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PUBLICATIONS BY THE STAFF OF THE GRADUATE SCHOOL OF VETERINARY MEDICINE

Laboratory of Anatomy

Original articles

- 1) Nishino, T., Sasaki, N., Nagasaki, K., Ichii, O., Kon, Y. and Agui, T. 2012. The 129 genetic background affects susceptibility to glomerulosclerosis in tensin2-deficient mice. *Biomed. Res.*, **33**: 53-56.
- 2) Nishino, T., Sasaki, N., Chihara, M., Nagasaki, K., Torigoe, D., Kon, Y. and Agui, T. 2012. Distinct distribution of the tensin family in the mouse kidney and small intestine. *Exp. Anim.*, **61**: 525-532.
- 3) Otsuka, S., Ichii, O., Namiki, Y., Sasaki, N., Hashimoto, Y. and Kon, Y. 2012. Genomic analysis of the appearance of testicular oocytes in MRL/MpJ mice. *Mamm. Genome*, **23**: 741-748.
- 4) Matsuyama-Kato, A., Murata, S., Isezaki, M., Kano, R., Takasaki, S., Ichii, O., Konnai, S. and Ohashi, K. 2012. Molecular characterization of immunoinhibitory factors PD-1/PD-L1 in chickens infected with Marek's disease virus. *Viol. J.*, **9**: 94. (doi: 10.1186/1743-422X-9-94)
- 5) Naganuma, Y., Ichii, O., Otsuka, S., Hashimoto, Y. and Kon, Y. 2012. Analysis of TdT-mediated dUTP nick end labeling (TUNEL)-positive cells associated with cardiac myogenesis in mouse embryo. *J. Vet. Med. Sci.*, (Epub ahead of print). (doi: org/10.1292/jvms.12-0339)
- 6) Yoshii, K., Igarashi, M., Ichii, O., Yokozawa, K., Ito, K., Kariwa, H. and Takashima, I. 2012. A conserved region in the prM protein is a critical determinant in the assembly of flavivirus particles. *J. Gen. Virol.*, **93**: 27-38.

Publications other than original articles

- 1) Ichii, O. 2012. Veterinary Anatomy, Chapter 10, Urinary organ. In: Veterinary Anatomy Histology Embryology, 1th ed., pp.129-138, (Japanese Association of Veterinary Anatomists ed.), Gakusosha, Tokyo. (in Japanese).
- 2) Otsuka, S. 2012. Veterinary Histology, Chapter 12, Urinary organ. In: Veterinary Anatomy Histology Embryology, 1th ed., pp.401-412, (Japanese Association of Veterinary Anatomists ed.), Gakusosha, Tokyo. (in Japanese).

Laboratory of Physiology

Original articles

- 1) Yano, S., Sakamoto, K. Q. and Habara, Y. 2012. Estrus cycle-related preference of BALB/c female mice for C57BL/6 males is induced by estrogen. *J. Vet. Med. Sci.*, **10**: 1311-1314.
- 2) Fuse Y. K., Sakamoto, K. Q., Sato, K. and Habara, Y. 2012. Cardiorespiratory pattern of rest-associated apnea in a Weddell seal: a case study at an ice hole in Antarctica. *Polar Biol.*, **35**: 969-972.
- 3) Crossin, G. T., Trathan, P. N., Phillips, R. A., Gorman, K. B., Dawson, A., Sakamoto, K. Q. and Williams, T. D. 2012. Corticosterone predicts foraging behavior and parental care in macaroni penguins. *Am. Nat.*, **180**: E31-41.

- 4) Iwata, T., Sakamoto, K. Q., Takahashi, A., Edwards, E. W. J., Staniland, I. J., Trathan, P. N. and Naito, Y. 2012. Using a mandible

accelerometer to study fine-scale foraging behavior of free-ranging Antarctic fur seals. *Mar. Mammal Sci.*, **28**: 345–357.

Publication other than original articles

- 1) Sakamoto, K. Q. and Watanabe, S. 2012. Animal behaviour study with accelerometer.

Milsil, **5**: 14–16. (in Japanese).

Laboratory of Biochemistry

Original articles

- 1) Shimada, K., Ohno, Y., Okamatsu-Ogura, Y., Suzuki, M., Kamikawa, A., Terao, A. and Kimura, K. 2012. Neuropeptide Y activates phosphorylation of ERK and STAT3 in stromal vascular cells from brown adipose tissue, but fails to affect thermogenic function of brown adipocytes. *Peptides*, **34**: 336–342.
- 2) Ishii, T., Fukano, K., Shimada, K., Kamikawa, A., Okamatsu-Ogura, Y., Terao, A., Yoshida, T., Saito, M. and Kimura, K. 2012. Proinsulin C-peptide activates α -enolase activity:

Implications for C-peptide—cell membrane interaction. *J. Biochem.*, **152**: 53–62. (doi: 10.1093/jb/mvs052)

- 3) Watanabe, A., Hirota, J., Shimizu, S., Inumaru, S. and Kimura, K. 2012. Single intramammary infusion of recombinant bovine interleukin-8 at dry-off induces the prolonged secretion of leukocyte elastase, inflammatory lactoferrin-derived peptides, and interleukin-8 in dairy cows. *Vet. Med. Int.*, (doi: 10.1155/2012/172072)

Laboratory of Pharmacology

Original article

- 1) Kawamoto, K., Otsuguro, K., Ishizuka, M. and Ito, S. 2012. Inhibitory effects of dopamine on spinal synaptic transmission

via dopamine D1-like receptors in neonatal rats. *Br. J. Pharmacol.*, **166**: 788–800.

Publication other than original article

- 1) Ito, S. 2012. Cooperative veterinary Educations with Hokkaido University and Obihiro University of Agriculture and Veterinary

Medicine. *J. Jpn. Vet. Med. Assoc.*, **65**: 245–248. (in Japanese).

Laboratory of Microbiology

Original articles

- 1) Nomura, N., Sakoda, Y., Endo, M., Yoshida, H., Yamamoto, N., Okamatsu, M., Sakurai, K.,

Hoang, N. V., Nguyen, L. V., Chu, H. D., Tien, T. N. and Kida, H. 2012. Characterization

- of avian influenza viruses isolated from domestic ducks in Vietnam in 2009 and 2010. *Arch. Virol.*, **157**: 247–257.
- 2) Nomura, N., Sakoda, Y., Soda, K., Okamatsu, M. and Kida, H. 2012. An H9N2 influenza virus vaccine prepared from a non-pathogenic isolate from a migratory duck confers protective immunity in mice against challenge with an H9N2 virus isolated from a girl in Hong Kong. *J. Vet. Med. Sci.*, **74**: 441–447.
 - 3) Sakoda, Y., Ito, H., Uchida, Y., Okamatsu, M., Yamamoto, N., Soda, K., Nomura, N., Kuribayashi, S., Shichinohe, S., Sunden, Y., Umemura, T., Usui, T., Ozaki, H., Yamaguchi, T., Murase, T., Ito, T., Saito, T., Takada, A. and Kida, H. 2012. Reintroduction of H5N1 highly pathogenic avian influenza virus by migratory water birds, causing poultry outbreaks in 2010–2011 winter season in Japan. *J. Gen. Virol.*, **93**: 541–550.
 - 4) Liniger, M., Moulin, H. R., Sakoda, Y., Ruggli, N. and Summerfield, A. 2012. Highly pathogenic avian influenza virus H5N1 controls type I IFN induction in chicken macrophage HD-11 cells: a polygenic trait that involves NS1 and the polymerase complex. *Virol. J.*, **9**: 7.
 - 5) Arikata, M., Itoh, Y., Okamatsu, M., Maeda, T., Shiina, T., Tanaka, K., Suzuki, S., Nakayama, M., Sakoda, Y., Ishigaki, H., Takada, A., Ishida, H., Soda, K., Pham, V. L., Tsuchiya, H., Nakamura, S., Torii, R., Shimizu, T., Inoko, H., Ohkubo, I., Kida, H. and Ogasawara, K. 2012. Memory Immune Responses against Pandemic (H1N1) 2009 Influenza Virus Induced by a Whole Particle Vaccine in Cynomolgus Monkeys Carrying Mafa-A1*052ratio02. *PLoS ONE*, **7**: e37220.
 - 6) Sakoda, Y., Okamatsu, M., Isoda, N., Yamamoto, N., Ozaki, K., Umeda, Y., Aoyama, S. and Kida, H. 2012. Purification of human and avian influenza viruses using cellulose sulfate ester (Cellufine Sulfate) in the process of vaccine production. *Microbiol. Immunol.*, **56**: 490–495.
 - 7) Sakoda, Y., Naito, M., Ito, M., Ito, Y., Isoda, N., Tanaka, T., Umemura, T. and Kida, H. 2012. Recovery of leptospires from miniature pigs experimentally infected with *Leptospira interrogans* serovar Manilae strain UP-MMC under immunosuppressive conditions by dexamethasone. *J. Vet. Med. Sci.*, **74**: 955–958.
 - 8) Tamura, T., Sakoda, Y., Yoshino, F., Nomura, T., Yamamoto, N., Sato, Y., Okamatsu, M., Ruggli, N. and Kida, H. 2012. Selection of classical swine fever virus with enhanced pathogenicity reveals synergistic virulence determinants in E2 and NS4B. *J. Virol.*, **86**: 8602–8613.
 - 9) Isoda, N., Tsuda, Y., Asakura, S., Okamatsu, M., Sakoda, Y. and Kida, H. 2012. The nucleoprotein is responsible for intracerebral pathogenicity of A/duck/Mongolia/47/2001 (H7N1) in chicks. *Arch. Virol.*, **12**: 2257–2264.
 - 10) Sakoda, Y., Wakamoto, H., Tamura, T., Nomura, T., Naito, M., Aoki, H., Morita, H., Kida, H. and Fukusho, A. 2012. Development and evaluation of indirect enzyme-linked immunosorbent assay for a screening test to detect antibodies against classical swine fever virus. *Jpn. J. Vet. Res.*, **60**: 85–94.
 - 11) Yamada, S., Shinya, K., Takada, A., Ito, T., Suzuki, T., Suzuki, Y., Le, Q. M., Ebina, M., Kasai, N., Kida, H., Horimoto, T., Rivaller, P., Chen, L. M., Donis, R. O. and Kawaoka, Y. 2012. Adaptation of a duck influenza A virus in quail. *J. Virol.*, **86**: 1411–1420.
 - 12) Sato, K., Iwai, A., Nakayama, Y., Morimoto, J., Takada, A., Maruyama, M., Kida, H., Uede, T. and Miyazaki, T. 2012. Osteopontin is critical to determine symptom severity of influenza through the regulation of NK cell population. *Biochem. Biophys. Res. Commun.*, **417**: 274–279.
 - 13) Sakoda, Y., Endo, M., Sato, Y., Okamatsu, M. and Kida, H. 2012. Effects of disinfectant containing glutaraldehyde against avian influenza virus. *J. Jpn. Vet. Med. Assoc.*, **65**:

303–305. (in Japanese).

Publications other than original articles

- 1) Kida, H., Shichinohe, S. 2012. Review of swine influenza. *Youton no Tomo*, **515**: 14–16. (in Japanese).
- 2) Kida, H. 2012. Can H5N1 highly pathogenic avian influenza viruses cause pandemic influenza? *Influenza*. **13**: 32–33. (in Japanese).
- 3) Kida, H. 2012. Future of highly pathogenic avian influenza. *Up-to-date knowledge of influenza Q & A 2012*: 180–183. (in Japanese).
- 4) Kida, H. 2012. Influenza is a zoonosis. *Clinical Microbiology*. **39**: 267–273. (in Japanese).
- 5) Yamamoto, N., Sakoda, Y. 2012. Genetic and antigenic characterization of H5N1 influenza viruses isolated in 2010–2011 winter season in Japan. *Journal of Veterinary Medicine*, **65**: 901–905. (in Japanese).

Laboratory of Infectious Diseases

Original articles

- 1) Githaka, N., Konnai, S., Kariuki, E., Kanduma, E., Murata, S. and Ohashi, K. 2012. Molecular detection of new *Babesia* and *Theileria* species/variants in wild felids from Kenya. *Acta Tropica*, **124**: 71–78.
- 2) Suzuki, S., Konnai, S., Okagawa, T., Githaka, N., Kariuki, E., Gakuya, F., Kanduma, E., Shirai, T., Ikebuchi, R., Ikenaka, Y., Ishizuka, M., Murata, S. and Ohashi, K. 2012. Molecular cloning and characterization of Th1 and Th2 cytokines of African buffalo (*Syncerus caffer*). *Int. J. Immunogenet.*, **39**: 170–182.
- 3) Takano, A., Sugimori, C., Fujita, H., Kadosaka, T., Taylor, K. R., Tsubota, T., Konnai, S., Tajima, T., Sato, K., Watanabe, H., Ohnishi, M. and Kawabata, H. 2012. A novel relapsing fever *Borrelia* sp. infects the salivary glands of the molted hard tick, *Amblyomma geoemydae*. *Ticks Tick Borne Dis.*, **3**: 259–261.
- 4) Matsuyama-Kato, A., Murata, S., Isezaki, M., Kano, R., Takasaki, S., Ichii, O., Konnai, S. and Ohashi, K. 2012. Molecular characterization of immunoinhibitory factors PD-1/PD-L1 in chickens infected with Marek's disease virus. *Virology*, **9**: 94.
- 5) Okagawa, T., Konnai, S., Mekata, H., Githaka, N., Suzuki, S., Kariuki, E., Gakuya, F., Kanduma, E., Shirai, T., Ikebuchi, R., Ikenaka, Y., Ishizuka, M., Murata, S. and Ohashi, K. 2012. Transcriptional profiling of inflammatory cytokine genes in *Theileria parva*-infected African buffalo (*Syncerus caffer*). *Vet. Immunol. Immunopathol.*, **148**: 373–279.
- 6) Kohara, J., Nishikura, Y., Konnai, S., Tajima, M. and Onuma, M. 2012. Effects of interferon tau on cattle persistently infected with bovine viral diarrhea virus. *Jpn. J. Vet. Res.*, **60**: 63–70.
- 7) Okagawa, T., Konnai, S., Ikebuchi, R., Suzuki, S., Shirai, T., Sunden, Y., Onuma M., Murata, S. and Ohashi, K. 2012. Increased bovine Tim-3 and its ligand expressions during bovine leukemia virus infection. *Vet. Res.*, **43**: 45.
- 8) Konnai, S., Yamada, S., Imamura, S., Nishikado, H., Githaka, W. N., Ito, T., Takano, A., Kawabata, H., Murata, S. and Ohashi, K. 2012. Identification of TROSPA homologue in *Ixodes persulcatus*, Schulze, the specific vector for human Lyme borreliosis in Japan. *Ticks Tick Borne Dis.*, **3**: 75–77.
- 9) Ikenaka, Y., Nakayama, S. M., Muroya, T., Yabe, J., Konnai, S., Darwish, W. S.,

- Muzandu, K., Choongo, K., Mainda, G., Teraoka, H., Umemura, T. and Ishizuka, M. 2012. Effects of environmental lead contamination on cattle in a lead/zinc mining area: Changes in cattle immune systems on exposure to lead *in vivo* and *in vitro*. *Environ. Toxicol. Chem.*, **31**: 2300–2305.
- 10) Mekata, H., Konnai, S., Mingala, C. N., Abes, N. S., Gutierrez, A., Dargantes, A. P., Witola, W. H., Inoue, N., Onuma, M., Murata, S. and Ohashi, K. 2012. Kinetics of regulatory dendritic cells in inflammatory responses during *Trypanosoma evansi* infection. *Parasite Immunol.*, **34**: 318–329.
- 11) Parizi, L. F., Githaka, N. W., Logullo, C., Konnai, S., Masuda, A., Ohashi, K. and da Silva, Vaz, Jr. I. 2012. The quest for a universal vaccine against ticks: Cross-immunity insights. *Vet. J.*, **194**: 158–165.

Publications other than original articles

- 1) Ohashi, K., Murata, S. and Konnai, S. 2012. Basic immunology of infectious diseases (What's immunology). *Journal of Clinical Veterinary Medicine*, **8**: 60–62. (in Japanese).
- 2) Murata, S., Konnai, S. and Ohashi, K. 2012. Basic immunology of infectious diseases (Humoral immunity). *Journal of Clinical Veterinary Medicine*, **9**: 60–62. (in Japanese).
- 3) Konnai, S., Murata, S. and Ohashi, K. 2012. Basic immunology of infectious diseases (Cellular immunity). *Journal of Clinical Veterinary Medicine*, **10**: 42–44. (in Japanese).
- 4) Ohashi, K., Murata, S. and Konnai, S. 2012. Basic immunology of infectious diseases (Recent topics in veterinary immunology). *Journal of Clinical Veterinary Medicine*, **11**: 50–52. (in Japanese).
- 5) Konnai, S. 2012. Control strategies of bovine leukemia. *Journal of Clinical Veterinary Medicine*, **6**: 44–49. (in Japanese).
- 6) Konnai, S., Murata, S. and Ohashi, K. 2012. Increasing bovine leukemia and its control measures in Hokkaido. *J. Hokkaido Vet. Med. Assoc.*, **56**: 1–7. (in Japanese).
- 7) Konnai, S. 2012. Control measures of bovine leukemia virus infection in large dairy herd. *Dairy journal*, **4**: 15–18. (in Japanese).

Laboratory of Parasitology

Original articles

- 1) Tiwananthagorn, S., Iwabuchi, K., Ato, M., Sakurai, T., Kato, H. and Katakura, K. 2012. Involvement of CD4⁺ Foxp3⁺ regulatory T cells in persistence of *Leishmania donovani* in the liver of alymphoplastic *aly/aly* mice. *PLoS. Negl. Trop. Dis.*, **6**: e1798.
- 2) Ishimaru, Y., Gomez, E. A., Zhang, F., Martini-Robles, L., Iwata, H., Sakurai, T., Katakura, K., Hashiguchi, Y. and Kato, H. 2012. Dimiconin, a novel coagulation inhibitor from the kissing bug, *Triatoma dimidiata*, a vector of Chagas disease. *J. Exp. Biol.*, **215**: 3597–3602.
- 3) Alam, M. S., Kato, H., Fukushima, M., Wagatsuma, Y. and Itoh, M. 2012. Application of RFLP-PCR based identification for sand fly surveillance in an area endemic for kala-azar in Mymensingh, Bangladesh. *J. Parasitol. Res.*, **2012**: 467821.
- 4) Fujita, M., Kato, H., Cáceres, A. G., Gomez, E. A., Velez, L., Mimori, T., Zhang, F., Iwata, H., Korenaga, M., Sakurai, T., Katakura, K. and Hashiguchi, Y. 2012. Genotyping of sand fly species in Peruvian Andes where leishmaniasis is endemic. *Acta Trop.*, **121**: 93–98.
- 5) Nyunt, K. S., Elkateeb, A., Tosa, Y., Nabeta, K., Katakura, K. and Matsuura, H. 2012.

- Isolation of antitrypanosomal compounds from *Vitis repens*, a medicinal plant of Myanmar. *Nat. Prod. Commun.*, **7**: 609–610.
- 6) Elkhateeb, A., Tosa, Y., Matsuura, H., Nabeta, K. and Katakura, K. 2012. Antitrypanosomal activities of acetylated bruceines A and C; a structure-activity relationship study. *J. Nat. Med.*, **66**: 233–240.
 - 7) Tiwananthagorn, S., Bhutto, A. M., Baloch, J. H., Soomro, F. R., Kawamura, Y., Nakao, R., Aoshima, K., Nonaka, N., Oku, Y. and Katakura, K. 2012. Zoophilic feeding behaviour of phlebotomine sand flies in the endemic areas of cutaneous leishmaniasis of Sindh Province, Pakistan. *Parasitol. Res.*, **111**: 125–133.
 - 8) Doi, J., Hirota, J., Morita, A., Fukushima, K., Kamijyo, H., Ohta, H., Yamasaki, M., Takahashi, T., Katakura, K. and Oku, Y. 2012. Intestinal *Tritrichomonas suis* (= *T. foetus*) infection in Japanese cats. *J. Vet. Med. Sci.*, **74**: 413–417.

Publications other than original articles

- 1) Mimori, T., Aso, T., Kato, H., Gomez, E. A. and Hashiguchi, Y. 2012. Material collection methods, using skin biopsy punch, syringe, cotton swab and FTA card from lesions of cutaneous of leishmaniasis patients. Materials and Methods in Parasitology, p25–28. (in Japanese).
- 2) Kato, H., Gomez, E. A., Cáceres, A. G. and Hashiguchi, Y. 2012. Natural infections of man-biting sand flies by *Leishmania* and *Trypanosoma* species in the northern Peruvian Andes. *Jpn. J. Vet. Parasitol.*, **10**: 51.

Laboratory of Laboratory Animal Science and Medicine

Original articles

- 1) Dang, R., Sasaki, N., Torigoe, D. and Agui, T. 2012. Anatomic modifications in the enteric nervous system of JF1 mice with the classic piebald mutation. *J. Vet. Med. Sci.*, **74**: 391–394.
- 2) Nishino, T., Sasaki, N., Nagasaki, K., Ichii, O., Kon, Y. and Agui, T. 2012. The 129 genetic background affects susceptibility to glomerulosclerosis in tensin2-deficient mice. *Biomed. Res.*, **33**: 53–56.
- 3) Hosoda, Y., Sasaki, N., Kameda, Y., Torigoe, D. and Agui, T. 2012. Identifying quantitative trait loci affecting resistance to congenital hypothyroidism in 129^{+Ter}/SvJcl strain mice. *PLoS ONE* **7**: e31035.
- 4) Nishino, T., Sasaki, N., Chihara, M., Nagasaki, K., Torigoe, D., Kon, Y. and Agui, T. 2012. Distinct distribution of the tensin family in the mouse kidney and small intestine. *Exp. Anim.*, **61**: 525–532.
- 5) Dang, R., Sasaki, N., Nishino, T., Nakanishi, M., Torigoe, D. and Agui, T. 2012. Lymphopenia in *Ednrb*-deficient rat was strongly modified by genetic background. *Biomed. Res.*, **33**: 249–253.
- 6) Tag-El-Din-Hassan, H. T., Sasaki, N., Moritoh, K., Torigoe, D., Maeda, A. and Agui, T. 2012. The chicken 2'-5' oligoadenylate synthetase A inhibits the replication of West Nile Virus. *Jpn. J. Vet. Res.*, **60**: 95–103.

Laboratory of Veterinary Internal Medicine

Original articles

- 1) Wickramasekara Rajapakshage, B. K., Yamasaki, M., Hwang, S. J., Sasaki, N.,

- Murakami, M., Tamura, Y., Lim, S. Y., Nakamura, K., Ohta, H. and Takiguchi, M. 2012. Involvement of mitochondrial genes of *Babesia gibsoni* in resistance to diminazene aceturate. *J. Vet. Med. Sci.*, **74**: 1139–1148.
- 2) Wickramasekara Rajapakshage, B. K., Yamasaki, M., Murakami, M., Tamura, Y., Lim, S. Y., Osuga, T., Sasaki, N., Nakamura, K., Ohta, H. and Takiguchi, M. 2012. Analysis of energy generation and glycolysis pathway in diminazene aceturate-resistant *Babesia gibsoni* isolate in vitro. *Jpn. J. Vet. Res.*, **60**: 51–61.
 - 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. 2012. Activation of microbubbles by short-pulsed ultrasound enhances the cytotoxic effect of cis-diamminedichloroplatinum (II) in a canine thyroid adenocarcinoma cell line *in vitro*. *Ultrasound Med. Biol.*, **38**: 109–118.
 - 4) Nakamura, K., Yamasaki, M., Osaki, T., Sasaki, N., Aoshima, K., Kimura, T. and Takiguchi, M. 2012. Bilateral segmental aplasia with unilateral uterine horn torsion in a Pomeranian bitch. *J. Am. Anim. Hosp. Assoc.*, **48**: 327–330.
 - 5) Murakami, M., Zhao, S., Zhao, Y., Chowdhury, N.F., Yu, W., Nishijima, K., Takiguchi, M., Tamaki, N. and Kuge, Y. 2012. Evaluation of changes in the tumor microenvironment after sorafenib therapy by sequential histology and 18F-fluoromisonidazole hypoxia imaging in renal cell carcinoma. *Int. J. Oncol.*, **41**: 1593–1600.

Publications other than original articles

- 1) Takiguchi, M. 2012. Upskillig for Ultrasonographic interpretation. Adrenal glands. *SA Medicine* **14**: 68–73.
- 2) Takiguchi, M. 2012. Upskillig for Ultrasonographic interpretation. Thyloid and Parathyloid glands. *SA Medicine* **14**: 81–87.

Laboratory of Veterinary Surgery

Original articles

- 1) Osaki, T., Takagi, S., Hoshino, Y., Aoki, Y., Sunden, Y., Ochiai, K. and Okumura, M. 2012. Temporary regression of locally invasive polypoid rhinosinusitis in a dog after photodynamic therapy. *Aust. Vet. J.*, **90**: 442–447.
- 2) Edamura, K., King, J. N., Seewald, W., Sakakibara, N. and Okumura, M. 2012. Comparison of oral robenacoxib and carprofen for the treatment of osteoarthritis in dogs: a randomized clinical trial. *J. Vet. Med. Sci.*, **74**: 1121–1131.
- 3) Sano, T., King, J. N., Seewald, W., Sakakibara, N. and Okumura, M. 2012. Comparison of oral robenacoxib and ketoprofen for the treatment of acute pain and inflammation associated with musculoskeletal disorders in cats: a randomised clinical trial. *Vet. J.*, **193**: 397–403.
- 4) Sunaga, T., Oh, N., Hosoya, K., Takagi, S. and Okumura, M. 2012. Pro-apoptotic effects of tepoxalin, a cyclooxygenase/lipoxygenase dual inhibitor, on canine synovial fibroblasts. *J. Vet. Med. Sci.*, **74**: 745–750.
- 5) Sunaga, T., Oh, N., Hosoya, K., Takagi, S. and Okumura, M. 2012. Inhibitory effects of pentosan polysulfate sodium on MAP-kinase pathway and NF- κ B nuclear translocation in canine chondrocytes in vitro. *J. Vet. Med. Sci.*, **74**: 707–711.
- 6) Yamazaki, H., Takagi, S., Ogi, N., Hosoya, K. and Okumura, M. 2012. Urethral dilation using balloon catheters for uroschisis caused by urine based tumors in four dogs (in

Japanese). *Journal of Japanese Veterinary Medical Association*. **65**: 530–533.

- 7) Marin, L. M., Iazbik, M. C., Zaldivar-Lopez, S., Lord, L. K., Stingle, N., Vilar, P., Lara-Garcia, A., Alvarez, F., Hosoya, K., Nelson, L., Pozzi, A., Cooper, E., Kisseberth, W., London, C. A., Dudley, R., Dyce, J., McMahon,

M., Lerche, P., Bednarski, R. and Couto, C. G. 2012. Retrospective evaluation of the effectiveness of epsilon aminocaproic acid for the prevention of postamputation bleeding in retired racing Greyhounds with appendicular bone tumors: 46 cases (2003–2008). *J. Vet. Emerg. Crit. Care*, **22**: 332–340.

Other than original articles

- 1) Okumura, M. 2012. Retrospective case-control study of the effects of long-term dosing with meloxicam on renal function in aged cats with degenerative joint disease. *Information for Veterinarian*. **15(3)**: 43–50. (Japanese Translation).
- 2) Okumura, M. 2012. Carpal fracture in a cat; diagnosis and partial arthrodesis. *Information for Veterinarian*. **15(4)**: 26–28. (in Japanese).
- 3) Okumura, M. 2012. Radial and ulnar fracture in small dogs: How would you treat? *Information for Veterinarian*. **15(5)**: 23–25. (in Japanese).
- 4) Okumura, M. 2012. Administration of non-steroidal anti-inflammatory drugs for dogs with fracture; fracture healing and COX inhibition. *Clinic Note*. **8(4)**: 61–69. (in Japanese).
- 5) Takagi, S. 2012. Partial liver lobectomy: 5 cases. *Surgeon*. **16 (2)**: 62–69. (in Japanese).
- 6) Takagi, S. 2012. Surgical approaches to the pelvic cavity. *Jpn. J. Vet. Clin. Oncol.* **8 (2)**: 78–84. (in Japanese).
- 7) Hosoya, K. 2012. Lung lobectomy in dogs: Application, anatomy, technique, and postoperative care. *Companion Animal Practice*. **280(10)**: 22–33. (in Japanese).
- 8) Adachi, M. 2012. Acute tumor lysis syndrome in a dog with acute lymphoblastic leukemia. *The journal of the Hokkaido Veterinary Medical Association*. **56(12)**: 22–25. (in Japanese).

Laboratory of Comparative Pathology

Original articles

- 1) Yabe, J., Nakayama, S. M. M., Ikenaka, Y., Muzandu, K., Ishizuka, M. and Umemura, T. 2012. Accumulation of metals in the liver and kidneys of cattle from agricultural areas in Lusaka, Zambia. *J. Vet. Med. Sci.*, **74**: 1345–1347.
- 2) Lee, H. K., Sunden, Y., Sakai, Y., Ochiai, K. and Umemura, T. 2012. CXCL12 improves immune responses to neurotropic virus propagation in the CNS by attracting antibody secreting cells. *Vet. Immunol. Immunopathol.*, **150**: 19–26.
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Laboratory of Theriogenology

Original article

- 1) Uchikura, K., Nagano, M. and Hishinuma, M. 2012. Prediction of maturational competence of feline oocytes using supravital staining of cumulus cells by propidium iodide. *Zygote*, **20**: 333–337.

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- 1) Takahashi, Y. 2012. Chapter 5–2, Fertilization. Chapter 5–3, Embryo development and implantation. Chapter 7–3, Embryo transfer. In: *Textbook of Theriogenology*, 4th Edition. Eds. Nakao T., Tsumagari, S. and Katagiri, S. Buneido Pub. Co. Ltd., Tokyo, pp. 142–161, 236–248. (in Japanese).
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Laboratory of Molecular Medicine

Original articles

- 1) Wang, C.-C., Sato, K., Otsuka, Y., Otsu, W. and Inaba, M. 2012. Clathrin-mediated endocytosis of mammalian erythroid AE1 anion exchanger facilitated by a YXXΦ or a noncanonical YXXXΦ motif in the N-terminal stretch. *J. Vet. Med. Sci.*, **74**: 17–25
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Laboratory of Public Health

Original articles

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Laboratory of Radiation Biology

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Laboratory of Toxicology

Original articles

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- 7) Uno, T., Ishizuka, M. and Itakura, T. 2012. Cytochrome P450 (CYP) in fish. *Environ. Toxicol. Pharmacol.*, **34**: 1–13.
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Laboratory of Wildlife Biology and Medicine

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- 7) Shimozuru, M., Kamine, A. and Tsubota, T. 2012. Changes of hepatic genes involved in lipid metabolism during pre-hibernation period in captive adult female Japanese black bears (*Ursus thibetanus japonicus*). *Can. J. Zool.*, **90**: 945–954.
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- 11) Shimozuru, M., Kamine, A. and Tsubota, T. 2012. Changes in expression of hepatic genes involved in energy metabolism during hibernation in captive, adult, female Japanese black bears (*Ursus thibetanus japonicus*). *Comp. Biochem. Physiol. Part B*, **163**: 254–261.

Laboratory of Veterinary Hygiene

Original articles

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- 2) Yamasaki, T., Suzuki, A., Shimizu, T., Watarai, M., Hasebe, R. and Horiuchi, M. 2012. Characterization of intracellular localization of PrP^{Sc} in prion-infected cells using monoclonal antibody that recognizes the region consisting of amino acids 119–127 of mouse PrP. *J. Gen. Virol.*, **93**: 668–680.
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Office for Faculty Development and Teaching Enriched Veterinary Medicine

Original articles

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Veterinary Teaching Hospital

Original articles

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- 6) Sasaki, N., Kudo, N., Nakamura, K., Lim, S. Y., Murakami, M., Bandula Kumara, W. R., Tamura, Y., Ohta, H., Yamasaki, M. and Takiguchi M. 2012. Activation of microbubbles by short-pulsed ultrasound enhances the cytotoxic effect of cis-diamminedichloroplatinum (II) in a canine thyroid adenocarcinoma cell line in vitro. *Ultrasound Med. Biol.*, **38**: 109-118.
- 7) Osaki, T., Takagi, S., Hoshino, Y., Aoki, Y., Sunden, Y., Ochiai, K. and Okumura, M. 2012. Temporary regression of locally invasive polypoid rhinosinusitis in a dog after photodynamic therapy. *Aust. Vet. J.*, **90**: 442-447.
- 8) Nakamura, K., Yamasaki, M., Osaki, T., Ohta, H., Sasaki, N., Aoshima, K., Kimura, T. and Takiguchi, M. 2012. Bilateral segmental aplasia with unilateral uterine horn torsion in a Pomeranian dog. *J. Am. Anim. Hosp. Assoc.*, **48**: 327-330.
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Division of Global Epidemiology

Original articles

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Division of Collaboration and Education

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Division of Bioinformatics

Original articles

- 1) Nagakawa, K., Niikura, K., Suzuki, T., Matsuo, Y., Igarashi, M., Sawa, H. and Ijio, K. 2012. Virus capsid coating of gold nanoparticles via cysteine-Au interactions and their effective cellular uptakes. *Chem. Lett.*, **41**: 113-115.
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Division of Infection and Immunity

Original articles

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