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取得学位	博士（医学）・神戸大学		
学歴	神戸大学医学部		
受賞歴等	日本心臓財団奨励賞，ソルトサイエンス財団特別賞		
所属学会	日本生理学会，米国生理学会，日本病態生理学会，宇宙生物学会， 宇宙航空環境医学会，自律神経学会		

教育活動

(主な担当科目)

2023年：医学概論，病理学，臨床医学総論，運動生理学，病態解析学，医学一般

2022年：医学概論，病理学，臨床医学総論，運動生理学，病態解析学，医学一般

研究活動

(論文等)

- Hayashi T, Fujita R, Okada R, Hamada M, Suzuki R, Fuseya S, Leckey J, Kanai M, Inoue Y, Sadaki S, Nakamura A, Okamura Y, Abe C, Morita H, Aiba T, Senkoji T, Shimomura M, Okada M, Kamimura D, Yumoto A, Muratani M, Kudo T, Shiba D, Takahashi S: Lunar gravity prevents skeletal muscle atrophy but not myofiber type shift in mice: *Commun Biol*, 2023 Apr 21; 6(1): 424. doi: 10.1038/s42003-023-04769-3
- Abe C, Katayama C, Bazek M, Nakamura Y, Ohbayashi K, Horii K, Fujimoto C, Tanida M, Ishikawa Y, Inoue T, Nin F, Morita H: Repeated activation of C1 neurons in medulla oblongata decreases anti-inflammatory effect via the hypofunction of the adrenal gland adrenergic response. *Brain Behav Immun*, 2023 Apr 8; 111: 138-150. doi: 10.1016/j.bbi.2023.04.003
- Abe C, Katayama C, Horii K, Okada R, Kamimura D, Nin F, Morita H: Changes in metabolism and vestibular function depend on gravitational load in mice. *J Appl Physiol*, 2023 Jan 1; 134: 10-17. doi: 10.1152/jappphysiol.00555.2022
- Abe C, Katayama C, Ohbayashi K, Horii K, Ogawa B, Fujimoto C, Iwasaki Y, Nin F, Morita H: Galvanic vestibular stimulation-induced activation of C1 neurons in medulla oblongata protects against acute lung injury. *Am J Physiol Regul Integr Comp Physiol*, 2023 Feb 1; 324(2): R152-R160. doi: 10.1152/ajpregu.00131.2022
- Abe C, Katayama C, Ohbayashi K, Horii K, Ogawa B, Fujimoto C, Iwasaki Y, Nin F, Morita H: Galvanic vestibular stimulation-induced activation of C1 neurons in medulla oblongata protects against acute lung injury. *Am J Physiol Regul Integr Comp Physiol*. 2022 Dec 19. doi: 10.1152/ajpregu.00131.2022
- Abe C, Katayama C, Horii K, Ogawa B, Ohbayashi K, Iwasaki Y, Nin F, Morita H: Hypergravity load-induced hyperglycemia occurs due to hypothermia and increased plasma corticosterone level in mice. *J Physiol Sci*. 2022 Aug 1; 72(1):18. doi: 10.1186/s12576-022-00844-2
- Shimomura M, Yumoto A, Ota-Murakami N, Kudo T, Shirakawa M, Takahashi S, Morita H, Shiba D: Author Correction: Study of mouse behavior in different gravity environments. *Sci Rep*. 2021 Aug 27; 11(1):17563. doi: 10.1038/s41598-021-96312-9
- Aoki H, Abe C, Hara A, Miyazaki T, Morita H, Kunisada T: Induced genetic ablation of Rest leads to the alteration of stimulus-induced response of the vagal nerve. *Genes to Cells*, 2021 Feb; 26(2):45-55. doi: 10.1111/gtc.12819
- Shimode T, Kawao N, Morita H, Ishida M, Takafuji Y, Kaji H: Roles of olfactomedin 1 in muscle and bone alterations induced by gravity change in mice. *Calcified Tissue International*, 2020. doi: org/10.1007/s00223-020-00710-6
- Abe C, Yamaoka Y, Maejima Y, Mikami T, Yokota S, Yamanaka A, Morita H: VGLUT2-expressing



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neurons in the vestibular nuclear complex mediate gravitational stress-induced hypothermia in mice. *Communications Biology*, 227, May 8, 2020. doi: org/10.1038/s42003-020-0950-0

11. Kawao N, Morita H, Iemura S, Ishida M, Kaji H: Roles of Dkk2 in the linkage from muscle to bone during mechanical unloading in mice. *International Journal of Molecular Sciences*, 2020 May 27. doi: 10.3390/ijms21072547
12. Morita H, Kaji H, Ueta Y, Abe C: Understanding vestibular-related physiological functions could provide clues on adapting to a new gravitational environment. *Journal of Physiological Sciences*, 2020 Mar 14;70(1):17. doi: 10.1186/s12576-020-00744-3
13. Ohira T, Ino Y, Nakai Y, Morita H, Kimura A, Kurata Y, Kagawa H, Kimura M, Egashira K, Moriya S, Hiramatsu K, Kawakita M, Kimura Y, Hirano H: Proteomic analysis revealed different responses to hypergravity of soleus and extensor digitorum longus muscles in mice. *Journal of Proteomics*, 2020 Feb 12;217:103686. doi: 10.1016/j.jprot.2020.103686
14. Obata K, Morita H, Takaki M: Mechanism underlying the negative inotropic effect in rat left ventricle in hyperthermia: the role of TRPV1. *Journal of Physiological Sciences*, 2020 Feb 5;70(1):4. doi: 10.1186/s12576-020-00734-5
15. Kawao N, Takafuji Y, Ishida M, Okumoto K, Morita H, Muratani M, Kaji H: Roles of the vestibular system in obesity and impaired glucose metabolism in high-fat diet-fed mice. *PLoS One*, 2020 Feb 3;15(2):e0228685. doi: 10.1371/journal.pone.0228685
16. Abe C, Yamaoka Y, Maejima Y, Mikami T, Morita H: Hypergravity-induced plastic alteration of the vestibulo-sympathetic reflex involves decrease in responsiveness of CAMK2-expressing neurons in the vestibular nuclear complex. *Journal of Physiological Sciences*, 69(6): 903-917, 2019. doi: 10.1007/s12576-019-00705-5
17. Obata K, Morita H, Takaki M: The energy-saving effect of a new myosin activator, omecamtiv mecarbil, on LV mechanoenergetics in rat hearts with blood-perfused isovolumic contraction model. *Naunyn-Schmiedeberg's Archives of Pharmacology*, 392(9): 1065-1070, 2019, Doi: 10.1007/s00210-019-01685-4
18. Obata K, Takeshita D, Morita H, Takaki M: Left ventricular mechanoenergetics in excised, cross-circulated rat hearts under hypo-, normo-, and hyperthermic conditions. *Scientific Reports*, 8: 16246, 2018. doi: 10.1038/s41598-018-34666-3
19. 150.Sonoda S, Yoshimura M, Abe C, Morita H, Ueno H, Motojima Y, Saito R, Maruyama T, Hashimoto H, Tanaka Y, Ueta Y: Effects of hypergravity on the gene expression of the hypothalamic feeding-related neuropeptides in mice via vestibular inputs. *Peptides*, 105: 14-20, 2018, doi: 10.1016/j.peptides.2018.05.004
20. Sugiyama K, Nagashima K, Miwa T, Shimizu Y, Kawaguchi T, Iida K, Tamaoki N, Hatakeyama D, Aoki H, Abe C, Morita H, Kunisada T, Shibata T, Fukumitsu H, Tezuka K: FGF2-responsive genes in human dental pulp cells assessed using a rat spinal cord injury model. *Journal of Bone and Mineral Metabolism*, 37(3): 467-474, 2018, doi: 10.1007/s00774-018-0954-8
21. Yamaoka Y, Abe C, Morita H: Comparison among ultrasonic, electrical apparatus, and toxic chemicals for vestibular lesion in mice. *Journal of Neuroscience Methods*, 295: 58-67, 2018. doi: 10.1016/j.jneumeth.2017.11.021

社 会 活 動

ソルトサイエンス研究財団 研究運営審議会委員

AMED 課題評価委員

日本病態生理学会, 宇宙航空環境医学会 理事



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