

6. Department of Parasitology

- 1) Hanadate, Y., Saito-Nakano, Y., Nakada-Tsukui, K., and Nozaki, T. Endoplasmic reticulum-resident Rab8A GTPase is involved in phagocytosis in the protozoan parasite *Entamoeba histolytica*. *Cell Microbiol.* 18(10):1358-73, 2016 doi: 10.1111/cmi.12570.
- 2) Ishikane, M., Arima, Y., Kanayama, A., Takahashi, T., Yamagishi, T., Yahata, Y., Matsui, T., Sunagawa, T., Nozaki, T., and Oishi, K. Epidemiology of domestically-acquired amebiasis in Japan, 2000-2013. *Am. J. Trop. Med. Hyg.* 94(5):1008-14, 2016. doi: 10.4269/ajtmh.15-0560
- 3) Verma, K., Nozaki, T., and Datta, S. Role of EhRab7A in phagocytosis of type 1 fimbriated *E. coli* by *Entamoeba histolytica*. *Mol. Microbiol.* 102:1043-1061, 2016. doi: 10.1111/mmi.13533. PMID:27663892
- 4) Chiba, Y., Makiuchi, T., Jeelani, G., and Nozaki, T. Heterogeneity of the serine synthetic pathway in *Entamoeba* species. *Mol Biochem Parasitol.* 207(2):56-60, 2016. doi:10.1016/j.molbiopara.2016.06.002.
- 5) Nakada-Tsukui, K. and Nozaki, T. Immune response of amebiasis and immune evasion by *Entamoeba histolytica*. *Front Immunol.* 7:175, 2016. doi: 10.3389/fimmu.2016.00175. Review.
- 6) Kobayashi, T., Watanabe, K., Yano, H., Murata, Y., Igari, T., Nakada-Tsukui, K., Yagita, K., Nozaki, T., Kaku, M., Tsukada, K., Gatanaga, H., Kikuchi, Y., Oka, S. Underestimated amoebic appendicitis among HIV-1-infected individuals in Japan. *J Clin Microbiol.* 55:313-320, 2016. doi: 10.1128/JCM.01757-16. PMID:27847377.
- 7) Kazama, M., Ogiwara, S., Makiuchi, T., Yoshida, K., Nakada-Tsukui, K., Nozaki, T., Tachibana H. Behavior of DNA-lacking mitochondria in *Entamoeba histolytica* revealed by organelle transplant. *Sci Rep.* 7:44273, 2017. doi: 10.1038/srep44273. PMID:28287148
- 8) Somlata, Nakada-Tsukui, K., Nozaki, T. AGC family kinase1 participates in trogocytosis but not in phagocytosis in *Entamoeba histolytica*. *Nat Commun* in press.
- 9) Ybañez, R.H., Leesombun, A., Nishimura, M., Matsubara, R., Kojima, M., Sakakibara, H., Nagamune, K., Nishikawa, Y. "In vitro and in vivo effects of the phytohormone inhibitor fluridone against *Neospora caninum* infection." *Parasitol. Int.* 2016, 65 (4), 319-322
- 10) Tahara, M., Andrabi, S.B., Matsubara, R., Aonuma, H., Nagamune K. "A host cell membrane microdomain is a critical factor for organelle discharge by *Toxoplasma gondii*." *Parasitol. Int.* 2016, 65 (5), 378-388
- 11) Ihara, F., Nishimura, M., Muroi, Y., Mahmoud, M.E., Yokoyama, N., Nagamune, K., Nishikawa, Y. "*Toxoplasma gondii* Infection in Mice Impairs Long-Term Fear Memory Consolidation Through Dysfunction of the Cortex and Amygdala." *Infect Immun.* 2016, 84 (10), 2861-2870
- 12) Sakamoto, H., Suzuki, S., Nagamune, K., Kita, K., Matsuzaki, M. "Investigation into the Physiological Significance of the Phytohormone Abscisic Acid in *Perkinsus marinus*, an Oyster Parasite Harboring a Non-Photosynthetic Plastid." *J. Eukaryot. Microbiol.* 2016, DOI: 10.1111/jeu.12379
- 13) Andrabi, S.B.A., Tahara,M., Matsubara,R., Toyama,T., Aonuma,H., Sakakibara,H., Suematsu,M., Tanabe,K., Nozaki,T., Nagamune, K. "Plant hormone cytokinins control cell cycle progression and plastid replication in apicomplexan parasites." *Parasitol. Int.* 2017, *in press*
- 14) Kobayashi T.,Watanabe K., Yano H., Murata Y., Igari T.,Nakada-Tsukui K., Yagita K., Nozaki T.,Kaku M., Tsukada K., Gatanaga H., Kikuchi Y. and Oka S.

- Underestimated Amoebic Appendicitis among HIV-1-Infected Individuals in Japan. *Journal of Clinical Microbiology*, 55(1), 313-320, 2017
- Parasitology International 65: 412-421, 2016.
- 15) Furukawa M., Minegishi Y., Izumiya S., Yagita K., Mori H., Uemura T., Etoh Y., Maeda E., Sasaki M., Ichinose K., Harada S., Kamata Y., Otagiri M., Sugita-Konishi Y., Ohnishi T. The Development of a Novel, Validated, Rapid and Simple Method for the Detection of *Sarcocystis fayeri* in Horse Meat in the Sanitary Control Setting. *Biocontrol Science*, 21(2), 131-4, 2016
- 20) Fujita T., Waga E., Kitaoka Keisuke, Imagawa T., Yuuya Komatsu Y., Takanashi K., Anbo F., Anbo T., Katuki S., Ichihara S., Fujimori S., Yamasaki H., Morishima Y., Sugiyama H., Katahira H. Human infection by acanthocephalan parasites belonging to the genus *Corynosoma* found from small bowel endoscopy. *Parasitology International* 65:491-493, 2016.
- 16) Sriastava VK, Chandra M, Saito-Nakano Y, Nozaki T, Datta S. Crystal structure analysis of wild type and fast hydrolyzing mutant of EhRabX3, a tandem Ras superfamily GTPase from *Entamoeba histolytica*. *J. Mol. Biol.* (2016) 428(1), p41-51.
- 21) Thanchomnang T., Tantrawatpan C., Intapan P. M., Sanpool O., Janwan P., Lulitanond V., Tourtip S., Yamasaki H., Maleewong W. Rapid identification of nine species of diphyllobothriidean tapeworms by pyrosequencing. *Scientific Reports* 6:37228, 2016.
- 17) Ebine K, Hirai M, Sakaguchi M, Yahata K, Kaneko O, Saito-Nakano Y. Plasmodium Rab5b is Secreted to the Cytoplasmic Face of the Tubovesicular Network in Infected Red Blood Cells Together with N-acylated Adenylate Kinase 2. *Malaria J.* (2016) 15:323. doi:10.1186/s12936-016-1377-4
- 22) Morishima Y, Tomaru Y, Fukumoto S, Sugiyama H, Yamasaki H, Hashimoto H, Harada K. Canine echinococcosis due to *Echinococcus multilocularis*: a second notifiable case from mainland Japan. *Jpn J Infect Dis* 69, 448-449.
- 18) Janwan P., Intapan P.M., Yamasaki H., Rodpai R., Laummauwai P., Thanchomnang T., Sanpool O., Kobayashi K., Takayama K., Kobayashi Y., Maleewong W. Development and usefulness of an immunochromatographic device to detect antibodies for rapid diagnosis of human gnathostomiasis. *Parasites and Vectors*, 9: 14, 2016.
- 23) Sun MM, Ma J, Sugiyama H, Ando K, Li WW, Xu QM, Liu GH, Zhu XQ. The complete mitochondrial genomes of *Gnathostoma doloresi* from China and Japan. *Parasitol Res* 115, 4013-20, 2016.
- 19) Yamasaki H., Sekikawa Y., Oda R., Hongo I., Tsuchida T., Kumazawa H., Saito N., Morishima Y., Sugiyama H. First confirmed human case of *Diphyllobothrium stemmacephalum* infection and molecular verification of the synonymy of *Diphyllobothrium yonagoense* with *D. stemmacephalum* (Cestoda: Diphyllobothriidea).
- 24) Baird FJ, Su X, Aibinu I, Nolan MJ, Sugiyama H, Otranto D, Lopata AL, Cantacessi C. The *Anisakis* transcriptome provides a resource for fundamental and applied studies on allergy-causing parasites. *PLoS Negl Trop Dis* 10(7):e0004845, 2016
- 25) Nogami Y, Fujii-Nishimura Y, Banno K, Suzuki A, Susumu N, Hibi T, Murakami K, Yamada T, Sugiyama H, Morishima Y, Aoki D. Anisakiasis mimics cancer recurrence: two cases of extragastrointestinal anisakiasis suspected to be recurrence of gynecological cancer on PET-CT and molecular biological investigation. *BMC Med Imaging* 16:31, 2016

- 26) Tokiwa T, Sugiyama H, Taira K, Yoshikawa Y, Une Y. Prevalence of *Baylisascaris* roundworm in captive kinkajous in Japan. *J Parasitol*, 102, 293-294, 2016
- 27) Calvopina M, Romero-Alvarez D, Macias R, Sugiyama H. Severe pleuropulmonary paragonimiasis caused by *Paragonimus mexicanus* treated as tuberculosis in Ecuador. *Am J Trop Med Hyg*, 94, 97-99, 2016
- 28) Hayashi K, Mohanta UK, Ohari Y, Neeraja T, Singh TS, Sugiyama H, Itagaki T. Molecular characterization and phylogenetic analysis of *Explanatum explanatum* in India based on nucleotide sequences of ribosomal ITS2 and the mitochondrial gene *nad1*. *J Vet Med Sci* 78, 1745-1748, 2016
- 29) Itoh N, Tsukahara M, Yamasaki H, Morishima Y, Sugiyama H, Kurai H. *Paragonimus westermani* infection mimicking recurrent lung cancer: A case report. *J Infect Chemother*, 22, 815-818, 2016
- 30) Tsubokawa D, Sugiyama H, Mikami F, Shibata K, Shibahara T, Fukuda K, Takamiya S, Yamasaki H, Nakamura T, Tsuji N. Collection methods of trematode eggs using experimental animal models. *Parasitol Int*. 65, 584-587, 2016
- 31) Bautista-López NL, Ndao M, Camargo FV, Nara T, Annoura T, Hardie DB, Borchers CH, Jardim A. Characterization and Diagnostic Application of Trypanosoma cruzi Trypomastigote Excreted-Secreted Antigens Shed in Extracellular Vesicles Released from Infected Mammalian Cells. *J Clin Microbiol*. 55(3):744-758 (2007).
- 32) Fougère A, Jackson AP, Bechtel DP, Braks JA, Annoura T, Fonager J, Spaccapelo R, Ramesar J, Chevalley-Maurel S, Klop O, van der Laan AM, Tanke HJ, Kocken CH, Pasini EM, Khan SM, Böhme U, van Ooij C, Otto TD, Janse CJ, Franke-Fayard BM. Variant exported blood-stage proteins encoded by Plasmodium multigene families are expressed in liver stages where they are exported into the parasitophorous vacuole. *PLoS Pathog*. 12(11):e1005917. (2016).
- 33) Rijpma SR, van der Velden M, Annoura T, Matz JM, Kenthirapalan S, Kooij TW, Matuschewski K, van Gemert GJ, van de Vegte-Bolmer M, Siebelink-Stoter R, Graumans W, Ramesar J, Klop O, Russel FG, Sauerwein RW, Janse CJ, Franke-Fayard BM, Koenderink JB.. Vital and dispensable roles of Plasmodium multidrug resistance transporters during blood- and mosquito-stage development. *Mol Microbiol*. 101(1):78-91. (2016).