

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 *

Jun-ichi Hamada #

Rena Morita **

Main Research in progress

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

Current publications

* 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 (trisomy18)." *Am J Med Gen* 2016; 172: 296–306.

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.

** Morita R, Hirohashi Y, Torigoe T, Ito-Inoda S, Takahashi A, Mariya T, Asanuma H, Tamura Y, Tsukahara T, Kanaseki T, Kubo T, Kutomi G, Mizuguchi T, Terui T, Ishitani K, Hashino S, Kondo T, Minagawa N, Takahashi N, Taketomi A, Todo S, Asaka M, Sato N. Olfactory Receptor Family 7 Subfamily C Member 1 Is a Novel Marker of Colon Cancer Initiating Cells and Is a Potent Target of Immunotherapy. *Clin Cancer Res.* 22: 3298-309: 2016.

** Kubo T, Sugawara T, Shinkawa T, Kurisu T, Kouzen N, Tanaka T, Fukuta F, Yamasaki K, Sugita S, Matsuo K, Morita R, Hirohashi Y, Tsukahara T, Kanaseki T, Hasegawa T,

Masumori N, Torigoe T. Fatal fulminant hepatitis induced by combined ipilimumab and nivolumab therapy despite favorable histologic response and confirmed by autopsy in a patient with clear cell renal cell carcinoma. *Immunol Med.* 7:1-6: 2020.

** Kubo T, Hirohashi Y, Keira Y, Akimoto M, Ikeda T, Kikuchi N, Iwaki H, Kikuchi T, Obata M, Morita R, Kasai K, Segawa K, Tsukahara T, Kanaseki T, Murata K, Kikuchi Y, Shinkawa T, Hasegawa T, Torigoe T. Identification of characteristic subepithelial surface granulomatosis in immune-related adverse event-associated enterocolitis. *Cancer Sci.* 112:

【 Education Field 】

Human Anatomy

Pathology

Pathophysiology in Adulthood Disease

Surgery

Internal Medicine

Oncology

Epidemiology

Preventive medicine

Statistics

【 Research Field 】

Surgery

Emergency Medicine

Cardiovascular Medicine

Oncology

Hematology/Oncology

Biological Oncology

Medical Oncology

Epidemiology

Preventive medicine