

BIOEMTECH

References

y-eye™

1. Zhang, M., Aykroyd, R. G., & Tsoumpas, C. (2024). Mixture prior distributions and Bayesian models for robust radionuclide image processing. *Frontiers in Nuclear Medicine*, 4, 1380518. <https://doi.org/10.3389/FNUME.2024.1380518/BIBTEX>
2. Li, M., Baumhover, N. J., Liu, D., Cagle, B. S., Boschetti, F., Paulin, G., Lee, D., Dai, Z., Obot, E. R., Marks, B. M., Okeil, I., Sagastume, E. A., Gabr, M., Pigge, F. C., Johnson, F. L., & Schultz, M. K. (2023). Preclinical Evaluation of a Lead Specific Chelator (PSC) Conjugated to Radiopeptides for 203Pb and 212Pb-Based Theranostics. *Pharmaceutics*, 15(2), 414. <https://doi.org/10.3390/PHARMACEUTICS15020414/S1>
3. Simões, J. C. S., Wagnières, G., Sarpaki, S., Sol, V., & Therrien, B. (2023). Porphyrin metalla-assemblies coupled to cellulose nanocrystals for PDT and imaging applications. <https://doi.org/10.1142/S1088424623500499>, 27(5), 797–810. <https://doi.org/10.1142/S1088424623500499>
4. Tworowska, I., Flores II, L., Qu, X., Malicet, C., Zielinski, R., Lecorche, P., Tamsamani, J., & Delpassand, E. (2023). 212Pb-DOTAM-peptide targeting LDLR-receptors in glioblastoma and pancreatic ductal adenocarcinoma. *Journal of Nuclear Medicine*, 64(supplement 1).
5. Kaur Bhangu, S., Fernandes, S., Luca Beretta, G., Tinelli, S., Cassani, M., Radziwon, A., Wojnilowicz, M., Sarpaki, S., Pilatis, I., Zaffaroni, N., Forte, G., Caruso, F., Ashokkumar, M., Cavalieri, F., Bhangu, S. K., Cavalieri, F., Radziwon, A., Wojnilowicz, M., Caruso, F., ... Pilatis Bioemtech, I. (2022). Transforming the Chemical Structure and Bio-Nano Activity of Doxorubicin by Ultrasound for Selective Killing of Cancer Cells. *Advanced Materials*, 34(13), 2107964. <https://doi.org/10.1002/ADMA.202107964>
6. Fysikopoulos, E., Rouchota, M., Eleftheriadis, V., Gatsiou, C. A., Pilatis, I., Sarpaki, S., Loudos, G., Kostopoulos, S., & Glotsos, D. (2021). Optical to Planar X-ray Mouse Image Mapping in Preclinical Nuclear Medicine Using Conditional Adversarial Networks. *Journal of Imaging* 2021, Vol. 7, Page 262, 7(12), 262. <https://doi.org/10.3390/JIMAGING7120262>
7. Papasavva, A., Shegani, A., Kiritsis, C., Roupa, I., Ischyropoulou, M., Makrypidi, K., Pilatis, I., Loudos, G., Pelecanou, M., Papadopoulos, M., & Pirmettis, I. (2021). Comparative Study of a Series of 99mTc(CO)3 Mannosylated Dextran Derivatives for Sentinel Lymph Node Detection. *Molecules* 2021, Vol. 26, Page 4797, 26(16), 4797. <https://doi.org/10.3390/MOLECULES26164797>
8. Plachouris, D., Mountris, K. A., Papadimitroulas, P., Spyridonidis, T., Katsanos, K., Apostolopoulos, D., Papathanasiou, N., Hazle, J. D., Visvikis, D., & Kagadis, G. C. (2021). Clinical Evaluation of a Three-Dimensional Internal Dosimetry Technique for Liver Radioembolization with 90Y Microspheres Using Dose Voxel Kernels. *Cancer Biotherapy & Radiopharmaceuticals*, 36(10), 809–819. <https://doi.org/10.1089/GBR.2020.4554>
9. Rouchota, M., Adamiano, A., Iafisco, M., Fragogeorgi, E., Pilatis, I., Doumont, G., Boutry, S., Catalucci, D., Zacharioudaki, A., & Kagadis, G. C. (2021). Optimization of in Vivo Studies by Combining Planar Dynamic and Tomographic Imaging: Workflow Evaluation on a Superparamagnetic Nanoparticles System. *Molecular Imaging*, 2021. <https://doi.org/10.1155/2021/6677847>

10. Sarrut, D., Bała, M., Bardis, M., Bert, J., Chauvin, M., Chatzipapas, K., Dupont, M., Etxebeste, A., Fanchon, L. M., Jan, S., Kayal, G., Kirov, A. S., Kowalski, P., Krzemien, W., Labour, J., Lenz, M., Loudos, G., Mehadji, B., Ménard, L., ... Roncali, E. (2021). Advanced Monte Carlo simulations of emission tomography imaging systems with GATE. *Physics in Medicine and Biology*, 66(10). <https://doi.org/10.1088/1361-6560/ABF276>
11. Verdenelli, L., Montalto, L., Scalise, L., David, S., Loudos, G., Rinaldi, D., & Paone, N. (2021). New opportunities in the design of gamma-camera collimators for medical imaging. 2021 IEEE Sensors Applications Symposium, SAS 2021 - Proceedings. <https://doi.org/10.1109/SAS51076.2021.9530134>
12. Verona, M., Rubagotti, S., Croci, S., Sarpaki, S., Borgna, F., Tosato, M., Vettorato, E., Marzaro, G., Mastrotto, F., & Asti, M. (2021). Preliminary Study of a 1,5-Benzodiazepine-Derivative Labeled with Indium-111 for CCK-2 Receptor Targeting. *Molecules* 2021, Vol. 26, Page 918, 26(4), 918. <https://doi.org/10.3390/MOLECULES26040918>
13. Simo, C. S., Sarpaki, S., Papadimitroulas, P., Therrien, B., & Loudos, G. (2020). Conjugated Photosensitizers for Imaging and PDT in Cancer Research. *J. Med. Chem*, 63. <https://doi.org/10.1021/acs.jmedchem.0c00047>
14. Loudos, G., Georgiou, M., Rouchota, M., Papadimitroulas, P., & Fysikopoulos, E. (2019). Benchtop systems for in vivo molecular screening of labeled compounds, as a tool to speed up drug research. *Hellenic Journal of Nuclear Medicine*, 22 Suppl 2, 183–183. <https://europepmc.org/article/med/31802061>
15. Ricci, R., Kostou, T., Chatzipapas, K., Fysikopoulos, E., Loudos, G., Montalto, L., Scalise, L., Rinaldi, D., & David, S. (2019). Monte Carlo Optical Simulations of a Small FoV Gamma Camera. Effect of Scintillator Thicknesses and Septa Materials. *Crystals* 2019, Vol. 9, Page 398, 9(8), 398. <https://doi.org/10.3390/CRYST9080398>
16. Adamiano, A., Iafisco, M., Sandri, M., Basini, M., Arosio, P., Canu, T., Sitia, G., Esposito, A., Iannotti, V., Ausanio, G., Fragogeorgi, E., Rouchota, M., Loudos, G., Lascialfari, A., & Tampieri, A. (2018). On the use of superparamagnetic hydroxyapatite nanoparticles as an agent for magnetic and nuclear in vivo imaging. <https://doi.org/10.1016/j.actbio.2018.04.040>
17. Kostopoulou, A., Brintakis, K., Fragogeorgi, E., Anthousi, A., Manna, L., Begin-Colin, S., Billotey, C., Ranella, A., Loudos, G., Athanassakis, I., & Lappas, A. (2018). Iron Oxide Colloidal Nanoclusters as Theranostic Vehicles and Their Interactions at the Cellular Level. *Nanomaterials*, 8, 315. <https://doi.org/10.3390/nano8050315>
18. Georgiou, M., Fysikopoulos, E., Mikropoulos, K., Fragogeorgi, E., & Loudos, G. (2017). Characterization of “γ-Eye”: a Low-Cost Benchtop Mouse-Sized Gamma Camera for Dynamic and Static Imaging Studies. *Molecular Imaging and Biology*, 19(3), 398–407. <https://doi.org/10.1007/S11307-016-1011-4/FIGURES/6>

β-eye™

19. Garg, M., Gandhi, K., Gera, P., Jadhav, S. M., Mohanty, B., Gurjar, M., Sandupatla, B., Gala, R., Chaudhari, P., Prasad, M., Chinnaswamy, G., & Gota, V. (2024). Implications of chronic moderate protein-deficiency malnutrition on doxorubicin pharmacokinetics and cardiotoxicity in early post-weaning stage. *Life Sciences*, 122765. <https://doi.org/10.1016/J.LFS.2024.122765>
20. Jalgaonkar, S. V., Tripathi, R., Kurhade, K. G., Chaudhari, P., Mohanty, B. S., & Vaideeswar, P. (2024). Cardioprotective effect of S-adenosyl L-methionine due to antioxidant and anti-inflammatory properties on isoproterenol-induced chronic heart failure in Wistar rats. *Indian Journal of Pharmacology*, 56(5), 335–341. https://doi.org/10.4103/IJP.IJP_407_24
21. Kolokotroni, A., Gkikopoulou, E., Rinotas, V., Ntari, L., Zareifi, D., Rouchota, M., Sarpaki, S., Lympelopoulou, I., Alexopoulos, L. G., Loudos, G., Denis, M. C., Karagianni, N., & Douni, E. (2023). A Humanized RANKL Transgenic Mouse

- Model of Progesterin-Induced Mammary Carcinogenesis for Evaluation of Novel Therapeutics. *Cancers*, 15(15), 4006. <https://doi.org/10.3390/CANCERS15154006/S1>
22. Mehta, D., Shaikh, S., Mohanty, B., Chaudhari, P., & Waghmare, S. K. (2023). Secretory phospholipase (sPLA2-IIA) regulates breast cancer stem cells differentiation and metastatic potential. *Biochemical and Biophysical Research Communications*, 677, 98–104. <https://doi.org/10.1016/J.BBRC.2023.07.057>
 23. Fysikopoulos, E., Rouchota, M., Georgiou, M., Sfyris, C., Cheimarios, N., Sarpaki, S., Kostopoulos, S., Glotsos, D., Larimer, B., Hunter, C., Lapi, S., Houson, H., Massicano, A. V. F., Sorace, A., Lamprou, E., & Loudos, G. (2022). β -eye: A benchtop system for in vivo molecular screening of labeled compounds. *Applied Radiation and Isotopes*, 180, 110034. <https://doi.org/10.1016/J.APRADISO.2021.110034>
 24. Fysikopoulos, E., Rouchota, M., Eleftheriadis, V., Gatsiou, C. A., Pilatis, I., Sarpaki, S., Loudos, G., Kostopoulos, S., & Glotsos, D. (2021). Optical to Planar X-ray Mouse Image Mapping in Preclinical Nuclear Medicine Using Conditional Adversarial Networks. *Journal of Imaging* 2021, Vol. 7, Page 262, 7(12), 262. <https://doi.org/10.3390/JIMAGING7120262>
 25. Plachouris, D., Mountris, K. A., Papadimitroulas, P., Spyridonidis, T., Katsanos, K., Apostolopoulos, D., Papathanasiou, N., Hazle, J. D., Visvikis, D., & Kagadis, G. C. (2021). Clinical Evaluation of a Three-Dimensional Internal Dosimetry Technique for Liver Radioembolization with 90Y Microspheres Using Dose Voxel Kernels. *Cancer Biotherapy & Radiopharmaceuticals*, 36(10), 809–819. <https://doi.org/10.1089/CBR.2020.4554>
 26. Loudos, G., Georgiou, M., Rouchota, M., Papadimitroulas, P., & Fysikopoulos, E. (2019). Benchtop systems for in vivo molecular screening of labeled compounds, as a tool to speed up drug research. *Hellenic Journal of Nuclear Medicine*, 22 Suppl 2, 183–183. <https://europepmc.org/article/med/31802061>

 Φ -eye™

27. Magkouta, S., Veroutis, D., Pousias, A., Papaspyropoulos, A., Pippa, N., Lougiakis, N., Kambas, K., Lagopati, N., Polyzou, A., Georgiou, M., Chountoules, M., Pispas, S., Foutadakis, S., Pouli, N., Marakos, P., Kotsinas, A., Verginis, P., Valakos, D., Mizi, A., ... Gorgoulis, V. G. (2023). A fluorophore-conjugated reagent enabling rapid detection, isolation and live tracking of senescent cells. *Molecular Cell*, 83(19), 3558–3573.e7. <https://doi.org/10.1016/J.MOLCEL.2023.09.006>