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PUBLICATIONS BY THE STAFF OF THE GRADUATE
SCHOOL OF VETERINARY MEDICINE

Laboratory of Anatomy
Original articles

- 1) Nakamura T., Asano, A., Okano, A., Ko, J. H., Kon, Y., Watanabe, T. and Agui, T. 2005. Intracellular localization and their antiviral property of canine Mx proteins. *J. Interferon Cytokine Res.*, 25 : 169-173.
- 2) Okano S., Asano, A., Sasaki, N., Kon, Y., Watanabe, T. and Agui, T. 2005. Examination of the Lunatic fringe and *Uncx 4.1* expression by whole-mount in situ hybridization in the embryo of the CKH-*Jsr* (jumbled spine and ribs) mouse. *Jpn. J. Vet. Res.*, 52(4) : 145-149.
- 3) Shimizu, T., Oishi, T., Omori, A., Sugiura, A., Hirota, K., Aoyama, H., Shimamoto, Y., Kon, Y., Fukamizu, A. and Tanimoto, K. 2005. Transgenic co-placement strategy reveals a cell-type dependent role for direct repeat sequences in human angiotensinogen gene transcription in BAC transgenic mice. *Mol. Cell. Biol.*, 25(8) : 2938-2945.
- 4) Endoh, D., Mizutani, T., Kirisawa, R., Maki, Y., Saito, H., Kon, Y., Morikawa, S. and Hayashi, M. 2005. Species-independent detection of RNA virus by representational difference analysis using non-ribosomal hexanucleotides for reverse transcription. *Nucleic Acids Res.*, 33(6) : e65.
- 5) Namiki, Y., Kon, Y., Kazusa, K., Asano, A., Sasaki, N. and Agui, T. 2005. Genetic linkage analysis of heat stress resistance of spermatocytes in the MRL/MpJ mouse. *Mammal. Genome*, 16(2) : 96-102.
- 6) Tamura, J., Konno, A., Hashimoto, Y. and Kon, Y. 2005. Upregulation of renal renin-angiotensin system in mouse diabetic nephropathy. *Jpn. J. Vet. Res.*, 53(1-2) : 13-26.
- 7) Nio, J., Kon, Y. and Iwanaga, T. 2005. Differential cellular expression of galectin family mRNAs in the epithelial cells of the mouse digestive tract. *J. Histochem. Cytochem.*, 53(11) : 1323-1334.
- 8) Hayashi, M., Miyake, K., Senou, M., Endoh, D., Higuchi, H., Nagahata, H., Nakayama, K., Kon, Y. and Okui, T. 2005. Inhibitory effects of trientine, a copper-chelating agent, on induction of DNA strand breaks in kidney cells of Long-Evans Cinnamon (LEC) rats. *Exp. Anim.*, 54(5) : 403-412.
- 9) Kimura, K., Nijjima, A., Yoshida, R., Kitamura, T., Kamikawa, A., Furuya, D.T., Kitamura, N., Konno, A., Nakamoto, H., Sakane, N., Yoshida, T. and Saito, M. 2005. Proinsulin C-peptide activates vagus efferent output in rats. *Peptides*, 26(12) : 2547-2553.
- 10) Kitamura, N., Konno, A., Kuwahara, T., and Komagiri, Y. 2005. Nerve growth factor-induced hyperexcitability of rat sensory neuron in culture. *Biomed. Res.*, 26(3) : 123-130.
- 11) Takada, K., Takiguchi, M., Konno, A. and Inaba, M. 2005. Autoimmunity against a tissue kallikrein in IQI/Jic mice, a model for Sjogren's syndrome. *J. Biol. Chem.*, 280(5) : 3982-3988.

Articles other than original

- 1) Kon, Y. 2005. Textbook of Veterinary Histology. 3rd edition. Chapter 1, Cytology. Gakusosha, p 1-15 (in Japanese).
- 2) Kon, Y. 2005. Textbook of Veterinary Histology. 3rd edition. Chapter 19, Avian Histology, Urinary system. Gakusosha, p 277-279 (in Japanese).
- 3) Kon, Y. 2005. Morpho-genetic investigation of metaphase-specific cell death in meiotic spermatocytes in mice. *Anat. Sci. Int.*, 80 : 141-152.
- 4) Hashimoto, Y. 2005. Textbook of Veterinary Histology, 3rd edition. Chapter 9 : Lymphatic organs. Gakusosha, p107-119 (in Japanese).
- 5) Hashimoto, Y. 2005. Textbook of Veterinary Histology, 3rd edition. Chapter 19 : Avian Histology, lymphatic organs. Gakushosha, p264-265 (in Japanese).
- 6) Hashimoto, Y. 2005. Nomina Anatomica Veterinaria, 5th edition, 「TERMINI SITUM ET DIRECTIONEMPARTIUM CORPORIS INDICANTES, TERMINI GENERALES」 P. 1-25. International Committee on Veterinary Gross Anatomical Nomenclatures, World Association of Veterinary Anatomists.

Laboratory of Physiology
Original articles

- 1) Otsuguro, K., Gautam, S. H., Ito, S., Habara, Y. and Saito, T. 2005. Characterization of forskolin-induced Ca^{2+} signals in rat olfactory receptor neurons. *J. Pharmacol. Sci.*, 97 : 510-518
- 2) Sato, K., Ponganis, P. J., Habara, Y. and Naito, Y. 2005. Emperor penguins adjust swim speed according to the above-water height of ice holes through which they exit. *J. Exp. Biol.*, 208 : 2549-2554
- 3) Yamaguchi, S. and Ishikawa, T. 2005. Electrophysiological characterization of native Na^+ - HCO_3^- cotransporter current in bovine parotid acinar cells. *J. Physiol.*, 568 (Pt 1) : 181-197

Laboratory of Biochemistry
Original articles

- 1) Ishioka, K., Okumura, M., Sagawa, M., Nakadomo, F., Kimura, K. and Saito, M. 2005. Computed tomographic assessment of body fat in beagles. *Vet. Radiol. Ultrasound*, 46 : 49-53.
- 2) Ishioka, K., Hatai, H., Komabayashi, K., Soliman, M. M., Shibata, H., Honjoh, T., Kimura, K. and Saito, M. 2005. Diurnal variations of serum leptin in dogs : effects of fasting and re-feeding. *Vet. J.*, 169 : 85-90.
- 3) Inokuma, K., Ogura-Okamatsu, Y., Toda, C., Kimura, K., Yamashita, H. and Saito, M. 2005. Uncoupling protein 1 is necessary for norepinephrine-induced glucose utilization in brown adipose tissue. *Diabetes*, 54 : 1385-1391.
- 4) Kontani, Y., Wang, Y., Kimura, K., Inokuma, K., Saito, M., Suzuki, T., Wang, Z., Sato, Y., Mori, N. and Yamashita, H. 2005. UCP 1 deficiency increases susceptibility to diet-induced obesity with age.

- Aging Cell*, 4 : 147-155.
- 5) Shibata, H., Akahane, R., Honjoh, T., Asano, M., Mominoki, K., Fujii, K., Suzuki, M., Ohtaishi, N., Ishioka, K., Ahmed, M. M., Solilman, M. M., Kimura, K. and Saito, M. 2005. Seasonal changes in serum leptin of the feral raccoon (*Procyon lotor*) determined by canine-leptin-specific ELISA. *J. Exp. Zool.*, 303A : 527-533.
 - 6) Moore, M.C., Kimura, K., Shibata, H., Honjoh, T., Saito, M., Everett, C.A., Smith, M.S. and Cherrington, A.D. 2005. Portal 5-hydroxytryptophan infusion enhances glucose disposal in conscious dogs. *Am. J. Physiol. Endocrinol. Metab.*, 289 : E225-E231.
 - 7) Kimura, K., Nijima, A., Yoshida, R., Kitamura, T., Kamikawa, A., Furuya, D. T., Kitamura, N., Konno, A., Nakamoto, H., Sakane, N., Yoshida, T. and Saito, M. 2005. Proinsulin C-peptide activates vagus efferent output in rats. *Peptides*, 26 : 2547-2553.
 - 8) Jeusette, I. C., Detilleux, J., Shibata, H., Saito, M., Honjoh, T., Delobel, A., Istasse, L. and Diez, M. 2005. Effects of chronic obesity and weight loss on plasma ghrelin and leptin concentrations in dogs. *Res. Vet. Sci.*, 79 : 169-175.
 - 9) Knudson, J.D., Dincer, U.D., Dick, G.M., Shibata, H., Akahane, R., Saito, M. and Tune, J.D. 2005. Leptin resistance extends to the coronary vasculature in prediabetic dogs and provides a protective adaptation against endothelial dysfunction. *Am. J. Physiol. Heart Circ. Physiol.*, 289 : H1038-H1046.
 - 10) Mominoki, K., Morimatsu, M., Karjalainen, M., Hohtola, E., Hissa, R. and Saito, M. 2005. Elevated plasma concentrations of haptoglobin in European brown bears during hibernation. *Comp. Biochem. Physiol.*, 142 : 472-477.

Publications other than original articles

- 1) Matsushita, Y. and Saito, M. 2005. Obesity and genes. *Taiiku no kagaku*, 55 : 194-198. (in Japanese)
- 2) Inokuma, K., Okamatsu-Ogura, Y. and Saito, M. 2005. UCP1 is necessary for anti-obesity effect of $\beta 3$ agonist. *Himank-enkyu*, 11 : 188-190. (in Japanese)
- 3) Saito, M. 2005. Studies on the control mechanism of energy metabolism and its relation to obesity. *J. Hokkaido Vet. Med. Assoc.*, 49 : 305-307. (in Japanese)
- 4) Kimura, K. 2005. Biological effects of proinsulin C-peptide. *Seikagaku*, 77 : 419-423. (in Japanese)
- 5) Hardie, G. and Saito, M. 2005. AMP-activated protein kinase : signal transduction mechanism and physiological roles. *Adiposciences*, 2 : 404-413. (in Japanese)
- 6) Saito, M. 2005. Dietary control of energy dissipating UCP. *Brain techno news*, 110 : 1-4. (in Japanese)
- 7) Saito, M. 2005. Obesity, lifestyle-related diseases and dietary factors. *Brain techno news*, 110 : 5-9. (in Japanese)

Laboratory of Pharmacology

Original articles

- 1) Otsuguro, K., Yasutake, S., Ohta, T. and Ito, S. 2005. Effects of opioid receptor and α_2 -adrenoceptor agonists on slow ventral root potentials and on capsaicin and for-

- malin tests in neonatal rats. *Dev. Brain Res.*, 158(1-2): 50-58.
- 2) Otsuguro, K., Gautam, S.H., Ito, S., Habara, Y. and Saito, T. 2005. Characterization of forskolin-induced Ca^{2+} signals in rat olfactory receptor neurons. *J. Pharmacol. Sci.*, 97(4): 510-518.
 - 3) Ohta, T., Kubota, A., Murakami, M., Otsuguro, K. and Ito, S. 2005. P2X₂ receptors are essential for $[Ca^{2+}]_i$ increases in response to ATP in cultured rat myenteric neurons. *Am. J. Physiol. Gastrointest Liver Physiol.*, 289: G935-G948.
 - 4) Ohta, T., Komatsu, R., Imagawa, T., Otsuguro, K. and Ito, S. 2005. Morecloning, functional characterization of the porcine transient receptor potential V1 (pTRPV1) and pharmacological comparison with endogenous pTRPV1. *Biochem. Pharmacol.*, 71: 173-187.

Laboratory of Microbiology Original articles

- 1) Kishida, N., Sakoda, Y., Isoda, N., Matsuda, K., Eto, M., Sunaga, Y., Umemura, T. and Kida, H. 2005. Pathogenicity of H5 influenza viruses for ducks. *Arch. Virol.*, 150: 1383-1392.
- 2) Matsuda, K., Shibata, T., Sakoda, Y., Kida, H., Kimura, T., Ochiai, K. and Umemura, T. 2005. In vitro demonstration of neural transmission of avian influenza A virus. *J. Gen. Virol.*, 86: 1131-1139.
- 3) Takeda, S., Sbagyo, A., Sakoda, Y., Ishii A., Sawamura, M., Sueoka, K., Kida, H., Mukasa, K. and Matsumoto, K. 2005. Application of carbon nanotubes for detecting anti-hemagglutinins based on antigen-antibody interaction. *Biosensors and Bioelectronics*, 21: 201-205.
- 4) Bai, G., Sakoda, Y., Mweene, A. S., Yamada, T., Minakawa, H. and Kida, H. 2005. Evaluation of the ESPLINE INFLUENZA A&B-N kit for the diagnosis of avian and swine influenza. *Microbiol. Immunol.*, 49: 1063-1067.
- 5) Odontsetseg, N., Sakoda, Y. and Kida, H. 2005. Serological evidence of the persistence of infection with *Leptospira interrogans* serovar Hardjo in cattle in Mongolia. *Microbiol. Immunol.*, 49: 865-869.
- 6) Odontsetseg, N., Sakoda, Y. and Kida, H. 2005. Serological surveillance of canine leptospirosis in Mongolia. *Vet. Rec.*, 157: 120-121.
- 7) Odontsetseg, N., Boldbaatar, D., Mweene, A.S. and Kida, H. 2005. Serological prevalence of *Leptospira interrogans* serovar Bratislava in horses in Mongolia. *Vet. Rec.*, 157: 518-519.

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- 1) Kishida, N. and Kida, H. 2005. Avian influenza. *Kagaku Ryohou no Ryouiki*, 21: 1419-1423. (in Japanese)
- 2) Kida, H. 2005. Countermeasures to control avian and human influenza-upon the basis of the origin and evolution of influenza viruses. *Sougou Rinshou*, 54: 275-277. (in Japanese)
- 3) Kida, H. 2005. Zoonoses. *The Lung perspectives*, 13: 298-301.
- 4) Kida, H. 2005. Program for the Control of Zoonoses at Hokkaido University. *Month. J. MEXT (Monbu-Kagaku Jiho)*, # 1551: 40-41. (in Japanese)
- 5) Kida, H. 2005. Avian influenza H5N1 viruses as the origin of human influenza vi-

- ruses. *Visual Review*, 35 : 219-227. (in Japanese)
- 6) Kida, H. 2005. Highly pathogenic avian influenza, SARS, and Filovirus infections. *Kensa to Gijutsu*, 33 : 1170. (in Japanese)
- 7) Kida, H. 2005. Small pet animals and influenza viruses. In : *Virus Infections of Dog, Cat, and Small Pets*. Mochizuki, M. (Ed.), 253-258. Gakusousha, Tokyo. (in Japanese)

Laboratory of Infectious Diseases Original articles

- 1) Witola, W.H., Inoue, N., Ohashi, K. and Onuma, M. 2005. Genetic variability in ESAG6 genes among *Trypanosoma evansi* isolates and in comparison to other *Trypanozoon* members. *Acta. Trop.*, 93 : 63-73.
- 2) da Silva Vaz, I. Jr., Imamura, S., Nakajima, C., de Cardoso, F. C., Ferreira, C.A.S., Renard, G., Masuda, A., Ohashi, K. and Onuma, M. 2005. Molecular cloning and sequence analysis of cDNAs encoding for *Boophilus microplus*, *Haemaphysalis longicornis* and *Rhipicephalus appendiculatus* actins. *Vet. Parasitol.*, 127 : 147-155.
- 3) Imamura, S., Itabajara, S.V., Sugino, M., Ohashi, K. and Onuma, M. 2005. A serine protease inhibitor (serpin) from *Haemaphysalis longicornis* as an anti-tick vaccine. *Vaccine*, 23 : 1301-1311.
- 4) Odbileg, R., Konnai, S., Usui, T., Ohashi, K. and Onuma, M. 2005. Quantification of llama inflammatory cytokine mRNAs by real-time RT-PCR. *J. Vet. Med. Sci.*, 67 : 195-198.
- 5) Toyoda, T., Ochiai, K., Ohashi, K., Tomioka, T., Kimura, T. and Umemura, T. 2005. Multiple perineuriomas in chicken (*Gallus gallus domesticus*). *Vet. Pathol.*, 42 : 176-183.
- 6) Odbileg, R., Lee, S.I., Yoshida, R., Chang, K.S., Ohashi, K. and Onuma, M. 2005. Cloning and sequence analysis of llama (*Lama glama*) Th2 (IL-4, IL-10 and IL-13) cytokines. *Vet. Immunol. Immunopathol.*, 104 : 145-153.
- 7) Kozasa, T., Tajima, M., Yasutomi, I., Sano, K., Ohashi, K. and Onuma, M. 2005. Relationship of bovine diarrhea virus persistent infection to incidence of diseases on dairy farms based on bulk tank milk test by RT-PCR. *Vet. Microbiol.*, 106 : 41-47.
- 8) Pham, H.M., Nakajima, C., Ohashi, K. and Onuma, M. 2005. Loop-mediated isothermal amplification for rapid detection of Newcastle disease virus. *J. Clin. Microbiol.*, 43 : 1646-1650.
- 9) Ohya, K., Matsumura, T., Itchoda, N., Ohashi, K., Onuma, M. and Sugimoto, C. 2005. Ability of orally administered IFN-alpha-containing transgenic potato extracts to inhibit *Listeria monocytogenes* infection. *J. Interferon Cytokine Res.*, 25 : 459-466.
- 10) Chang, K-S., Ohashi, K., Lee, S.-I., Takagi, M. and Onuma, M. 2005. Detection of the *meq* gene in the T cell subsets from chickens infected with Marek's disease virus serotype 1. *Jpn. J. Vet. Res.*, 53 : 3-11.
- 11) Tsuda, A., Witola, W. H., Ohashi, K. and Onuma, M. 2005. Expression of alternative oxidase inhibits programmed cell death-like phenomenon in bloodstream form of *Trypanosoma brucei rhodesiense*. *Parasitol. Int.*, 54 : 243-251.
- 12) Konnai, S., Usui, T., Ikeda, M., Kohara, J., Hirata, T.I., Okada, K., Ohashi, K. and Onuma, M. 2005. Imbalance of tumor ne-

- crossis factor receptors during progression in bovine leukemia virus infection. *Virology*, 339 : 239-248.
- 13) He, W., Ohashi, K., Sugimoto, C. and Onuma, M. 2005. Cloning and characterization of cDNA encoding a prohibitin-like protein from *Theileria orientalis*. *Jpn. J. Vet. Res.*, 53 : 27-35.
- 14) Odbileg, R., Konnai, S., Ohashi, K. and Onuma, M. 2005. Molecular cloning and phylogenetic analysis of inflammatory cytokines of *Camelidae* (llama and camel). *J. Vet. Med. Sci.*, 67 : 921-925.
- 15) He, W., Ohashi, K., Sugimoto, C. and Onuma, M. 2005. *Theileria orientalis* : Cloning a cDNA encoding a protein similar to thiol protease with haemoglobin-binding activity. *Exp. Parasitol.*, 111 : 143-153.
- 16) Witola, W.H., Tsuda, A., Inoue, N., Ohashi, K. and Onuma, M. 2005. Acquired resistance to berenil in a cloned isolate of *Trypanosoma evansi* is associated with upregulation of a novel gene, TeDR40. *Parasitology*, 131 : 635-646.
- 17) Ikeda, M., Konnai, S., Onuma, M., Ishiguro, N., Goryo, M. and Okada, K. 2005. Immunohistochemical analysis of expression patterns of tumor necrosis factor receptors on lymphoma cells in enzootic bovine leukosis. *J. Vet. Med. Sci.*, 67 : 425-432.
- 18) Nakamura, K., Sakamoto, K., Kido, Y., Fujimoto, Y., Suzuki, T., Suzuki, M., Yabu, N., Ohta, N., Tsuda, A., Onuma, M. and Kita, K. 2005. Mutational analysis of the *Trypanosoma vivax* alternative oxidase : the E(X)6Y motif is conserved in both mitochondrial alternative oxidase and plastid terminal oxidase and is indispensable for enzyme activity. *Biochem. Biophys. Res. Commun.*, 334 : 593-600.
- 19) Pham, H.M., Konnai, S., Usui, T., Chang, K-S., Murata, S., Mase, M., Ohashi, K. and Onuma, M. 2005. Rapid detection and differentiation of Newcastle disease virus by real-time PCR with melting-curve analysis. *Arch. Virol.*, 150 : 2429-2438.
- 20) Nakajima, C., Da Siva Vaz, I., Imamura, S., Konnai, S., Ohashi, K. and Onuma, M. 2005. Random sequencing of cDNA library derived from partially-fed adult female *Haemaphysalis longicornis* salivary gland. *J. Vet. Med. Sci.*, 67 : 1127-1131.
- 21) Okada, K., Nakane, N., Kuramochi, K., Yin, S.A., Takami, S., Hirata, T., Goryo, M., Numakunai, S., Takeshima, S.N., Takashima, M., Tajima, S., Konnai, S., Onuma, M. and Aida, Y. 2005. Bovine leukemia virus high tax molecular clone experimentally induces leukemia / lymphoma in sheep. *J. Vet. Med. Sci.*, 67 : 1231-1235.
- 22) Ozawa, M., Ohashi, K. and Onuma, M. 2005. Identification and characterization of peptides binding to Newcastle disease virus by phage display. *J. Vet. Med. Sci.*, 67 : 1237-1241.
- 23) Hatai, H., Ochiai, K., Tomioka, Y., Toyoda, T., Hayashi, K., Toda, K., Ohashi, K., Ono, E., Kimura, T. and Umemura, T. 2005. Nested polymerase chain reaction for detection of the avian leucosis virus causing so-called fowl glioma. *Avian Pathol.*, 34 : 473-479.

Publications other than original articles

- 1) Onuma, M. 2005. Bovine leukemia. In : *Biosecurity in dairy farms* (Nagahata, H. ed.) pp100-105. Research & Development Center for Dairy Farming. (in Japanese)
- 2) Onuma, M. 2005. Vaccine-induced immunity against infectious diseases. In: *Dairy Journal* pp20-23. Rakuno Gakuen University Extension Center (in Japanese)

Laboratory of Parasitology
Original articles

- 1) Casaravilla, C., Malgor, R., Rossi, A., Sakai, H., Nonaka, N., Kamiya, M. and Carmona, C. 2005. Production and characterization of monoclonal antibodies against excretory/secretory products of adult *Echinococcus granulosus*, and their application to coproantigen detection. *Parasitol. Int.*, 54 : 43-49.
- 2) Kato, Y., Nonaka, N., Oku, Y. and Kamiya, M. 2005. Identification of taeniid cestode eggs-extraction of egg DNA and use of COI gene. *Jpn. J. Vet. Parasitol.*, 3 : 31. (in Japanese)
- 3) Konno, K., Hata, H., Nonaka, N., Oku, Y., Ito, T., Sakai, T. and Kamiya, M. 2005. A survey of gastrointestinal parasites in dogs and cats in Kanto district. *Jpn. J. Vet. Parasitol.*, 3 : 47. (in Japanese)
- 4) Oku, Y., Liu, C., Nonaka, N. and Kamiya, M. 2005. Epizootiology of *Echinococcus multilocularis* in the northeastern region of Sapporo. *Jpn. J. Vet. Parasitol.*, 3 : 30. (in Japanese)
- 5) Yagi, K., Oku, Y. and Sawada, Y. 2005. Biological and genetic characteristics of Japanese and European isolates of *Echinococcus multilocularis* maintained by experimental egg infection. *Jpn. J. Vet. Parasitol.*, 3 : 32. (in Japanese)
- 6) Nonaka, N. 2005. Canine echinococcosis and its diagnosis. *J. Vet. Med.*, 58 : 341-342 (in Japanese)
- 7) Kato, N., Nonaka, N., Oku, Y. and Kamiya, M. 2005. Immune responses to oral infection with *Echinococcus multilocularis* protoscoleces in gerbils : modified lymphocyte responses due to the parasite antigen. *Parasitol. Res.*, 95 : 12-17.
- 8) Chang, S. L., Nonaka, N., Kamiya, M., Kanai, Y., Ooi, H. K., Chung, W. C. and Oku, Y. 2005. Development of *Taenia saginata asiatica* metacestodes in SCID mice and its infectivity in human and alternative definitive hosts. *Parasitol. Res.*, 96 : 95-101.
- 9) Kato, N., Nonaka, N., Oku, Y. and Kamiya, M. 2005. Modified cellular immune responses in dogs infected with *Echinococcus multilocularis*. *Parasitol. Res.*, 95 : 339-345.
- 10) Matsuo, K. and Sumiya, G. 2005. Anoplocephala sp. from the Indian Rhinoceros (*Rhinoceros unicornis*) in Higashiyama Zoo, Japan. *Jpn. J. Zoo. Wildl. Med.*, 10 : 95-98
- 11) Uezato, H., Kato, H., Kayo, S., Hagiwara, K., Bhutto, A. M., Katakura, K., Nonaka, S. and Hashiguchi, Y. 2005. The attachment and entry of *Leishmania (Leishmania) major* into macrophages : observation by scanning electron microscope. *J. Dermatol.*, 32 : 534-540.
- 12) Kato, H., Uezato, H., Calvopina, M., Marco, P. D., Barroso, P. A., Gomez, E. A., Mimori, T., Katakura, K., Korenaga, M., Iwata, H., Nonaka, S. and Hashiguchi, Y. 2005. Detection and identification of *Leishmania* species within naturally infected sandflies at the Andean areas of Ecuador by polymerase chain reaction. *Am. J. Trop. Med. Hyg.*, 72 : 87-93.
- 13) Subeki, Matsuura, H., Takahashi, K., Yamasaki, M., Yamato, O., Maede, Y., Katakura, K., Suzuki, M., Trimurningsih, Chairul and Yoshihara, T. 2005. Antibabesial activity of protoberberine alkaloids and 20-hydroxycyclohexanone from *Arcangelisia flava* against *Babesia gibsoni* in cul-

- ture. *J. Vet. Med. Sci.*, 67 : 223-227.
- 14) Subeki, Nomura, S., Matsuura, H., Yamasaki, M., Yamato, O., Maede, Y., Katakura, K., Suzuki, M., Trimurningsih, Chairul and Yoshihara, T. 2005. Anti-babesial activity of some Central Kalimantan plant extracts and active oligostilbenoids from *Shorea balangeran*. *Planta Med.*, 71 : 420-423.
 - 15) Subeki, Matsuura, H., Takahashi, K., Yamasaki, M., Yamato, O., Maede, Y., Katakura, K., Kobayashi, S., Trimurningsih, Chairul, and Yoshihara, T. 2005. Anti-babesial and anti-plasmodial compounds from *Phyllanthus niruri*. *J. Nat. Prod.*, 68 : 537-539.
 - 16) Trimurningsih, Subeki, Matsuura, H., Takahashi, K., Yamasaki, M., Yamato, O., Maede, Y., Katakura, K., Suzuki, M., Kobayashi, S., Chairul and Yoshihara, T. 2005. Evaluation of the inhibitory activities of the extracts of Indonesian traditional medicinal plants against *Plasmodium falciparum* and *Babesia gibsoni*. *J. Vet. Med. Sci.*, 67 : 829-831.
 - 17) Kasahara, K., Nomura, S., Subeki, Matsuura, H., Yamasaki, M., Yamato, O., Maede, Y., Katakura, K., Suzuki, M., Trimurningsih, Chairul, and Yoshihara, T. 2005. Anti-babesial compounds from *Curcuma zedoaria*. *Planta Med.*, 71 : 482-484.
 - 18) Elkhateeb, A., Subeki, Takahashi, K., Matsuura, H., Yamasaki, M., Yamato, O., Maede, Y., Katakura, K., Yoshihara, T. and Nabeta, K. 2005. Anti-babesial ellagic acid rhamnosides from the bark of *Elaeocarpus parvifolius*. *Phytochemistry*, 66 : 2577-2580.

Publications other than original articles

- 1) Oku, Y. 2005. Take care for *Echinococcus*. *Hokkaido Hyakka*, 4 : 101-103. (in Japanese)

Laboratory of Experimental Animal Sciences Original articles

- 1) Namiki, Y., Kon, Y., Kazusa, K., Asano, A., Sasaki, N. and Agui, T. 2005. Quantitative trait loci analysis of heat stress resistance of spermatocytes in the MRL/MpJ mouse. *Mamm. Genome*, 16 : 96-102.
- 2) Okano, S., Asano, A., Sasaki, N., Kon, Y., Watanabe, T. and Agui, T. 2005. Examination of the *Lunatic fringe* and *Uncx 4.1* expression by whole-mount *in situ* hybridization in the embryo of the CKH-*Jsr* (jumbled spine and ribs) mouse. *Jpn. J. Vet. Res.*, 52 : 145-149.
- 3) Nakamura, T., Asano, A., Okano, S., Ko, J.-H., Kon, Y., Watanabe, T. and Agui, T. 2005. Intracellular localization and their antiviral property of canine Mx proteins. *J. Interferon Cytokine Res.*, 25 : 169-173.

Laboratory of Internal Medicine Original articles

- 1) Yamasaki, M., Takata, A., Yamato, O. and Maede, Y. 2005. Inhibition of Na⁺, K⁺-ATPase induces *Babesia gibsoni* infection of canine erythrocytes with inherited

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