

岡山理科大学獣医学教育病院 2021 年刊行論文リスト

2021 年に岡山理科大学獣医学教育病院関係者が刊行した研究論文は 50 報(英文 40、和文 10)を数えました。日頃、教育と診療業務をしながらの研究活動の成果ということで、それなりの評価をいただけるのではないかと思います。さらに頑張って研究を進めていただくことを期待して、2021 年の報告とさせていただきます。

- 1 Fujii Y., Sugimoto K., Omichi M., Kanai K., Orito K.: A pilot study investigating the effect of pimobendan on the cardiac rhythm and selected echocardiographic parameters of healthy cats. *J. Vet. Cardiol.* 35: 74-83. 2021
- 2 Fujimoto S, Torisu S, Kaneko Y, Mizutani S, Yamamoto S, Naganobu K, Nakamura K.: Pancreatic enzyme activity in the bile of healthy cats and its association with biliary morphology. *J. Vet. Intern. Med.* 35(4): 1780-1788, 2021.
<https://doi.org/10.1111/jvim.16196>.
- 3 Fukase T., Nakamura Y.: Cockroach of Madagascar origin, *Gromphadorhina* species, collected at a private house in Tokyo, Japan in 2017: Can the foreign cockroach species establish under Japanese field conditions? *J. Anim. Clin. Med.* 30(1): 10-14, 2021.
- 4 Fukusato S., Nagao M., Fujihara K., Yoneda T., Arai K., Koch M., Kaneko K., Ishijima M., Izu Y.*: Collagen XII deficiency increases the risk of anterior cruciate ligament injury in mice. *J. Clin. Med.* 10: 4051, 2021.
- 5 Furukawa S., Meguri N., Kora K., Kora H. Matsuda A.*: A case of canine polyglandular deficiency syndrome with diabetes mellitus and hypoadrenocorticism. *Vet. Sci.* 8(3): 43. 2021. <https://doi.org/10.3390/vetsci8030043>
- 6 Furumoto K., Ogita K., Kamisaka Kawasumi A., Takata K., Maeta N., Itoi T., Nohara M., Saeki K., Kanda T.*: Effects of multimodal analgesic protocol, with buprenorphine and meloxicam, on mice well-being: a dose finding study. *Animals* 11(12): 3420-3420, 2021.
<https://doi.org/10.3390/ani11123420>
- 7 Gondaira S., Nishi K., Fujiki J., Iwano H., Watanabe R., Eguchi A., Hirano Y., Higuchi H., Nagahata H.: Innate immune response in bovine neutrophils stimulated with *Mycoplasma bovis*. *Vet. Res.* 52(1): 58, 2021. <https://doi.org/10.1186/s13567-021-00920-2>.
- 8 Hata A., Fujitani N., Takeshita M., Tanaka C., Matsuda N., Takaishi M., Shimokawa Miyama T., Hoshi F.: Comparison of regression for blood ALP levels using methods of the Japan Society of Clinical Chemistry and the International Federation of Clinical Chemistry and Laboratory Medicine in bovine, canine, feline, and human testing. *PLoS One* 16(6): e0253396. 2021. <https://doi.org/10.1371/journal.pone.0253396>.

- 9 Imaeda, N., Ando, A., Matsubara, T., Takasu, M., Nishii, N., Miyamoto, A., Oshima, S., Kametani, Y., Shiina, T., Ono, T. and Kitagawa, H.*: Stillbirth rate and genetic association with swine leucocyte antigen class II haplotypes in Microminipigs. *Anim. Biosci.* 34 (11): 1749-1756, 2021. <https://doi.org/10.5713/ab.20.0763>
- 10 Ito, T., Sugiura, K., Hasegawa, A., Ouchi, W., Yoshimoto, T., Mizoguchi, I., Inaba, T., Hamada, K., Eriguchi, M. and Koyama, Y.*: Microbial antigen-presenting extracellular vesicles derived from genetically modified tumor cells promote antitumor activity of dendritic cells. *Pharmaceutics* 13(1): 57, 2021.
<https://doi.org/10.3390/pharmaceutics13010057>
- 11 Itoi T*, Kawata S., Fukuda Y., Maejima S.: Effect of a corset on the gait of healthy beagle dogs. *Animals* 11(9): 650, 2021. <https://doi.org/10.3390/ani11092650>
- 12 Iwata E., Masamoto K., Kuga H., Ogino M.: Timing of isolation from enriched environment determines the level of aggressive behaviour and sexual maturity in Siamese fighting fish (*Betta splendens*). *BMC Zool.* 6: 15, 2021. <https://doi.org/10.1186/s40850-021-00081-x>
- 13 Kato T., Yamamoto M., Honda Y., Orimo T., Sasaki I., Murakami K., Hemmi H., Fukuda-Ohta Y., Isono K., Takayama S., Nakamura H., Otsuki Y., Miyamoto T., Takita J., Yasumi T., Nishikomori R., Matsabayashi T., Izawa K., Kaisho T.: Augmentation of stimulator of interferon genes-induced type I interferon production in COPA syndrome. *Arthritis Rheumatol.* 73(11): 2105-2115, 2021. <https://doi.org/10.1002/art.41790>.
- 14 Kochi M., Sugimoto K.*, Kawamoto S., Inoue M., Machida N.: Persistent truncus arteriosus with an anomalous coronary artery in a cat. *J. Vet. Cardiol.* 35: 8-13, 2021.
- 15 Kutara K., Kadekaru S., Sugisawa R., Une Y.: Pyogenic meningitis and trigeminal neuritis secondary to periodontogenic paranasal sinusitis in a red deer (*Cervus elaphus*). *J. Vet. Med. Sci.* 83(6):947-951, 2021.
- 16 Maeta N.*, Shimokawa Miyama T., Kutara K., Kanda T., Mitsui I., Ohnishi A., Miyabe M., Shimizu Y., Saeki K., Okamura Y., Yamazoe K.: Dysuria associated with non-neoplastic bone hyperplasia of the os penis in a Pug dog. *Vet. Sci.* 8(1): 6, 2021.
<https://doi.org/10.3390/vetsci8010006>.
- 17 Maeta N., Tamura K., Ezuka F., Takemitsu H.: Comparative analysis of canine mesenchymal stem cells and bone marrow-derived mononuclear cells. *Vet. World* 14(4): 1028-1037, 2021. <https://doi.org/10.14202/vetworld.2021.1028-1037>
- 18 Matsuda A.*, Hata A., Tanaka A. Matsuda H.: Canine mast cell tumour cells regulate tryptophan catabolism via the expression of indoleamine 2,3-dioxygenase. *Res. Vet. Sci.* 137: 159-162. 2021. <https://doi.org/10.1016/j.rvsc.2021.04.030>
- 19 Matsuda A.*: Long-term *in vitro* glucocorticoid treatment induces glucocorticoid resistance in canine mast cell tumors. *Can. J. Vet. Res.* 85(4): 302-308, 2021.

- 20 Matsuda A., Shimizu Y., Kanda T., Ohnishi A., Maeta N., Miyabe M., Saeki K., Itoh Y.*: Establishment of a canine lens epithelial cell line. *Can. J. Vet. Res.* 85(3): 236-240. 2021.
- 21 Mikawa S., Matsuda A.*, Kamemori Y., Asanuma S., Kitagawa H.: Enhancement of natural killer cell activity by oral administration of a fermented soybean product in dogs. *Open Vet. J.* 11(3): 394-400, 2021. <https://doi.org/10.5455/OVJ.2021.v11.i3.10>
- 22 Mitani, K., Ito, Y., Takene, Y., Hatoya, S., Sugiura, K., Inaba, T.*: Long-term trypsin treatment promotes stem cell potency of canine adipose-derived mesenchymal stem cells. *Stem Cells Dev.* 30(6): 337-349, 2021. <https://doi.org/doi: 10.1089/scd.2020.0175>
- 23 Mitani, K., Ito, Y., Takene, Y., Hatoya, S., Sugiura, K., Inaba, T.*: Quality of life-improving effect of autologous ex vivo expanded cytotoxic and opioid-producing lymphocytes for dogs with tumors. *Vet. Immunol. Immunopathol.* 238: 110292, 2021. <https://doi.org/ doi: 10.1016/j.vetimm.2021.110292>
- 24 Mochizuki Y., Mikawa S., Kutara K.*, Sugimoto K., Sakoya H., Ohnishi A., Saeki K., Shimizu Y., Kanda T, Asanuma T.: Local hemodynamic changes immediately after correction of an aberrant right subclavian artery in a dog: a contrast computed tomographic study. *Vet. Sci.* 8(6): 104, 2021.
- 25 Mori H., Saeki K., Chang G., Wang J., Wu X., Hsu P.-Y., Kanaya N., Wang X., Somlo G., Nakamura M., Bild A., Chen S.: Influence of estrogen treatment on ESR1+ and ESR1- cells in ER+ breast cancer: insights from single-cell analysis of patient-derived xenograft models. *Cancers (Basel)* 13; 6375, 2021. <https://doi.org/10.3390/cancers13246375>
- 26 Mukohda M.*., Nakamura S., Takeya K., Matsuda A., Yano T., Seki M., Mizuno R., Ozaki H.: Streptococcal exotoxin streptolysin O causes vascular endothelial dysfunction through PKC β activation. *J. Pharmacol. Exp. Ther.* 379(2): 117-124, 2021. <https://doi.org/10.1124/jpet.121.000752>
- 27 Nagahata H., Kine M., Watanabe H., Tanaka A., Takahashi A., Gondaira S., Higuchi H.: Somatic cell and innate immune responses in mammary glands of lactating cows to intramammary infusion of *Bifidobacterium breve* at pre-drying off period. *J. Vet. Med. Sci.* 2083(12): 1845-1851, 2021.
- 28 Nakamura Y., Fukase T.: Changes in fecal odor intensity associated with feeding domestic cats two diets formulated for body weight management. *J. Jpn. Assoc. Odor Environ.* 52 (5): 295-298, 2021.
- 29 Nakamura Y., Fukase T.: Palatability for dogs of two beef-based chewable formulations in a branded drug ‘Cardomec Chewable P’ and a Japanese generic drug ‘Ivermec PI’ containing ivermectin and pyrantel embonate as active ingredients. *Bull. Okayama Univ. Sci.* 56A: 81-89, 2021.

- 30 Nakamura Y., Fukase T.: Prevalence of fleas on dogs and domestic cats kept indoors in urban areas of metropolitan Tokyo in winter, 2016-2017 and 2019-2020: a form of overwintering of fleas. *J. Anim. Clin. Med.* 30(3): 76-78, 2021.
- 31 Nakamura Y., Fukase T.: Tickicidal efficacy of a pour-on formulation of flumethrin against ticks on dogs when applied directly to tick dorsal side. *J. Anim. Clin. Med.* 30(4): 111-113, 2021.
- 32 Ono T., Hisaeda K., Inoue Y., Yamada Y., Shibano K., Henmi C., Une Y., Hayashi K., Nohara M., Uchida E., Nagahata H.*: Forestomach developmental failure in an 11-month-old Japanese Black steer with severely retarded growth and chronic ruminal tympany. *J. Vet. Med. Sci.* 83: 220-225, 2021.
- 33 Ono T., Inoue Y., Hisaeda K., Yamada Y., Hata A., Shimokawa Miyama T., Shibano K., Kitagawa H., Ohzawa E., Iwata E.*: Effect of seasons and sex on the physical, hematological and bloodbiochemical parameters of Noma horses. *J. Equine Sci.* 32(1): 21-25, 2021.
- 34 Peek M.C.L., Saeki K.*, Ohashi K., Chikaki S., Baker R., Nakagawa T., Kusakabe M., Douek M., Sekino M.; Optimization of SPIO injection for sentinel lymph node dissection in a rat model. *Cancers (Basel)* 13: 5031, 2021. <https://doi.org/10.3390/cancers13195031>
- 35 Saeki K., Kutara K., Iwata E.*, Miyabe M., Shimizu Y., Wada Y., Ohnishi A., Matsuda A., Shimokawa Miyama T., Asanuma T.: Noninvasive thermographic photographing as an assessment of the state of discomfort in a dog receiving radiation therapy. *Animals* 11(9): 2496, 2021. <https://doi.org/10.3390/ani11092496>
- 36 Saeki K., Chang G., Kanaya N., Wu X., Wang J., Bernal L., Ha D., Neuhausen S.L., Chen S.: Mammary cell gene expression atlas links epithelial cell remodeling events to breast carcinogenesis. *Commun. Biol.* 4: 660, 2021. <https://doi.org/10.1038/s42003-021-02201-2>
- 37 Shimizu Y., Kanda T.*: Effects of pre-anesthesia anxiety on propofol induction dose in cats. *Animals* 11(7) 2126-2126 2021. <https://doi.org/10.3390/ani11072126>
- 38 Sugimoto K.*, Aoki T., Fujii Y.: The longitudinal evaluation of cardiovascular function in 6 healthy cats aged 1 to 8 years. *J. Feline Med. Surg.* 23(2): 98-104, 2021.
- 39 Sugimoto K.*, Matsuda A., Miyabe M., What is your diagnosis? *J. Am. Vet. Med. Assoc.* 259(S1): 1-3, 2021. <https://doi.org/10.2460/javma.19.12.0650>
- 40 Wang X., Petrossian K., Huang M.-J., Saeki K., Kanaya N., Chang G., George S., Chen S.: AR is not an independent marker for TNBC: The lesson we learn from two PDX models. *J. Endocrine Soc.* 5: A804-A805, 2021. <https://doi.org/10.1210/jendso/bvab048.1636>
- 41 Yoshimura N., Taniguchi M., Terazono T., Ono T., Takagi M., Sato Y., Hirata M., Tanihara F., Otoi T*.: Vaginal stimulation enhances ovulation of queen ovaries treated using a

combination of eCG and hCG. *Vet. Med. Sci.* 7(5): 1569-1574, 2021.

<https://doi.org/10.1002/vms3.552>

- 42 古本佳代, 近藤千晶, 村尾信義, 前田憲孝, 神田鉄平, 糸井崇将, 古川敏紀: 地域猫活動を参考にした大学キャンパス内に住み着いたノラネコの管理. *Vet. Nurs.* 25(2): 43-50, 2021. https://doi.org/10.34452/veterinarynursing.25.2_43
- 43 佐伯香織, 宮部真裕, 清水夕貴, 和田優子, 石川弥咲, 正林和美, 古本佳代, 岩田恵理, 神田鉄平: TVOC 濃度を指標とした獣医療従事者に対する個人モニタリング. *Vet. Nurs.* 26(2): N1-N5, 2021. https://doi.org/10.34452/veterinarynursing.26.2_N1
- 44 芝野健一, 井原晴喜, 橋爪昌美, 小野哲嗣, 井上陽一, 久枝啓一, 山田 裕: 2.5% アセチルヒドロキシプロリン軟膏を用いた創傷修復効果. *臨床獣医* 39(4): 38-43, 2021
- 45 芝野健一, 下タ村幸薰, 伊藤めぐみ, 千葉暁子, 滌木孝弘, 小野哲嗣, 山田 裕: ケトーシス発症乳牛の酸化ストレスマーカーと血液生化学性状. *日獣会誌* 72: 59-63, 2021.
- 46 深瀬 徹, 中村有加里, 向田昌司, 望月庸平: 岡山理科大学獣医学部学生が有する生物学的知識の背景と現状. *岡山理科大学教育実践研究* 4: 39-59, 2021.
- 47 清水夕貴, 岡田侑利香, 待鳥明日香, 糸井崇将, 古本佳代, 岡村泰彦, 石岡克己, 神田鉄平*: 小動物専用輸液加温器を用いた加温輸液がイソフルラン麻酔下のイヌの直腸温に及ぼす影響. *Vet. Nurs.* 26(2): A1-A7, 2021.
https://doi.org/10.34452/veterinarynursing.26.2_A1
- 48 増田恒幸*, 朱 夏希, 黒田萌黄, 岡田綾子, 大下雄三, 増田康充, 関口 敏: 鳥取県内の 1 酪農場における牛伝染性リンパ腫対策と効果検証. *日獣会誌* 74(7): 423-426, 2021.
- 49 増田未実, 中村有加里*, 深瀬 徹: 犬糸状虫および犬糸状虫症に関する犬の飼い主の意識と知識 –犬糸状虫症予防薬の適切な投与を阻害するリスク要因の抽出–. *動物臨床医学* 30 (4): 93-102, 2021.
- 50 中村有加里, 増田未実, 深瀬 徹: 後発動物用医薬品に関する犬の飼い主の知識と意識. *動物臨床医学* 30(2): 46-53, 2021.
- 51 野嶋 敏, 伊藤めぐみ, 平野佑氣, 秦 英司, 芝野健一, 山田一孝: バルク乳から *Mycoplasma bovis* が検出された農場における同一菌株の農場内浸潤状況と乳房炎感染予防対策の検討. *産業動物臨床獣医誌* 12(2): 65-71, 2021.