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4: Kharaghnani D, Kohno S, Minamizaki T, Hoshino T, Yoshiko Y. 2,3-Diphospho-D-glyceric acid inhibits calciprotein particle growth and calcification in MOVAS cells but not in MC3T3-E1 cells. Colloids Interface Sci Commun. 2022 Sep 20;50:100668. Doi: 10.1016/j.colcom.2022.100668

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1: Terayama R, Uchibe K,)
, The 64th Annual Meeting of Japanese Association for Oral Biology (Tokyo), 2023.
2: Ogashira S, Hoshino T, Kohno S, Yoshiko Y, Mir125b1-derived miR-125b-5p negatively regulates osteoblast differentiation, The 38th Annual Meeting of the Japanese Society for Bone and Mineral Research (Tokyo), 2023
3: Oshiro R, Kohno S, Hoshino T, Hatano R, Tanimoto K, Yoshiko Y, Transcriptomic analysis of calciprotein particle-mediated calcification in mouse vascular smooth muscle cells, The 128th Annual

2023

Department of Physiology and Oral Physiology

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4: Grant-in-Aid for Scientific Research (C): Sugita M., Genetic tracing to reveal the whole brain mapping of taste information processing. 21K09828. \1,100,000.

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the first step toward improving diagnostic accuracy in oral cytology: Unehara R, Mori T, Mishima S, Ochi M, Ohue Y, Shimizu T, Kaneko Y, Ishida K, Ando T, Ogawa I, Aikawa T, Yanamoto S, Miyauchi M, Arihiro K: The 62th Annual Autumn Meeting of Japanese Society of Clinical Cytology (Hakata), 2023.

2) Presentation at International Scientific Meeting

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3) Presentation at Domestic Scientific Meeting

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9) Grant-in-Aid for Scientific Research (Basic Research (C)) new: Shigeishi H, Ono S, Elucidation of the regulatory mechanism of cancer stem cell traits mediated by Beclin-1 in oral squamous cell carcinoma cells highly expressing CD44. Issue Number 23K09370

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20 Outcome of oral myofunctional therapy concurrent with orthodontic treatment for children with Noonan's syndrome: Ando K., Asakawa Y., Okada M., Yamada S., Yamoto S., Nakatani A., Tanimoto K. The 21th Annual Meeting of the Japan Society for Oral Myofunctional Therapy (Tokyo), 2023

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16:))) Nakano A., Controlling heterostructure of regenerated bone tissue using bio-3D printing technology. 23K16039. 2,600,000 yen
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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, Kazuma Yoshida, Jun Nakanishi, Daisuke Furutama
Graduate Student: Tomoki Kumagai, Naoki Sadaoka, Tomoya Naruse, Tomoki Kawayanagi, Wang Chutian, Saki Nishihama, Ayaka Miyata, Takuya Arita
Research Student: Song Bingxin

(2) Main Research Activities

1: Biological regeneration of dentin/pulp complex and periapical tissues
2: Pulp regeneration by regulation of inflammation
3: Biological obturation of root canals at apical areas
4: Epidemiological studies and clinical trials on endodontics

(3) Research Achievements

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Department of Dental Anesthesiology
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6: Nishimura R.: Project to improve the qualifications of dental hygienists for the promotion of home dental care (Hiroshima), 2023.

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1: Developing the promising tissue regenerative therapy using stem cells and 3D culture techniques.
2: Establish a novel culture system that can mimic the oral cavity using 3D cell constructs and micro-devices.
3: Diagnostic pathological study on head and neck lesions.
4: Study on test and treatment of metal allergy and dry mouth.
5: Molecular pathological study on development and progression of oral squamous cell carcinoma.
6: Study on molecular target therapy to oral cancer targeted with HBp17/FGFBP.
7: Analysis of actual condition of oral bacterial infection.
8: Molecular pathological research on oral/head and neck cancer focusing on genomic alterations and the Hippo pathway.

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