Hiroshima University Graduate School of Biomedical and Health Sciences (Dentistry), and Hiroshima University Hospital (Dental Departments)

Research Achievements 2021

2021

Central Research Laboratory
Graduate School of Biomedical and Health Sciences (Dentistry)
Center for Cause of Death Investigation Research

Calciprotein particles play a role in bone formation and vascular calcification:

2021

2021

Terayama R, Uchibe K, Effects of microglial inhibition on neuropathic pain, The 63rd Annual Meeting of Japanese Association for Oral Biology (Yokosuka), 2021.

Adenosine A_3 receptor activation attenuates abnormal pain sensations after peripheral nerve injury

Grant-in Aid-for Scientific Research (C): Ryuji Terayama, 19K10042, ¥1,430,000

Department of Physiology and Oral Physiology

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The anticancer drug irinotecan-induced changes in attractive salt taste responses :
: 2021 NIPS Research Meeting (online), 2021.

Sakayori N., Naito M., Kawaguchi H., Sugita M. : The 105th Meeting of Hiroshima University Dental Society (Hiroshima), 2021.

Maternal dietary imbalance in polyunsaturated fatty acids induces hedonic feeding in the offspring

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Grant-in-Aid for Scientific Research (C): Sugita M., Genetic tracing to reveal the whole brain mapping of taste information processing. 21K09828. ¥1,000,000.
Grant-in-Aid for Scientific Research (B):
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Lotte Research Promotion Grant:
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Sakayori N.:

Department of

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Loss of tenomodulin expression is a risk factor for age-realated intervertebral disc degeneration. Lin D, Alberton P, Delgado Caceres M, Prein C, Clausen-Schaumann H, Dong J, Aszodi A, Shukunami C, Iatridis JC, Docheva D.

Long Guo, Aritoshi Iida, Gandham SriLakshmi Bhavani, Kalpana Gowrishankar, Zheng Wang, Jing-yi Xue, Juan Wang, Noriko Miyake, Naomichi Matsumoto, Takanori Hasegawa, Yusuke Iizuka, Masashi Matsuda, Tomoki Nakashima, Masaki Takechi, Sachiko Iseki, Shinsei Yambe, Gen Nishimura, Haruhiko Koseki, Chisa Shukunami, Katta M. Girisha & Shiro Ikegawa.: **Nat Commun**, 12: 2046, 2021.

BHLHE41/DEC2 Expression Induces Autophagic Cell Death in Lung Cancer Cells and Is Associated with Favorable Prognosis for Patients with Lung Adenocarcinoma.:

Int. J. Mol. Sci., 22(21): 11509, 2021.

Masami Kanawa, Akira Igarashi, Katsumi Fujimoto , Tania Saskianti, Ayumu Nakashima, Yukihito Higashi, Hidemi Kurihara, Yukio Kato, Takeshi Kawamoto.: **Curr. Issues Mol. Biol.**, 43(3): 2157-2166, 2021.

Sci. Rep., 11: 19240, 2021.

Establishment of *TnmdCre* knock-in mice and lineage tracing of *Tnmd* positive cells　Shinsei Yambe, Yuki Yoshimoto, Shinnosuke Higuchi, Shigeru Miyaki, Chisa Shukuhami　The 39th Annual Meeting of the Japanese Society for Bone and Mineral Research, 2021.

A mouse model of cleidocranial dysplasia: abnormal tooth root morphogenesis in Runx2 missense mutant mice　Higuchi Shinnosuke, Yoshimoto Yuki, Yambe Shinsei, Komori Toshihisa, Shukunami Chisa　The 39th Annual Meeting of the Japanese Society for Bone and Mineral Research, 2021.

The 39th Annual Meeting of the Japanese Society for Bone and Mineral Research, 2021.

: Research-Aid Report, The 39th Annual Meeting of the Japanese Society for Bone and Mineral Research, 2021.

TMEM53 regulates craniofacial morphogenesis in human and mouse　Long Guo, Tomoki Nakashima, Masaki Takechi, Sachiko Iseki, Chisa Shukunami, Shiro Ikegawa

Contribution of *Scx (en-*

2021

Academic Award of The Japanese Society for Bone and Mineral Research.

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1. Workshop 9/Salivary gland cytology- Application and explanation of Milan system-
WS9-2 Salivary gland tumors in the oral region: Sakamoto S, Ando T, Ogawa I, Miyauchi M: The 62nd Annual Spring Meeting of the Japanese Society of Clinical Cytology (Chiba), 2021.

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1. A case of osteochondroma of the unilateral mandibular condyle with severe occlusal deviation : Nakagawa T, Ono S, Fukui A, Sasaki K, Sakamoto S, Ando T, Miyauchi M, Takechi M: The 75th Annual Meeting of Japanese Stomatological Society (Osaka), 2021.

2. Maxillary tumor (Clear cell carcinoma): Ando T, Sakamoto S, Higaki M, Okamoto K, Yoshioka Y, Toratani S, Nakamoto T, Okamoto K, Matsuura H, Kaneko M, Ogawa I, Miyauchi M: The 135th Academic Meeting of Chugoku-Shikoku Branch of the Japanse Society of Pathology (Kagawa, Web), 2021.

3. Palatal tumor (Polymorphous adenocarcinoma): Furusho H, Sakamoto S, Ando T, Ono S, Mizuta K, Ishida Y, Uetsuki R, Nagasaki S, Takechi M, Miyauchi M: The 136th Academic Meeting of Chugoku-Shikoku Branch of the Japanse Society of Pathology (Kagawa, Web), 2021.

4. Maxillary tumor (Odontogenic fibroma, amyloid variant): Sakamoto S, Ando T, Ito N, Kanda T, Suei Y, Toratani S, Miyauchi M: The 32nd Annual Meeting of the Japanese Society for Oral Pathology (Kanagawa, Web), 2021.

5. A case of non-sebaceous lymphadenoma-like mucoepidermoid carcinoma: Sakamoto S, Ando T, Miyauchi M, Fujihara M, Nakaguro M, Nagao T, Ogawa I: The 65th Annual Meeting of Japan Salivary Gland Society (Tokyo), 2021.

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Department of Cellular and Molecular Pharmacology

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Department of Biomaterials

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Manufacturing by genetic engineering: Koichi Kato, 78th Autum Meeting of

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Treatment of malocclusion in the community– Timing to start orthodontic treatment of open bite and determination of the difficulty – Tanimoto K.: J. Hiroshima Dent. Asso. 47, 1-6, 2021.

Foreword Tanimoto K.: J. Jpn Soc T.M.J. 33(1): 1 2021.
Importance of anatomy Tanimoto K.: Hiroshima University Shiragiku, 49, 29-30, 2021.

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) Automated segmentation of temporomandibular joint disc in MRI images using deep learning.：Ito S., Yoshimi Y., Mine Y., Takeda S., Onishi A., Kakimoto N., Murayama T., Tanimoto K.:

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) Changes in hyoid bone position in skeletal Class II children post-functional appliance therapy　Iwai K., Cynthia CM., Kunimatsu R., Miura S., Ishida E., Tanimoto K.　The 20th Annual Meeting of the Japanese Academy of Dental Sleep Medicine (Fukuoka)

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Grant-in-Aid for Early-Career Scientists　Yamada S.,

Grant-in-Aid for Early-Career Scientists

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Department of Molecular Oral Medicine & Maxillofacial Surgery
Division of Oral & Maxillofacial Surgery and Oral Medicine
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13. A case of giant cell tumor in the mandibular condyle : Ito N., Koizumi K., Obayashi F., Sakamoto S., Ando T., Toratani S.: The 66th Congress of the Japanese Society of Oral and Maxillofacial Surgeons (Makuhari Hybrid meeting) , Nov 12-14, 2021.
14.
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16. Comparative study before and after the use of Epicil oral liquid in patient s with hematological malignancies: Fukutani T., Yoshioka Y., Sakurai S., Fujita Y., Myoken Y., Toratani S.: The 66th Congress of the Japanese Oral and Maxillofacial Surgeons (akuhari Hybrid meeting), Nov 12-14, 2021.
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4. Lifestyle-related diseases
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(4) Status of Receiving Grants-in Aid for Scientific Research, etc.

1. 18K09723. 1,344,000yen.
2. 1,200,000yen.
3. : #19K10332.
4.
5. Taku Kanda: #20K10117. 1,000,000 yen
6.
7. : Suguru Hirota: #19K19197
8. : Atsuko Hamada: #19K19198.
9. #19K19233.
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12. Sakurai 1,000,000 yen.
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9. A case of multidisciplinary intervention in a mandibular fracture patient due to DV.: Naruse T, Mizuta K, Ishida Y, Ono S, Takechi M: The 22th Annual Meeting of Japanese Society of Oral and Maxillofacial Trauma (2021.8.2~8.15 Web)
10. Clinical study of various factors affecting the implant stability quotient value: Ishioka Y, Ninomiya Y, Takechi M, Kitagawa M.: The 14th Annual Meeting of Japanese Society for Evidence and the dental professional (2021.8.21~8.22 Hiroshima Web)
11. Analysis of apoptosis-inducing effect of sunitinib, a tyrosine kinase activity inhibitor on oral mucosal epithelial cells.: Fukada S, Ohta K, Kato H, Sakuma M, Murodumi H, Naruse T, Nakagawa T, Shigeishi H, Takechi M.: The 34th Annual Meeting of the Japanese Society of Oral Diagnosis/Oral

Medicine and the 31st Annual Meeting of the Japanese Society of Oral Medicine (2021.9.9~9.10 Tokyo Web)

12. Evaluation of Anti-tumor effect of MK-0429, an integrin avb3 inhibitor, by inhibiting angiogenesis.: Nakagawa T, Ohta K, Naruse T, Narisawa S, Sakuma M, Yamakado N, Okuda S, Mizuta K, Ninomiya Y, Takechi M.: The 80th Annual Meeting of the Japanese Cancer Associasion (2021.9.30~10.3 Yokohama)
13. Palatal tumor (Polymorphous adenocarcinoma).: Furusho T, Sakamoto M, Ando T, Ono S, Mizuta K, Ishida Y, Uetsuki R, Nagasaki S, Takechi M, Miyauchi M.: The Annual Meeting of the Japanese Society of Pathology (The 136th Slide conference) (2021.10.23 Kagawa Web)
14. A case of Trousseau syndrome during Paclitaxel + Cetuximab combination therapy for lung metastasis of tongue cancer.: Kato H, Mizuta K, Sasaki K, Uetsuki R, Ono S, Ohta K, Takechi M.: The 66th Congress of the Japanese Society of Orla and Maxillofacial Surgeons (2021.11.12~11.14 Chiba Web)
15. A case of congenital hemophilia A discovered due to poor hemostasis of a tongue bite.: Niwata C, Hasegawa D, Hosoi K, Tabayashi M, Otsuru H, Takechi M, Besho O.: The 66th Congress of the Japanese Society of Orla and Maxillofacial Surgeons (2021.11.12~11.14 Chiba Web)
16. Establishment of immortalized minor salivary gland-derived epithelial cells and expression of leukocyte migration factor.: Naruse T, Ohta K, Sakuma M, Fukada S, Kato H, Ishiada Y, Fukui A, Shigeishi H, Takechi M.: The 66th Congress of the Japanese Society of Orla and Maxillofacial Surgeons (2021.11.12~12.14 Chiba Web)
17. Analysis of apoptosis-inducing effect of sunitinib on oral mucosal epithelial cells.: Fukada S, Ohta K, Kato H, Sakuma M, Murodumi H, Naruse T, Nakagawa T, Shigeishi H, Takechi M.: The 66th Congress of the Japanese Society of Orla and Maxillofacial Surgeons (2021.11.12~11.14 Tokyo Web)
18. A Case of Mandibular Reconstruction using Implant Supported Maxillofacial Prostheses for Wide Edentulous Area after Resection of Odontogenic myxoma.: Fukui A, Tada M, Ninomiya Y, Ono S, Nakagawa T, Okuda S, Fukada S, Ishida F, Takechi M.: The 25th Annual Meeting of the Japanese Academy of MaxilloFacial Implants (2021.11.12~12.14 Nagoya Web)
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7. Grant-in-Aid for Scientific Resea

   Ono S, Takechi M, Tobiume K. Subject number: 20K10139
8. Grant-in-Aid for Scientific Research (Basic Resea

   H., Ono S. Subject number: 20K10138
9. Grant-in- sis of
   novel candida cell wall component recognition receptors in the oral mucosa and their significance in

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), Generalized periodontitis treated with periodontal, orthodontic, and prosthodontic therapy: A case report Kaku M., Matsuda S., Kubo T., Shimoe S., Tsuga K., Kurihara H., Tanimoto K.: World J Clin Cases., 9(21):6110-6124, 2021. doi: 10.12998/wjccv9.i21.6110.
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) Automated segmentation of temporomandibular joint disc in MRI images using deep learning.：Ito S., Yoshimi Y., Mine Y., Takeda S., Onishi A., Kakimoto N., Murayama T., Tanimoto K.:

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)1 Changes in hyoid bone position in skeletal Class II children post-functional appliance therapy　Iwai K., Cynthia CM., Kunimatsu R., Miura S., Ishida E., Tanimoto K.　The 20th Annual Meeting of the Japanese Academy of Dental Sleep Medicine（Fukuoka)

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COVID-19 crisis and future dental education　Tanimoto K.: 2021 The supporter's association of Hiroshima University School of Dentistry, May 19, 2021.

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Tsuka Y.,

Grant-in-Aid for Early-Career Scientists

Grant-in-Aid for Early-Career Scientists　Yanoshita M.

Grant-in-Aid for Early-Career Scientists　Yamada S.,

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). Grant-in-Aid for Early-Career Scientists Yamamoto T., Comparison of the root resorption restraint effect and elucidation of the mechanism of NSAIDs and acetaminophen 21K17184 2,210,000 yen
) Grant-in-Aid for Early-Career Scientists

)0 Grant-in-Aid for Early-Career Scientists Izumino J., Searching for periodontal metabolic activity by natural product chemical biology and application to root resorption prevention treatment 21K17185 2,340,000 yen
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2021

Pongsapak Wongratwanich

Improvement of treatment results in the radiotherapy for oral cancers
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Department of Biological Endodontics
Division of Preventive and Restorative Dentistry (Department of Endodontics and Operative Dentistry)

(1) Staff and Students

Professor: Hideki Shiba

Lecturer: Katsuhiro Takeda

Assistant Professor: Shizu Hirata-Tsuchiya, Noriko Saito, Keiichi Akutagawa (-August), Kazuma Yoshida, Jun Nakanishi, Daisuke Furutama

Graduate Student: Sat

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Department of Pediatric Dentistry

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Difficult intubation and postoperative aspiration pneumonia associated with Moebius syndrome: case report: The Anesthesiology annual meeting, San Diego, U.S.A., 2021.

: Oue K, Yamawaki, Y, Kanematsu T: The 63rd Annual Meeting of Japanese Association for Oral Biology (Yokohama), 2021.

2021

Department of Public Oral Health

Original Papers (including Case Reports)

1: Detection of HPV16 E6 DNA in periodontal pockets of middle-aged and older people: Shigeishi H, Murodumi H, Ohta K, Sugiyama M. Oral Science International. 18(1), 50-55, 2021.
2: Association of oral Epstein-Barr virus with periodontal health in Japanese adults: Su CY, Shigeishi H, Murodumi H, Sugiyama M, Ohta K, Takemoto T. Experimental and Therapeutic Medicine. 22(1):767, 2021
3: The association of oral HPV16 infection with periodontal inflammation and the oral microbiome in older Japanese women: Shigeishi H, Su CY, Kaneyasu Y, Matsumura M, Nakamura M, Ishikawa M, Saito A, Ohta K, Sugiyama M. Experimental and Therapeutic Medicine. 21(2): 167, 2021.
4: Effects of perioperative oral care on postoperative inflammation following heart valve surgery: Nishi H, Takahashi S, Ohta K, Takamoto M, Shigeishi H, Go S, Obayashi T, Yoshioka Y, Konishi M, Shimizu Y, Yano K, Kakimoto N, Ohge H, Kawaguchi H, Kurihara H. Oral Diseases. 27(6), 1542-1550, 2021
5: The Associations of Periodontopathic Bacteria and Oral Candida with Periodontal Inflamed Surface Area in Older Adults Receiving Supportive Periodontal Therapy: Shigeishi H, Nakamura M, Oka I, Su CY, Yano K, Ishikawa M, Kaneyasu Y, Sugiyama M, Ohta K. Diagnostics. 11, 1397, 2021.
6: TGF- -to-mesenchymal transition of $CD44^{high}$ oral squamous cell carcinoma cells via miR-422a downregulation through ERK activation and Cofilin-1 phosphorylation: Yokoyama S, Shigeishi H, Murodumi H, Sakuma M, Kato H, Higashikawa K, Ohta K, Sugiyama M, Takechi M. Journal of Oral Pathology & Medicine. 50(2):155-164, 2021.
7: Relationship between oral and physical function and length of participation in long-term care prevention programs in community-dwelling older Japanese women: Miyoshi S, Saito A, Shigeishi H, Ohta K, Sugiyama M. European Geriatric Medicine. 12(2):387-395, 2021.
8: In vitro investigation of the cell compatibility and antibacterial properties of titanium treated with calcium and ozone: Takechi M, Takamoto M, Ninomiya Y, Ono S, Mizuta K, Nakagawa T, Shigeishi H, Ohta K, Ishikawa K, Tsuru K. Dental Materials Journal. 40(3):712-718, 2021.
9: Age-related changes in oral tactile and thermal sensation throughout adulthood: Nishimura R, Yoshida M, Shigeishi H, Fukada-Sambuichi E, Yamashita-Urabe K, Takechi M, Toratani S, Tsuga K, Sugiyama M. Odontology. 109(3):710-718, 2021.
10: The squamous cell carcinoma cell line OM-1 retains both p75-dependent stratified epithelial progenitor potential and cancer stem cell properties: Uetsuki R, Higashikawa K, Okuda S, Yamakado N, Ishida F, Rizqiawan A, Ono S, Takechi M, Mizuta K, Shigeishi H, Kamata N, Tobiume K. Biochemistry and Biophysics Reports. 26:101003, 2021.

11: Changes in Physical and Oral Function after a Long-Term Care Prevention Program in Community-Dwelling Japanese Older Adults: A 12-Month Follow-Up Study: Iwao-Kawamura Y, Shigeishi H, Uchida S, Kawano S, Maehara T, Sugiyama M, Ohta K. Healthcare. 9(6), 719, 2021.

12: Effects of miR-224-5p-enhanced downregulation of PANX1 on docetaxel-induced apoptosis in amoeboid-like CD44^{high} oral cancer cells: Yokoyama S, Shigeishi H, Murodumi H, Sakuma M, Ono S, Tobiume K, Sugiyama M, Ohta K, Takechi M. European Journal of Oral Sciences. 129(5), e12812, 2021.

13: Anti-inflammatory effect of glycyrrhizin with Equisetum arvense extract : Shiba F, Miyauchi M, Chea C, Furusho H, Iwasaki S, Shimizu R, Ohta K, Nishihara T, Takata T. Odontology. 109(2), 464-473, 2021.

14: Relationship between dietary diversity and oral function among older women aged 75 years and over participating in community-based health exercise programs**.** Miyoshi S, Saito A, Shigeishi H, Ohta K, Sugiyama M. The Journal of Japan Society for Dental Hygiene 15(2): 62-69, 2021.

15: Two cases of maxillary sinusitis after maxillary sinus floor elevation.: Ninomiya Y, Ohta K, Ono S, Tada M, Nakagawa T, Ishida F, Okuda S, Takechi M. Japanese Journal of Maxillo Facial Implants 20(1): 37-43 2021.

16: A case of mediastinal swelling after dental carbon dioxide laser irradiation.: Ishida Y, Ono S, Sakuma M, Ohta K, Takechi M. The Journal of Hiroshima University Dental Society 53(1): 38-44 2021.

2 Association between HPV16 DNA and periodontopathic bacteria. Hideo Shigeishi, Mariko Nakamura, Yoshino Kaneyasu, Masaru Sugiyama, Kouji Ohta The 70th General meeting of Japanese Society for Oral Health (web), 2021.

3 Association between oral Epstein-Barr virus infection and periodontitis. Hideo Shigeishi, Yoshino Kaneyasu, Masaru Sugiyama, Kouji Ohta The 32nd annual local meeting of Kinki-Chugoku-Shikoku Branch, Japanese Society for Oral Health (paper), 2021.

Analysis of apoptosis-inducing effect of sunitinib, a tyrosine kinase activity inhibitor on oral mucosal epithelial cells.: Fukada S, Ohta K, Kato H, Sakuma M, Murodumi H, Naruse T, Nakagawa T,

Shigeishi H, Takechi M.: The 34th Annual Meeting of the Japanese Society of Oral Diagnosis/Oral Medicine and the 31st Annual Meeting of the Japanese Society of Oral Medicine (2021.9.9~9.10 Tokyo Web)

9: Evaluation of Anti-tumor effect of MK-0429, an integrin avb3 inhibitor, by inhibiting angiogenesis.: Nakagawa T, Ohta K, Naruse T, Narisawa S, Sakuma M, Yamakado N, Okuda S, Mizuta K, Ninomiya Y, Takechi M.: The 80th Annual Meeting of the Japanese Cancer Association (2021.9.30~10.3 Yokohama)

10: A case of Trousseau syndrome during Paclitaxel + Cetuximab combination therapy for lung metastasis of tongue cancer.: Kato H, Mizuta K, Sasaki K, Uetsuki R, Ono S, Ohta K, Takechi M.: The 66th Congress of the Japanese Society of Orla and Maxillofacial Surgeons (2021.11.12~11.14 Chiba Web)

11: Establishment of immortalized minor salivary gland-derived epithelial cells and expression of leukocyte migration factor.: Naruse T, Ohta K, Sakuma M, Fukada S, Kato H, Ishiada Y, Fukui A, Shigeishi H, Takechi M.: The 66th Congress of the Japanese Society of Orla and Maxillofacial Surgeons (2021.11.12~12.14 Chiba Web)

12: Analysis of apoptosis-inducing effect of sunitinib on oral mucosal epithelial cells.: Fukada S, Ohta K, Kato H, Sakuma M, Murodumi H, Naruse T, Nakagawa T, Shigeishi H, Takechi M.: The 66th Congress of the Japanese Society of Orla and Maxillofacial Surgeons (2021.11.12~11.14 Tokyo Web)

13: A case of squamous cell carcinoma of the tongue with skin metastasis.: Tada M, Ono S, Okuda S, Naruse T, Akagi M, Kakimoto N, Konishi M, Ohta K, Takechi M..: The 66th Congress of the Japanese Society of Oral and maxillofacial Surgeons (2021.11.12~11.14 Chiba Web)

Takeuchi K, Wakai K, Yoshitake A, Naito M.: 2nd World Dysphagia summit (Web), 2021.

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13: 543; doi:10.3390/polym13040543.

The Newest Series of Textbooks for Dental Technologist - Dental Technology for Fixed Dental Protheses and Restorations (Book language: Traditional Chinese): Hideo Matsumura, Kazuhiko Suese, Akio Shintani, Saiji Shimoe, Hideyuki Imai, et al, Ho-Chi Book Publishing (Taiwan), Total of 182 pages, 2018~

The Newest Series of Textbooks for Dental Technologist - Oral and Maxillofacial Anatomy (Book language: Traditional Chinese): Tzu-Yu Peng (Sole Translator), Ho-Chi Book Publishing (Taiwan), Total of 208 pages, 2019. (ISBN: 9789863682592)

)(The Newest Series of Textbooks for Dental Technologist-Dental Technology for Removable Dentures (Book language: Traditional Chinese): Tzu-Yu Peng (Sole Translator), Ho-Chi Book Publishing (Taiwan), Total of 308 pages, 2019. (ISBN:9789863683094)

Chao FY, Ikeda K, Higuchi S, Tanimoto K, Shukunami C, Shimoe S, Kaku M. Remodeling of the sagittal suture development in *Sost* knockout (*Sost*$^{-/-}$) mice associated with cranial flat bone growth: The 6th Joint Scientific Meeting in Dentistry (Online meeting), 2021.

Yoshioka R., Mine Y., Kaku M., Nikawa H., Murayama T.

:

Kagawa H., Kaku M., Yamamoto T., Sumi H., Kamiya T., Kojima S., Yamamoto I., Tanimoto K.

Yamamoto I., Kimura T., Kaku M., Kojima S., Kozato S., Fujiwara Y. remote speech therapy under COVID-19 pandemic:

Nakamoto H., Kajikawa N., Shimoe S., Kaku M. Changes in the

Kajikawa N., Shimoe S., Kaku M. Changes in the

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). Kawabata H Shimoe S Iwaguro S Kaku M : Effect of alumina blasting pressure on the adhesion of PEEK to dental composite resin

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Saori Takeda, Reina Yoshioka,
Shiho Urabe, Yuuki Sasaki,
Mai Utsunomiya, Satori Undo, Mami Kato, Nana Kurogi, Keiki Tanioka,
Saki Tokuhara, Saki Fujimoto, Hiroki Hase, Sumire Oba, Mizuho Sano,
Miyui Shimanouchi, Eri Nagasawa, Moeka Kasagawa, Hitone Hirose

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Graduate School of Biomedical and Health Sciences

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(2) Main Research Activities

2021

1. Effect of nisin A produced by Lactococcus lactis to Clostridioides difficile strain Noriaki Ide, Miki Kawada-Matsuo, Mi Nguyen Tra Le ,Hiromi Nishi ,Hiroyuki Kawaguchi , Hitoshi Komatsuzawa 6th Joint Scientific Meeting in Dentistry : WEB held : Poster presentation.
2. Noriaki Ide, Miki Kawada-Matsuo, Mi Nguyen Tra Le ,Hiromi Nishi ,Hiroyuki Kawaguchi , Hitoshi Komatsuzawa
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Role of *Lactobacillus rhamnosus* in Oral Health of Disabled Individuals. Yuki Oda, Chiaki Furutani, Yuika Mizota, Hiroki Nikawa: *Current Oral Health Reports*

2021

A case of autism spectrum disorder in which visual support enabled premedication and dental treatment under general anesthesia

The effect of intranasal premedication of midazolam for an autism spectrum disorder child with a giant venous valve and mild aortic valve regurgitation.

An effective case of nasal high-flow oxygen therapy for type 2 respiratory failure after dental treatment under general anesthesia in a patient with cerebral palsy

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Chief Professor
Research Associate　Sachiko Yamada
Research Associate

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Technician Tokue Yanagida (Co.)

1：Research on development and management of healthcare and welfare information system.
2：Research on Medical Informatics.

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