

Brightonix SimPET™ Insert

References

1. Byun, J. W., Paeng, J. C., Kim, Y. J., Lee, S. P., Lee, Y. S., Choi, H., Kang, K. W., & Cheon, G. J. (2024). Evaluation of Fibroblast Activation Protein Expression Using 68Ga-FAPI46 PET in Hypertension-Induced Tissue Changes. *Journal of Nuclear Medicine*, 65(11), 1776–1781. <https://doi.org/10.2967/JNUMED.124.267489>
2. Lee, H. Y. S. A. L. W. B. J. Y. M. J.-S. (2024). Evaluation of [18F]AIF-ND-GUL for Imaging Prostate Cancer. *Journal of Radiopharmaceuticals and Molecular Probes*, 10(1), 27–32. <https://doi.org/10.22643/JRMP.2024.10.1.27>
3. Park, B.-N., An, Y.-S., Kim, S.-M., Lee, S.-J., Park, Y.-J., & Yoon, J.-K. (2024). 177Lu Anti-Angiogenic Radioimmunotherapy Targeting ATP Synthase in Gastric Cancer Model. *Antibodies* 2024, Vol. 13, Page 51, 13(3), 51. <https://doi.org/10.3390/ANTIB13030051>
4. Park, J.-W., Park, C., Sun, J., Choi, Y., Lee, E. S., & Chung, H. K. (2024). Usefulness of evaluation methods using PET/MR imaging. 34(1), 321–321. <https://www.dbpia.co.kr/journal/articleDetail?nodeId=NODE11825046>
5. Suh, M., Park, J. Y., Ko, G. B., Kim, J. Y., Hwang, D. W., Rees, L., Conway, G. E., Doak, S. H., Kang, H., Lee, N., Hyeon, T., Lee, Y. S., & Lee, D. S. (2024). Optimization of micelle-encapsulated extremely small sized iron oxide nanoparticles as a T1 contrast imaging agent: biodistribution and safety profile. *Journal of Nanobiotechnology*, 22(1), 1–14. <https://doi.org/10.1186/S12951-024-02699-8/FIGURES/5>
6. Lee, S.-Y., Oh, H. R., Kim, Y.-H., Bae, S.-H., Lee, Y., Lee, Y.-S., Lee, B. C., Cheon, G. J., Kang, K. W., & Youn, H. (2023). Cerenkov luminescence imaging of brown adipose tissue using TSPO-PET probe to overcome off-target effect of [18F]FDG in UCP1 ThermoMouse. *Journal of Nuclear Medicine*, 64(supplement 1).
7. Seo, M., Ko, G. B., Kim, K. Y., Son, J. W., Byun, J. W., Lee, Y. S., Kim, K. M., Park, J. W., Kim, K., Lee, T., & Lee, J. S. (2023). Performance evaluation of SimPET-L and SimPET-XL: MRI-compatible small-animal PET systems with rat-body imaging capability. *EJNMMI Physics*, 10(1), 1–10. <https://doi.org/10.1186/S40658-023-00534-X/TABLES/2>
8. Hwang, D., Kang, S. K., Kim, K. Y., Choi, H., & Lee, J. S. (2022). Comparison of deep learning-based emission-only attenuation correction methods for positron emission tomography. *European Journal of Nuclear Medicine and Molecular Imaging*, 49(6), 1833–1842. <https://doi.org/10.1007/s00259-021-05637-0>
9. Park, H., Yi, M., & Lee, J. S. (2022). Silicon photomultiplier signal readout and multiplexing techniques for positron emission tomography: a review. In *Biomedical Engineering Letters* (Vol. 12, Issue 3, pp. 263–283). Springer Verlag. <https://doi.org/10.1007/s13534-022-00234-y>
10. Seo, M., Ko, G. B., Kim, K., Son, J.-W., Kim, K. M., Park, J. W., Kim, K., Lee, T., & Lee, J. S. (2022). Performance evaluation of Brightonix SimPET-XL system compared to SimPET-L. *Journal of Nuclear Medicine*, 63(supplement 2).

11. Yi, M., & Lee, J. S. (2022). A time-based single transmission-line readout with position multiplexing. *Biomedical Engineering Letters*, 12(1), 85–95. <https://doi.org/10.1007/s13534-022-00215-1>
12. Jacobs, P., Tatum, J., Kalen, J., Riffle, L., Patel, N., Phillips, J., Hollingshead, M., Evrard, Y., Gottholm-Ahalt, M., Sanders, C., Difilippantonio, S., & Doroshov, J. (2021). Baseline 18F fluorodeoxyglucose(FDG)-positron emission tomography (PET) in patient derived (PD) xenograft models from the National Cancer Institute Patient Derived Model Repository (PDMR). *Journal of Nuclear Medicine*, 62(supplement 1).
13. Kim, K. Y., Son, J. W., Kim, K., Chung, Y., Park, J. Y., Lee, Y. S., Ko, G. B., & Lee, J. S. (2021). Performance Evaluation of SimPET-X, a PET Insert for Simultaneous Mouse Total-Body PET/MR Imaging. *Molecular Imaging and Biology*, 23(5), 703–713. <https://doi.org/10.1007/S11307-021-01595-Z/METRICS>
14. Lee, J. S., Kim, K. M., Choi, Y., & Kim, H. J. (2021). A Brief History of Nuclear Medicine Physics, Instrumentation, and Data Sciences in Korea. *Nuclear Medicine and Molecular Imaging*, 55(6), 265. <https://doi.org/10.1007/S13139-021-00721-7>
15. Shim, H. S., Park, H., & Lee, J. S. (2021). A temperature-dependent gain compensation technique for positron emission tomography detectors based on a silicon photomultiplier. *Physics in Medicine and Biology*, 66(20). <https://doi.org/10.1088/1361-6560/ac2b81>
16. Amirrashedi, M., Zaidi, H., & Ay, M. R. (2020). Towards quantitative small-animal imaging on hybrid PET/CT and PET/MRI systems. *Clinical and Translational Imaging* 2020 8:4, 8(4), 243–263. <https://doi.org/10.1007/S40336-020-00376-Y>
17. Bae, S.-W., Berlth, F., Jeong, K.-Y., Suh, Y.-S., Kong, S.-H., Lee, H.-J., Kim, W. H., Chung, J.-K., & Yang, H.-K. (2020). Establishment of a [18 F]-FDG-PET/MRI Imaging Protocol for Gastric Cancer PDX as a Preclinical Research Tool. *Journal of Gastric Cancer*, 20(1), 60. <https://doi.org/10.5230/jgc.2020.20.e7>
18. Kim, K., Kim, H., Bae, S. H., Lee, S. Y., Kim, Y. H., Na, J., Lee, C. H., Lee, M. S., Ko, G. B., Kim, K. Y., Lee, S. H., Song, I. H., Cheon, G. J., Kang, K. W., Kim, S. E., Chung, J. K., Kim, E. E., Paek, S. H., Lee, J. S., ... Youn, H. (2020). [18F]CB251 PET/MR imaging probe targeting translocator protein (TSPO) independent of its Polymorphism in a Neuroinflammation Model. *Theranostics*, 10(20), 9315–9331. <https://doi.org/10.7150/thno.46875>
19. Son, J.-W., Kim, K. Y., Park, J. Y., Kim, K., Lee, Y.-S., Ko, G. B., & Lee, J. S. (2020). SimPET: a Preclinical PET Insert for Simultaneous PET/MR Imaging. *Molecular Imaging and Biology*. <https://doi.org/10.1007/s11307-020-01491-y>
20. Jeong, H., Kim, S., Hong, B. J., Lee, C. J., Kim, Y. E., Bok, S., Oh, J. M., Gwak, S. H., Yoo, M. Y., Lee, M. S., Chung, S. J., Defrène, J., Tessier, P., Pelletier, M., Jeon, H., Roh, T. Y., Kim, B., Kim, K. H., Ju, J. H., ... Ahn, G. O. (2019). Tumor-associated macrophages enhance tumor hypoxia and aerobic glycolysis. *Cancer Research*. <https://doi.org/10.1158/0008-5472.CAN-18-2545>
21. Kim, K., Na, J., Kim, H., Lee, M. S., Ko, G. B., Kim, K. Y., Moon, B. S., Kim, S. E., Kang, K. W., Chung, J.-K., Lee, B. C., Lee, J. S., & Youn, H. (2017). Monitoring the immune cell infiltration in the LPS-induced neuroinflammation region with simultaneous small animal PET/MR imaging using a TSPO-targeting probe. *Journal of Nuclear Medicine*, 58. http://jnm.snmjournals.org/content/58/supplement_1/549.short