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PUBLICATIONS BY THE STAFF OF THE GRADUATE SCHOOL OF VETERINARY MEDICINE

Laboratory of Anatomy

Original articles

- 1) Kanazawa, T., Konno, A., Hashimoto, Y. and Kon, Y. 2009. Expression of hepatocyte nuclear factor 4alpha in developing mice. *Anat. Histol. Embryol.*, **38**: 34-41.
- 2) Ogura, A., Oowada, S., Kon, Y., Hirayama, A., Yasui, H., Meike, S., Kobayashi, S., Kuwabara, M. and Inanami, O. 2009. Redox regulation in radiation-induced cytochrome c release from mitochondria of human lung carcinoma A549 cells. *Cancer Lett.*, **277**: 64-71.
- 3) Ichii, O., Konno, A., Sasaki, N., Endoh, D., Hashimoto, Y. and Kon, Y. 2009. Onset of autoimmune glomerulonephritis derived from the telomeric region of MRL-chromosome 1 is associated with the male sex hormone in mice. *Lupus*, **18**: 491-500.
- 4) Kamikawa, A., Ichii, O., Yamaji, D., Imao, T., Suzuki, C., Okamitsu-Ogura, Y., Terao, A., Kon, Y. and Kimura, K. 2009. Diet-induced obesity disrupts ductal development in the mammary gland of nonpregnant mice. *Develop. Dyn.*, **238**: 1092-1099.
- 5) Hino, K., Otsuka, S., Ichii, S., Hashimoto, Y. and Kon, Y. 2009. Strain differences of cerebral ventricles in mice. Can MRL/MpJ mouse be a model for hydrocephalus? *Jpn. J. Vet. Res.*, **57**: 3-11.
- 6) Ikeda, T., Kanazawa, T., Otsuka, S., Ichii, O., Hashimoto, Y. and Kon, Y. 2009. Expression of caspase family and muscle- and apoptosis-specific genes during skeletal myogenesis in mouse embryo. *J. Vet. Med. Sci.*, **71**: 1161-1168.

Publication other than original articles

- 1) Ichii, O. 2009. Can we control the chronic kidney disease? -analysis of biological targets in animal disease models- *J. Hokkaido Vet. Med. Assoc.*, **53**: 638-644. (in Japanese)

Laboratory of Physiology

Original articles

- 1) Nakayama, S. M. M., Tanaka-Ueno, T., Sakamoto, K. Q., Fujita, S. and Ishizuka, M. 2009. Molecular cloning of novel cytochrome P450 1A genes from nine Japanese amphibian species. *J. Vet. Med. Sci.*, **71**: 1407-1411.
- 2) Sakamoto, K. Q., Takahashi, A., Iwata, T. and Trathan, P. N. 2009. From the eye of the albatrosses: a bird-borne camera shows an association between albatrosses and a killer whale in the Southern ocean. *PLoS ONE*, **4**: e7322.
- 3) Sakai, N., Sakamoto, K. Q., Fujita, S. and Ishizuka, M. 2009. The importance of heterogeneous nuclear ribonucleoprotein K on Cytochrome P450 2D2 gene regulation: its binding is reduced in Dark Agouti rats. *Drug Metab. Dispos.*, **37**: 1703-1710.
- 4) Ohno, M., Sakamoto, K. Q., Ishizuka, M. and Fujita, S. 2009. Crude cacao *Theobroma cacao* extract reduces mutagenicity induced by benzo[a]pyrene through inhibition of

- CYP1A activity in vitro. *Phytother. Res.*, **23**: 1134-1139.
- 5) Sakamoto, K. Q., Sato, K., Ishizuka, M., Watanuki, Y., Takahashi, A., Daunt, F. and Wanless, S. 2009. Can ethogram be automatically generated using body acceleration data from free-ranging birds? *PLoS ONE*, **4**: e5379.
 - 6) Sato, K., Sakamoto, K. Q., Watanuki, Y., Takahashi, A., Katsumata, N., Bost, C. A. and Weimerskirch, H. 2009. Scaling of soaring seabirds and implications for flight abilities of giant pterosaurs. *PLoS ONE*, **4**: e5400.
 - 7) Sakamoto, K. Q., Sato, K., Naito, Y., Habara, Y., Ishizuka, M. and Fujita, S. 2009. Morphological features and blood parameters of Weddell seal (*Leptonychotes weddellii*) mothers and pups during the breeding season. *J. Vet. Med. Sci.*, **71**: 341-344.
 - 8) Nakano, K., Ishizuka, M., Sakamoto, K. Q. and Fujita, S. 2009. Absolute requirement for iron in the development of chemically induced uroporphyrin in mice treated with 3-methylcholanthrene and 5-aminolevulinic acid. *Biomaterials*, **22**: 345-351.
 - 9) Sakai, N., Saito, K., Sakamoto, K. Q., Ishizuka, M. and Fujita, S. 2009. Genetic basis of inter- and intraspecific differences in diazepam p-hydroxylation in rats. *Drug Metab. Dispos.*, **37**: 268-271.

Publication other than original articles

- 1) Sakamoto, K. Q. 2009. The wildlife research in sub-Antarctica. *J. Hokkaido Vet. Med. Assoc.*, **53**: 117-121. (in Japanese)
- 2) Sakamoto, K. Q. and Habara, Y. 2009. Eco-physiology of wild penguins in breeding season. *J. Vet. Med.*, **62**: 575-580. (in Japanese)
- 3) Sakamoto, K. Q. 2009. Exploring cryptic ecology of wildlife by using vast amount of data. In: *Biologging*, pp. 22-24, (Japanese Society of Bio-logging Science eds.), Kyoto Tsushinsha, Kyoto. (in Japanese)

Laboratory of Biochemistry

Original articles

- 1) Ishioka, K., Omachi, A., Sasaki, N., Kimura, K., and Saito, M. 2009. Feline adiponectin: molecular structures and plasma concentrations in obese cats. *J. Vet. Med. Sci.*, **71**: 189-194.
- 2) Kamikawa, A., Ichii, O., Yamaji, D., Imao, T., Suzuki, C., Okamatsu-Ogura, Y., Terao, A., Kon, Y. and Kimura, K. 2009. Diet-induced obesity disrupts ductal development in the mammary glands of nonpregnant mice. *Dev. Dyn.*, **238**: 1092-1099.
- 3) Soliman, M. M., El-Senosi, Y. A.-F., Salem, M. M., Hamid, O. M. A., and Kimura K. 2009. Role of protease inhibitors and acylation stimulating protein in the adipogenesis in 3T3-L1 cells. *J. Vet. Sci.*, **10**: 197-201.
- 4) Furuya, D. T., Ishii, T., Kamikawa, A., Shimada, K., Machado, U. F., Saito, M. and Kimura, K. 2009. Proinsulin C-peptide induces c-Jun N-terminal kinase 1 expression in LEII mouse lung capillary endothelial cells. *Jpn. J. Vet. Res.*, **57**: 163-167.
- 5) Saito, M., Okamatsu-Ogura, Y., Matsushita, M., Watanabe, K., Yoneshiro, T., Nio-Kobayashi, J., Iwanaga, T., Miyagawa, M., Kameya, T., Nakada, K., Kawai, Y., Tsujisaki, M. 2009. High incidence of metabolically active brown adipose tissue in healthy adult humans: effects of cold exposure and adiposity. *Diabetes*, **58**: 1526-1531.

Publications other than original articles

- 1) Kamikawa, A., Suzuki, C., Yamamoto, A. and Kimura, K. 2009. The inhibitory effects of diet-induced obesity on mammary gland development. *Himman Kenkyu (Journal of Japan Society for the Study of Obesity)*, **15**: 222-224. (in Japanese)
- 2) Okamatsu, Y. and Kimura, K. 2009. PGC-1 and the regulation of energy metabolism in brown fat. *Endocrinology & Diabetology*, **29**: 109-116. (in Japanese)
- 3) Kimura, K. 2009. UCP and Oxygen consumption. In: *Karada to Sanso no Jiten*, pp. 285-287, Research Group in Oxygen Dynamics, eds., Asakura Shoten, Tokyo. (in Japanese)
- 4) Terao, A. 2009. Identification of genes involved in prostaglandin D₂-induced sleep using GeneChip®. *Insomnia Res.*, **2009**: 15-20. (in Japanese)

Laboratory of Pharmacology

Original articles

- 1) Ohta, T., Imagawa, T. and Ito, S. 2009. Involvement of transient receptor potential vanilloid subtype 1 in analgesic action of methylsalicylate. *Mol. Pharmacol.*, **75**: 307-317.
- 2) Otsuguro, K., Ban, M., Ohta, T. and Ito, S. 2009. Roles of purines in synaptic modulation evoked by hypercapnia in isolated spinal cord of neonatal rat *in vitro*. *Br. J. Pharmacol.*, **156**: 1167-1177.
- 3) Ogawa, T., Hashimoto, M., Niitsu, Y., Jakubowski, J. A., Tani, Y., Otsuguro, K., Asai, F. and Sugidachi, A. 2009. Effects of prasugrel, a novel P2Y₁₂ inhibitor, in rat models of cerebral and peripheral artery occlusive diseases. *Eur. J. Pharmacol.*, **612**: 29-34.
- 4) Murakami, M., Ohta, T. and Ito, S. 2009. Lipopolysaccharides enhance the action of bradykinin in enteric neurons via secretion of interleukin-1 β from enteric glial cells. *J. Neurosci. Res.*, **87**: 2095-2104.
- 5) Nagasaki, K., Ikoma, T., Katsuda, S., Tonegawa, T., Tanaka, J., Nakamura, T., Sato, H., Ito, S., Sasaki, N. and Agui, T. 2009. Sustained efficacy of erythropoietin with a hydroxyapatite carrier administered in mice. *J. Vet. Med. Sci.*, **71**: 729-736.
- 6) Nagasaki, K., Ikoma, T., Katsuda, S., Tonegawa, T., Tanaka, J., Ohshima, M., Hayashida, K., Nakamura, T., Sato, H., Ito, S., Sasaki, N. and Agui, T. 2009. Amelioration of anemia in the ICGN mouse, a renal anemia model, with a subcutaneous bolus injection of erythropoietin adsorbed to hydroxyapatite matrix. *J. Vet. Med. Sci.*, **71**: 1365-1371.

Publications other than original articles

- 1) Kagiya, N. 2009. Promotion of laboratory animal welfare and ethical in vivo research conducted by the Japanese Society for Laboratory Animal Resources. *LABIO21*, **36**: 5-7. (in Japanese)
- 2) Kagiya, N. 2009. Social understanding is indispensable for scientific and ethical animal experiments. *Proceedings of the 3rd Symposium of Molecular Imaging Research Center, National Institute of Radiological Sciences*, 37-38. (in Japanese)
- 3) Kagiya, N. 2009. Perspectives of the new policies and guidelines on animal experimentation ethics. *The Japanese*

Journal of Animal Psychology, **59**: 131-134.

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Laboratory of Microbiology

Original articles

- 1) Hara, Y., Hasebe, R., Sunden, Y., Ochiai, K., Honda, E., Sakoda, Y., and Umemura, T. 2009. Propagation of swine hemagglutinating encephalomyelitis virus and pseudorabies virus in dorsal root ganglia cells. *J. Vet. Med. Sci.*, **71**: 595-601.
- 2) Itoh, Y., Ozaki, H., Ishigaki, H., Sakoda, Y., Nagata, T., Soda, K., Isoda, N., Miyake, T., Ishida, H., Okamoto, K., Nakayama, M., Tsuchiya, H., Torii, R., Kida, H., and Ogasawara, K. 2010. Subcutaneous inoculation of a whole virus particle vaccine prepared from a non-pathogenic virus library induces protective immunity against H7N7 highly pathogenic avian influenza virus in cynomolgus macaques. *Vaccine*, **28**: 780-789.
- 3) Itoh, Y., Shinya, K., Kiso, M., Watanabe, T., Sakoda, Y., Hatta, M., Muramoto, Y., Tamura, D., Sakai-Tagawa, Y., Noda, T., Sakabe, S., Imai, M., Hatta, Y., Watanabe, S., Li, C., Yamada, S., Fujii, K., Murakami, S., Imai, H., Kakugawa, S., Ito, M., Takano, R., Iwatsuki-Horimoto, K., Shimojima, M., Horimoto, T., Goto, H., Takahashi, K., Makino, A., Ishigaki, H., Nakayama, M., Okamatsu, M., Warshauer, D., Shult, P. A., Saito, R., Suzuki, H., Furuta, Y., Yamashita, M., Mitamura, K., Nakano, K., Nakamura, M., Brockman-Schneider, R., Mitamura, H., Yamazaki, M., Sugaya, N., Suresh, M., Ozawa, M., Neumann, G., Gern, J., Kida, H., Ogasawara, K., and Kawaoka, Y. 2009. In vitro and in vivo characterization of new swine-origin H1N1 influenza viruses. *Nature*, **460**: 1021-1025.
- 4) Kashima, Y., Ikeda, M., Itoh, Y., Sakoda, Y., Nagata, T., Miyake, T., Soda, K., Ozaki, H., Nakayama, M., Shibuya, H., Okamatsu, M., Ishigaki, H., Ishida, H., Sawai, T., Kawaoka, Y., Kida, H., and Ogasawara, K. 2009. Intranasal administration of a live non-pathogenic avian H5N1 influenza virus from a virus library confers protective immunity against H5N1 highly pathogenic avian influenza virus infection in mice: comparison of formulations and administration routes of vaccines. *Vaccine*, **27**: 7402-7408.
- 5) Manzoor, R., Sakoda, Y., Nomura, N., Tsuda, Y., Ozaki, H., Okamatsu, M., and Kida, H. 2009. PB2 protein of a highly pathogenic avian influenza virus strain A/chicken/Yamaguchi/7/2004 (H5N1) determines its replication potential in pigs. *J. Virol.*, **83**: 1572-1578.
- 6) Minami, F., Nagai, M., Ito, M., Matsuda, T., Takai, H., Jinkawa, Y., Shimano, T., Hayashi, M., Seki, Y., Sakoda, Y., Sugiura, K., and Akashi, H. 2009. Reactivity and prevalence of neutralizing antibodies against Japanese strains of bovine viral diarrhea virus subgenotypes. *Comp. Immunol. Microbiol. Infect. Dis.*, In press.
- 7) Miyake, T., Soda, K., Itoh, Y., Sakoda, Y., Ishigaki, H., Nagata, T., Ishida, H., Nakayama, M., Ozaki, H., Tsuchiya, H., Torii, R., Kida, H., and Ogasawara, K. 2010. Amelioration of pneumonia with *Streptococcus pneumoniae* infection by inoculation with a vaccine against highly pathogenic avian influenza virus in a non-human primate mixed infection model. *J. Med. Primatol.*, **39**: 58-70.
- 8) Moritoh, K., Yamauchi, H., Asano, A., Yoshii, K., Kariwa, H., Takashima, I., Isoda, N., Sakoda, Y., Kida, H., Sasaki, N., and Agui, T. 2009. Generation of congenic mouse

- strains by introducing the virus-resistant genes, Mx1 and Oas1b, of feral mouse-derived inbred strain MSM/Ms into the common strain C57BL/6J. *Jpn. J. Vet. Res.*, **57**: 89–99.
- 9) Ocana-Macchi, M., Bel, M., Guzylack-Piriou, L., Ruggli, N., Liniger, M., McCullough, K. C., Sakoda, Y., Isoda, N., Matrosovich, M., and Summerfield, A. 2009. Hemagglutinin-independent tropism of H5N1 avian influenza virus for human endothelial cells. *J. Virol.*, **83**: 12947–12955.
 - 10) Ruggli, N., Summerfield, A., Fiebach, A. R., Guzylack-Piriou, L., Bauhofer, O., Lamm, C. G., Waltersperger, S., Matsuno, K., Liu, L., Gerber, M., Choi, K. H., Hofmann, M. A., Sakoda, Y., and Tratschin, J. D. 2009. Classical swine fever virus can remain virulent after specific elimination of the interferon regulatory factor 3-degrading function of Npro. *J. Virol.*, **83**: 817–829.
 - 11) Saito, T., Watanabe, C., Takemae, N., Chaisingh, A., Uchida, Y., Buranathai, C., Suzuki, H., Okamatsu, M., Imada, T., Panchariyanon, S., Traiwanatam, N., and Yamaguchi, S. 2009. Pathogenicity of highly pathogenic avian influenza viruses of H5N1 subtype isolated in Thailand for different poultry species. *Vet. Microbiol.*, **133**: 65–74.
 - 12) Sasaki, T., Isoda, N., Soda, K., Sakamoto, R., Saijo, K., Hagiwara, J., Kokumai, N., Ohgitani, T., Imamura, T., Sawata, A., Lin, Z., Sakoda, Y., and Kida, H. 2009. Evaluation of the potency, optimal antigen level and lasting immunity of inactivated avian influenza vaccine prepared from H5N1 virus. *Jpn. J. Vet. Res.*, **56**: 189–198.
 - 13) Sasaki, T., Kokumai, N., Ohgitani, T., Sakamoto, R., Takikawa, N., Lin, Z., Okamatsu, M., Sakoda, Y., and Kida, H. 2009. Long lasting immunity in chickens induced by a single shot of influenza vaccine prepared from inactivated non-pathogenic H5N1 virus particles against challenge with a highly pathogenic avian influenza virus. *Vaccine*, **27**: 5174–5177.
 - 14) Shin, J. H., Sakoda, Y., Yano, S., Ochiai, K., Kida, H., and Umemura, T. 2009. Effective prevention against rabies by intracerebral immunization in mice. *J. Vet. Med. Sci.*, **71**: 1331–1336.
 - 15) Simulundu, E., Mweene, A. S., Tomabeche, D., Hang'ombe, B. M., Ishii, A., Suzuki, Y., Nakamura, I., Sawa, H., Sugimoto, C., Ito, K., Kida, H., Saiwana, L., and Takada, A. 2009. Characterization of H3N6 avian influenza virus isolated from a wild white pelican in Zambia. *Arch. Virol.*, **154**: 1517–1522.
 - 16) Tsuda, Y., Isoda, N., Sakoda, Y., and Kida, H. 2009. Factors responsible for plaque formation of A/duck/Siberia/272/1998 (H13N6) influenza virus on MDCK cells. *Virus Res.*, **140**: 194–198.
 - 17) Tsukamoto, K., Ashizawa, T., Nakanishi, K., Kaji, N., Suzuki, K., Shishido, M., Okamatsu, M., and Mase, M. 2009. Use of reverse transcriptase PCR to subtype N1 to N9 neuraminidase genes of avian influenza viruses. *J. Clin. Microbiol.*, **47**: 2301–2303.
 - 18) Yoshida, R., Igarashi, M., Ozaki, H., Kishida, N., Tomabeche, D., Kida, H., Ito, K., and Takada, A. 2009. Cross-protective potential of a novel monoclonal antibody directed against antigenic site B of the hemagglutinin of influenza A viruses. *PLoS Pathog*, **5**: e1000350.

Publications other than original articles

- 1) Kida, H. 2009. Relation between pandemic influenza and avian influenza. In: *Influenza no saishin chishiki Q&A 2009*, pp. 27–28, Suzuki, H. and Matsumoto, K. eds., Iyaku Journal, Osaka. (in Japanese)
- 2) Kida, H. 2009. How we can control avian, swine, and pandemic influenza? *INFECTIO FRONT*, **17**: 16–18. (in Japanese)

- 3) Kida, H. 2009. Influenza virus infections: Avian, swine, and pandemic influenza. *Gekkan-Yakuji*, **51**: 1597-1603. (in Japanese)
- 4) Okamatsu, M., Kida, H. 2009. Influenza A viruses and animals lives. *Chiryogaku*, **43**: 1170-1172. (in Japanese)
- 5) Isoda, N., Sakoda, Y., and Kida, H. 2009. Development of vaccine against H5 avian influenza. *Kagaku to seibutsu*, **47**: 302-304. (in Japanese)

Laboratory of Infectious Diseases

Original articles

- 1) Konnai, S., Nakajima, C., Imamura, S., Yamada, S., Nishikado, H., Kodama, M., Onuma, M., and Ohashi, K. 2009. Suppression of cell proliferation and cytokine expression by HL-p36, a tick salivary gland-derived protein of *Haemaphysalis longicornis*. *Immunology*, **126**: 209-219.
- 2) Yamada, S., Konnai, S., Imamura, S., Simuunza, M., Chembensofu, M., Chota, A., Nambota, A., Onuma, M., and Ohashi, K. 2009. Quantitative Analysis of Cytokine mRNA Expression and Protozoan DNA Load in *Theileria parva*-Infected Cattle. *J. Vet. Med. Sci.*, **71**: 49-54.
- 3) Kano, R., Konnai, S., Onuma, M., and Ohashi, K. 2009. Cytokine profiles in chickens infected with virulent and avirulent Marek's disease viruses: interferon-gamma is a key factor in the protection of Marek's disease by vaccination. *Microbiol. Immunol.*, **53**: 224-232.
- 4) Kano, R., Konnai, S., Onuma, M., and Ohashi, K. 2009. Microarray analysis of host immune responses to Marek's disease virus infection in vaccinated chickens. *J. Vet. Med. Sci.*, **71**: 603-610.
- 5) Logullo, C., Witola, W. H., Andrade, C., Abreu, L., Gomes, J., da Silva Vaz, I. Jr., Imamura, S., Konnai, S., Ohashi, K., Onuma, M., 2009. Expression and activity of glycogen synthase kinase during vitellogenesis and embryogenesis of *Rhipicephalus (Boophilus) microplus*. *Vet. Parasitol.*, **161**: 261-269.
- 6) Mingala, C. N., Konnai, S., Cruz, L. C., Onuma, M., and Ohashi, K. 2009. Comparative moleculo-immunological analysis of swamp and riverine type water buffaloes responses. *Cytokine*, **46**: 273-282.
- 7) Konnai, S., Mekata, H., Mingala, C. N., Abes, N. S., Gutierrez, C. A., Herrera, J. R., Dargantes, A. P., Witola, W. H., Cruz, L. C., Inoue, N., Onuma, M., and Ohashi, K. 2009. Development and application of a quantitative real-time PCR for the diagnosis of Surra in water buffaloes. *Infect. Genet. Evol.*, **9**: 449-452.
- 8) Imamura, S., da Silva Vaz, I. Jr., Konnai, S., Yamada, S., Najajima, C., Onuma, M., and Ohashi, K. 2009. Effect of vaccination with a recombinant metalloprotease from *Haemaphysalis longicornis*. *Exp. Appl. Acarol.*, **48**: 345-358.
- 9) Saito, Y., Konnai, S., Yamada, S., Imamura, S., Nishikado, H., Ito, T., Onuma, M., and Ohashi, K. 2009. Identification and characterization of antimicrobial peptides, defensin, in the taiga tick *Ixodes persulcatus*. *Insect Mol. Biol.*, **18**: 531-539.
- 10) Mingala, C. N., Konnai, S., Venturina, A., Onuma, M., and Ohashi, K. 2009. Quantification of water buffalo (*Bubalus bubalis*) cytokine expression in response to inactivated foot-and-mouth disease (FMD) vaccine. *Res. Vet. Sci.*, **87**: 213-217.
- 11) Yamada, S., Konnai, S., Imamura, S., Simuunza, M., Chembensofu, M., Chota, A., Nambota, A., Onuma, M., and Ohashi, K. 2009. PCR-based detection of blood parasites in cattle and adult *Rhipicephalus*

- appendiculatus* ticks. *Vet. J.*, **182**: 352-355.
- 12) Mingala, C. N., Konnai, S., Onuma, M., and Ohashi, K. 2009. Classification of new BVDV isolates from Philippine water buffalo using the viral E2 region. *J. Basic Microbiol.*, **49**: 495-500.
 - 13) Yamada, S., Konnai, S., Imamura, S., Ito, T., Onuma, M., and Ohashi, K. 2009. Cloning and characterization of *Rhipicephalus appendiculatus* voraxinalpha and its effect as anti-tick vaccine. *Vaccine*, **27**: 5989-5997.
 - 14) Mekata, H., Konnai, S., Witola, W. H., Inoue, N., Onuma, M., and Ohashi, K. 2009. Molecular detection of trypanosomes in cattle in South America and genetic diversity of *Trypanosoma evansi* based on expression-site-associated gene 6. *Infect. Genet. Evol.*, **9**: 1301-1305.
 - 15) Parizi, L. F., Rech, H., Ferreira, C. A., Imamura, S., Ohashi, K., Onuma, M., Masuda, A., and da Silva Vaz I. Jr. 2009. Comparative immunogenicity of *Haemaphysalis longicornis* and *Rhipicephalus (Boophilus) microplus* calreticulins. *Vet. Parasitol.*, **164**: 282-290.

Publications other than original articles

- 1) Konnai, S., Tajima, M., Onuma, M., Ohashi, K. 2009. Current topics on Bovine leukemia virus infection and its control in the field. *J. Hokkaido Vet. Med. Assoc.*, **53**: 529-534. (in Japanese)

Laboratory of Parasitology

Original articles

- 1) Katakura, K. 2009. Molecular epidemiology of leishmaniasis in Asia (focus on cutaneous infections). *Curr. Opin. Infect. Dis.*, **22**: 126-130.
- 2) Bhutto, A. M., Soomro, F. R., Baloch, J. H., Matsumoto, J., Uezato, H., Hashiguchi, Y. and Katakura, K. 2009. Cutaneous leishmaniasis caused by *Leishmania (L.) major* infection in Sindh province, Pakistan. *Acta Trop.*, **111**: 295-298.
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- 4) Nakao, R., Mizukami, C., Kawamura, Y., Subeki, Bawm, S., Yamasaki, M., Maede, Y., Matsuura, H., Nabeta, K., Nonaka, N., Oku, Y. and Katakura, K. 2009. Evaluation of efficacy of bruceine A, a natural quassinoid compound extracted from a medicinal plant, *Brucea javanica*, for canine babesiosis. *J. Vet. Med. Sci.*, **71**: 33-41.
- 5) Dang, Z., Yagi, K., Oku, Y., Kouguchi, H., Kajino, K., Watanabe, J., Matsumoto, J., Nakao, R., Wakaguri, H., Toyoda, A. and Sugimoto, C. 2009. Evaluation of *Echinococcus multilocularis* tetraspanins as vaccine candidates against primary alveolar echinococcosis. *Vaccine*, **27**: 7339-7345.
- 6) Nonaka, N., Sano, T., Inoue, T., Armua, T-M., Fukui, D., Katakura, K. and Oku, Y. 2009. Multiplex PCR system for identifying the carnivore origins of faeces for an epidemiological study on *Echinococcus multilocularis* in Hokkaido, Japan. *Parasitol. Res.*, **106**: 75-83.
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- 9) Nonaka, N., Kamiya, M. and Oku, Y. 2009. A vague understanding of the biology and epidemiology of echinococcosis by dog owners in Hokkaido, an endemic island for *Echinococcus multilocularis* in Japan. *J. Vet. Med. Sci.*, **71**: 105–107.
- 10) Nonaka, N., Kamiya, M., Kobayashi, F., Ganzorig, S., Ando, S., Yagi, K., Iwaki, T., Inoue, T. and Oku, Y. 2009. *Echinococcus multilocularis* infection in pet dogs in Japan. *Vector Borne Zoonotic Dis.*, **9**: 201–206.
- 11) Tsubota, K., Nakatsuji, S., Matsumoto, M., Fujihira, S., Yoshizawa, K., Okazaki, Y., Murakami, Y., Anagawa, A., Oku, Y. and Oishi, Y. 2009. Abdominal cysticercosis in a cynomolgus monkey. *Vet. Parasitol.*, **161**: 339–341.
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- 13) Tanaka, M., Sakurai, T., Yokoyama, N., Inoue, N. and Kawazu, S. 2009. Cloning and characterization of peroxiredoxin in *Babesia bovis*. *Parasitol. Res.*, **105**: 1473–1477.
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- 1) Katakura, K. 2009. Leishmaniasis. In: *Zoonosis Handbook*, pp. 115–117, Kishimoto, T. and Yamada, A. eds., Medical Science, Tokyo. (in Japanese)
- 2) Oku, Y. 2009. Echinococcosis. In: *Zoonosis Handbook*, pp. 89–91, Kishimoto, T. and Yamada, A. eds., Medical Science, Tokyo. (in Japanese)
- 3) Oku, Y. 2009. Trichinellosis. In: *Zoonosis Handbook*, pp. 92–93, Kishimoto, T. and Yamada, A. eds., Medical Science, Tokyo. (in Japanese)

Laboratory of Laboratory Animal Science and Medicine

Original articles

- 1) Nagasaki, K., Ikoma, T., Katsuda, S., Tonegawa, T., Tanaka, J., Nakamura, T., Sato, H., Ito, S., Sasaki, N., and Agui, T. 2009. Sustained efficacy of erythropoietin with a hydroxyapatite carrier administered in mice. *J. Vet. Med. Sci.*, **71**: 729–736.
- 2) Moritoh, K., Yamauchi, H., Asano, A., Yoshii, K., Kariwa, H., Takashima, I., Isoda, N., Sakoda, Y., Kida, H., Sasaki, N., and Agui, T. 2009. Generation of congenic mouse strains by introducing the virus-resistant genes, Mx1 and Oas1b, of feral mouse-

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 - 5) Ichii, O., Konno, A., Sasaki, N., Endoh, D., Hashimoto, Y., and Kon, Y. 2009. Onset of autoimmune glomerulonephritis derived from the telomeric region of MRL-chromosome 1 is associated with the male sex hormone in mice. *Lupus*, **18**: 491-500.

Laboratory of Veterinary Internal Medicine

Original articles

- 1) Yamasaki M., Nakamura K., Tamura N., Hwang Shiang-Jyi., Yoshikawa M., Sasaki N., Ohta H., Yamato O., Maede Y. and Takiguchi M. 2009. Effects and mechanisms of action of ionophorous antibiotics Valinomycin and Salinomycin-Na on *Babesia gibsoni* in vitro. *J. Parasitol.*, **95**: 1532-1538.
- 2) Nakamura K., Sasaki N., Yoshikawa M., Ohta H., Hwang Shiang-Jyi., Mimura T., Yamasaki M. and Takiguchi M. 2009. Quantitative contrast-enhanced ultrasonography of canine spleen, *Vet. Radiol. Ultrasound*, **50**: 104-108.
- 3) Ohta H., Yamasaki M., Takiguchi M. 2009. Primary splenic torsion in a Boston terrier. *J. Vet. Med. Sci.*, **71**: 1533-1535.
- 4) Yamada, K., Subeki, Nabeta, K., Yamasaki, M., Katakura, K., Matsuura H. 2009. Isolation of antibabesial compounds from *Brucea javanica*, *Curcuma xanthorrhiza*, and *Excoecaria cochinchinensis*. *Biosci. Biotechnol. Biochem.*, **73**: 776-780.
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Laboratory of Veterinary Surgery

Original articles

- 1) Hosoya, K., Lord, L. K., Lara-Garcia, A., Kisseberth, W. C., London, C. A. and Couto, C. G. 2009. Prevalence of elevated alanine transaminase activity in dogs treated with CCNU (Lomustine). *Vet. Comp. Oncol.*, **7**: 244-255.
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- 4) Ohta, H., Takagi, S., Murakami, M., Sasaki, N., Yoshikawa, M., Nakamura, K., Hwang, S. J., Yamasaki, M. and Takiguchi, M. 2009. Primary splenic torsion in a Boston terrier. *J. Vet. Med. Sci.*, **71**: 1533-1535.
- 5) Hoshino, Y., Takagi, S., Osaki, T., Okumura, M. and Fujinaga, T. 2009. Activated lymphocyte therapy for 10 dogs with spontaneous malignant tumor. *J. Jpn. Vet. Med. Assoc.*, **62**: 383-387. (in Japanese)
- 6) Takagi, S., Sunaga, T., Yamada, K., Aoki Y., Osaki, T. and Okumura, M. 2009. Surgically corrected chronic diaphragmatic hernia in a dog. *J. Anim. Clin. Med.*, **18**: 11-15. (in Japanese with English summary)
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- 4) Okumura, M. 2009. Adequate diagnostic approach for canine joint diseases: synovial biopsy and cytological evaluation. *InfoVets*, **12**: 39-45.
- 5) Okumura, M. 2009. Diagnosis of canine shoulder arthropathy: a case study. *InfoVets*, **12**: 22-27.
- 6) Okumura, M. 2009. Fracture of carpal joint. pp. 285-292, Fracture of tarsal joint. pp. 293-302, Fracture of metacarpal and metatarsal bones. pp. 303-310, Fracture of digital bones. pp. 311-314, In: *AO Principles of Fracture Management in the Dog and Cat*, Johnson, A. L., Houlton, J. E. F., Vannini, R. eds., 2005, AO Publishing, Dübendorf, Switzerland. (Japanese translation)
- 7) Okumura, M. 2009. An approach to the lame dog or cat. pp. 1-8, Radiography pp. 9-24, Arthroscopic equipment. pp. 201-208, Principles of arthroscopy. pp. 210-218, The stifle. pp. 389-438, The temporomandibular joint, pp. 463-470. In: *BSAVA Manual of canine and feline musculoskeletal disorders*. Houlton, J. E. F., Cook, J. L., Innes, J. F., Langley-Hobbs, S. J., Brown, G. eds., 2006, British Small Animal Veterinary Association, Quedgeley, Gloucester, U. K. (Japanese translation)
- 8) Takagi, S. and Okumura, M. 2009. Fundamentals of diagnosis and treatment for atrantoaxial subluxation in dogs. *InfoVets*, **12**: 26-33. (in Japanese)
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- 10) Takagi, S. 2009. Disturbances of growth and bone development. pp. 57-81, Muscle and tendon injuries. pp. 123-134, Diseases of muscle and the neuromuscular junction. pp. 135-144, Tumours of the musculoskeletal system. pp. 145-152, Neurological causes of lameness pp. 153-162, Surgical biology of joints. pp. 163-170, The hip. pp. 345-388, In: *BSAVA Manual of canine and feline musculoskeletal disorders*. Houlton, J. E. F.,

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Laboratory of Comparative Pathology

Original articles

- 1) Hatai, H., Ochiai, K. and Umemura, T. 2009. Detection of avian leukosis virus genome by a nested polymerase chain reaction using DNA and RNA from dried feather shafts. *J. Vet. Diagn. Invest.*, **21**: 519–522.
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- 7) Hasebe, R., Sasaki, M., Sawa, H., Wada, R., Umemura, T., Kimura, T. 2009. Infectious entry of equine herpesvirus-1 into host cells through different endocytic pathways. *Virology*, **393**: 198–209.
- 8) Hara, Y., Sunden, Y., Ochiai, K., Umemura, T. 2009. In vitro propagation of rabies virus in mouse dorsal root ganglion cells. *Jpn. J. Vet. Res.*, **56**: 181–188.

Laboratory of Theriogenology

Original articles

- 1) Yanagawa, Y., Matsuura, Y., Suzuki, M., Saga, S., Okuyama, H., Fukui, D., Bandou, G., Katagiri, Y., Takahashi, Y. and Tsubota, T. 2009. Fetal age estimation of Hokkaido Sika deer (*Cervus nippon yesoensis*) using ultrasonography in early pregnancy. *J. Reprod. Dev.*, **55**: 143–148.
- 2) Matsuu, A., Hashizume, T., Kanda, T., Nagano, M., Sugiyama, S., Okamoto, Y. and Hikasa, Y. 2009. A case of persistent müllerian duct syndrome with sertoli cell tumor and hydrometra in a dog. *J. Vet. Med. Sci.*, **71**: 379–381.
- 3) Mito, T., Yoshioka, K., Nagano, M., Suzuki, C., Yamashita, S. and Hoshi, H. 2009. Transforming growth factor- α in a defined

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4) Higaki, S., Mochizuki, K., Baba, H., Akashi,

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Laboratory of Molecular Medicine

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1) Adachi, H., Ito, D., Kurooka, T., Otsuka, Y., Arashiki, N., Sato, K. and Inaba, M. 2009. Structural implications of the EL(K/Q)(L/C)LD(A/G)DD sequence in the C-terminal

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Laboratory of Public Health

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1) Yoshii, K. and Holbrook, M. R. 2009. Sub-genomic replicon and virus-like particles of Omsk hemorrhagic fever virus. *Arch. Virol.*, **154**: 573–580.

2) Hayasaka, D., Nagata, N., Fujii, Y., Hasegawa, H., Sata, T., Suzuki, R., Gould, E. A., Takashima, I., and Koike, S. 2009. Mortality following peripheral infection with tick-borne encephalitis virus results from a combination of central nervous system pathology, systemic inflammatory and stress responses. *Virology*, **390**: 139–150.

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6) Kariwa, H., Tkachenko, E. A., Morozov, V. G., Seto, T., Tanikawa, Y., Kolominov, S. I., Belov, S. N., Nakamura, I., Hashimoto, N., Balakiev, A. E., Dzagurnova, T. K., Daud, N. H., Miyashita, D., Medvedkina, O. A., Nakauchi, M., Ishizuka, M., Yoshii, K., Yoshimatsu, K., Arikawa, J. and Takashima, I. 2009. Epidemiological study of hantavirus infection in the Samara Region of European Russia. *J. Vet. Med. Sci.*, **71**: 1569–1578.

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Laboratory of Radiation Biology

Original articles

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- 2) Ogura, A., Oowada, S., Kon, Y., Hirayama, A., Yasui, H., Meike, S., Kobayashi, S., Kuwabara, M. and Inanami, O. 2009. Redox regulation in radiation-induced cytochrome c release from mitochondria of human lung carcinoma A549 cells. *Cancer Lett.*, **277**: 64-71.
- 3) Matsumoto, S., Yasui, H., Batra, S., Kinoshita, Y., Bernardo, M., Munasinghe, J. P., Utsumi, H., Choudhuri, R., Devasahayam, N., Subramanian, S., Mitchell, J. B. and Krishna, M. C. 2009. Simultaneous imaging of tumor oxygenation and microvascular permeability using Overhauser enhanced MRI. *Proc. Natl. Acad. Sci. U. S. A.* **106**: 17898-17903.

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- 1) Kuwabara, M. 2009. Spin trapping (4), *Spin Science*, **12**: 50-54. (in Japanese)

Laboratory of Toxicology

Original article

- 1) Sakai, N. and Ishizuka, M. 2009. Impact of rat P450 genetic polymorphism on diazepam metabolism. *Expert Opin. Drug Metab. Toxicol.*, **5**: 1421-1433.
- 2) El Bohi, K. M., Hashimoto, Y., Muzandu, K., Ikenaka, Y., Ibrahim, Z. S., Kazusaka, A., Fujita, S. and Ishizuka, M. 2009. Protective effect of *Pleurotus cornucopiae* mushroom on carbon tetrachloride-induced hepatotoxicity. *Jpn. J. Vet. Res.*, **57**: 109-118.
- 3) Nakayama, S. M. M., Tanaka-Ueno, T., Sakamoto, Q. K., Fujita, S. and Ishizuka, M. 2009. Molecular cloning of novel cytochrome P450 1A genes from nine Japanese amphibian species. *J. Vet. Med. Sci.*, **71**: 1407-1411.
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- 5) Sakamoto, K. Q., Sato, K., Ishizuka, M., Watanuki, Y., Takahashi, A., Daunt, F. and Wanless, S. 2009. Can ethograms be automatically generated using body acceleration data from free-ranging birds? *PLoS ONE*, e5379.
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- 8) Nakano, K., Ishizuka, M., Sakamoto, Q. K. and Fujita, S. 2009. Absolute requirement for iron in the development of chemically induced uroporphyrin in mice treated with 3-methylcholanthrene and 5-aminolevulinic acid.

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parameters of Weddell seal (*Leptonychotes weddellii*) mothers and pups during the breeding season. *J. Vet. Med. Sci.*, **71**: 341-344.

Laboratory of Wildlife Biology

Original articles

- 1) Nakamura, S., Nishii, N., Yamanaka, A., Kitagawa, H., Asano, M., Tsubota, T. and Suzuki, M. 2009. Leptin receptor (Ob-R) expression in the ovary and uterus of wild Japanese black bears (*Ursus thibetanus japonicus*). *J. Reprod. Dev.*, **55**: 110-115.
- 2) Yanagawa, Y., Matsuura, Y., Suzuki, M., Saga, S., Okuyama, H., Fukui, D., Bandou, G., Katagiri, S., Takahashi, Y. and Tsubota, T. 2009. Fetal age estimation of Hokkaido sika deer (*Cervus nippon yesoensis*) using ultrasonography during early pregnancy. *J. Reprod. Dev.*, **55**: 143-148.
- 3) Okano, T., Murase, T., Nakamura, S., Komatsu, T., Tsubota, T., Asano, M. and Suzuki, M. 2009. Normal sperm morphology and changes of semen characteristics and abnormal morphological spermatozoa among peri-mating seasons in captive Japanese black bears (*Ursus thibetanus japonicus*). *J. Reprod. Dev.*, **55**: 194-199.
- 4) Iibuchi, R., Nakano, N., Nakamura, T., Urashima, T., Shimozuru, M., Murase, T. and Tsubota, T. 2009. Change in body weight of mothers and neonates and in milk composition during denning period in captive Japanese black bears (*Ursus thibetanus japonicus*). *Jpn. J. Vet. Res.*, **57**: 13-22.
- 5) Kubo, M., Okano, T., Tsubota, T., Sakai, H. and Yanai, T. 2009. Muscular sarcocystosis in wild carnivores in Honshu, Japan. *Parasitol. Res.*, **106**: 213-219.
- 6) Nakagawa, E., Kobayashi, M., Suzuki, M. and Tsubota, T. 2009. Growth variation in skull morphology of Kuril harbor seals (*Phoca vitulina stejnegeri*) and spotted seals (*Phoca largha*) in Hokkaido, Japan. *Jpn. J. Vet. Res.*, **57**: 147-162.

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Laboratory of Prion Diseases

Original articles

- 1) Zheng, K., Zhou, H. Q., Yan, J., Ke, C. W., Maeda, A., Maeda, J., Takashima, I., Kurane, I., Ma, H., and Xie, X. M. 2009. Molecular characterization of the E gene of

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- 2) Shindoh, R., Kim, C.-L., Song, C.-H., Hasebe, R., and Horiuchi, M. 2009. The region approximately between amino acids 81 and 137 of proteinase K-resistant PrP^{Sc} is critical for the infectivity of the Chandler prion strain. *J. Virol.*, **83**: 3852–3860.
 - 3) Song, C.-H., Honmou, O., Nakamura, K., Hamada, H., Furuoka, H., Hasebe, R., and Horiuchi, M. 2009. Effect of transplantation of immortalized human bone marrow-derived mesenchymal stem cells on mice infected with prions. *J. Virol.*, **83**: 5918–5927.
 - 4) Maeda, A., Murata, R., Akiyama, M., Takashima, I., Kariwa, H., Watanabe, T., Kurane, I., and Maeda, J. 2009. A PCR-based protocol for the generation of a recombinant West Nile virus. *Virus Res.*, **144**: 35–43.
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 - 7) Horiuchi, M., Karino, A., Furuoka, H., Ishiguro, N., Kimura, K., and Shinagawa, M. 2009. Generation of monoclonal antibody that distinguishes PrP^{Sc} from PrP^C and neutralizes prion infectivity. *Virology*, **394**: 200–207.

Veterinary Teaching Hospital

Original Articles

- 1) Mingala, C. N., Konnai S, Tajima, M., Onuma M. and Ohashi, K. 2009. Classification of new BVDV isolates from Philippine water buffalo using the viral E2 region. *J. Basic Microbiol.*, **49**: 495–500.
- 2) Osaki, T., Takagi, S., Hoshino, Y., Okumura, M., Kadosawa, T., and Fujinaga, T. 2009. Efficacy of antivascular photodynamic therapy using benzoporphyrin derivative monoacid ring A (BPD-MA) in 14 dogs with oral and nasal tumors. *J. Vet. Med. Sci.* **71**: 125–132.

Publications other than original articles

- 1) Tajima, M. 2009. Physiology and management of bovine fetus-Vaccination program. pp54–56, In: *The calf: management from the birth to first childbirth*, The Japanese Society for Clinical Infectious Disease in Farm Animals ed., Chikusan Shuppan, Tokyo. (in Japanese)
- 2) Konnai S, Tajima, M., Onuma M. and Ohashi, K. 2009. Control of bovine leukemia virus infection; possible eradication program. *J. Hokkaido Vet. Med. Assoc.*, **53**: 529–534. (in Japanese)
- 3) Tajima, M. 2009. Bovine vaccine. *J. Vet. Med.*, **62**: 193–196. (in Japanese)
- 4) Tajima, M. 2009. The current situation of BVD virus infection. *J. Livestock Med.*, **56**: 707–712. (in Japanese)

Office for Faculty Development and Teaching Enriched Veterinary Medicine

Original articles

- 1) Kanazawa, T., Konno, A., Hashimoto, Y. and Kon, Y. 2009. Expression of hepatocyte nuclear factor 4alpha in developing mice. *Anat. Histol. Embryol.*, **38**: 34-41.
- 2) Ichii, O., Konno, A., Sasaki, N., Endoh, D., Hashimoto, Y. and Kon, Y. 2009. Onset of autoimmune glomerulonephritis derived from the telomeric region of MRL-chromosome 1 is associated with the male sex hormone in mice. *Lupus*, **18**: 491-500.
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- 4) Ikeda, T., Kanazawa, T., Otsuka, S., Ichii, O., Hashimoto, Y. and Kon, Y. 2009. Expression of caspase family and muscle- and apoptosis-specific genes during skeletal myogenesis in mouse embryo. *J. Vet. Med. Sci.*, **71**: 1161-1168.

Department of Global Epidemiology

Original articles

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 - 3) Suzuki, Y., Nakajima, C. and Adachi S. 2009. Endocrine disruptor and its detection methods. In: *Modern Veterinary Public Health*. pp. 128–135, Tamura Y. ed., Midori Shobo Co., Ltd, Tokyo. (in Japanese)
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Department of Molecular Pathobiology

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