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PUBLICATIONS BY THE STAFF OF THE GRADUATE SCHOOL OF VETERINARY MEDICINE

Laboratory of Anatomy

Original articles

- 1) Hirano, M., Yoshii, K., Sakai, M., Hasebe, R., Ichii, O. and Kariwa, H. 2014. Tick-borne flaviviruses alter membrane structure and replicate in dendrites of primary mouse neuronal cultures. *J. Gen. Virol.*, **95**: 849-861. (doi: 10.1099/vir.0.061432-0)
- 2) Kimura, J., Ichii, O., Nakamura, T., Horino, T., Otsuka, S. and Kon, Y. 2014. BXSb-type genome causes murine autoimmune glomerulonephritis: pathological correlation between telomeric region of chromosome 1 and *Yaa*. *Genes Immun.*, **15**: 182-189. (doi: 10.1038/gene.2014.4)
- 3) Elewa, Y., Ichii, O., Otsuka, S., Hashimoto, Y. and Kon, Y. 2014. Characterization of mouse mediastinal fat-associated lymphoid clusters. *Cell Tissue Res.*, **357**: 731-741. (doi: 10.1007/s00441-014-1889-6)
- 4) Ichii, O., Otsuka, S., Ohta, H., Yabuki, A., Horino, T. and Kon, Y. 2014. MicroRNA expression profiling of cat and dog kidneys. *Res. Vet. Sci.*, **6**: 299-303. (doi: 10.1016/j.rvsc.2014.01.003)
- 5) Yasui, H., Takeuchi, R., Nagane, M., Meike, S., Nakamura, Y., Yamamori, T., Ikenaka, Y., Kon, Y., Murotani, H., Oishi, M., Nagasaki, Y. and Inanami, O. 2014. Radiosensitization of tumor cells through endoplasmic reticulum stress induced by PEGylated nanogel containing gold nanoparticles. *Cancer Lett.*, **347**: 151-158. (doi: 10.1016/j.canlet.2014.02.005)
- 6) Okada, Y., Nakamura, T., Ichii, O., Otsuka, S. and Kon, Y. 2014. Pathogenetic role of an autoimmune susceptibility locus derived from MRL/MpJ strain chromosome 1 in chronic pancreas inflammation. *Lupus*, **23**: 1112-1123. (doi: 10.1177/0961203314536249)
- 7) Nakamura, T., Sakata, Y., Otsuka-Kanazawa, S., Ichii, O., Chihara, M., Nagasaki, K., Namiki, Y. and Kon, Y. 2014. Genomic analysis of the appearance of ovarian mast cells in neonatal MRL/MpJ mice. *PLOS ONE*, **9**: e100617. (doi: 10.1371/journal.pone.0100617)
- 8) Chihara, M., Nakamura, T., Sakakibara, N., Otsuka, S., Ichii, O. and Kon, Y. 2014. The onset of heat-induced testicular calcification in mice: involvement of the telomeric locus on chromosome 1. *Am. J. Pathol.*, **184**: 2480-2492. (doi: 10.1016/j.ajpath.2014.06.004)
- 9) Ichii, O., Otsuka-Kanazawa, S., Nakamura, T., Ueno, M., Kon, Y., Chen, W., Rosenberg, A. Z. and Kopp, J. B. 2014. Podocyte injury caused by indoxyl sulfate, a uremic toxin and aryl-hydrocarbon receptor ligand. *PLOS ONE*, **9**: e108448. (doi: 10.1371/journal.pone.0108448)
- 10) Kimura, J., Ichii, O., Miyazono, K., Nakamura, T., Horino, T., Otsuka-Kanazawa, S. and Kon, Y. 2014. Overexpression of Toll-like receptor 8 correlates with the progression of podocyte injury in murine autoimmune glomerulonephritis. *Sci. Rep.*, **4**: 7290. (doi: 10.1038/srep07290)
- 11) Ichii, O., Otsuka-Kanazawa, S., Horino, T., Kimura, J., Nakamura, T., Matsumoto, M., Toi, M. and Kon, Y. 2014. Decreased miR-26a expression correlates with the progression of podocyte injury in autoimmune glomerulonephritis. *PLOS ONE*, **9**: e110383. (doi: 10.1371/journal.pone.0110383)

Laboratory of Physiology

Original articles

- 1) Moustafa, A. and Habara, Y. 2014. A novel role for carbon monoxide as a potent regulator of intracellular Ca^{2+} and nitric oxide in rat pancreatic acinar cells. *Am. J. Physiol. Cell Physiol.*, **307**: C1039-C1049. (doi: 10.1152/ajpcell.00252.2014)
- 2) Moustafa, A. and Habara, Y. 2014. Hydrogen sulfide regulates Ca^{2+} homeostasis mediated by concomitantly produced nitric oxide via a novel synergistic pathway in exocrine pancreas. *Antioxid. Redox Signal.*, **20**: 747-758. (doi: 10.1089/ars.2012.5108)
- 3) Mizukawa, H., Ikenaka, Y., Nakayama, S. M. M., Sakamoto, K. Q., Fujita, S. and Ishizuka, M. 2014. Contamination status and possibility of toxic effects of co-planar polychlorinated biphenyls, polycyclic aromatic hydrocarbons, and dichlorodiphenyltrichloroethane in large Japanese field mouse (*Apodemus speciosus*) collected from Hokkaido and Aomori. *Jpn. J. Vet. Res.*, **62**: 107-115. (doi: 10.14943/jjvr.62.3.107)

Laboratory of Biochemistry

Original articles

- 1) Teramura, Y., Terao, A., Okada, Y., Tomida, J., Okamatsu-Ogura, Y. and Kimura, K. 2014. Organ-specific changes in norepinephrine turnover against various stress conditions in thermoneutral mice. *Jpn. J. Vet. Res.*, **62**: 117-127. (doi: 10.14943/jjvr.62.3.117)
- 2) Hiyoshi, H., Terao, A., Okamatsu-Ogura, Y. and Kimura, K. 2014. Characteristics of sleep and wakefulness in wild-derived inbred mice. *Exp. Anim.*, **63**: 205-213. (doi: 10.1538/expanim.63.205)
- 3) Sato, M. K., Toda, M., Inomata, N., Maruyama, H., Okamatsu-Ogura, Y., Arai, F., Ono, T., Ishijima, A. and Inoue, Y. 2014. Temperature changes in brown adipocytes detected with a bimaterial microcantilever. *Biophys. J.*, **106**: 2458-2464. (doi: 10.1016/j.bpj.2014.04.044)

Review article

- 1) Fukano, K. and Kimura, K., 2014. Measurement of enolase activity in cell lysates. In: Conceptual background and bioenergetic/mitochondrial aspects of oncometabolism. *Methods in Enzymology*, **542**: 115-124 (Chapter 6). (doi: 10.1016/B978-0-12-416618-9.00006-6)

Laboratory of Pharmacology

Original articles

- 1) Yamaguchi, S. and Ishikawa, T. 2014. AHCYL2 (long-IRBIT) as a potential regulator of the electrogenic $\text{Na}^+/\text{HCO}_3^-$ cotransporter NBCe1-B. *FEBS Lett.*, **588**: 672-677. (doi: 10.1016/j.febslet.2013.12.036)
- 2) Miyamoto, R., Otsuguro, K., Yamaguchi, S. and Ito, S. 2014. Contribution of cysteine aminotransferase and mercaptopyruvate sulfur transferase to hydrogen sulfide production in peripheral neurons. *J. Neurochem.*, **130**: 29-40. (doi: 10.1111/jnc.12698)
- 3) Yamaguchi, S., Tanimoto, A., Otsuguro, K.,

Hibino, H. and Ito, S. 2014. Negatively-charged amino acids near and in transient receptor potential (TRP) domain of TRPM4

channel are one determinant of its Ca²⁺ sensitivity. *J. Biol. Chem.*, **289**: 35265–35282. (doi: 10.1074/jbc.M114.606087)

Laboratory of Microbiology

Original articles

- 1) Abdo, W., Haridy, M., Katou, Y., Goto, M., Mizoguchi, T., Sakoda, Y., Sakai, H. and Yanai, T. 2014. Pathological and immunohistochemical findings of natural highly pathogenic avian influenza infection in tufted ducks during 2010–2011 outbreaks in Japan. *J. Vet. Med. Sci.*, **76**: 1285–1290. (doi: 10.1292/jvms.14-0084)
- 2) Chu, D. H., Sakoda, Y., Nishi, T., Hiono, T., Shichinohe, S., Okamatsu, M. and Kida, H. 2014. Potency of an inactivated influenza vaccine prepared from A/duck/Mongolia/119/2008 (H7N9) against the challenge with A/Anhui/1/2013 (H7N9). *Vaccine*, **32**: 3473–3479. (doi: 10.1016/j.vaccine.2014.04.060)
- 3) Haredy, A. M., Yamada, H., Sakoda, Y., Okamatsu, M., Yamamoto, N., Omasa, T., Mori, Y., Kida, H., Okamoto, S., Okuno, Y. and Yamanishi, K. 2014. Neuraminidase gene homology contributes to the protective activity of influenza vaccines prepared from the influenza virus library. *J. Gen. Virol.*, **95**: 2365–2371. (doi: 10.1099/vir.0.067488-0)
- 4) Hiono, T., Okamatsu, M., Nishihara, S., Takase-Yoden, S., Sakoda, Y. and Kida, H. 2014. A chicken influenza virus recognizes fucosylated alpha2,3 sialoglycan receptors on the epithelial cells lining upper respiratory tracts of chickens. *Virology*, **456–457**: 131–138. (doi: 10.1016/j.virol.2014.03.004)
- 5) Itoh, Y., Yoshida, R., Shichinohe, S., Higuchi, M., Ishigaki, H., Nakayama, M., Pham, V. L., Ishida, H., Kitano, M., Arikata, M., Kitagawa, N., Mitsuishi, Y., Ogasawara, K., Tsuchiya, H., Hiono, T., Okamatsu, M., Sakoda, Y., Kida, H., Ito, M., Quynh Mai, L., Kawaoka, Y., Miyamoto, H., Ishijima, M., Igarashi, M., Suzuki, Y. and Takada, A. 2014. Protective efficacy of passive immunization with monoclonal antibodies in animal models of H5N1 highly pathogenic avian influenza virus infection. *PLOS Pathog.*, **10**: e1004192. (doi: 10.1371/journal.ppat.1004192)
- 6) Kodama, M., Yoshida, R., Hasegawa, T., Izawa, M., Kitano, M., Baba, K., Noshi, T., Seki, T., Okazaki, K., Tsuji, M., Kanazu, T., Kamimori, H., Homma, T., Kobayashi, M., Sakoda, Y., Kida, H., Sato, A. and Yamano, Y. 2014. The relationship between in vivo antiviral activity and pharmacokinetic parameters of peramivir in influenza virus infection model in mice. *Antiviral Res.*, **109**: 110–115. (doi: 10.1016/j.antiviral.2014.06.016)
- 7) Kumagai, T., Nakayama, T., Okuno, Y., Kase, T., Nishimura, N., Ozaki, T., Miyata, A., Suzuki, E., Okafuji, T., Okafuji, T., Ochiai, H., Nagata, N., Tsutsumi, H., Okamatsu, M., Sakoda, Y., Kida, H. and Ihara, T. 2014. Humoral immune response to influenza A(H1N1)pdm2009 in patients with natural infection and in vaccine recipients in the 2009 pandemic. *Viral Immunol.*, **27**: 368–374. (doi: 10.1089/vim.2014.0010)
- 8) Maruyama, J., Miyamoto, H., Kajihara, M., Ogawa, H., Maeda, K., Sakoda, Y., Yoshida, R. and Takada, A. 2014. Characterization of the envelope glycoprotein of a novel filovirus, lloviu virus. *J. Virol.*, **88**: 99–109. (doi: 10.1128/JVI.02265-13)
- 9) Nagai, M., Aoki, H., Sakoda, Y., Kozasa, T., Tominaga-Teshima, K., Mine, J., Abe, Y., Tamura, T., Kobayashi, T., Nishine, K., Tateishi, K., Suzuki, Y., Fukuhara, M., Ohmori, K., Todaka, R., Katayama, K.,

- Mizutani, T., Nakamura, S., Kida, H. and Shirai, J. 2014. Molecular, biological, and antigenic characterization of a Border disease virus isolated from a pig during classical swine fever surveillance in Japan. *J. Vet. Diagn. Invest.*, **26**: 547–552. (doi: 10.1177/1040638714541837)
- 10) Nishi, T., Okamatsu, M., Sakurai, K., Chu, H. D., Thanh, L. P., van Nguyen, L., van Hoang, N., Thi, D. N., Sakoda, Y. and Kida, H. 2014. Genetic analysis of an H5N2 highly pathogenic avian influenza virus isolated from a chicken in a live bird market in Northern Vietnam in 2012. *J. Vet. Med. Sci.*, **76**: 85–87. (doi: 10.1292/jvms.13-0311)
- 11) Nishi, T., Sakoda, Y., Okamatsu, M. and Kida, H. 2014. Potency of an inactivated influenza vaccine prepared from A/duck/Hong Kong/960/1980 (H6N2) against a challenge with A/duck/Vietnam/OIE-0033/2012 (H6N2) in mice. *Arch. Virol.*, **159**: 2567–2574. (doi: 10.1007/s00705-014-2107-2)
- 12) Ogiwara, H., Yasui, F., Munekata, K., Takagi-Kamiya, A., Munakata, T., Nomura, N., Shibasaki, F., Kuwahara, K., Sakaguchi, N., Sakoda, Y., Kida, H. and Kohara, M. 2014. Histopathological evaluation of the diversity of cells susceptible to H5N1 virulent avian influenza virus. *Am. J. Pathol.*, **184**: 171–183. (doi: 10.1016/j.ajpath.2013.10.004)
- 13) Sakurai, A., Takayama, K., Nomura, N., Yamamoto, N., Sakoda, Y., Kobayashi, Y., Kida, H. and Shibasaki, F. 2014. Multi-colored immunochromatography using nanobeads for rapid and sensitive typing of seasonal influenza viruses. *J. Virol. Methods*, **209**: 62–68. (doi: 10.1016/j.jviromet.2014.08.025)
- 14) Tamura, T., Nagashima, N., Ruggli, N., Summerfield, A., Kida, H. and Sakoda, Y. 2014. N^{pro} of classical swine fever virus contributes to pathogenicity in pigs by preventing type I interferon induction at local replication sites. *Vet. Res.*, **45**: 47. (doi: 10.1186/1297-9716-45-47)

Laboratory of Infectious Diseases

Original articles

- 1) Ikebuchi, R., Konnai, S., Okagawa T., Yokoyama, K., Nakajima, C., Suzuki, Y., Murata, S. and Ohashi K. 2014. Influence of PD-L1 cross-linking on cell death in PD-L1-expressing cell lines and bovine lymphocytes. *Immunology*, **142**: 551–561. (doi: 10.1111/imm.12243)
- 2) Hidano, A., Konnai, S., Yamada, S., Yoshimura, H., Githaka, N., Isezaki, M., Higuchi, H., Nagahata, H., Ito, T., Takano, A., Ando, S., Kawabata, H., Murata S. and Ohashi, K. 2014. Suppressive effects of neutrophil by Salp16-like salivary gland proteins from *Ixodes persulcatus* Schulze tick. *Insect Mol. Biol.*, **23**: 466–474. (doi: 10.1111/imb.12101)
- 3) Githaka, N., Konnai, S., Bishop, R., Odongo, D., Lekool, I., Kariuki, E., Gakuya, F., Kamau, L., Isezaki, M., Murata, S. and Ohashi, K. 2014. Identification and sequence characterization of novel *Theileria* genotypes from the waterbuck (*Kobus defassa*) in a *Theileria parva*-endemic area in Kenya. *Vet. Parasitol.*, **202**: 180–193. (doi: 10.1016/j.vetpar.2014.02.056)
- 4) Maekawa, N., Konnai, S., Ikebuchi, R., Okagawa, T., Adachi, M., Takagi, S., Kagawa, Y., Nakajima, C., Suzuki, Y., Murata, S. and Ohashi, K. 2014. Expression of PD-L1 on canine tumor cells and enhancement of IFN- γ production from tumor infiltrating cells by PD-L1 blockade. *PLOS ONE*, **9**: e98415. (doi: 10.1371/journal.pone.0098415)
- 5) Ikebuchi, R., Konnai, S., Okagawa, T.,

- Nishimori, A., Nakahara, A., Murata, S. and Ohashi, K. 2014. Differences in cellular function and viral protein expression between IgM^{high} and IgM^{low} B cells in bovine leukemia virus-infected cattle. *J. Gen. Virol.*, **95**: 1832–1842. (doi: 10.1099/vir.0.065011-0)
- 6) Nishimori, A., Konnai, S., Ikebuchi, R., Okagawa, T., Nakajima, C., Suzuki, Y., Mingala, C., Murata, S. and Ohashi, K. 2014. Identification and characterization of bovine programmed death-ligand 2. *Microbiol. Immunol.*, **58**: 388–397. (doi: 10.1111/1348-0421.12160)
- 7) Matsuyama-Kato, A., Murata, S., Isezaki, M., Takasaki, S., Kano, R., Konnai, S. and Ohashi, K. 2014. Expression analysis of programmed death ligand 2 in tumors caused by the avian oncovirus Marek's disease virus. *Arch. Virol.*, **159**: 2123–2136. (doi: 10.1007/s00705-014-2021-7)
- 8) Ali, A., Tirloni, L., Isezaki, M., Seixas, A., Konnai, S., Ohashi, K., da Silva, Vaz I. Jr. and Termignoni, C. 2014. Reprolysin metalloproteases from *Ixodes persulcatus*, *Rhipicephalus sanguineus* and *Rhipicephalus microplus* ticks. *Exp. Appl. Acarol.*, **63**: 559–578. (doi: 10.1007/s10493-014-9796-9)
- 9) Sato, K., Takano, A., Konnai, S., Nakao, M., Ito, T., Koyama, K., Kaneko, M., Ohnishi, M. and Kawabata H. 2014. Human *Borrelia miyamotoi* infections in Japan. *Emerg. Infect. Dis.*, **20**: 1391–1393. (doi: 10.3201/eid2008.131761)
- 10) Lee, K., Takano, A., Kaylor, K. R., Sashika, M., Shimozuru, M., Konnai, S., Kawabata, H. and Tsubota, T. 2014. A Relapsing fever group *Borrelia* sp. similar to *Borrelia lonestari* found among wild sika deer (*Cervus nippon yesoensis*) and *Haemaphysalis* spp. ticks in Hokkaido, Japan. *Ticks Tick Borne Dis.*, **5**: 841–847. (doi: 10.1016/j.ttbdis.2014.06.006)
- 11) Takano, A., Toyomane, K., Konnai, S., Ohashi, K., Nakao, M., Ito, T., Andoh, M., Maeda, K., Watarai, M., Sato, K. and Kawabata, H. 2014. Tick surveillance for relapsing fever spirochete *Borrelia miyamotoi* in Hokkaido, Japan. *PLOS ONE*, **9**: e104532. (doi: 10.1371/journal.pone.0104532)

Laboratory of Parasitology

Original articles

- 1) Alam, M. Z., Bhutto, A. M., Soomro, F. R., Baloch, J. H., Nakao, R., Kato, H., Schonian, G., Uezato, H., Hashiguchi, Y. and Katakura, K. 2014. Population genetics of *Leishmania (Leishmania) major* DNA isolated from cutaneous leishmaniasis patients in Pakistan based on multilocus microsatellite typing. *Parasit. Vectors*, **7**: 332. (doi: 10.1186/1756-3305-7-332)
- 2) Alam, M. Z., Nakao, R., Sakurai, T., Kato, H., Qu, J. Q., Chai, J. J., Chang, K. P., Schönian, G. and Katakura, K. 2014. Genetic diversity of *Leishmania donovani/infantum* complex in China through microsatellite analysis. *Infect. Genet. Evol.*, **22**: 112–119. (doi: 10.1016/j.meegid.2014.01.019)
- 3) Bawm, S., Shimizu, K., Hirota, J., Tosa, Y., Htun, L. L., Maw, N. N., Thein, M., Kato, H., Sakurai, T. and Katakura, K. 2014. Molecular prevalence and genetic diversity of bovine *Theileria orientalis* in Myanmar. *Parasitol. Int.*, **63**: 640–645. (doi: 10.1016/j.parint.2014.04.009)
- 4) Chiba, R., Amagai, Y., Tanaka, A., Katakura, K. and Matsuda, H. 2014. Nerve growth factor promotes killing of *Leishmania donovani* by macrophages through the induction of hydrogen peroxide. *Microbes Infect.*, **16**: 702–706. (doi: 10.1016/j.micinf.2014.06.001)
- 5) Ikeda, T., Yoshimura, M., Onoyama, K., Oku, Y., Nonaka, N. and Katakura, K. 2014. Where to deliver baits for deworming urban red

- foxes for *Echinococcus multilocularis* control: new protocol for micro-habitat modeling of fox denning requirements. *Parasit. Vectors*, **7**: 357. (doi: 10.1186/1756-3305-7-357)
- 6) Mohanta, U. K., Ichikawa-Seki, M., Shoriki, T., Katakura, K. and Itagaki, T. 2014. Characteristics and molecular phylogeny of *Fasciola* flukes from Bangladesh, determined based on spermatogenesis and nuclear and mitochondrial DNA analyses. *Parasitol. Res.*, **113**: 2493–2501. (doi: 10.1007/s00436-014-3898-5)
- 7) Nzelu, C. O., Gomez, E. A., Caceres, A. G., Sakurai, T., Martini-Robles, L., Uezato, H., Mimori, T., Katakura, K., Hashiguchi, Y. and Kato, H. 2014. Development of a loop-mediated isothermal amplification method for rapid mass-screening of sand flies for *Leishmania* infection. *Acta Trop.*, **132**: 1–6. (doi: 10.1016/j.actatropica.2013.12.016)
- 8) Nzelu, C. O., Kato, H., Puplampu, N., Desewu, K., Odoom, S., Wilson, M. D., Sakurai, T., Katakura, K. and Boakye, D. A. 2014. First detection of *Leishmania tropica* DNA and *Trypanosoma* species in *Sergentomyia* sand flies (Diptera: Psychodidae) from an outbreak area of cutaneous leishmaniasis in Ghana. *PLOS Negl. Trop. Dis.*, **8**: e2630. (doi: 10.1371/journal.pntd.0002630)
- 9) Calvopiña, M., Romero, D., Kato, H. and Hashiguchi, Y. 2014. Cutaneous sporotrichoid lesion in a patient from a subtropical region of Ecuador. *Enferm. Infecc. Microbiol. Clin.*, **32**: 465–466. (doi: 10.1016/j.eimc.2014.02.007)
- 10) Locatelli, F. M., Cajal, S. P., Barroso, P. A., Lauthier, J. J., Mora, M. C., Juarez, M., Kato, H., Nasser, J. R., Hashiguchi, Y., Korenaga, M. and Marco, J. D. 2014. The isolation and molecular characterization of *Leishmania* spp. from patients with American tegumentary leishmaniasis in northwest Argentina. *Acta Trop.*, **131**: 16–21. (doi: 10.1016/j.actatropica.2013.11.015)
- 11) Hashiguchi, K., Velez, L. N., Kato, H., Criollo, H. F., Romero, D. A., Gomez, E. L., Martini, L. R., Zambrano, F. C., Calvopina, M. H., Caceres, A. G. and Hashiguchi, Y. 2014. Sand fly fauna (Diptera, Psychodidae, Phlebotominae) in different leishmaniasis-endemic areas of Ecuador, surveyed by using a newly named mini-Shannon trap. *Trop. Med. Health.*, **42**: 163–170. (doi: 10.2149/tmh.2014-20)
- 12) Daly, K., De Lima, H., Kato, H., Sordillo, E. M., Convit, J., Reyes-Jaimes, O., Zerpa, O. and Paniz-Mondolfi, A. E. 2014. Intermediate cutaneous leishmaniasis caused by *Leishmania (Viannia) braziliensis* successfully treated with fluconazole. *Clin. Exp. Dermatol.*, **39**: 708–712. (doi: 10.1111/ced.12359)
- 13) Gomez, E. A., Kato, H. and Hashiguchi, Y. 2014. Man-biting sand fly species and natural infection with the *Leishmania* promastigote in leishmaniasis-endemic areas of Ecuador. *Acta Trop.*, **140**: 41–49. (doi: 10.1016/j.actatropica.2014.07.003)
- 14) Gomez, E. A., Kato, H., Mimori, T. and Hashiguchi, Y. 2014. Distribution of *Lutzomyia ayacuchensis*, the vector of Andean-type cutaneous leishmaniasis, at different altitudes on the Andean slope of Ecuador. *Acta Trop.*, **137**: 118–122. (doi: 10.1016/j.actatropica.2014.05.006)

Laboratory Animal Science and Medicine

Original articles

- 1) Asano, A., Torigoe, D., Sasaki, N. and Agui, T. 2014. Development of a sensitive ELISA using a recombinant P46-like lipoprotein for diagnosis of *Mycoplasma pulmonis* infection in rodents. *J. Vet. Med. Sci.*, **76**: 151–157. (doi: 10.1292/jvms.13-0308)

- 2) Sasaki, H., Sasaki, N., Nishino, T., Nagasaki, K., Kitamura, H., Torigoe, D. and Agui, T. 2014. Quantitative trait loci for resistance to the congenital nephropathy in tensin 2-deficient mice. *PLOS ONE*, **9**: e99602. (doi: 10.1371/journal.pone.0099602)

Laboratory of Veterinary Internal Medicine

Original articles

- 1) Ohta, H., Takada, K., Sunden, T., Tamura, Y., Osuga, T., Lim, S. Y., Murakami, M., Sasaki, N., Rajaparkshage B. K. W., Nakamura, K., Yamasaki, M. and Takiguchi, M. 2014. CD4⁺ T cell cytokine gene and protein expression in duodenal mucosa of dogs with inflammatory bowel disease. *J. Vet. Med. Sci.*, **76**: 409–414. (doi: 10.1292/jvms.13-0008)
- 2) Lim, S. Y., Nakamura, K., Morishita, K., Sasaki, N., Murakami, M., Osuga, T., Ohta, H., Yamasaki, M. and Takiguchi, M. 2014. Qualitative and quantitative contrast-enhanced ultrasonographic assessment of cerulein-induced acute pancreatitis in dogs. *J. Vet. Intern. Med.*, **28**: 496–503. (doi: 10.1111/jvim.12319)
- 3) Sasaki, N., Kudo, N., Nakamura, K., Lim, S. Y., Murakami, M., Bandula Kumara, W. R., Tamura, Y., Ohta, H., Yamasaki, M. and Takiguchi, M. 2014. Ultrasound image-guided therapy enhances antitumor effect of cisplatin. *J. Med. Ultrasonics*, **41**: 11–21. (10.1007/s10396-013-0475-y)
- 4) Yamano, K., Kouguchi, H., Uruguchi, K., Mukai, T., Shibata, C., Yamamoto, H., Takaesu, N., Ito, M., Makino, Y., Takiguchi, M. and Yagi, K. 2014. First detection of *Echinococcus multilocularis* infection in two species of nonhuman primates raised in a zoo: a fatal case in *Cercopithecus diana* and a strongly suspected case of spontaneous recovery in *Macaca nigra*. *Parasitol. Int.*, **63**: 621–626. (doi: 10.1016/j.parint.2014.04.006)
- 5) Ohta, H., Sunden, T., Yokoyama, N., Tamura, Y., Osuga, T., Lim, S. Y., Nakamura, K., Yamasaki, M. and Takiguchi, M. 2014. Expression of apical junction complex proteins in duodenal mucosa of dogs with inflammatory bowel disease. *Am. J. Vet. Res.*, **75**: 746–751. (doi: 10.2460/ajvr.75.8.746)
- 6) Tamura, Y., Ohta, H., Kashiide, T., Matsumoto, J., Sakurai, T., Yokoyama, N., Morishita, K., Nakamura, K., Yamasaki, M. and Takiguchi, M. 2014. Case Report: protein-losing enteropathy caused by *Mesocestoides vogae* (syn. *M. corti*) in a dog. *Vet. Parasitol.*, **205**: 412–415. (doi: 10.1016/j.vetpar.2014.07.027)
- 7) Tamura, Y., Ohta, H., Yokoyama, N., Lim, S. Y., Osuga, T., Morishita, K., Nakamura, K., Yamasaki, M. and Takiguchi, M. 2014. Evaluation of selected cytokine gene expression in colonic mucosa from dogs with idiopathic lymphocytic-plasmacytic colitis. *J. Vet. Med. Sci.*, **76**: 1407–1410. (doi: 10.1292/jvms.13-0635)
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- 9) Nakamura, K., Osuga, T., Morishita, K., Suzuki, S., Morita, T., Yokoyama, N., Ohta, H., Yamasaki, M. and Takiguchi, M. 2014. Prognostic value of left atrial function in dogs with chronic mitral valvular heart disease. *J. Vet. Intern. Med.*, **28**: 1746–1752. (doi: 10.1111/jvim.12441)
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Laboratory of Comparative Pathology

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Laboratory of Theriogenology

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- 5) Okuyama, M. W., Shimozuru, M., Yanagawa, Y. and Tsubota, T. 2014. Changes in the immunolocalization of steroidogenic enzymes and the androgen receptor in raccoon (*Procyon lotor*) testes in association with the seasons and spermatogenesis. *J. Reprod. Dev.* **60**: 155–161. (doi: 10.1262/jrd.2013-122)
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Laboratory of Molecular Medicine

Original article

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Laboratory of Public Health

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Laboratory of Radiation Biology

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Laboratory of Toxicology

Original articles

- 1) Ishii, C., Ikenaka, Y., Nakayama S. M. M., Suzuki, Y., Watanuki, Y., Watanabe, Y., Yohannes, Y. B., Mizukawa, H. and Ishizuka, M. 2014. Contamination status and accumulation characteristics of metals and a metalloid in birds on Teuri Island, Hokkaido, Japan. *Jpn. J. Vet. Res.*, **62**: 143-149. (doi: 10.14943/jjvr.62.3.143)
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Laboratory of Wildlife Biology and Medicine

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- 2) Okuyama, M. W., Shimozuru, M. and Tsubota, T. 2014. A genetic method for sex identification of raccoons (*Procyon lotor*) with using the ZFX and ZFY genes. *J. Vet. Med. Sci.*, **76**: 773–775. (doi: 10.1292/jvms.13-0577)
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Laboratory of Veterinary Hygiene

Original articles

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- 4) Hirano, M., Yoshii, K., Sakai, M., Hasebe, R. and Kariwa, H. 2014. Tick-borne flaviviruses alter membrane structure and replicate in dendrites of primary mouse neuronal cultures. *J. Gen. Virol.*, **85**: 849–861. (doi: 10.1099/vir.0.061432-0)
- 5) Kobayashi, S., Orba, Y., Yamaguchi, H., Takahashi, K., Sasaki, M., Hasebe, R., Kimura, T. and Sawa, H. 2014. Autophagy inhibits viral genome replication and gene expression stages in West Nile virus infection. *Virus Res.*, **191**: 83–91. (doi: 10.1016/j.virusres.2014.07.016)
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Laboratory of Veterinary Teaching Hospital

Original articles

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- 6) Ohta, H., Sunden, Y., Yokoyama, N., Osuga, T., Lim, S. Y., Tamura, Y., Morishita, K., Nakamura, K., Yamasaki, M. and Takiguchi, M. 2014. Expression of apical junction complex proteins in duodenal mucosa of dogs with inflammatory bowel disease. *Am. J. Vet. Res.*, **75**: 746–751. (doi: 10.2460/ajvr.75.8.746)
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Division of Collaboration and Education

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Division of Bioinformatics

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