

主な研究課題・発表代表論文

歯科口腔外科学講座 Oral and Maxillofacial Surgery

研究領域 上皮情報解析医科学

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主な研究課題

- 口唇口蓋裂に対する口腔・顎・顔面の形態と機能の解析法の開発
- 口腔癌に対する支持療法の有効性の検討
- 網羅的細菌叢解析を用いた各種疾患における新規バイオマーカーの探索
- 口腔癌の分子細胞生物学的特性に基づいた新規治療標的の検討

発表代表論文

- 1) Shiraishi M, Mishima K, et al.: An acoustic simulation method of the Japanese vowels /i/ and /u/ by using the boundary element method. *Acoustics* 5:553-563, 2023.
- 2) Takenawa T, Harada K, et al.: Silencing of Tropomyosin 1 suppresses the proliferation, invasion and metastasis of oral squamous cell carcinoma in vitro. *JOMSMP* 35(3): 282-287, 2023.
- 3) Harada K, et al.: An elemental diet protects mouse salivary glands from 5-fluorouracil-induced atrophy. *Oncol Lett* 23(6): 178, 2022.
- 4) Fujiwara R, et al.: Amino acids may have protective effects on salivary glands of 5-FU-administered mice. *In Vivo* 36(1): 198-205, 2022.
- 5) Harada K, et al.: Effects of an elemental diet, Elental®, may differ between healthy oral cells and oral cancer cells. *Oncol Rep* 45(2): 738-751, 2021.
- 6) Harada K, et al.: Efficacy of a novel oral chemotherapeutic agent, TAS-102, against human oral squamous cell carcinoma cells. *Anticancer Res* 41(12): 6039-6049, 2021.
- 7) Harada K, et al.: Elemental diet directly affects chemotherapy-induced dermatitis and raw wound areas. *Mol Clin Oncol* 13(2): 209-215, 2020.
- 8) Shiraishi M, Mishima K, et al.: Development of an acoustic simulation method during phonation of the Japanese vowel /a/ by the boundary element method. *J Voice* 35(4): 530-544, 2021.
- 9) Harada K, et al.: The Elental® elemental diet for chemoradiotherapy-induced oral mucositis: A prospective study in patients with oral squamous cell carcinoma. *Mol Clin Oncol* 10(1):159-167, 2019.
- 10) Harada K, et al.: Prognostic significance of FOXM1 in oral squamous cell carcinoma patients treated by docetaxel containing regimens. *Mol Clin Oncol* 10(1): 29-36, 2019.
- 11) Harada K, et al.: PD-L1 expression in malignant salivary gland tumors. *BMC Cancer*

- 18(1): 156. 2018.
- 12) Umeda H, et al.: Appearance of cell-adhesion factor in osteoblast proliferation and differentiation of apatite coating titanium by blast coating method. *J Mater Sci Mater Med* 28(8): 112, 2017.
 - 13) Mishima K, et al.: Characteristics of posed smiles for class III female patients before and after osteotomy using principal component analysis. *J Craniofac Surg* 27(7): 1754-1758, 2016.
 - 14) Nakano A, Mishima K, et al.: Quantitative analysis of velopharyngeal movement using a stereoendoscope: accuracy and reliability of range images. *Comput Aided Surg* 20(1): 29-33, 2015.
 - 15) Uchida K, et al.: Investigation of HOXA9 promoter methylation as a biomarker to distinguish oral cancer patients at low risk of neck metastasis. *BMC Cancer* 14: 353, 2014.