro R, Bando Y, Kobayashi H,

Khongcharoensuk J,Hormdee D, Pitiphat W, Boch JA, Izumi Y. Modulation of Wnt5a

expression by periodontopathic bacteria. PLoS One. 2012;7:e34434. Epub 2012 Apr 2.

18. Rajakaruna GA, Umeda M, Uchida K, Furukawa A, Yuan B, Suzuki Y, Ebe N, Izumi Y, Eishi YPossible translocation of periodontal pathogene into the lymph nodes draining the oral cavity.

J microbiol 50:827-836, 2012

19. ◎Sekinishi A, Suzuki J, Aoyama N, Ogawa M, Watanabe R, Kobayashi N, Hanatani T, Ashigaki N, Hirata Y, Nagai R, Izumi Y, Isobe M. A periodontal pathogen *Aggregatibacter actinomycetemcomitans* deteriorates pressure overload-induced myocardial hypertrophy in mice. Int Heart J 53:324-330, 2012

20. ◎Takeuchi Y, Nagasawa T, Katagiri S, Kitagawara S, Kobayashi H, Koyanagi T, Izumi Y. Salivary levels of antibacterial peptide (LL-37/hCAP-18) and cotinine in periodontitis patients.

*J Periodontol* 83:766-772, 2012.

21. ◎Taniguchi Y, Aoki A, Mizutani K, Takeuchi Y, Ichinose S, Takasaki AA, Schwarz F, Izumi Y.

Optimal Er:YAG laser irradiation parameters for debridement of microstructured fixture surfaces

of titanium dental implants. Lasers Med Sci 2012.

Masaki Yanagisita

Katarzyna A. Podyma-Inoue, Miki Hara-Yokoyama, TamayukiShinomura, Tomoko Kimura and Masaki Yanagishita, SyndecansReside inSphyngomyelin-enriched Low-density Fractions of the Plasma membrane Isolated from a Parathyroid Cell Line, PLoS One, (2012) 7:e32351

◎Miki Hara-Yokoyama, MutsukoKukimoto-Niino,Kazue Terasawa,Satoru Harumiya,Katarzyna A. Podyma-Inoue, Nobumasa Hino,Kensaku Sakamoto,Satsuki Itoh,NoritakaHashii,Yoko Hiruta,Nana Kawasaki, ChiemiMishima-Tsumagari,Yoko Kaitsu,Tomoko Matsumoto,Motoaki Wakiyama,Mikako Shirouzu, Takeshi Kasama,Hiroshi Takayanagi,Naoko Utsunomiya-Tate,Kiyoshi Takatsu,Toshiaki Katada, Yoshio Hirabayashi,Shigeyuki Yokoyama,and Masaki Yanagishita.Tetrameric interaction of the ectoenzyme CD38 on the cell surface enables its catalytic and raft-association activities, Structure 20, 1585-1595 (2012)

BodilFadnes, Anne Husbekk, GunbjorgSveing, OysteinRekdal, Masaki Yanagishita, Svein O. Kolset and Lars Uhlin-Hansen, The proteoglycan repertoire of lymphoid cells, Glycoconjugate J. 29:513-523 (2012)

Akira Yamaguchi

1. ◎Himeno-Ando A, Izumi Y, Yamaguchi A, Iimura T: Structural differences in the osteocyte network between the calvaria and long bone revealed by three-dimensional fluorescence morphometry, possibly reflecting distinct mechano-adaptations and sensitivities. ***BiochemBioph Res Co***417:765-770,2012
2. Sakamoto K, Fujii T, Kawachi H, Miki Y, Omura K, Morita K, Kayamori K, Khanom R, Katsube K, Yamaguchi A: Reduction of NOTCH1 expression pertains to maturation abnormalities of keratinocytes in squamous neoplasms. ***Lob Invest*** 92:688-702:2012
3. ◎Khanom R, Sakamoto K, Pal SK, Shimada Y, Morita K-i, Omura K, Miki Y, Yamaguchi A: Expression of basal cell keratin 15 and keratin 19 in oral squamous cell carcinoma represent diverse phthophysiologies. ***HistolHistopathol***27:949-959,2012
4. Aizawa R, Yamada A, Suzuki D, Iimura T, Kassai H, Harada T, Tsukasaki M, Yamamoto G, Tachikawa T, Nakao K, Yamamoto M, Yamaguchi A, Aiba A, Kamijo R: Cdc42 is required for chondrogenesis and interdigital programmed cell death during limb development.***MechDev***129:38-50,2012
5. [Michikawa C](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Michikawa%20C%22%5BAuthor%5D), [Uzawa N](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Uzawa%20N%22%5BAuthor%5D), [Kayamori K](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Kayamori%20K%22%5BAuthor%5D), [Sonoda I](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Sonoda%20I%22%5BAuthor%5D), [Ohyama Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Ohyama%20Y%22%5BAuthor%5D), [Okada N](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Okada%20N%22%5BAuthor%5D), [Yamaguchi A](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Yamaguchi%20A%22%5BAuthor%5D), [Amagasa T](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Amagasa%20T%22%5BAuthor%5D): Clinical significance of lymphatic and blood vessel invasion in oral tongue squamous cell carcinomas.***Oral Oncol*** 　48:320-324,2012
6. ◎Umehara K, IimuraT,Sakamoto K, LinZ, KasugaiS, IgarashiY, Yamaguchi A: Canine oral mucosal fibroblasts differentiate into osteoblastic cellsin response to BMP-2. ***Anat Rec*** 295:1327-1335,2012
7. ◎Watanabe T, Tamamura Y, Hoshino A, Makino Y, Nishimura R, Kamioka H, Yoneda T, Amagasa T, Yamaguchi A, Iimura T: Increasing participation of Sclerostin in postnatal bone development revealed by three-dimensional immunofluorescence morphometry. ***BONE***51:447-458,2012
8. Sakamoto K, Khanom R, Hamagaki M, Yamaguchi A: Ectopic production of hair keratin constitutes Rushton’s hyaline bodies in association with hematogenous deposits. ***J Oral Pathol Med*** 27:949-959,2012
9. ◎Oue E, Lee JW, Sakamoto K, Iimura T, Aoki K, Kayamori K, Michi Y, Yamashiro M, Yamaguchi A: CXCL2 synthesized by oral squamous cell carcinoma is involved in cancer-associated bone destruction.***BiochemBioph Res Co***424:456-461,2012
10. Nishimura R, Wakabayashi M, Hata K, Matsubara T, Honma H, Wakisaka S, Kiyonari H, Shioi G, Yamaguchi A, Tsumaki N, Akiyama H, Yoneda T: Osterix regulates calcification and degradation of chondrogenic matrices through matrix metalloproteinase (MMP13) expression in association with transcription factor Runx2 during endochondral ossification. ***J BiolChem***287:33179-33190,2012
11. ◎Hoshino A, Ueha S, Hanada S, Imai T, Ito M, Yamamoto K,Matsushima K, Yamaguchi A, Iimura T:Roles of chemokine receptor CX3CR1 in maintaining murine bone homeostasis through the regulation of both osteoblasts and osteoclasts. ***J Cell Sci***258:28826-28837,2012
12. ◎Tanabe R, Haraikawa M, Sogabe N, Sugimoto A, Kawamura Y, Takasugi S, Nagata M, Nakane A, Yamaguchi A, Iimura T, MasaeGoseki-Sone : Retention of bonestrength by feeding of milk and dairyproducts in ovariectomized rats; involvement of changes in serumlevels of 1alpha, 25(OH)2D3 and FGF23. ***J NutrBiochem***. 2012 [in press]
13. ◎Makino Y, Takahashi Y, Tanabe R, Tamamura Y, Watanabe T,Haraikawa M, Hamagaki M, Hata K, Kanno J, Yoneda T, Saga Y, Goseki-Sone M, Kaneko K, Yamaguchi A, Iimura T: Spatiotemporal disorder in endochondral ossification during axial skeleton development in the Mesp2-null mouse: A developmental etiology of spondylocostaldysostosis and spondylothoracicdysostosis.***BONE*** (in press)

Keiji Moriyaam

◎Tsuji-Takechi K, Negishi-Koga T, Sumiya E, Kukita A, Kato S, Maeda T, Pandolfi PP, Moriyama K, Takayanagi H. Stage-specific functions of leukemia/lymphoma-related factor (LRF) in the transcriptional control of osteoclast development. Proc Natl Acad Sci USA. 109:2561-6,2012.

◎Okamoto N, Hayashi S, Masui A, Kosaki R, Oguri I, Hasegawa T, Imoto I, Makita Y, Hata A, Moriyama K, Inazawa J. Deletion at chromosome 10p11.23-p12.1 defines characteristic phenotypes with marked midface retrusion. J Hum Genet. 57:191-6, 2012.

◎Suzuki H, Suda N, Shiga M, Kobayashi Y, Nakamura M, Iseki S, Moriyama K. Apert syndrome mutant FGFR2 and its soluble form reciprocally alter osteogenesis of primary calvarial osteoblasts.Journal of Cellular Physiolog. 227 : 3267, 2012.

◎Suzuki S, Haruyama N, Nishimura F, Kulkarni AB. Dentin sialophosphoprotein and dentin matrix protein-1: Two highly phosphorylated proteins in mineralized tissues. Arch Oral Biol. 57:1165-75, 2012.

◎Qiu L, Haruyama N, Suzuki S, Yamada D, Obayashi N, Kurabayashi T, Moriyama K. Accuracy of orthodontic miniscrew implantation guided by stereolithographic surgical stent based on cone-beam CT derived 3D images. Angle Orthod.82:284-93, 2012.

◎Komazaki Y, Fujiwara T, Ogawa T, Sato M, Suzuki K, Yamagata Z, Moriyama K. Prevalence and gender comparison of malocclusion among Japanese adolescents: A population-based study. J World Fed Orthod, 1:67-72, 2012.

◎Hikita R, Miyamoto J, Ono T, Honda E, Kurabayashi T, Moriyama K. Activation Patterns in the Auditory Association Area Involved in Glottal Stop Perception. Journal of Oral Biosciences. (in press)

◎Mitani K\*, Haruyama N\*, Hatakeyama J, Igarashi K. \*Authors equally contributed. Amelogenin splice isoforms stimulate chondrogenic differentiation of ATDC5 cells. Oral Dis. （in press）

◎Honda A, Baba Y, Ogawa T, Suzuki S, Moriyama K. Long-term maxillomandibular changes after maxillary distraction osteogenesis in growing children with cleft lip and palate. Cleft Palate Craniofac J. (in press)

◎Okamura E, Suda N, Baba Y, Fukuoka H, Ogawa T, Ohkuma M, Ahiko N, Shiga M, Tsuji M, Moriyama K. Dental and maxillofacial characteristics in six Japanese individuals with ectrodactyly-ectodermal dysplasia-clefting (EEC) syndrome. Cleft Palate Craniofac J. (in press)

Watanabe K, Kuroda S, Takahashi T, Kijima T, Torikai K, Moriyama K, Tanaka E. Segmental distraction osteogenesis with modified LeFort II osteotomy for a patient with craniosynostosis. Am J Orthod Dentofacial Orthop. 142:698-709, 2012.

Tokugawa Y, Kubota M, Nishimura M, Haruyama N, Igarashi K. Bone regeneration of canine artificial alveolar clefts using bone-marrow-derived mesenchymal stromal cells and β-tricalcium phosphate: A preliminary study. Orthod Waves***.*** 71:51–58, 2012.

Tanimoto Y, Veistinen L, Alakurtti K, Takatalo M, Rice DP.Prevention of premature fusion of calvarial suture in GLI-Kruppel family member 3 (Gli3)-deficient mice by removing one allele of Runt-related transcription factor 2 (Runx2).J Biol Chem. 15;287:21429-38, 2012.

Veistinen L, Takatalo M, Tanimoto Y, Kesper DA, Vortkamp A, Rice DP.Loss-of-Function of Gli3 in Mice Causes Abnormal Frontal Bone Morphology and Premature Synostosis of the Interfrontal Suture.Front Physiol. 3:121, 2012.

Shibata S, Fukuoka H, Sato R, Abe T, Suzuki Y.[An in situ hybridization study of the insulin-like growth factor system in developing condylar cartilage of the fetal mouse mandible.](http://www.ncbi.nlm.nih.gov/pubmed/22688304)Eur J Histochem. 23;56, 2012.

Suda N, Moriyama K, Ganburged G. Effect of Angiotensin II receptor blocker on experimental periodontitis in a mouse model of Marfan syndrome. Infect Immun. (in press)

Atsushi Okawa

Aini H, Ochi H, Iwata M, Okawa A, Koga D, Okazaki M, Sano A, Asou Y. Procyanidin B3 prevents articular cartilage degeneration and heterotopic cartilage formation in a mouse surgical osteoarthritis model. PLoS One 2012;7:e37728.

Enomoto M, Ukegawa D, Sakaki K, Tomizawa S, Arai Y, Kawabata S, Kato T, Yoshii T, Shinomiya K, Okawa A. Increase in paravertebral muscle activity in lumbar kyphosis patients by surface electromyography compared with lumbar spinal canal stenosis patients and healthy volunteers. J Spinal Disord Tech 2012 Aug;25:E167-73.

◎Fujita K, Iwasaki M, Ochi H, Fukuda T, Ma C, Miyamoto T, Takitani K, Negishi-Koga T, Sunamura S, Kodama T, et al. Vitamin E decreases bone mass by stimulating osteoclast fusion. Nat Med 2012 Mar 4;18:589-94.

Hirai T, Enomoto M, Machida A, Yamamoto M, Kuwahara H, Tajiri M, Hirai Y, Sotome S, Mizusawa H, Shinomiya K, et al. Intrathecal shRNA-AAV9 inhibits target protein expression in the spinal cord and dorsal root ganglia of adult mice. Hum Gene Ther Methods 2012 Apr;23:119-27.

Hirai T, Kato T, Kawabata S, Enomoto M, Tomizawa S, Yoshii T, Sakaki K, Shinomiya K, Okawa A. Adhesive arachnoiditis with extensive syringomyelia and giant arachnoid cyst after spinal and epidural anesthesia: A case report. Spine (Phila Pa 1976) 2012 Feb 1;37:E195-8.

Hirai T, Kawabata S, Enomoto M, Kato T, Tomizawa S, Sakai K, Yoshii T, Sakaki K, Shinomiya K, Okawa A. Presence of anterior compression of the spinal cord after laminoplasty inhibits upper extremity motor recovery in patients with cervical spondylotic myelopathy. Spine (Phila Pa 1976) 2012 Mar 1;37:377-84.

Hirai T, Okawa A, Arai Y, Takahashi M, Kawabata S, Kato T, Enomoto M, Tomizawa S, Sakai K, Torigoe I, et al. Middle-term results of a prospective comparative study of anterior decompression with fusion and posterior decompression with laminoplasty for the treatment of cervical spondylotic myelopathy. Spine (Phila Pa 1976) 2011;36:1940-7.

Ishii S, Kawabata S, Tomizawa S, Tomori M, Sakaki K, Shinomiya K, Sekihara K, Sato T, Adachi Y, Okawa A. Conductive neuromagnetic fields in the lumbar spinal canal. ClinNeurophysiol 2012 Aug;123:1656-61.

Itoh H, Hara Y, Tagawa M, Kato T, Ochi H, Koga D, Okawa A, Asou Y. Evaluation of the association between runt-related transcription factor 2 expression and intervertebral disk aging in dogs. Am J Vet Res 2012 Oct;73:1553-9.

◎Iwasaki M, Piao J, Kimura A, Sato S, Inose H, Ochi H, Asou Y, Shinomiya K, Okawa A, Takeda S. Runx2 haploinsufficiency ameliorates the development of ossification of the posterior longitudinal ligament. PLoS One 2012;7:e43372.

Koyanagi H, Matsumoto S, Shimoji T, Tanizawa T, Ae K, Shinomiya K, Okawa A, Kawaguchi N. Long-term results from use of pasteurized bone. J OrthopSci 2012 Sep;17:605-13.

Kuroiwa T, Yoshii T, Sakaki K, Inose H, Tomizawa S, Kato T, Kawabata S, Shinomiya K, Okawa A. Vertebral locking lesion following cervical spine fracture in ankylosing spondylitis. Orthopedics 2012 Jun;35:e1005-8.

Li W, Enomoto M, Ukegawa M, Hirai T, Sotome S, Wakabayashi Y, Shinomiya K, Okawa A. Subcutaneous injections of platelet-rich plasma into skin flaps modulate proangiogenic gene expression and improve survival rates. PlastReconstrSurg 2012 Apr;129:858-66.

Nimura A, Kato A, Yamaguchi K, Mochizuki T, Okawa A, Sugaya H, Akita K. The superior capsule of the shoulder joint complements the insertion of the rotator cuff. J Shoulder Elbow Surg 2012 Jul;21:867-72.

Sakai K, Okawa A, Takahashi M, Arai Y, Kawabata S, Enomoto M, Kato T, Hirai T, Shinomiya K. Five-year follow-up evaluation of surgical treatment for cervical myelopathy caused by ossification of the posterior longitudinal ligament: A prospective comparative study of anterior decompression and fusion with floating method versus laminoplasty. Spine (Phila Pa 1976) 2012 Mar 1;37:367-76.

Sakaki K, Kawabata S, Ukegawa D, Hirai T, Ishii S, Tomori M, Inose H, Yoshii T, Tomizawa S, Kato T, et al. Warning thresholds on the basis of origin of amplitude changes in transcranial electrical motor-evoked potential monitoring for cervical compression myelopathy. Spine (Phila Pa 1976) 2012 Jul 1;37:E913-21.

Sawamura C, Matsumoto S, Shimoji T, Ae K, Okawa A. Lymphadenectomy and histologic subtype affect overall survival of soft tissue sarcoma patients with nodal metastases. ClinOrthopRelat Res 2012 Sep 7.

Sawamura C, Matsumoto S, Shimoji T, Ae K, Tanizawa T, Gokita T, Koyanagi H, Okawa A. Indications for and surgical complications of rotationplasty. J OrthopSci 2012:775-81.

Taniyama T, Hirai T, Yamada T, Yuasa M, Enomoto M, Yoshii T, Kato T, Kawabata S, Inose H, Okawa A. Modified K-line in MRI predicts insufficient decompression of cervical laminoplasty. Spine (Phila Pa 1976) 2012

Yamada T, Yoshii T, Sotome S, Yuasa M, Kato T, Arai Y, Kawabata S, Tomizawa S, Sakaki K, Hirai T, et al. Hybrid grafting using bone marrow aspirate combined with porous beta-tricalcium phosphate and trephine bone for lumbar posterolateral spinal fusion: A prospective, comparative study versus local bone grafting. Spine (Phila Pa 1976) 2012;37:E174-9.

Yamada T, Yoshii T, Yoshimura H, Suzuki K, Okawa A. Upper limb amputation due to a brachial arterial embolism associated with a superior mesenteric arterial embolism: A case report. BMC Res Notes 2012;5:372.

Yamauchi Y, Jinno T, Koga D, Asou Y, Morita S, Okawa A. Comparison of different distal designs of femoral components and their effects on bone remodeling in 1-stage bilateral total hip arthroplasty. J Arthroplasty 2012:1538-43.

Yoshii T, Hafeman AE, Esparza JM, Okawa A, Gutierrez G, Guelcher SA. Local injection of lovastatin in biodegradable polyurethane scaffolds enhances bone regeneration in a critical-sized segmental defect in rat femora. J Tissue EngRegen Med 2012.

◎Yoshii T, Yuasa M, Sotome S, Yamada T, Sakaki K, Hirai T, Taniyama T, Inose H, Kato T, Arai Y, et al. Porous/Dense composite hydroxyapatite for anterior cervical discectomy and fusion. Spine (Phila Pa 1976) 2012.

Nobuyuki Miyasaka

1. Enosawa S, Yamazaki T, Kohsaka H, Tokiwa T. Repopulation of human origin hepatocyte progenitor-like cell line, THLE-5b, in Scid mouse liver under p21-mediated cell growth arresting condition. ***Cell Transplantation*** 21(2-3): 447-452, 2012
2. ◎代表論文Sugihara T, Okiyama N, Watanabe N, Miyasaka N and Kohsaka H. IL-1 and TNF-α blockade for treatment of experimental polymyositis. ***Arthritis Rheum*** 64: 2655-2662, 2012
3. Hasegawa H, Kohsaka H, Takada K, Miyasaka N. Renal involvement in chronic hypertrophic pachymeningitis associated with myeloperoxidase antineutrophil cytoplasmic antibody-positive granulomatosis with polyangiitis. ***J Rheumatol*** 39:2053-2055, 2012
4. ◎代表論文Murakami Y, Mizoguchi F, Saito T, Miyasaka N, Kohsaka H. p16INK4a exerts an anti-inflammatory effect through accelerated IRAK1 degradation in macrophages. ***J Immunol*** 189: 5066–5072, 2012
5. ◎代表論文Okiyama N, Sugihara T, Oida T, Ohata J, Yokozeki H, Miyasaka N, Kohsaka H. T lymphocytes and muscle condition act like seeds and soil in a murine polymyositis model. ***Arthritis Rheum*** (in press)
6. Matsubara T, Yamana S, Tohma S, Takeuchi T, Kondo H, Kohsaka H, Ozaki S, Hashimoto H, Miyasaka N, Yamamoto A, Hiraoka M, Abe T. Phase I study in Japanese rheumatoid arthritis patients evaluating the safety, tolerability and efficacy of abatacept ***Mod Rheumatol*** (in press)
7. Ohta A, Nagai M, Nishina M, Tomimitsu H, Kohsaka H. Age at onset and gender distribution of systemic lupus erythematosus, polymyositis/dermatomyositis and systemic sclerosis in Japan ***Mod Rheumatol*** (in press)
8. Nakasato M, Kohsaka H, Mizutani T, Watanabe G, Taya K, Nagaoka K Pregnancy-associated plasma protein (PAPP)-A expressed in the mammary gland controls epithelial cell proliferation and differentiation. ***Endocrine*** (in press)
9. ◎ Matsuo Y, Mizoguchi F, Kohsaka H, Ito E, Eishi Y, Miyasaka N. Tocilizumab-induced immune complex glomerulonephritis in a patient with rheumatoid arthritis. ***Rheumatol*** (in press)
10. ◎ Umezawa N, Kohsaka H, Nanki T, Watanabe K, Tanaka M, Shane PY, Miyasaka N. Successful treatment of Eosinophilic granulomatosis with polyangiitis (EGPA; formerly Churg-Strauss syndrome) with rituximab in a case refractory to glucocorticoids, cyclophosphamide, and IVIG. ***Modern Rheumatol*** (in press)
11. Fukuda S, Nanki T, Morio T, Hasegawa H, Koike R, Miyasaka N. Recurrent mitral valve regurgitation with neutrophil infiltration in a patient with multiple aseptic abscesses. Mod Rheumatol (in press)
12. Miyabe C**,** Miyabe Y, Miura NN, Takahashi K, Terashima Y, Toda E, Honda F,Morio T, Yamagata N, Ohno N, Shudo K, Suzuki J, Isobe M, Matsushima K, Tsuboi R, Miyasaka N, Nanki T. Am80, a retinoic acid receptor agonist, ameliorates murine vasculitis through the suppression of neutrophil migration and activation. Arthritis Rheum (in press)
13. Yamazaki H, Nanki T, Harigai M, Miyasaka N. Successful treatment of refractory Takayasu arteritis with tacrolimus. J Rheumatol 39: 1487, 2012.
14. ◎Suzuki F, Kubota T, Miyazaki Y, Ishikawa K, Ebisawa M, Hirohata S, Ogura T, Mizusawa H, Imai T, Miyasaka N, Nanki T. Serum level of soluble CX3CL1/fractalkine is elevated in patients with polymyositis and dermatomyositis, which is correlated with disease activity. Arthritis Res Ther 14: R48, 2012.
15. Komano Y, Yagi N, Onoue I, Kaneko K, Miyasaka N, Nanki T. Arthritic joint-targeting small interfering RNA-encapsulated liposome: Implication for treatment strategy for rheumatoid arthritis. J Pharmacol Exp Ther 340: 109, 2012.
16. Takeuchi T, Harigai M, Tanaka Y, Yamanaka H, Ishiguro N, Yamamoto K, Miyasaka N, Koike T, Kanazawa M, Oba T, Yoshinari T, Baker D; the GO-MONO study group. Golimumab monotherapy in Japanese patients with active rheumatoid arthritis despite prior treatment with disease-modifying antirheumatic drugs: results of the phase 2/3, multicentre, randomised, double-blind, placebo-controlled GO-MONO study through 24 weeks.Ann Rheum Dis. in press.
17. Harigai M, Takamura A, Atsumi T, Dohi M, Hirata S, Kameda H, Nagasawa H, Seto Y, Koike T, Miyasaka N. Elevation of KL-6 serum levels in clinical trials of tumor necrosis factor inhibitors in patients with rheumatoid arthritis: a report from the Japan College of Rheumatology Ad Hoc Committee for Safety of Biological DMARDs. Mod Rheumatol. in press.
18. Takamura A, Hirata S, Nagasawa H, Kameda H, Seto Y, Atsumi T, Dohi M, Koike T, Miyasaka N, Harigai M. A retrospective study of serum KL-6 levels during treatment with biological disease-modifying antirheumatic drugs in rheumatoid arthritis patients: a report from the Ad Hoc Committee for Safety of Biological DMARDs of the Japan College of Rheumatology.　Mod Rheumatol. in press.
19. Sakai R, Tanaka M, Nanki T, Watanabe K, Yamazaki H, Koike R, Nagasawa H, Amano K, Saito K, Tanaka Y, Ito S, Sumida T, Ihata A, Ishigatsubo Y, Atsumi T, Koike T, Nakajima A, Tamura N, Fujii T, Dobashi H, Tohma S, Sugihara T, Ueki Y, Hashiramoto A, Kawakami A, Hagino N, Miyasaka N, Harigai M; for the REAL Study Group.Drug retention rates and relevant risk factors for drug discontinuation due to adverse events in rheumatoid arthritis patients receiving anticytokine therapy with different target molecules. Ann Rheum Dis 71:1820-6, 2012
20. Sakai R, Komano Y, Tanaka M, Nanki T, Koike R, Nagasawa H, Amano K, Nakajima A, Atsumi T, Koike T, Ihata A, Ishigatsubo Y, Saito K, Tanaka Y, Ito S, Sumida T, Tohma S, Tamura N, Fujii T, Sugihara T, Kawakami A, Hagino N, Ueki Y, Hashiramoto A, Nagasaka K, Miyasaka N, Harigai M; Real Study Group. Time-dependent increased risk for serious infection from continuous use of tumor necrosis factor antagonists over three years in patients with rheumatoid arthritis. Arthritis Care Res 64:1125-34, 2012
21. Tanaka M, Sakai R, Koike R, Komano Y, Nanki T, Sakai F, Sugiyama H, Matsushima H, Kojima T, Ohta S, Ishibe Y, Sawabe T, Ota Y, Ohishi K, Miyazato H, Nonomura Y, Saito K, Tanaka Y, Nagasawa H, Takeuchi T, Nakajima A, Ohtsubo H, Onishi M, Goto Y, Dobashi H, Miyasaka N, Harigai M. Pneumocystis jirovecii pneumonia associated with etanercept treatment in patients with rheumatoid arthritis: a retrospective review of 15 cases and analysis of risk factors. Mod Rheumatol. in press.
22. Harigai M, Takeuchi T, Tanaka Y, Matsubara T, Yamanaka H, Miyasaka N. Discontinuation of adalimumab treatment in rheumatoid arthritis patients after achieving low disease activity. Mod Rheumatol. in press.
23. Kobayashi S, Harigai M, Mozaffarian N, Pangan AL, Sharma S, Brown LS, Miyasaka N. A multicenter, open-label, efficacy, pharmacokinetic, and safety study of adalimumab in Japanese patients with ankylosing spondylitis. Mod Rheumatol 22:589-97, 2012
24. Tanaka Y, Harigai M, Takeuchi T, Yamanaka H, Ishiguro N, Yamamoto K, Miyasaka N, Koike T, Kanazawa M, Oba T, Yoshinari T, Baker D; GO-FORTH Study Group. Golimumab in combination with methotrexate in Japanese patients with active rheumatoid arthritis: results of the GO-FORTH study. Ann Rheum Dis 71:817-24, 2012
25. Watanabe K, Sakai R, Koike R, Sakai F, Sugiyama H, Tanaka M, Komano Y, Akiyama Y, Mimura T, Kaneko M, Tokuda H, Iso T, Motegi M, Ikeda K, Nakajima H, Taki H, Kubota T, Kodama H, Sugii S, Kuroiwa T, Nawata Y, Shiozawa K, Ogata A, Sawada S, Matsukawa Y, Okazaki T, Mukai M, Iwahashi M, Saito K, Tanaka Y, Nanki T, Miyasaka N, Harigai M. Clinical characteristics and risk factors for Pneumocystis jirovecii pneumonia in patients with rheumatoid arthritis receiving adalimumab: a retrospective review and case – control study of 17 patients. Mod Rheumatol. in press.
26. Miyasaka N, Hara M, Koike T, Saito E, Yamada M, Tanaka Y; Additional Members of the GB-0998 Study Group. Effects of intravenous immunoglobulin therapy in Japanese patients with polymyositis and dermatomyositis resistant to corticosteroids: a randomized double-blind placebo-controlled trial. Mod. Rheumatol. 22:382-393, 2012
27. Takeuchi T, Miyasaka N, Tatsuki Y, Yano T, Yoshinari T, Abe T, Koike T. Inhibition of plasma IL-6 in addition to maintenance of an efficacious trough level of infliximab associated with clinical remission in patients with rheumatoid arthritis: analysis of the RISING Study. Ann. Rheum. Dis. 71:1583-5, 2012
28. Takeuchi T, Matsubara T, Nitobe T, Suematsu E, Ohta S, Honjo S, Abe T, Yamamoto A, Miyasaka N; The Japan Abatacept Study Group. Phase II dose-response study of abatacept in Japanese patients with active rheumatoid arthritis with an inadequate response to methotrexate. Mod. Rheumatol. 2012 Jun 9
29. Takeuchi T, Miyasaka N, Zang C, Alvarez D, Fletcher T, Wajdula J, Yuasa H, Vlahos B. A phase 3 rancomized, double-blind, multicenter comparative study evaluating the effect of etanercept versus methotrexate on radiographic outcomes, disease activity, and safety in Japanese subjects with active rheumatoid arthritis. Mod. Rheumatol. 2012 Sep 26.

Takeshi Muneta

◎Otabe K, Muneta T, Kawashima N, Suda H, Tsuji K, Sekiya I.

Comparison of Gingiva, Dental Pulp, and Periodontal Ligament Cells From the Standpoint of Mesenchymal Stem Cell Properties.

Cell Medicine 4:  13-21, 2012

Hatsushika D, Nimura A, Mochizuki T, Yamaguchi K, Muneta T, Akita K.

Attachments of separate small bundles of human posterior cruciate ligament: an anatomic study

Knee Surgery, Sports Traumatology, Arthroscopy (in press)

◎Nakamura T, Sekiya I, Muneta T, Hatsushika D, Horie M, Tsuji K, Kawarasaki T, Watanabe A, Hishikawa S, Fujimoto Y, Tanaka H, Kobayashi E.

Arthroscopic, histological and MRI analyses of cartilage repair after a minimally invasive method of transplantation of allogeneic synovial mesenchymal stromal cells into cartilage defects in pigs.

Cytotherapy. 14: 327-338, 2012.

Horie M, Driscoll MD, Sampson HW, Sekiya I, Caroom CT, Prockop DJ, Thomas DB.

Implantation of allogenic synovial stem cells promotes meniscal regeneration in a rabbit meniscal defect model.

J Bone Joint Surg Am. 18;94:701-12, 2012.Apr.

Horie M, Choi H, Lee RH, Reger RL, Ylostalo J, Muneta T, Sekiya I, Prockop DJ.

Intra-articular injection of human mesenchymal stem cells (MSCs) promote rat meniscal regeneration by being activated to express Indian hedgehog that enhances expression of type II collagen.

Osteoarthritis Cartilage. 20:1197-207, 2012.Oct.

Tsukada S, Hoshino A, Cho S, Ikeda H.

Intraoperative soft tissue tension and postoperative range of motion in posterior stabilized total knee arthroplasty.

Arch Orthop Trauma Surg. Published online; 2012 (in press)

Akiyama H, Hoshino A, Iida H, et al.

A pilot project for the Japan arthroplasty register.

J Orhop Sci. 17: 358-369, 2012.

Muneta T, Koga H, Ju YJ, Mochizuki T, Sekiya I.

[Hyaluronan injection therapy for athletic patients with patellar tendinopathy.](http://www.ncbi.nlm.nih.gov/pubmed/22526713)

J Orthop Sci. 17:425-31, 2012.

Muneta T, Koga H, Ju YJ, Horie M, Nakamura T, Sekiya I.

[Remnant volume of anterior cruciate ligament correlates preoperative patients' status and postoperative outcome.](http://www.ncbi.nlm.nih.gov/pubmed/22543472)

Knee Surg Sports Traumatol Arthrosc, 2012.

Mochizuki T, Nimura A, Tateishi T, Yamaguchi K, Muneta T, Akita K.

Anatomic study of the attachment of the medial patellofemoral ligament and its characteristic relationships to the vastus intermedius.

Knee Surg Sports Traumatol Arthrosc. (in press)

Hatsushika D, Nimura A, Mochizuki T, Yamaguchi K, Muneta T, Akita K.

Attachments of separate small bundles of human posterior cruciate ligament: an anatomic study.

Knee Surg Sports Traumatol Arthrosc. (in press)

Kato A, Nimura A, Yamaguchi K, Mochizuki T, Sugaya H, Akita K.

An anatomical study of the transverse part of the infraspinatus muscle that is closely related with the supraspinatus muscle.

Surg Radiol Anat. 34: 257-265, 2012.

Nimura A, Kato A, Yamaguchi K, Mochizuki T, Okawa A, Sugaya H, Akita K.

The superior capsule of the shoulder joint complements the insertion of the rotator cuff. J Shoulder Elbow Surg. 21: 867-872, 2012.

◎Sekiya I, Ojima M, Suzuki S, Yamaga M, Horie M, Koga H, Tsuji K, Miyaguchi K, Ogishima S, Tanaka H, Muneta T.

Human mesenchymal stem cells in synovial fluid increase in the knee with degenerated cartilage and osteoarthritis.

J Orthop Res. 30:943-9, 2012.

Yamauchi Y, Jinno T, Koga D, Asou Y, Morita S, Okawa A.

Comparison of Different Distal Designs of Femoral Components and Their Effects on Bone Remodeling in 1-Stage Bilateral Total Hip Arthroplasty.

J Arthroplasty:1538-43, 2012.Sep.27.

◎[Suzuki S](http://www.ncbi.nlm.nih.gov/pubmed?term=Suzuki%20S%5BAuthor%5D&cauthor=true&cauthor_uid=22676383), [Muneta T](http://www.ncbi.nlm.nih.gov/pubmed?term=Muneta%20T%5BAuthor%5D&cauthor=true&cauthor_uid=22676383), [Tsuji K](http://www.ncbi.nlm.nih.gov/pubmed?term=Tsuji%20K%5BAuthor%5D&cauthor=true&cauthor_uid=22676383), [Ichinose S](http://www.ncbi.nlm.nih.gov/pubmed?term=Ichinose%20S%5BAuthor%5D&cauthor=true&cauthor_uid=22676383), [Makino H](http://www.ncbi.nlm.nih.gov/pubmed?term=Makino%20H%5BAuthor%5D&cauthor=true&cauthor_uid=22676383), [Umezawa A](http://www.ncbi.nlm.nih.gov/pubmed?term=Umezawa%20A%5BAuthor%5D&cauthor=true&cauthor_uid=22676383), [Sekiya I](http://www.ncbi.nlm.nih.gov/pubmed?term=Sekiya%20I%5BAuthor%5D&cauthor=true&cauthor_uid=22676383).

[Properties and usefulness of aggregates of synovial mesenchymal stem cells as a source for cartilage regeneration.](http://www.ncbi.nlm.nih.gov/pubmed/22676383)

Arthritis Res Ther.;14:R136, 2012.

Koga H, Muneta T, Yagishita K, Ju YJ, Sekiya I.

Surgical management of grade 3 medial knee injuries combined with cruciate ligament injuries.

Knee Surg Sports Traumatol Arthrosc 20:88-94, 2012.

Koga H, Muneta T, Yagishita K, Ju YJ, Sekiya I.

The effect of graft fixation angles on anteroposterior and rotational knee laxity in double-bundle anterior cruciate ligament reconstruction: evaluation using computerized navigation.

Am J Sports Med 40:615-623, 2012.

Koga H, Muneta T, Yagishita K, Watanabe T, Mochizuki T, Horie M, Nakamura T, Okawa A, Sekiya I.

Arthroscopic Centralization of an Extruded Lateral Meniscus: a Technical Note. Arthroscopy Techniques (in press).

Koga H, Muneta T, Yagishita K, Ju YJ, Mochizuki T, Horie M, Nakamura T, Okawa A, Sekiya I.

Effect of Posterolateral Bundle Graft Fixation Angles on Graft Tension Curves and Load Sharing in Double-bundle Anterior Cruciate Ligament Reconstruction Using a Transtibial Drilling Technique.

Arthroscopy (in press).

◎Yamaga M, Tsuji K, Miyatake K, Yamada J, Abula K, Ju YJ, Sekiya I, Muneta T. Osteopontin level in synovial fluid is associated with the severity of joint pain and cartilage degradation after anterior cruciate ligament rupture.

PLoS ONE In Press.

◎Kokabu S, Gamer L, Cox K, Lowery J, Tsuji K, Raz R, Economides A, Katagiri T, Rosen V.

BMP3 suppresses osteoblast differentiation of bone marrow stromal cells via interaction with Acvr2b.

Mol Endocrinol 26, 87-94, 2012.

◎Futami I, Ishijima M, Kaneko H, Tsuji K, Ichikawa-Tomikawa, N., Sadatsuki R, Muneta T, Arikawa-Hirasawa, E, Sekiya I, Kaneko K.

Isolation and characterization of multipotential mesenchymal cells from the mouse synovium.

PLoS One 7, e45517, 2012.

Watanabe T, Ishizuki M, Muneta T, Banks SA.

Knee Kinematics in Anterior Cruciate Ligament-Substituting Arthroplasty With or Without the Posterior Cruciate Ligament.

J Arthroplasty. (in print)

Watanabe T, Ishizuki M, Muneta T, Banks SA.

Matched comparison of kinematics in knees with mild and severe varus deformity using fixed- and mobile-bearing total knee arthroplasty.

Clin Biomech. 27:924-8, 2012.

Johji Inazawa

1. Endo H, KozakiK, FurutaM, UzawaN, PimkhaokhamA, Amagasa T, Inazawa J. Potency of tumor-suppressive *miR-596* targeting *LGALS3BP* for epigenetic marker and therapeutic agent in oral cancer. Carcinogenesis (in press)
2. Takanashi J, Okamoto N, Yamamoto Y, Hayashi S, Arai H, Takahashi Y, Maruyama K, Mizuno S, Shimakawa S, Ono H, Oyanagi R, Kubo S, Barkovich AJ, Inazawa J: Clinical and radiological features of Japanese patients with a severe phenotype due to CASK mutations. Am J Med Genet A. 158A:3112-8. 2012
3. Gaffney CJ, Oka T, Mazack V, Hilman D, Gat U, Muramatsu T, Inazawa J, Golden A, Carey DJ, Farooq A, Tromp G, Sudol M: Identification, basic characterization and evolutionary analysis of differentially spliced mRNA isoforms of human YAP1 gene. Gene. 509:215-22. 2012
4. Dobashi Y, Kimura M, Matsubara H, Endo S, Inazawa J, Ooi A: Molecular alterations in AKT and its protein activation in human lung carcinomas. Hum Pathol. 43:2229-40. 2012
5. ◎Miyawaki Y, Kawachi H, Ooi A, Eishi Y, Kawano T, Inazawa J, Imoto I: Genomic copy-number alterations of MYC and FHIT genes are associated with survival in esophageal squamous-cell carcinoma. Cancer Sci. 103:1558-66. 2012
6. ◎Matsumura S, Imoto I, Kozaki K, Matsui T, Muramatsu T, Furuta M, Tanaka S, Sakamoto M, Arii S, Inazawa J: Integrative array-based approach identifies MZB1 as a frequently methylated putative tumor-suppressor in hepatocellular carcinoma. Clin Cancer Res. 18:3541-3551. 2012
7. ◎Honda S, Hayashi S, Nakane T, Imoto I, Kurosawa K, Mizuno S, Okamoto N, Kato M, Yoshihashi H, Kubota T, Nakagawa E, Goto Y, Inazawa J: The incidence of hypoplasia corpus callosum in patients with dup (X) (q28) involving MECP2 is associated with the location of distal breakpoints. Am J Med Genet A. 158A:1292-303. 2012
8. Akamatsu S, Takata R, Haiman CA, Takahashi A, Inoue T, Kubo M, Furihata M, Kamatani N, Inazawa J, Chen GK, Le Marchand L, Kolonel LN, Katoh T, Yamano Y, Yamakado M, Takahashi H, Yamada H, Egawa S, Fujioka T, Henderson BE, Habuchi T, Ogawa O, Nakamura Y, Nakagawa H: Common variants at 11q12, 10q26 and 3p11.2 are associated with prostate cancer susceptibility in Japanese. Nat Genet. 44:426-9. 2012
9. Yamamoto S, Tsuda H, Honda K, Takano M, Tamai S, Imoto I, Inazawa J, Yamada T, Matsubara O: ACTN4 gene amplification and actinin-4 protein overexpression drive tumour development and histological progression in a high-grade subset of ovarian clear-cell adenocarcinomas. Histopathology. 60:1073-1083. 2012
10. ◎Kozaki K, Inazawa J: Tumor-suppressive microRNAs silenced by tumor-specific DNA hypermethylation in cancer cells. Cancer Sci. 103:837-45. 2012
11. ◎Ono H, Imoto I, Kozaki K, Tsuda H, Matsui T, Kurasawa Y, Muramatsu T, Sugihara K, Inazawa J: SIX1 promotes epithelial-mesenchymal transition in colorectal cancer through ZEB1 activation. Oncogene. 31:4923-34. 2012
12. Maeda M, Mitsui J, Soong B, Takahashi Y, Ishiura H, Hayashi S, Shirota Y, Ichikawa Y, Matsumoto H, Arai M, Okamoto T, Miyama S, Shimizu J, Inazawa J, Goto J, Tsuji S: Increased gene dosage of myelin protein zero causes Charcot-Marie-Tooth disease. Ann Neurol. 71:84-92. 2012
13. ◎Okamoto N, Hayashi S, Masui A, Kosaki R, Oguri I, Hasegawa T, Imoto I, Makita Y, Hata A, Moriyama K, Inazawa J: Deletion at chromosome 10p11.23-p12.1 defines characteristic phenotypes with marked midfaceretrusion. J Hum Genet. 57:191-6. 2012
14. ◎Bai H, Inoue J, Kawano T, Inazawa J: A transcriptional variant of the LC3A gene is involved in autophagy and frequently inactivated in human cancers. Oncogene. 31:4397-408. 2012
15. Ooi A, Inokuchi M, Harada S, Inazawa J, Tajiri R, Sawada-Kitamura S, Ikeda H, Kawashima H, Dobashi Y: Gene amplification of ESR1 in breast cancers - Fact or fiction? A fluorescence in situ hybridization and multiplex ligation-dependent probe amplification study. J Pathol. 227:8-16. 2012
16. ◎Honda S, Satomura S, Hayashi S, Imoto I, Nakagawa E, Goto Y, Inazawa J: Concomitant microduplications of MECP2 and ATRX in male patients with severe mental retardation. J Hum Genet. 57:73-7.2012
17. ◎Kurasawa Y, Kozaki K, Pimkhaokham A, Muramatsu T, Ono H, Ishihara T, Uzawa N, Imoto I, Amagasa T, Inazawa J: Stabilization of phenotypic plasticity through mesenchymal-specific DNA hypermethylation in cancer cells. Oncogene. 31:1963-74. 2012

Yoshio Miki

1. Elgazzar, S., Zembutsu, H., Takahashi, A., Kubo, M., Aki, F., Hirata, K., Takatsuka, Y., Okazaki, M., Ohsumi, S., Yamakawa, T., Sasa, M., Katagiri, T., Miki, Y. and Nakamura, Y. A genome-wide association study identifies a genetic variant in the SIAH2 locus associated with hormonal receptor-positive breast cancer in Japanese. J Hum Genet, in press.

2. Iyevleva, A.G., Kuligina, E., Mitiushkina, N.V., Togo, A.V., Miki, Y. and Imyanitov, E.N. High level of miR-21, miR-10b, and miR-31 expression in bilateral vs. unilateral breast carcinomas. Breast Cancer Res Treat, 131, 1049-59, 2012.

3. Khanom, R., Sakamoto, K., Pal, S.K., Shimada, Y., Morita, K., Omura, K., Miki, Y. and Yamaguchi, A. Expression of basal cell keratin 15 and keratin 19 in oral squamous neoplasms represents diverse pathophysiologies. Histol Histopathol, 27, 949-59, 2012.

4. Sakamoto, K., Fujii, T., Kawachi, H., Miki, Y., Omura, K., Morita, K., Kayamori, K., Katsube, K. and Yamaguchi, A. Reduction of NOTCH1 expression pertains to maturation abnormalities of keratinocytes in squamous neoplasms. Lab Invest, 92, 688-702, 2012.

5. Satoh, Y., Sugai, S., Uehara, H., Mun, M., Sakao, Y., Okumura, S., Nakagawa, K., Ishikawa, Y., Miki, Y. and Miyata, S. Clinical Impact of Intraoperative Detection of Carcinoembryonic Antigen mRNA in Pleural Lavage Specimens from Nonsmall Cell Lung Cancer Patients. Thorac Cardiovasc Surg, 2012.

6. Suzuki, K., Dashzeveg, N., Lu, Z.G., Taira, N., Miki, Y. and Yoshida, K. Programmed cell death 6, a novel p53-responsive gene, targets to the nucleus in the apoptotic response to DNA damage. Cancer Sci, 103, 1788-94, 2012.

7. Taira, N., Mimoto, R., Kurata, M., Yamaguchi, T., Kitagawa, M., Miki, Y. and Yoshida, K. DYRK2 priming phosphorylation of c-Jun and c-Myc modulates cell cycle progression in human cancer cells. J Clin Invest, 122, 859-72, 2012

8. Wang, L., Tsutsumi, S., Kawaguchi, T., Nagasaki, K., Tatsuno, K., Yamamoto, S., Sang, F., Sonoda, K., Sugawara, M., Saiura, A., Hirono, S., Yamaue, H., Miki, Y., Isomura, M., Totoki, Y., Nagae, G., Isagawa, T., Ueda, H., Murayama-Hosokawa, S., Shibata, T., Sakamoto, H., Kanai, Y., Kaneda, A., Noda, T. and Aburatani, H. Whole-exome sequencing of human pancreatic cancers and characterization of genomic instability caused by MLH1 haploinsufficiency and complete deficiency. Genome Res, 22, 208-19, 2012.

Fumitoshi Ishino

Kohda, T., Kishigami, S., Kaneko-Ishino, T., Wakayama T. and Ishino F. Gene expression profile normalization in cloned mice by trichostatin A treatment. Cellular Reprogramming **14**, 45-55 (2012).

Kaneko-Ishino, T. and Ishino, F. The role of genes domesticated from LTR retrotransposons and retroviruses in mammals. Frontiers Microbiol **3**, Article 262 (2012).

Ishino, F., Shinkai, Y. and Whitelaw, E. [Mammalian epigenetics in biology and medicine.](http://www.ncbi.nlm.nih.gov/pubmed/23166404) *In* Mammalian Epigenetics in Biology and Medicine (eds. Ishino, F., Shinkai, Y. and Whitelaw, E.), Royal Society Publishing, Phillos Trans R Soc Lond B Biol Sci, 368:20120386 (2012).

Kohda, T. and Ishino, F. Embryo manipulation via assisted reproductive technology and epigenetic asymmetry in mammalian early development. *In* Mammalian Epigenetics in Biology and Medicine (eds. Ishino, F., Shinkai, Y. and Whitelaw, E.), Royal Society Publishing, Phillos Trans R Soc Lond B Biol Sci, 368:20120353 (2012).

Yoshihiro Ogawa

Y. Watanabe, T. Nakamura, S. Ishikawa, S.Fujisaka, I.Usui, K.Tsuneyama, Y. Ichihara, T. Wada, Y. Hirata, T.Suganami, H.Izaki, S. Akira, K. Miyake, H.Kanayama, M.Shimabukuro, M.Sata, T.Sasaoka, Y. Ogawa, K.Tobe, K. Takatsu, and Y. Nagai. The Radioprotective 105/MD-1 complex contributes to diet-induced obesity and adipose tissue inflammation. **Diabetes**61:1199-1209, 2012.

◎T.Ehara, Y. Kamei, M. Takahashi, Y.Xunmei, S. Kanai, E. Tamura, M. Tanaka, T. Yamazaki, O. Ezaki, T.Suganami, M. Okano, and Y. Ogawa. Role of DNA methylation in the regulation oflipogenic gene expression in the neonatal mouse liver. **Diabetes**61:2442-2450, 2012.

N. Satoh-Asahara, A.Shimatsu, Y. Sasaki, H.Nakaoka,A.Himeno, M.Tochiya, S.Kono, T. Takaya, H. Wada, T.Suganami, K. Hasegawa, and Y. Ogawa. Highly purified eicosapentaenoicacid increases interleukin-10 levels of peripheral blood monocytes in obese patients with dyslipidemia. **Diabetes Care** 35: 2631-2639, 2012.

S. Yogosawa, S. Mizutani, Y. Ogawa, and T. Izumi. Activinreceptor-like kinase 7 suppresses lipolysis to accumulate fat in obesity through downregulation of peroxisome proliferator-activated receptor  and C/EBP. **Diabetes**In press.

F.Maekawa, S.Shimba, S. Takumi, T. Sano, T. Suzuki, J.Bao, M.Ohwada, T.Ehara, Y. Ogawa, and K. Nohara. Diurnal expression of *Dnmt3b* mRNA in mouse liver is regulated by feeding andhepatic clockwork. **Epigenetics** 7: 1046-1056, 2012.

Noboru Mizushima

1. Itakura, E., Kishi-Itakura, C., Mizushima, N. The hairpin-type tail-anchored SNARE syntaxin 17 targets to autophagosomes for fusion with endosomes/lysosomes. ***Cell*** in press
2. Lin, T.C., Chen, Y.R., Kensicki, E., Li, A.Y., Kong, M., Li, Y., Mohney, R.P., Shen, H.M., Stiles, B., Mizushima, N., Lin, L.I., Ann, D.K. Autophagy: Resetting glutamine-dependent metabolism and oxygen consumption. ***Autophagy*** 8: 1477-93 (2012)
3. Kitamura, K., Kishi-Itakura, C., Tsuboi, T., Sato, S., Kita, K., Ohta, N., Mizushima, N. Autophagy-Related Atg8 Localizes to the Apicoplast of the Human Malaria Parasite Plasmodium falciparum. ***PLoS One*** 7:e42977 (2012)
4. Liu, S., Hartleben, B., Kretz, O., Wiech, T., Igarashi, P., Mizushima, N., Walz, G., Huber, T.B. Autophagy plays a critical role in kidney tubule maintenance, aging and ischemia-reperfusion injury. ***Autophagy*** 8: 826-837 (2012).
5. Itakura, E., Kishi-Itakura, C., Koyama-Honda, I., Mizushima, N. Structures containing Atg9A and the ULK1 complex independently target depolarized mitochondria at initial stages of Parkin-mediated mitophagy. ***J. Cell Sci.*** 125: 1488-1499 (2012).
6. Velikkakath, A.K.G, Nishimura, T., Oita, E., Ishihara, O., Mizushima, N. Mammalian Atg2 proteins are essential for autophagosome formation and important for regulation of size and distribution of lipid droplets. ***Mol. Biol. Cell*** 23: 896-909 (2012).

Ichiro Nakagawa

1. Minegishi K, Aikawa C, Furukawa A, Watanabe T, Nakano T, Ogura Y, OhtuboY,Kurokawa K, Hayashi T, Maruyama F, Nakagawa I, Eishi Y. Complete Genome Sequence of Propionibacterium acnes Isolate from sarcoidosis patient." J Bacteriol.(2013) in press.
2. Jorquera M, Saavedra N, Maruyama F, Richardson A, Crowley D, Catrilaf R, Henriquez E, Mora M. Phytate addition to soil induces changes in the abundance and expression of Bacillus ß–propeller phytase genes in the rhizosphere. FEMS Microbiol. Ecol.(2013) In press
3. Ogawa M, Sugita S, Shimizu N, Watanabe K, Nakagawa I, Mochizuki M. Broad-range real-time PCR assay for detection of bacterial DNA in ocular smaples from infectious endophatalmitis. Jpn J Ophthalmol. 2012 Aug 31. In Press.
4. Nozawa T, Aikawa C, Goda A, Maruyama F, Hamada S, Nakagawa I. The small GTPases Rab9A and Rab23 function at distinct steps in autophagy during Group A Streptococcus infection. Cell. Microbiol. 14: 1149-1165. (2012)
5. Aikawa C,, Furukawa N, Watanabe T, Minegishi K, Furukawa A, Eishi Y, Oshima K, Kurokawa K, Hattori M, Nakano K, Maruyama F, Nakagawa I, Ooshima T. Complete Genome Sequence of the serotype *kStreptococcus mutans* LJ23. J Bacteriol. 194:2754. (2012)
6. Okada K, Roobthaisong A, Nakagawa I, Hamada S, Chantaroj S. Genotypic and PFGE/MLVA analyses of Vibrio cholerae O1: geographical spread and temporal changes during the 2007-2010 cholera outbreaks in Thailand. PLoS One. 7:e30863. (2012)
7. Aoki A, Shibata Y, Okano S, Maruyama F, Amano A, Nakagawa I, Abiko Y. Transition metal ions induce carnosinase activity in PepD-homologous protein from *Porphyromonasgingivalis.* MicrobPathog. 52:17-24. (2012)

Kazunari Akiyoshi

1. A. Shimoda, Y. Yamamoto, S. Sawada, K. Akiyoshi, Biodegradable Nanogel-integrated Hydrogels for Sustained Protein Delivery, *Macromol. Research,* 20, 266-270 (2012)
2. Y.Sasaki, K. Akiyoshi, Self-assembled Nanogel Engineering for Advanced Biomedical Technology, *Chem. Lett.* 41, 202-208 (2012)
3. Y. Sekine, K. Abe, A. Shimizu, Y. Sasaki, S. Sawada, K. Akiyoshi, Shear flow-induced nanotubulation of surface-immobilized liposomes, *RSC Advances*, 2, 2682-2684 (2012)
4. G. Kashiwazaki, T. Bando, T. Yoshidome, S. Masui, T. Takagaki, K. Hashiya, G. Pandian, J. Yasuoka, K. Akiyoshi, H. Sugiyama, Synthesis and Biological Properties of Highly Sequence-Specific Alkylating N-Methylpyrrole-N-Methylimidazole (PI) Polyamide Conjugates, *J. Medicinal Chemistry*, 55, 2057-2066 (2012).
5. T. Nakai, T. Hirakura, Y. Sakurai, T. Shimoboji, M. Ishigai, K. Akiyoshi, Injectable Hydrogel for Sustained Protein Release by Salt-Induced Association of Hyaluronic Acid Nanogel, *Macromol. Bioscience*, 12, 475-483(2012)
6. Y. Kishia, T. Higuchia, S. Phoon, Y. Sakamakia, K. Kamiya, G. Riemekasten, K. Akiyoshi, M. Weigert, T. Tsubata, Apoptotic marginal zone deletion of anti-Sm/ribonucleoprotein B cells, *Proc. Natl. Acad. Sci. USA*, 109, 7811-7816 (2012)
7. A. Shimoda, S. Sawadad, A. Kano, A. Maruyama, A. Moquin, F. M. Winnik, K. Akiyoshi, Dual crosslinked hydrogel nanoparticles by nanogel bottom-up method for sustained-release delivery, *Colloids and Surfaces B: Biointerfaces*, 99, 38-44 (2012)
8. T. Miyahara, M. Nyan, A. Shimoda, Y. Yamamoto, S. Kuroda, M. Shiota, K. Akiyoshi, S. Kasugai, Exploitation of a novel polysaccharide　nanogel cross-linking membrane for guided bone regeneration (GBR), *J. Tissue Engineering and Regererative Medicine*, 6, 666-672 (2012)
9. M. Fujioka-Kobayashi, M. S. Ota, A. Shimoda, K. Nakahama, K. Akiyoshi, Y. Miyamoto, S. Iseki, Cholesteryl group- and acryloyl group-bearing pullulan nanogel to deliver BMP2 and FGF18 for bone tissue engineering, *Biomaterials*, 33, 7613-7620 (2012)
10. Y. Sasaki, K. Akiyoshi, Nanogel Engineering by associating polymers for biomedical applications, Hydrogel Micro and Nanoparticles, First Edition. Edited by L. Andrew Lyon and Michael Joseph Serpe. Wiley-VCH, 187-207 (2012).
11. M. Takeo, T. Mori, T. Niidome, S. Sawada, K. Akiyoshi, Y. Katayama, A polyion complex nanogel, *J. Collod. Interf. Sci.*, 390, 78-84 (2013)

Masatoshi Hagiwara

1. Ohno G, Ono K, Togo M, Watanabe Y, Ono S, Hagiwara M, Kuroyanagi H

(2012) Muscle-specific splicing factors ASD-2 and SUP-12 cooperatively

switch alternative pre-mRNA processing patterns of the ADF/cofilin

gene in

C. elegans. PloSGenet 8 e1002991.

2. Saitoh N, Sakamoto C, Hagiwara M, Agredano-Moreno LT,

 Jimenez-Garcia LF, Nakao M. (2012) The distribution of phosphorylated

 SR proteins and alternative splicing are regulated by RANBP2. Mol Biol Cell.

 23:1115-28.

3. Kusano-Kitazume A, Sakamoto N, Okuno Y, Sekine-Osajima Y, Nakagawa

 M, Kakinuma S, Kiyohashi K, Nitta S, Murakawa M, Azuma S,

 Nishimura-Sakurai Y, Hagiwara M, Watanabe M. (2012) Identification of

 Novel

 N-(morpholine-4-carbonyloxy) amidine compounds as potent inhibitors

 against hepatitis C virus replication.　Antimicrob Agents Chemother,

 56:1315-23.