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PUBLICATIONS BY THE STAFF OF THE GRADUATE SCHOOL OF VETERINARY MEDICINE

Laboratory of Anatomy

Original articles

1) Yamaji, D., Kimura, K., Watanabe, A., Kon, Y., Iwanaga, T., Soliman, M. M., Ahmed, M. M. and Saito, M. 2006. Bovine hepatocyte growth factor and its receptor c-Met cDNA cloning and expression analysis in the mammary gland. *Domestic Animal Endocrinol.,* 30 : 239-246.

2) Nio, J., Takahashi-Iwanaga, H., Morimatsu, M., Kon, Y. and Iwanaga, T. 2006. Immunohistochemical and in situ hybridization analysis of galectin-3, a β-galactoside binding lectin, in the urinary system of adult mice. *Histochem. Cell. Biol.,* 126: 45-56.

3) Cho, A-R., Uchio-Yamada, K., Torigai, T., Miyamoto, T., Miyoshi, I., Matsuda, J., Kurosawa, T., Kon, Y., Asano, A., Sasaki, N. and Agui, T. 2006. Deficiency of the tensin 2 gene in the ICGN mouse : an animal model for congenital nephrotic syndrome. *Mamm. Genome,* 17 : 407-416.

4) Hayashi, M., Fuse, S., Endoh, D., Horiguchi, N., Nakayama, K., Kon, Y. and Okui, T. 2006. Accumlation of copper induces DNA strand Breaks in brain cells of Long-Evans Cinnamon (LEC) rats, an animal model for human Wilson disease. *Exp. Anim.,* 55 : 419-426.

Pubulication other than original articles

1) Hashimoto, Y., Kon, Y., Okumura, M. and Ito, S. 2006. Current teaching veterinary anatomy and surgery with a minimum loss of animal life in EU countries (in Japanese). *J. Clin. Vet. Med.,* 24 : 63-75.

Laboratory of Physiology

Original articles

1) Gautam, S. H., Otsuguro, K., Ito, S., Saito, T. and Habara, Y. 2006. Intensity of odorant stimulation affects mode of Ca^{2+} dynamics in rat olfactory receptor neurons. *Neurosci. Res.,* 55 : 410-420.

2) Kuroda, T, Satoh, Y., Akutsu-Yamaguchi, H., Shikanai, Y., Miyata, S., Saino, T., Russa, D., Habara, Y. and Cui, Z. J. 2006. Quantitative analysis of photodamage during fluorescence bioimaging : monitoring of nitric oxide production using DAF-2. *Bioimages*, 14 : 9-18.

Laboratory of Biochemistry

Original articles

1) Ishioka, K., Omachi, A., Sagawa, M., Shibata, H., Honjoh, T., Kimura, K. and Saito, M. 2006. Canine adiponectin : cDNA structure, mRNA expression in adipose tissues and reduced plasma levels in obesity. *Res. Vet. Sci.,* 80 : 127-132.

2) Nishii, N., Takasu, M., Ohba, Y., Maeda, S., Kitoh, K., Ohtsuka, Y., Honjoh, T., Saito, M. and Kitagawa, H. 2006. Effects of administration of glucocorticoids and feeding status on plasma leptin concentrations in dogs. *Am. J. Vet. Res.,* 67 : 266-270.
3) Yamaji, D., Kimura, K., Watanabe, A., Kon, Y., Iwanaga, T., Soliman, M. M., Ahmed, M. M. and Saito, M. 2006. Bovine hepatocyte growth factor and its receptor c-Met : cDNA cloning and expression analysis in the mammary gland. *Domest. Anim. Endocrinol.,* 30 : 239-246.
4) Wang, Y., Kimura, K., Inokuma, K., Saito, M., Kontani, Y., Kobayashi, Y., Mori, N. and Yamashita, H. 2006. Potential contribution of vasoconstriction to suppression of heat loss and homeothermic regulation in UCP1-deficient mice. *Pflug. Arch. Eur. J. Physiol.,* 452 : 363-369.
5) Inokuma, K., Okamatsu-Ogura, Y., Omachi, A., Matsushita, Y., Kimura, K., Yamashita, H. and Saito, M. 2006. Indispensable role of mitochondrial UCP 1 for antiobesity effect of β3-adrenergic stimulation. *Am. J. Physiol. Endocrinol. Metab.,* 290 : E1014-E1021.
6) Nishii, N., Nodake, H., Takasu, M., Soe, O., Ohba, Y., Maeda, S., Ohtsuka, Y., Honjoh, T., Saito, M. and Kitagawa, H. 2006. Postprandial changes in leptin concentrations of cerebrospinal fluid in dogs during development of obesity. *Am. J. Vet. Res.,* 67 : 2006-2011.
7) Jeusette, I., Daminet, S., Nguyen, P., Shibata, H., Saito, M., Honjoh, T., Istasse, L. and Diez, M. 2006. Effect of ovariectomy and ad libitum feeding on body composition, thyroid status, ghrelin and leptin plasma concentrations in female dogs. *J. Anim. Physiol. Anim. Nutr.,* 90 : 12-18.

Publications other than original articles

1) Okamatsu, Y. and Saito, M. 2006. The function and differentiation of brown adipose tissue. *Saibou,* 38 : 14-18. (in Japanese)
2) Okamatsu, Y. and Saito, M. 2006. Origin and differentiation of brown adipocytes. *The Lipid*, 17 : 157-163. (in Japanese)
3) Okamatsu, Y. and Saito, M. 2006. Role of uncoupling protein 1 in the fat-reducing effect of leptin. *Himankenkyu,* 12 : 73-75. (in Japanese)
4) Okamatsu, Y., Omachi, A. and Saito, M. 2006. Brown and white adipocytes : the roles in energy metabolism. *Bunshi-saibochiryo,* 5 : 28-34. (in Japanese)
5) Okamatsu, Y. and Saito, M. 2006. Control of whole body energy metabolism by brown adipose tissue. *Clinical Neuroscience,* 24:914-916. (in Japanese)

Labolatory of Pharmacology
Original articles

1) Otsuguro, K., Ohta, T. and Ito, S. 2006. Zinc modulates primary afferent fiber-evoked responses of ventral roots in neonatal rat spinal cord in vitro. *Neuroscience,* 138 : 281-291.
2) Ohta, T., Ikemi, Y., Murakami, M., Imagawa, T., Otsuguro, K. and Ito, S. 2006. Potentiation of transient receptor potential V1 fanctions by the activation of metabotropic 5-HT receptors in rat primary sensory neurons. *J. Physiol.,* 576 : 809-822.

3) Gautam, S.H., Otsuguro, K., Ito, S., Saito, T. and Habara, Y. 2006. Intensity of odorant stimulation affects mode of Ca^{2+} dynamics in rat olfactory receptor neurons. *Neurosci. Res.,* 55 : 410-420.
4) Otsuguro, K., Yamaji, Y., Ban, M., Ohta, T. and Ito, S. 2006. Involvement of adenosine in depression of synaptic transmission during hypercapnia in isolated spinal cord of neonatal rats. *J. Physiol.,* 574 : 835-847.
5) Tabo, M., Nakamura, M., Kimura, K. and Ito, S. 2006. QT-RR Relationships and suitable QT correction formulas for halothane-anesthetized dogs. *J. Toxicol. Sci.,* 31 : 381-390.
6) Takahashi, E., Inanami, O., Ohta, T., Matsuda, A. and Kuwabara, M. 2006. Lipid raft disruption prevents apoptosis induced by 2-chloro-2'-deoxyadenosine (Cladribine) in leukemia cell lines. *Leuk. Res.,* 30 : 1555-1561.

Publications other than original articles

1) Hashimoto, Y., Kon, Y., Okumura, M. and Ito, S. 2006. Current teaching veterinary anatomy and surgery with a minimum loss of animal life in EU countries (in Japanese). *J. Clin. Vet. Med.,* 24 : 63-75.

Laboratory of Microbiology
Original articles

1) Muramoto, Y., Le, T.Q., Phuong, L.S., Nguyen, T., Nguyen, T.H., Sakai-Tagawa, Y., Horimoto, T., Kida, H. and Kawaoka, Y. 2006. Pathogenicity of H5N1 influenza A viruses isolated in Vietnam between late 2003 and 2005. *J. Vet. Med. Sci.,* 68 : 735-737.
2) Muramoto, Y., Le, T.Q., Phuong, L.S., Nguyen, T., Nguyen, T.H., Sakai-Tagawa, Y., Iwatsuki-Horimoto, K., Horimoto, T., Kida, H. and Kawaoka, Y. 2006. Molecular characterization of the hemagglutinin and neuraminidase genes of H5N1 influenza A viruses isolated from poultry in Vietnam from 2004 to 2005. *J. Vet. Med. Sci.,* 68 : 527-531.
3) Wei, H.L., Bai, G.R., Mweene, A.S., Zhou, Y.C., Cong, Y.L., Pu, J., Wang, S., Kida, H. and Liu, J.H. 2006. Rapid detection of avian influenza virus a and subtype H5N1 by single step multiplex reverse transcription-polymerase chain reaction. *Virus Genes.,* 32 : 261-267.
4) Isoda, N., Sakoda, Y., Kishida, N., Bai, GR., Matsuda, K., Umemura, T. and Kida, H. 2006. Pathogenicity of a highly pathogenic avian influenza virus, A/chicken/Yamaguchi/7/04 (H5N1) in different species of birds and mammals. *Arch. Virol.,* 151 : 1267-1279.
5) Ito, H., Ito, T., Hikida, M., Yashiro, J., Otsuka, A., Kida, H. and Otsuki, K. 2006. Outbreak of highly pathogenic avian influenza in Japan and anti-influenza virus activity of povidone-iodine products. *Dermatology.,* 212 : 115-118.
6) Muramoto, Y., Takada, A., Fujii, K., Noda, T., Iwatsuki-Horimoto, K., Watanabe, S., Horimoto, T., Kida, H. and Kawaoka, Y. 2006. Hierarchy among viral RNA (vRNA) segments in their role in vRNA incorporation into influenza A virions. *J. Virol.,* 80 : 2318-2325.
7) Bai, G.R., Sakoda, Y., Mweene, A.S., Fujii, N., Minakawa, H. and Kida, H. 2006. Improvement of a rapid diagnosis kit to de-

tect either influenza A or B virus infections. *J. Vet. Med. Sci.,* 68：35-40.
8) Kida, H. and Sakoda, Y. 2006. Library of influenza virus strains for vaccine and diagnostic use against highly pathogenic avian influenza and human pandemics. *Dev. Biol. (Basel).,* 124：69-72.
9) Noda, T., Sagara, H., Yen, A., Takada, A., Kida, H., Cheng, R.H. and Kawaoka, Y. 2006. Architecture of ribonucleoprotein complexes in influenza A virus particles. *Nature.,* 439：490-492.
10) Muramoto, Y., Ozaki, H., Takada, A., Park, C.H., Sunden, Y., Umemura, T., Kawaoka, Y., Matsuda, H. and Kida, H. 2006. Highly pathogenic H5N1 influenza virus causes coagulopathy in chickens. *Microbiol Immunol.,* 50：73-81.
11) Ohishi, K., Murayama, T., Ninomiya, A., Kida, H., Zenitani, R., Bando, T., Fujise, Y., Nakamatsu, K., Miyazaki, N. and Boltunov, A.N. 2006. Serologic investigation of influenza A virus infection cetaceans from the Western North Pacific and the Southern oceans. *Marine Mammal Sci.,* 22：214-221.
12) Kameyama, K., Sakoda, Y., Tamai, K., Igarashi, H., Tajima, M., Mochizuki, T., Namba, Y. and Kida, H. 2006. Development of an immunochromatographic test kit for rapid detection of bovine viral diarrhea virus antigen. *J. Virol. Methods.,* 138：140-146.
13) Kameyama, K., Sakoda, Y., Tamai, K., Nagai, M., Akashi, H. and Kida, H. 2006. Genetic recombination at different points in the N^{pro}-coding region of bovine viral diarrhea viruses and the potentials to change their antigenicities and pathogenicities. *Virus Res.,* 116：78-84.
14) Shin, J.H., Sakoda, Y., Kim, J.H., Tanaka, T., Kida, H., Kimura, T., Ochiai, K. and Uemura, T. 2006. Efficacy of Intracerebral Immunization against Pseudorabies Virus in Mice. *Microbiol Immunol.,* 50：823-830.
15) Malamo, M., Sakoda, Y., Ozaki, H. and Kida, H. 2006. Development of ELISA to detect antibodies specific to *Mycobacterium avium subsp. paratuberculosis* with truncated 34 kDa proteins. *Jpn. J. Vet. Res.,* 54：99-107.

Publications other than original articles

1) Kida, H. 2006. Highly pathogenic avian influenza virus. *Nichii-journal,* 134：1940-1944. (in Japanese)
2) Kida, H. 2006. Gene pool of influenza virus in nature. *Current Therapy*, 24：1022-1026. (in Japanese)
3) Kida, H. 2006. Ecology of influenza virus. *Medical Science Digest,* 32：4-5. (in Japanese)
4) Matsumoto, K. and Kida, H. 2006. Influenza pandemic. *Kagaku Ryouhou no Ryouiki,* 22：85-90. (in Japanese)

Laboratory of Infectious Diseases
Original articles

1) Konnai, S., Usui, T., Ikeda, M., Kohara, J., Hirata, T., Okada, K., Ohashi, K. and Onuma, M. 2006. Tumor necrosis factor α up-regulation in spontaneously proliferating cells derived from bovine leukemia virus-infected cattle. *Arch. Virol.,* 151：347-360.
2) Imamura, S., Namangala, B., Tajima, T., Tembo, E. M., Yasuda, J., Ohashi. K. and Onuma, M. 2006. Two serine protease in-

hibitor (serpin) that induce a bovine protective immune response against *Rhipicephalus appendiculatus* ticks. *Vaccine,* 24 : 2230-2237.

3) Nakajima, C., Imamura, S., Konnai, S., Yamada, S., Nishikado, H., Ohashi, K. and Onuma, M. 2006. A novel gene encoding a thrombin inhibitory protein in a cDNA library from *Haemaphysalis longicornis* salivary gland. *J. Vet. Med. Sci.,* 68 : 447-452.

4) Tsuda, A., Witola, W. H., Konnai, S., Ohashi, K. and Onuma, M. 2006. The effect of TAO expression on PCD-like phenomenon development and drug resistance in *Trypanosoma brucei*. *Parasitol. Int.,* 55 : 135-142.

5) Kohara, J., Konnai, S. and Onuma, M. 2006. Experimental transmission of Bovine leukemia virus in cattle via rectal palpation. *Jpn. J. Vet. Res.,* 54 : 25-30.

6) Takagi, M., Onuma, M. and Ohashi, K. 2006. The role of a short form of p53 in chicken lymphoblastoid cell lines during apoptosis. *J. Vet. Med. Sci.,* 68 : 561-566.

7) Takagi, M., Ohashi, K. and Onuma, M. 2006. The presence of the *p53* transcripts with truncated open reading frames in Marek's disease tumor-derived cell lines. *Leukemia Res.,* 30 : 987-992.

8) Usui, T., Konnai, S., Ohashi, K. and Onuma, M. 2006. Expression of tumor necrosis factor-α in IgM^+ B-cells from bovine leukemia virus-infected lymphocytotic sheep. *Vet. Immunol. Immunopathol.,* 112 : 296-301.

9) Konnai, S., Usui, T., Ikeda, M., Kohara, J., Hirata, T., Okada, K., Ohashi, K. and Onuma, M. 2006. Tumor necrosis factor-alpha genetic polymorphism may contribute to progression of bovine leukemia virus-infection. *Microb. Infect.,* 8 : 2163-2171.

10) Odbileg, R., Purevtseren, B., Batsukh, Z., Konnai, S., Ohashi, K. and Onuma, M. 2006. Complete cDNA sequences and phylogenetic analysis of Th1 and Th2 cytokines of bactrian camel (Camelus bactrianus). *J. Vet. Med. Sci.,* 68 : 941-946.

11) Konnai, S., Imamura, S., Nakajima, C., Witola, W. H., Yamada, S., Simuunza, M., Nambota, A., Yasuda, J., Ohashi, K. and Onuma, M. 2006. Acquisition and transmission of *Theileria parva* by vector tick, *Rhipicephalus appendiculatus*. *Acta Trop.,* 99 : 34-41.

12) Mingala, C. N., Odbileg, R., Konnai, S., Ohashi, K. and Onuma, M. 2006. Comparative assessment of Th1 and Th2 cytokines of swamp type buffalo and other bubaline breeds by molecular cloning, sequencing and phylogenetics. *Vet. Immunol. Immunopathol.,* 113 : 348-356.

Publications other than original articles

1) Onuma, M. and Igimi, M. 2006. Various recognition of foreign antigens and microbial infectious. *J. Vet. Med.,* 59 : 553-554. (in Japanese).

2) Nakajima, C. and Onuma, M. 2006. Search for variable biological molecules derived from tick salivary glnd --development of new anti-tick vaccine--. *J. Vet. Med.,* 59 : 735-742. (in Japanese).

3) Onuma, M. 2006. Infection and Infectious diseases (General Introduction), bovine leukosis and Maedi-visna virus infection, et al. In : *Infectious Diseases of Animals,* Onuma, M. et al eds., pp. 2-46, 62-67, 76-90, 110. (in Japanese).

4) Ohashi, K. 2006. Marek's diseases, Avian leukosis, Egg drop syndrome 1976, et al. In : *Infectious Diseases of Animals,* Onuma, M. et al eds., pp. 204-205, 210, 212. (in Japanese).

Laboratory of Parasitology
Original articles

1) Nonaka, N., Kamiya, M. and Oku, Y. 2006. Towards the control of *Echinococcus multilocularis* in the definitive host in Japan. *Parasitol. Int.,* 55 : S263-S266.

2) Sarashina, T., Uzuki, Y., Tanabe, S., Oku, Y., Watanabe, Y., Kurosawa, N. and Nishimura, M. 2006. Survey of coccidial oocysts and parasite eggs in feces of free-ranging *Grus japonensis*. *J. Vet. Med. Sci.,* 68 : 873-875.

3) Marco, J. D., Bhutto, A. M., Soomro, F. R., Baloch, J. H., Barroso, P. A., Kato, H., Uezato, H., Katakura, K., Korenaga, M., Nonaka, S. and Hashiguchi, Y. 2006. Multilocus enzyme electrophoresis and cytochrome b gene sequencing-based identification of *Leishmania* islates from different foci of cutaneous leishmaniasis in Pakistan. *Am. J. Trop. Med. Hyg.,* 75 : 261-266.

4) Namikawa, K., Watanabe, M., Lynchi, J., Sugaki, Y., Kitai, T., Sunaga F., Katakura, K. and Ogata, M. 2006. A canine case of *Leishmania infantum* infection in Japan. *Jpn. J. Vet. Dermatol.,* 12 : 11-15. (in Japanese with English abstract)

5) Matoba, Y., Yamada, D., Asano, M., Oku, Y., Kitaura, K., Yagi, K., Tenora, F. and Asakawa, M. 2006. Parasitic helminthes from feral raccoons (*Procyon lotor*) in Japan. *Helminthologia,* 43 : 139-146.

6) Kamiya, M., Lagapa, J. T., Ganzorig, S., Kobayashi, F., Nonaka, N. and Oku, Y. 2007. Echinococcosis risk among domestic definitive hosts, Japan. *Emerg. Inf. Dis.,* 13 : 346-347.

7) Okamoto, M., Oku, Y., Kurosawa, T. and Kamiya, M. 2007. Genetic uniformity of *Echinococcus multilocularis* collected from different intermediate host species in Hokkaido, Japan. *J. Vet. Med. Sci.,* 69 : 159-163.

8) Ganzorig, S., Oku, Y., Gardner, S. L. and Kamiya, M. 2007. Multiplication of ovaries in *Ctenotaenia marmotae* (Frolich, 1802) (Cestoda : Anoplocephalidae). *Comp. Parasitol.,* 74 : 151-153.

9) Kamiya, M., Lagapa, J. T. G., Nonaka, N., Ganzorig, S., Oku, Y. and Kamiya, H. 2006. Current control strategies targeting sources of echinococcosis in Japan. *Rev. Sci. Tech. Off. Int. Epiz.,* 25 : 1055-1066.

10) Kanai, Y., Inoue, T., Mano, T., Nonaka, N., Katakura, K. and Oku, Y. 2007. Epizootiological survey of *Trichinella* spp. infection in carnivores, rodents and insectivores in Hokkaido, Japan. *Jpn. J. Vet. Res.,* 54 : 175-182.

11) Kanai, Y., Nonaka, N., Katakura, K. and Oku, Y. 2006. *Trichinella nativa* and *Trichinella* T9 in the Hokkaido island, Japan. *Parasitol. Int.,* 55 : 313-315.

12) Chang, S. L., Ooi, H. K., Nonaka, N., Kamiya, M. and Oku, Y. 2006. Development of *Taenia saginata asiatica* cysticerci to infective stage and its tapeworm stage in Mongolian gerbils. *J. Helminthol.,* 80 : 219-223.

13) Kawai, S., Ikeda, E., Sugiyama, M., Matsumoto, J., Higuchi, T., Zhang, H., Khan, N., Tomiyoshi, K., Inoue, T., Yamaguchi, H., Katakura, K., Endo, K., Matsuda, H., Suzuki, M. 2006. Enhancement of splenic glucose metabolism during acute malarial infection : correlation of findings of FDG-PET imaging with pathological changes in a primate model of severe human malaria . *Am. J. Trop. Med. Hyg.,* 74 : 353

-360.

14) Elkhateeb, A., Yamada, K., Takahashi, K., Matsuura, H., Yamasaki, M., Maede, Y., Katakura, K., Nabeta, K. 2007. Antibabesial compounds from *Berberis vulgaris*. *Nat. Prod. Commun.,* 2 : 173-175.

Publications other than original articles

1) Inagakai, M., Nonaka, N., Inoue, T., Yagi, K., Katakura, K. and Oku, Y. 2007. Improvement of copro-DNA detection for diagnosis in prepatent period of *Echinococcus multilocularis* infection in dogs. *Jpn. J. Vet. Parasitol.,* 5 : 35. (in Japanese)

2) Oku, Y., Iwaki, T., Ganzorig, S., Nonaka, N., Miyahara, T., Okazaki, K. and Kamiya, M. 2007. Control trial against *Echinococcus multilocularis* by local residents. *Jpn. J. Vet. Parasitol.,* 5 : 36. (in Japanese)

3) Tsubota, K., Nakatsuji, S., Anagawa, A., Murakami, Y., Ikegami, H., Okazaki, Y., Yoshizawa, K., Fujihira, S., Matsumoto, M., Oku, Y. and Oishi, Y. 2007. *Cysticercus tenuicollis* infection in a cynomolgus monkey. *Jpn. J. Vet. Parasitol.,* 5 : 30. (in Japanese)

4) Taniguchi, S., Osanai, Y., Matsumoto, J., Uezato, H., Kato, H., Bhutto, A. H., Soomro, F. R., Marco, J. D., Barroso, P. A., Hashiguchi, Y. and Katakura, K. 2007. Analysis of *Leishmania* proteins for the serodiagnosis of cutaneous leishmaniasis in Pakistan. *Jpn. J. Vet. Parasitol.,* 5 : 56. (in Japanese)

5) Nonaka, N., Inoue, T., Sano, T., Katakura, K., Fukui, D. and Oku, Y. 2006. Identification of animals excreting feces collected in field for epizootiological studies of echinococcosis. *Jpn. J. Vet. Parasitol.,* 4 : 38.

6) Kamihiro, S., Nonaka, N., Katakura, K., Yagi, K. and Oku, Y. 2006. Copro-DNA diagnosis of prepatent infection with *Echinococcus multilocularis* in combination with anthelmintic treatment. *Jpn. J. Vet. Parasitol.*, 4 : 39.

7) Chang, S. L., Nonaka, N., Ooi, H. K., Kamiya, M. and Oku, Y. 2006. Larval development of *Taenia asiatica* in scid mice and gerbils and their infectivity to humans and alternative definitive hosts. *Jpn. J. Vet. Parasitol.,* 4 : 40.

8) Nonaka, N. 2007. Hookworm infection. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 581-583. (in Japanese)

9) Nonaka, N. 2007. Roundworm infection. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 669-672. (in Japanese)

10) Nonaka, N. 2007. Coccidiosis. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 696-698. (in Japanese)

11) Nonaka, N. 2007. Giardiosis. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 694-695. (in Japanese)

12) Nonaka, N. 2007. Trichomonad enteritis. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 692-693. (in Japanese)

13) Nonaka, N. 2007. Amebic colitis. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 689-691. (in Japanese)

14) Nonaka, N. 2007. Whipworm infection. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 686-688. (in Japanese)

15) Oku, Y. 2007. Cestodiasis. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 708-719. (in Japanese)

16) Oku, Y. 2007. Toxoplasmosis. In : *Canine*

Practice based on the major clinical signs. Maede, Y. ed., Dairyman, Sapporo, pp. 315-317. (in Japanese)
17) Oku, Y. 2007. Neosporosis. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 318-320. (in Japanese)
18) Katakura, K. 2007. Cryptosporidiosis. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 701-702. (in Japanese)
19) Katakura, K. 2007. Leishmaniasis. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 228-230. (in Japanese)
20) Katakura, K. 2007. Coccidioidomycosis. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 165-166. (in Japanese)
21) Matsumoto, J. and Katakura, K. 2007. Schistosomiasis japonica. In : *Canine Practice based on the major clinical signs.* Maede, Y. ed., Dairyman, Sapporo, pp. 725-726. (in Japanese)

Laboratory of Experimental Animal Science
Original articles

1) Cho, A-R., Uchio-Yamada, K., Torigai, T., Miyamoto, T., Miyoshi, I., Matsuda, J., Kurosawa, T., Kon, Y., Asano, A., Sasaki, N. and Agui, T. 2006. Deficiency of the tensin 2 gene in the ICGN mouse, an animal model for congenital nephrotic syndrome. *Mamm. Genome,* 17 : 407-416.
2) Masuda, K., Miyamoto, T., Cho, A-R. and Agui, T. 2006. Analysis of the cell cycle of fibroblasts derived from the LEC rat after X-irradiation. *Jpn. J. Vet. Res.,* 53 : 141-148.
3) Agui, T. 2006. *IV-E* 1. *Use of Laboratory Animals.,* VII-A 3 (1). Infectious diseases in livestock and vaccine. In : *Handbook of Experimental Immunology*. Ed. Izumi Nakashima, The University of Nagoya Press, p170-174, p325 (in Japanese)
4) Izawa, M., Kitamura, N., Odake, N., Maki, F., Kanehira, K., Nemoto, H., Yamaguchi, M., Yamashita, A., Sasaki, N., Hattori, M., Kanayama, S. and Yoneda, Y. 2006. A rapid and simple transcriptional sequencing method for GC-rich DNA regions. *Jpn. J. Vet. Res.,* 53 : 159-68.

Laboratory of Internal Medicine
Original articles

1) Yamato, O., Jo. EO., Satoh, H., Yamauchi, T., Kobayashi, A., Yamasaki, M. and Maede, Y. 2006. Use of aminion and placenta in neonatal screening for canine GM-1-gangliosidsis and the risk of diagnostic misclassifications. *Veterinary Clinical Pathology.,* 35 : 91-94.
2) Hasegawa, D., Yamato, O., Kobayashi, M., Fujita, M., Nakamura, S., Takahashi, K., Satoh, H., Shoda, T., Hayashi, D., Yamasaki, M., Maede, Y., Arai, T. and Orima, H. 2006. Clinical and molecular analysis of GM2 gangliosidosis in two apparent littermate kittens of Japanese domestic cat. *J. Feline Med. Surg.* (in Press)

Laboratory of Veterinary Surgery
Original articles

1) Bosnakovski, D., Mizuno, M., Kim, G., Takagi, S., Okumura, M. and Fujinaga, T. 2006. Chondrogenic differentiation of bovine bone marrow mesenchymal stem cells (MSCs) in different hydrogels : influence of collagen type II extracellular matrix on MSC chondrogenesis. *Biotechnol. Bioeng.,* 93 : 1152-1163.

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1) Takagi, S., Okumura, M., Shimada, K. and Fujinaga, T. 2006. The clinical efficacy and palatableness of "Agaricus and Shark Cartilage 2" in tumor bearing dogs. *Jpn. J. Small Anim. Pract.,* 25 : 346-353. (in Japanese with English summary)

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8) Okumura, M. 2006. Inflammatory arthropathies in dogs. *Tech. Mag. Vet. Surg.,* 10 : 56-61. (in Japanese)

9) Okumura, M. 2006. Canine osteoarthritis. *SV Report,* 37 : 1-8. (in Japanese)

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13) Okumura, M. 2006. Essence of fracture repair in dogs. *InfoVets*, 9：27-32. (in Japanese)
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16) Osaki, T. and Okumura, M. 2006. Pathophysiology and Management of instability and luxation of shoulder joints in small dogs. *InfoVets*, 9：48-53. (in Japanese)
17) Hashimoto, Y., Kon, Y., Okumura, M. and Ito, S. 2006. Trial of reduction and replacement of animal usage in veterinary education. Current situation of veterinary anatomy and veterinary surgery in European countries. *J. Clin. Vet. Med.*, 24：1-8. (in Japanese)

Laboratory of Comparative Pathology
Original articles

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6) Umemura, T. and Wako, Y. 2006. Pathogenesis of osteomalacia in itai-itai disease. *J. Toxicol. Pathol.,* 19：69-74.
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Laboratory of Theriogenology
Original articles

1) Malcuit, C., Maserati, M., Takahashi, Y., Page, R. and Fissore, R.A. 2006. Intracytoplasmic sperm injection in the bovine induces abnormal $[Ca^{2+}]i$ responses and oocyte activation. *Reprod. Fertil. Dev.,* 18 : 39-51.

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5) Katagiri, S. 2006. Textbook of Theriogenology, 3rd Edition. Eds. Hamana, K., Nakao T. and Tsumagari, S. Buneido Pub. Co. Ltd., Tokyo, pp. 49-60 (*in Japanese*).

Laboratory of Molecular Medicine
Original articles

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Laboratory of Public Health
Original artlcles

1) Baek, L. J., Kariwa, H., Lokugamage, K., Yoshimatsu, K., Arikawa, J., Takashima, I., Kang, J. I., Moon, S. S., Chung, S. Y., Kim, E. J., Kang, H. J., Song, K. J., Klein, T. A., Yanagihara, R. and Song, J. W. 2006. Soochong virus : an antigenically and genetically distinct hantavirus isolated from *Apodemus peninsulae* in Korea. *J. Med. Virol.,* 78 : 290-297.

2) Shirato, K., Miyoshi, H., Kariwa, H. and Takashima, I. 2006. The kinetics of proinflammatory cytokines in murine peritoneal macrophages infected with envelope protein-glycosylated or non-glycosylated West Nile virus. *Virus Res.,* 121 : 11-16.

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Laboratory of Radiation Biology
Original articles

1) Asanuma, T., Kawahara, T., Inanami, O., Nakao, M., Nakaya, K., Ito, A., Takiguchi, M., Hashimoto, A. and Kuwabara, M. 2006. Magnetic resonance imaging of alveolar echinococcosis experimentally induced in the rat lung. *J. Vet. Med. Sci.,* 68 : 15-20.
2) Niwa, K., Sakai, J., Karino, T., Aonuma, H., Watanabe, T., Ohyama, T., Inanami O. and Kuwabara, M. 2006. Reactive oxygen species mediate shear stress-induced fluid-phase endocytosis in vascular endothelial cells. *Free Radic. Res.,* 40 : 167-174.
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4) Takahashi, E., Inanami, O., Asanuma, T. and Kuwabara, M. 2006. Effects of ceramide inhibition on radiation-induced apoptosis in human leukemia MOLT-4 cells. *J. Radiat. Res.,* 47 : 19-25.
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Laboratory of Toxicology
Original articles

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5) Muzandu, K., Ishizuka, M., Sakamoto, K. Q., Shaban, Z., El, Bohi, K., Kazusaka, A. and Fujita, S. 2006. Effect of lycopene and beta-carotene on peroxynitrite-mediated cellular modifications. *Toxicol. Appl. Pharmacol.,* 215 : 330-340.

Laboratory of Wildlife Biology
Original articles

1) Onuma, M., Suzuki, M. and Ohtaishi, N. 2006. Possible conservation units of the sun bear (*Helarctos malayanus*) in Sarawak based on variation of mtDNA control region. *Jpn. J. Vet.Res.,* 54 : 135-139.
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Laboratory of Prion Diseases
Original articles

1) Horiuchi, M., Furuoka, H., Kitamura, N. and Shinagawa, M. 2006. Alymphoplasia mice are resistant to prion infection via oral route. *Jpn. J. Vet Med.,* 53 : 150-159.
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Veterinary Teaching Hospital
Original articles

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Research Center for Zoonosis Control

Department of Global Epidemiology
Original articles

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