

Department of Fundamental Health Sciences

Outline

In undergraduate and postgraduate education, we are responsible for Physiology, Anatomy, Pathology, Microbiology, Pathophysiology in adult disease, Surgery, Internal Medicine, Epidemiology, and Oncology. Our division has been performing basic and clinical research on the topics listed below.

Faculty members

Professor: Motoi Nishi
Masanobu Kobayashi
Jun-ichi Hamada

Main Research in progress

- 1) Association between the abnormal oral microbiom and carcinogenesis
- 2) Identification of microenvironmental factors enhancing malignant tumor progression
- 3) Prevention of tumor invasion and metastasis
- 4) Cancer Epidemiology

Current publications

- * Nakagawa, K. et al. "PIAS3 enhances the transcriptional activity of HIF-1 α by increasing its protein stability." *Biochem Biophys Res Commun*. 2016 69: 470–6.
- * Onuma, K. et al. "Fermented brown rice and rice bran with *Aspergillus oryzae* prevents inflammation-related carcinogenesis in mice, through inhibition of inflammatory cell infiltration." *Nutrients* 2015: 7, 10237–10250.
- # Dong, P., Ihira, K., Hamada, J., Watari, H., Yamada, T., Hosaka, M., Hanley, S.J.B., Kudo, M., & Sakuaragi, N. "Reactivating p53 functions by suppressing its novel inhibitor iASPP: A potential therapeutic opportunity in p53 wild-type tumors." *Oncotarget*, 6: 19968–19975, 2015.
- # Maishi, N., Ohba, Y., Akiyama, K., Ohga, N., Hamada, J., Nagao-Kitamoto, H., Alam, M.T., Yamamoto, K., Kawamoto, T., Inoue, N., Taketomi, A., Shindoh, M., Hida, Y., & Hida, K. "Tumor endothelial cells in high metastatic tumors promote metastasis via epigenetic dysregulation of biglycan." *Sci Rep*. 6: 28039, 2016.
- * Nishi, M. "Possible Japanese Racial Predisposition for Particular Tumors In Edwards Syndrome." *J Tumor* 2016; 4: 456–460.
- * Nishi, M. "Epidemiology of Skin Cancer in Japan." *J Tumor* 2016; 4: 369–373.
- * Satge, D., Nishi, M., Sirvent, N., & Vekemans, M. A tumor profile in Edwards syndrome (trisomy 18)." *Am J Med Gen* 2016; 172: 296–306.