2020

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

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neuropathic pain, The 62nd Annual Meeting of Japanese Association for Oral Biology (Kagoshima), 2020.

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

2020

Department of Physiology and Oral Physiology

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Genetic tracing-based characterization of bitter-taste relaying neurons in the parabrachial nuclei : Sugita M. : The 62th Annual Meeting of Japanese Association for Oral Biology (online), 2020.

The role of sodium-glucose cotransporter-1 in maintaining Cl^- secretion that drives fluid secretion from salivary glands : : 2020 NIPS Research Meeting (online), 2020.

Maternal dietary imbalance in essential fatty acids induces hedonic feeding in offspring

Chugoku-Shikoku Division (online),

The roles of essential fatty acids in dopaminergic neurogenesis and dopamine-dependent ingestive behaviors

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The roles of brain essential fatty acids in hedonic feeding behaviors

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Maternal dietary imbalance in essential fatty acids induces dopamine-dependent feeding in offspring

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Grant-in-Aid for Scientific Research (C): Sugita M., The functional mapping of taste information processing in the brain by using genetic tracing. 18K09519. ¥1,200,000.

Grant-in-Aid for Young Scientists:

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Grant-in-Aid for Scientific Research on Innovative Areas:

¥

Sakayori N.:

2020

Department of

(1)

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.

Kuriki M, Sato F, Arai HN, Sogabe M, Kaneko M, Kiyonari H, Kawakami K, Yoshimoto Y, Shukunami C, Sehara-Fujisawa A: Development, 147(9), dev186239, 2020.

Shukunami: Orthopaedic Surgery and Traumatology 63 (1), 83 88, 2020.

Frontiers of Tendon and Ligament Research (5)

: Yuriko Nishimura, Chisa Shukunami: Surgery and Traumatology 63 (6), 833 838, 2020.

Frontiers of Tendon and Ligament Research (11) intervertebral disc: Shigenori Miura, Chisa Shukunami: Surgery and Traumatology 63 (12), 1685 1689, 2020.

Regionality of intracardiac neural crest cells with diversity and differentiation fate mechanism revealed by single cell and spatial transcriptome analysis :

: Chisa Shukunami The 68th Annual Meeting of Japanese Association for Dental Research,

Functional roles of Scx and Sox9 in the integration of the components of the musculoskeletal system
Chisa Shukunami

: Shinnosuke Higuchi , 19K23752.
¥1,430,000.
Grant-in-Aid for Early-Career Scientists: Shinnosuke Higuchi , 20K15830.
¥1,690,000.
The Sumitomo Foundation, Grant for Basic Science Research Projects: Shinnosuke Higuchi, ¥1,400,000.
The Uehara Memorial Foundation, Research Grant: Shinnosuke Higuchi, ¥2,000,000.

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Department of Bacteriology

A) Original Papers (including Case Reports)

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Department of Cellular and Molecular Pharmacology

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Department of Biomaterials

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(1) Staffs and Students

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(3) Research Achievements

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D) Other Publications

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16. Specific oral bacteria associated with respiratory diseases requiring intensive care.

Nishi H, Obayashi T, Oshimo S, Kurihara H, Shime N, Kawaguchi H

The 42nd Annual Meeting, Japanese Society of Respiratory Care Medicine (2020 December, Kyoto)

(4) Status of Receiving Grants-in Aid for Scientific Research.

18H02977

(5) Award.

2020

Surgery

Division of Oral & Maxillofacial Surgery and Oral Medicine

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17. Functional analysis of insulin and cholesterol on the induction of cytotoxic activity of Lymphokine-activated killer cells

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3) Takechi M, Ishioka Y, Ninomiya Y, Ono S, Tada M, Nakagawa T, Sasaki K, Murodumi H, Shigeishi H, Ohta K. Materials (Basel). 13: 2605, 2020.

4) Murodumi H, Shigeishi H, Kato H, Yokoyama S, Sakuma M, Tada M, Ono S, Rahman MZ, Ohta K, Takechi M. Mol Med Rep. 22: 3549-3558, 2020.

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11) 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

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Ninomiya Y, Yokoyama S, Sasaki K, Takechi M.

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Treatment of open bite with TAD: The nature of molar intrusion and relapse In Temporary anchorage devices in clinical orthodontics (Editor: Park JH.) Kaku M., Tanne K., Tanimoto K. Wiley-Blackwell New Jersey 309-318 2020.

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Pongsapak Wongratwanich

Improvement of treatment results in the radiotherapy for oral cancers

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Department of

1： Studies on biological regeneration of dentin/pulp complex and periapical tissues

2： Studies on pulp regeneration by regulation of inflammation

3： Studies on biological obturation of root canals at apical areas

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Konishi A., Ouhara K., Fujita T., Kurihara H.: The 63rd Autumn Meeting of the Japanese Society of Periodontology, Koriyama,

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10： Efforts of dental hygienists at Hemophilia Treatment Center of Hiroshima University Hospital: Okada M., Shintani T., Kawagoe M, Iwata T, Takeda K, Shindou T, Yoshida K, Yamasaki N, Niizato N, Nakaoka M, Mizuno T, Fujii T, Oota K, Kozai K, Shiba H.:

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Pediatric Dentistry Glossay second edition. The Japanese Society of Pediatric Dentistry: (Shared writing) Kozai K.: Ishiyaku Publisher, Inc., Tokyo, 2020.

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Perineural treatment with anti-HMGB1 antibody alleviates nociceptive-like behaviors in mice with chronic constriction injury of distal infraorbital nerve: Kochi T, Nakamura Y, Nakashima K, Liu K, Waki H, Nishibori M, Irifune M, Morioka N: The 93rd Annual Meeting of the Japanese Pharmacological Society, in Yokohama City, Japan, March 16, 2020

The 93rd Annual Meeting of the Japanese

Pharmacological Society, in Yokohama City, Japan, March 17, 2020

Nakashima K, Liu K, Waki H, Nishibori M, Irifune M, Morioka N

2020

Nakashima K, Liu K, Waki H, Nishibori M, Irifune M, Morioka N

2020

Department of Public Oral Health

Melatonin-induced miR-181c-5p enhances osteogenic differentiation and mineralization of human jawbone-derived osteoblastic cells. : Murodumi H., Shigeishi H., Kato H., Yokoyama S., Sakuma M., Tada M., Ono S., Rahman MZ., Ohta K., Takechi M. : Mol Med Rep, 22(4), 3549-3558, 2020

Morphological evaluation of bone by CT to determine primary stability　Clinical study. : Takechi M., Ishioka Y., Ninomiya Y., Ono S., Tada M., Nakagawa T., Sasaki K., Murodumi H., Shigeishi H., Ohta K. : Materials (Basel), 13(11), E2605, 2020.

Changes in the bristle stiffness of polybutylene terephthalate manual toothbrushes over 3 months: A randomized controlled trial. : Kaneyasu Y., Shigeishi H., Ohta K., Sugiyama M. : Materials (Basel), 13(12), E2802, 2020.

Oral human cytomegalovirus prevalence and its relationships with periodontitis and Porphyromonas gingivalis in Japanese adults: a cross-sectional study. : Nakamura M., Shigeishi H., Cheng-Yih SU., Sugiyama M., Ohta K. : J Appl Oral Sci, 2020;28:e20200501.

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A study of the factors associated with severity of oral mucositis in pharyngeal cancer patients receiving chemoradiotherapy. : Nakamura M., Shigeishi H., Nishi H., Sugiyama M., Ohta K. : The 59th Meeting of Hiroshima Prefectural Dental Association/ The 104th Meeting of Hiroshima University Dental Society (Hiroshima), 2020.

Relationship between change in the bristle stiffness of PBT toothbrush and bristle splaying. : Kaneyasu Y., Shigeishi H., Ohta K., Sugiyama M. : The 30th annual local meeting of Kinki-Chugoku-Shikoku Branch, Japanese Society for Oral Health (Paper), 2020.

Association of oral and physical function with long-term participation in community-based health programs in older people

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D) Other Publications

E) Presentations at Scientific Meetings

Relationship between frequency of lip incompetence and oral dysfunction: Kobayashi Y.,Nakamura M.,Hama Y.,Asaeda M.,Yoshida Y.: The 27th Annual Meeting of the Japanese Society of Health, Fitness and Nutrition (Takamatsu), 2020.

Relationship between oral function and physical balance in older adults: Fukuda M.,Nakamura M.,Miyode M.,Asaeda M.,Yoshida Y.: The 27th Annual Meeting of the Japanese Society of Health, Fitness and Nutrition (Takamatsu), 2020.

Research on incompetent lip seal "Okuchi-Pokan" and general health conditions;The first report: Nakamura M.,Sone Y.,Kobayashi Y.,Asaeda M.,Hama Y.: The 58th Annual Meeting of the Japanese Society of Pediatric Dentistry (Ginowan), 2020.

Research on incompetent lip seal "Okuchi-Pokan" oriented towards oral dysfunction;The first report: Nakamura M.,Kobayashi Y.,Asaeda M.,Hama Y.,Yoshida Y.: The 29th Annual Meeting of Japanese Society of Dentistry for Medically Compromised Patient (publish), 2020.

Effectiveness of Denture assistance for lip support on post operative oral floor cancer patients. Yamada S., Yoshida M. , Yoshikawa M., Kohada A., Tsunoda T., Ishida E., Nagasaki T., Tsuga K. Japan Prosthdontic Society Chugoku&Shikoku Branch (Hiroshima),2020.

Advanced stage tongue cancer patient with PEG and radiation treatment followed by rehabilitation leads to sustained oral food intake .

Outcome of remained swallowing disorder due to an odontogenic infection-related neck abscess: a case report.: Nagasaki T., Yoshikawa M., Kawagoe M., Yamada S., Yoshikawa M.,Ohtsuka M., Konishi M., Verdonschot R., Suei Y.,Nakamoto T., Kakimoto N.:The 1st Autumn Meeting of the Japanese Society for Oral and Maxillofacial Radiology(web),2020.

A Study on the Effectiveness of Training to Prevent Turnover of Dental Hygienists Kurawaki Y, Aimi R, Nishimura R, Matsumoto A, Takemoto T, Naito M The 61st General Meeting of Japanese Society of Dental Practice Administration (publish), 2020.

Relationship between oral conditions and oral hygiene awareness in university freshmen: Asaeda M.,Yoshida Y.,Yanagita M.,Yoshida N.,Sugimoto K.,Kubota A.,Suzuki H.,Yamanaka S.,Sakamaki H.,Okawa Y.: The 15th Annual Meeting of the Japan Society for Dental Hygiene (publish), 2020.

Effects of joint practice of interprofessional education for dental hygiene students and nursing students: Sawada M.,Ako K.,Taniguchi Y.,Asaeda M.,Hara K.: The 15th Annual Meeting of the Japan Society for Dental Hygiene (publish), 2020.

Research on lip closure in children attending health events and parental awareness of oral habits: Kobayashi Y.,Nakamura M.,Hama Y.,Asaeda M.,Yoshida Y.: The 15th Annual Meeting of the Japan Society for Dental Hygiene (publish), 2020.

Training on prevention of periodontal diseases at the Center for Dental Hygienists Education and Training, Hiroshima University.: Aimi R, Kurawaki Y, Matsumoto A, Nishimura R, Naito M, Takemoto T: The 15th Annual Meeting of the Japan Society for Dental Hygiene (publish), 2020

Overview of the Center for Dental Hygienists Education and Training in the Project to Support the Return to Work of Dental Hygienists.: Kurawaki Y, Aimi R, Matsumoto A, Nishimura R, Naito M , Takemoto T.: The 15th Annual Meeting of the Japan Society for Dental Hygiene (publish), 2020

The relationship between periodontal disease and cognitive decline: A systematic review.: Hamakubo H, Sasaki K, Naito M, Nishimura R. : The 15th Annual Meeting of the Japan Society for Dental Hygiene (publish), 2020

Effect of lip-closure training on oral function.: Ishizu H, Nishimura R, Naito M.: The 15th Annual Meeting of the Japan Society for Dental Hygiene (publish), 2020.

Effects of personality traits and willingness to act on continuing to use Interdental brush: Asaeda M.,Nishimura R.,Sambuichi E.,Kanehisa Y.,Kajita K.,Hama Y.: The 31th Annual Meeting of the Japanese Society of Gerodontology (web), 2020.

Characteristics of cases missed from dysphagia screening in acute stroke.: Takeda C, Hiraoka A, Mori T, Maehara T, Nishimura R, Yoshikawa M, Yoshida M, Tsuga K.: The 31th Annual Meeting of the Japanese Society of Gerodontology (web), 2020.

Survey of participants in the Project to Support the Return to Work of Dental Hygienists. Tsuruda K, Kurawaki Y, Aimi R, Misumi K, Tetsumori K, Daijyo A, Nishimura R, Matsumoto A, Naito M , Takemoto T. The 31st general meeting of Kinki, Chugoku, Shikoku Society for Oral Health(publish),2020.

T aniguchi E, Nishimura R, Naito M.: The 79th Annual Meeting of Japanese Society of Public Health(web),2020.

The Relationship between eating status, dysphagia symptoms, and quality of life in nursing homes elderly.: Yoshitake A, Naito M, Matsuda Y, Fujii K, Akifusa S, Suzukamo Y, Nishimura R.: The 79th Annual Meeting of Japanese Society of Public Health(web),2020.

the Project to Support the Return to Work of Dental Hygienists. Nishimura R, Kurawaki Y, Aimi R, Tsuruda K, Misumi K, Tetsumori K, Daijyo A, Nishimura R, Matsumoto A, Naito M, Takemoto T.: The general meeting of Chugoku Society for Dental Practice Administration (Hiroshima),2020.

The investigation

Maehara T., Matsumoto A., Nishimura R., Niitani Y., Naito M., Takemoto T.: The 11th Annual Meeting of the Japan Society for Dental Hygiene Education (web), 2020.

Examination of dental treatment under intravenous sedation for the elderly patient : Hama Y Yoshida M, Tsuga K : The 31st Annual Meeting of the Japanese Society of Gerodontology web ,2020

Effects of dental treatment related of special needs and their families QOL Hama Y, Miyauchi M, Oishi M, Okada S, Okino E, Shintani H, Naito M : The 37th Annual Meeting of the Japanese Society for Disability and Oral Health web ,2020

An Experience in induction for dental treatment of the autism spectrum disorder with severe obesity: Oishi M, Okada S, Okino E, Hama Y, Shintani H , Miyauchi M: The 37th Annual Meeting of the Japanese Society for Disability and Oral Health web ,2020

A study on the awareness of dental hygiene students for special needs dentistry and Dental Anesthesia Comparison before and after a clinical training: Okada S, Oishi M, Okino E, Hama Y, Shintani H , Miyauchi M: The 37th Annual Meeting of the Japanese Society for Disability and Oral Health web ,2020

A case of autism spectrum disorder patient who had a repeated practice of anesthetic induction.: Okino E, Okada S, Oishi M, Hama Y, Miyauchi M : The 48th Annual Meeting of the Japanese Society of Anesthesiology web ,2020

The effect of oral health education to teachers on oral health condition of a primary school children in Cambodia: Asao Y., Iwamoto Y., Akitomo T., Mitsuhata C., Naito M., Kozai K.: IAPD20 Virtual Congress(Online), 2020

F)

G) Social Contributions

(4) Status of Receiving Grants-in Aid for Scientific Research, etc.

2020

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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)

Dan-Jae Lin

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Saori Takeda, Reina Yoshioka

Mari Fujii,Yukine Ashikari, Shiho Urabe, Yuuki Sasaki, Akari Tanaka, Saki Nishibayashi, Momo Hiraoka, Mai Utsunomiya, Satori Undo, Mami Kato, Nana Kurogi, Keiki Tanioka, Saki Tokuhara, Saki Fujimoto, Hiroki Hase

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: Minamizaki T., Sakurai K., Hayashi I., Toshishige M., Yoshioka H., Kozai K., Yoshiko Y. : Molecular and Cellular Endocrinology, 517, 110931, 2020.

2020

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Graduate School of Biomedical and Health Sciences

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(2) Main Research Activities

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4. Katsura K, Soga Y, Nishi H, Soga M, Usubuchi K, Mitsunaga Y, Tomizuka K, Konishi T, Hatchioka W, Ueno H, Aragaki S, Hayashi T. A cost-minimization analysis of measures against metallic dental restoration in head and neck radiotherapy. The 6th Annual Meeting of Japanese Association of Oral Supportive Care in Cancer (JAOSCC) (kanagawa), 2020/12

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Chief Professor
Research Associate　Sachiko Yamada
Research Associate

Effectiveness of Denture assistance for lip support on post operative oral floor cancer patients Yamada S., Yoshida M. , Yoshikawa M., Kohada A., Tsunoda T., Ishida E., Nagasaki T., Tsuga K.: Reiwa 2nd Japan Prosthdontic Society Chugoku&Shikoku Branch (Higashihiroshima), 2020.
Advanced stage tongue cancer patient with PEG and radiation treatment followed by rehabilitation leads to sustained oral food intake .

Outcome of remained swallowing disorder due to an odontogenic infection-related neck abscess: a case report.: Nagasaki T.,

based health care and

actuality of Dysphagia Rehabilitation, Hiroshima pref. community-based health care and

actuality of Dysphagia Rehabilitation, Hiroshima pref. community-based health care and

2020

Central Clinical Divisions
Center of Oral Clinical Examination

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Homeobox transcription factor engrailed homeobox 1 is a possible diagnostic marker for adenoid cystic carcinoma and polymorphous adenocarcinoma: Baba S, Akashi T, Kayamori K, Ohuchi T, Ogawa I, Kubota N, Nakano K, Nagatsuka H, Hasegawa H, Matsuzaka K, Tomii S, Uchida K, Katsuta N, Sekiya T, Ando N, Miura K, Ishibashi H, Ariizumi Y, Asakage T, Michi Y, Harada H, Sakamoto K, Eishi Y, Okubo K, Ikeda T.: Pathol Int., in press.

4. Oral and Maxillary regions: Surgical Pathology 5th ed. (Fukayama M, Morinaga S. chief edt., Oda Y, Sakamoto M, Matsuno Y, Moriya T. edt.): Ogawa I.: Bunkodo Co., Ltd. (Tokyo), p.137-168, 2020. Chapter 5. Digestive system (2) Salivary gland: Color atlas of histopathology and differential diagnosis 7th ed. (Akagi T, Matsubara O, Manabe T. supervis. edt., Yoshino T, Oda Y, Sakamoto M, Morii E. edt.): Nagao T, Takata T. Ogawa I.: Ishiyaku Pub, Inc. (Tokyo), p.187-195, 2020.

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