

獣医学研究室 業績一覧

[著書]

- 家畜臨床生化学<第3版> 第16章：鉢代謝 1983. Kaneko JJ 編 久保周一郎, 伊沢久夫, 戸尾祺明彦 監訳 分担翻訳 近代出版 pp. 717-739.
- 獣医学実験<第3版> E: 秤量法, Q: 電気泳動法とデンシトメトリー, R: 薄層クロマトグラフィー, S: 免疫化学実験法 2009. 獣医学理学・生理化学教育懇談会 編著 分担執筆 チクサン出版社 pp. 33, 153-171.
- 獣医学 4章: 糖質の構造, 7章: 糖質の代謝 2016. 斎藤昌之, 鈴木嘉彦, 横田 博 編 分担執筆 朝倉書店 pp. 38-49, 67-83.

[原著論文]

- Watanabe K, Yamamoto S, Kubo S. 1984. Biochemical and immunochemical properties of chicken adenylyl kinase isoenzymes. *Proc Jpn Soc Anim Biochem* 16: 1-12.
- Watanabe K, Kinoshita T, Kawai N, Tashiro N, Mori T, Kubo S, Yamamoto S. 1985. Adenylyl kinase from rat liver. Molecular properties and structural comparison with yeast enzyme. *Jpn J Vet Sci* 47(1): 63-72.
- Watanabe K, Kitagaki T, Yamamoto S. 1987. Immunological cross-reaction between Escherichia coli and mammalian adenylyl kinases. *Jpn J Vet Sci* 49(6): 1180-1182.
- Watanabe K, Tanaka K, Kojima H, Imanishi T, Yamamoto S. 1988. Interaction between cytosolic adenylyl kinase and nicotinamide adenine dinucleotide. *Jpn J Vet Sci* 50(2): 509-512.
- Watanabe K, Sekine T, Katagi M, Shinbo A, Yamamoto S. 1988. Effect of reduction and carboxamido-methylation on immunogenicity of mitochondrial adenylyl kinase (AK2). *Jpn J Vet Sci* 50(3): 791-796.
- Watanabe K, Sohara T, Takeda M, Ueno K, Suzumura N, Rokuroda Y, Rokuroda I, Yamamoto S. 1989. Difference in content ratio of components among horse serum transferrin variants. *Jpn J Vet Sci* 51(5): 969-974.
- Kay MMB, Marchaloni J.J, Hughes J, Watanabe K, Schluter SF. 1990. Definition of a physiologic aging autoantigen by using synthetic peptides of membrane protein band 3: Localization of the active antigenic sites. *Proc Natl Acad Sci USA* 87(15): 5734-5738.
- 折野宏一, 渡辺清隆, 山本晋二. 1992. ウマフェリチンの免疫測定に及ぼす血清および血漿の阻害効果. 家畜生化学研究会報 29 : 37-44.
- Orino K, Saji M, Ozaki Y, Ohya T, Yamamoto S, Watanabe K. 1993. Inhibitory effects of horse serum on immunoassay of horse ferritin. *J Vet Med Sci* 55(1): 45-49.
- Orino K, Yamamoto S, Watanabe K. 1993. Fibrinogen as a ferritin-binding protein in horse plasma. *J Vet Med Sci* 55(5): 785-787.
- Watanabe K, Sakashita Y, Orino K, Yamamoto S. 1994. Identification of bovine serum transferrin phenotypes by polyacrylamide gel isoelectric focusing (PAGIEF). *J Vet Med Sci* 56(2): 421-423.
- Watanabe K, Yahikozawa S, Orino K, Yamamoto S. 1995. Immunological cross-reaction between lactoferrin and transferrin. *J Vet Med Sci* 57(3): 519-521.
- 山田真理子, 坂田美和子, 坪内亜矢子, 折野宏一, 山本晋二, 渡辺清隆. 1995. 牛血漿および好中球ラクトフェリン含量. 家畜生化学 32(1): 25-30.
- 角田健一、折野宏一、山本晋二、渡辺清隆. 1996. 牛胎仔血清のフェリチンレベル 家畜生化学. 33(1):25-30.
- Kakuta K, Orino K, Yamamoto S, Watanabe K. 1997. High levels of ferritin and its iron in fetal bovine serum. *Comp Biochem Physiol* 118A(1):165-169.
- 折野宏一、江口邦明、山本晋二、渡辺清隆. 牛フェリチンL鎖cDNAの塩基配列. 家畜生化学 33(1):31-38.
- 折野宏一、中山貴雄、江口邦明、渡辺清隆、山本晋二. 1997. 牛フェリチンおよびL鎖cDNAのクローニング、シーケンシングおよび発現. 家畜生化学 34 : 27-34.
- Orino K, Eguchi K, Nakayama T, Yamamoto S, Watanabe K. 1997. Sequencing of cDNA clones that encode bovine ferritin H and L chains. *Comp Biochem Physiol* 118B(3): 667-673.
- Watanabe K, Ozawa M, Ochiai H, Kamohara H, Iijima N, Negita H, Orino K, Yamamoto S. 1998. Changes in iron and ferritin in anemic calves infected with *Theileria sergenti*. *J Vet Med Sci* 60(8): 943-947.
- Watanabe K, Hayashi K, Miyamoto T, Tanaka M, Okano S, Yamamoto S. 2000. Characterization of ferritin and ferritin-binding proteins in canine serum. *BioMetals* 13(1): 57-63.
- 渡辺清隆, 折野宏一. 2000. 牛胎仔における高い鉄貯蔵. 日本獣医師会雑誌 53(11): 744-746.
- Watanabe K, Muranishi N, Murata Y, Orino K, Okano S, Yamamoto S. 2000. Biochemical properties of canine serum ferritin: iron content and nonbinding to concanavalin A. *BioMetals* 13(4): 319-324.
- Watanabe K, Yamashita Y, Ohgawara H, Sekiguchi M, Satake N, Orino K, Yamamoto S. 2001. Iron content of rat serum ferritin. *J Vet Med Sci* 63(5): 587-589.
- Inagaki M, Kikuchi M, Orino K, Ohnami Y, Watanabe K. 2002. Purification and quantification of lactoferrin in equine seminal plasma. *J Vet Med Sci* 64(1): 75-77.
- Orino K, Kamura S, Natsuhori M, Yamamoto S, Watanabe K. 2002. Two pathways of iron uptake in bovine spleen apoferritin dependent on iron concentration. *BioMetals* 15(1): 59-63.
- Orino K, Higa M, Fujikawa M, Takehara K, Okano S, Yamamoto S, Watanabe K. 2002. Characterization of autoantibodies to ferritin in canine serum. *BioMetals* 15(2): 161-165.
- 荻野心太郎, 折野宏一, 渡辺清隆. 2002. 食餌鉄によるラット体内貯蔵鉄の制御. 獣医学 39(2): 19-24.
- Orino K, Terada A, Yoshida A, Okano S, Higuchi S, Natsuhori M, Watanabe K. 2003. Clearance rates of biotinylated ferritins in canine: A possible physiological role of canine serum ferritin as an iron transporter. *BioMetals* 16(2): 341-347.
- Kikuchi M, Mizoroki S, Kubo T, Ohiwa Y, Kubota M, Yamada N, Orino K, Ohnami Y, Watanabe K. 2003. Seminal plasma lactoferrin but not transferrin reflects gonadal function in dogs. *J Vet Med Sci* 65(6): 679-684.
- Kikuchi M, Takao Y, Tokuda N, Ohnami Y, Orino K, Watanabe K. 2003. Relationship between seminal plasma lactoferrin and gonadal function in horses. *J Vet Med Sci* 65(11): 1273-1274.
- Orino K, Ishiji T, Yamamoto S, Watanabe K. 2004. Characterization of bovine serum ferritin-binding proteins. *Comp Biochem Physiol (A)* 137(2): 375-381.
- Orino K, Harada S, Natsuhori M, Takehara K, Watanabe K. 2004. Kinetic analysis of bovine spleen apoferritin and recombinant H and L chain homopolymers: iron uptake suggests early stage H chain ferroxidase activity and second stage L chain cooperation. *BioMetals* 17(2): 129-134.
- Orino K, Miura T, Muto S, Watanabe K. 2005. Sequence analysis of canine and equine ferritin H and L subunit cDNAs. *DNA Sequence* 16(1):58-64.
- Orino K, Hirata A, Watanabe K. 2005. Sequence analysis of feline ferritin H and L subunit cDNAs. *Vet Biochem* 42: 7-11.
- Orino K, Uehara M, Okano S, Watanabe K. 2006. Purification and characterization of canine serum ferritin-binding proteins. *BioMetals* 19(3): 315-322.
- Orino K, Watanabe S, Ohtsuka H, Kohiruiimaki M, Watanabe K. 2006. Measurement of ferritin in bovine milk and its clinical significance. *J Dairy Sci* 89: 3842-3845.

37. Abe T, Kinda T, Takano Y, Chikazawa S, Higuchi M, Kawasaki N, Orino K, Watanabe K. 2006. Relationship between body iron stores and diquat toxicity in male Fischer-344 rats. *BioMetals* 19: 651-657.
38. Kolm G, Klein D, Knapp E, Watanabe K, Walter I. 2006. Lactoferrin expression in the horse endometrium: Relevance in persisting mating-induced endometritis. *Vet Immunol Immunopathol* 114: 159-167.
39. Barton MH, Hurley D, Norton N, Heusner G, Costa L, Jones S, Byars D, Watanabe K. 2006. Serum lactoferrin and immunoglobulin G concentrations in healthy or ill neonatal foals and healthy adult horses. *J Vet Intern Med* 20: 1457-1462.
40. Orino K, Hamada S, Hashimoto M, Nambo Y, Kondo T, Watanabe K. 2006. Identification of horse anti-ferritin autoantibody. *J Equine Sci* 17: 113-119.
41. Higuchi M, Kobayashi S, Kawasaki N, Hamaoka K, Watabiki S, Orino K, Watanabe K. 2007. Protective effects of wheat bran against diquat toxicity in male Fischer-344 rats. *Biosci Biotechnol Biochem* 71(7): 1621-1625.
42. Seki T, Kunichika T, Watanabe K, Orino K. 2008. Apolipoprotein B binds ferritin by hemin-mediated binding: evidence of direct binding of apolipoprotein B and ferritin to hemin. *BioMetals* 21(1): 61-69.
43. Takaesu A, Watanabe K, Takai S, Sasaki Y, Orino K. 2008. Sequence analysis of dolphin ferritin H and L subunits and possible iron-dependent translational control of dolphin ferritin gene. *Acta Vet Scand* 50: 42.
44. Sugawara G, Inoue R, Watanabe K, Ohtsuka H, Orino K. 2009. Bovine α -casein is a ferritin-binding protein and inhibitory factor of milk ferritin immunoassay. *J Dairy Sci* 92(8): 3810-3814.
45. Sakamoto H, Kuboi T, Nagakura T, Hayashi S, Hoshi F, Mutoh K, Watanabe K, Orino K. 2009. Characterization of feline serum ferritin-binding proteins: the presence of a novel ferritin-binding protein as an inhibitory factor in feline ferritin immunoassay. *BioMetals* 22(5): 793-802.
46. Naoi T, Shibusawa N, Inoue H, Mita S, Kobayashi S, Watanabe K, Orino K. 2010. The effect of tert-butylhydroquinone-induced oxidative stress in MDBK cells using XTT assay: Implication of tert-butylhydroquinone-induced NADPH generating enzymes. *J Vet Med Sci* 72(3): 321-326.
47. 渡辺清隆, 田中梨恵, 秋末真吾, 吉川泰永, 折野宏一. 2010. 鉄欠乏性貧血ラットにおける三二酸化鉄の吸収性の評価. *新薬と臨床* 59(7): 1127-1132.
48. 近澤征史郎, 小林秀樹, 堀泰智, 星史雄, 金井一亨, 伊藤直之, 佐藤淳, 山本祥大, 立花麻子, 春原瑠美, 打出毅、折野宏一, 渡辺清隆, 樋口誠一. 2010. 犬の多中心型リンパ腫における血清フェリチン濃度の変動. *動物臨床医学* 19(3): 71-77.

[総説]

1. 折野宏一, 渡辺清隆, 山本晋二. 2000. フェリチンの分子性状および生理学的意義. *獣医生化学* 37(1): 1-10.
2. Orino K, Watanabe K. 2007. Anti-ferritin autoantibody as mammalian common ferritin-binding protein. *Vet Biochem* 44: 1-8.
3. Orino K, Watanabe K. 2008. Molecular, physiological and clinical aspects of the iron storage protein ferritin. *Vet J* 178(2): 191-201.