

SuperArgus - References

1. Cheng, M.-F. *et al.* Neuroinflammation in Low-Level PM2.5-Exposed Rats Illustrated by PET via an Improved Automated Produced [18F]FEPPA: A Feasibility Study. *Mol Imaging* **2022**, 1–11 (2022).
2. He, Y. *et al.* Discovery, synthesis and evaluation of novel reversible monoacylglycerol lipase radioligands bearing a morpholine-3-one scaffold. *Nucl Med Biol* **108–109**, 24–32 (2022).
3. Cheng, M.-F. *et al.* Neuroinflammation in Low-Level PM2.5-Exposed Rats Illustrated by PET via an Improved Automated Produced [18F]FEPPA: A Feasibility Study. *Mol Imaging* **2022**, 1–11 (2022).
4. Lacerda, S. *et al.* On the Versatility of Nanozeolite Linde Type L for Biomedical Applications: Zirconium-89 Radiolabeling and In Vivo Positron Emission Tomography Study. *ACS Appl Mater Interfaces* **14**, 32788–32798 (2022).
5. España, S. *et al.* In vivo production of fluorine-18 in a chicken egg tumor model of breast cancer for proton therapy range verification. *Sci Rep* **12**, (2022).
6. Chen, M.-L. & Wu, R.-M. Homozygous mutation of the LRRK2 ROC domain as a novel genetic model of parkinsonism. *Journal of Biomedical Science* **2022** 29:1 **29**, 1–15 (2022).
7. Cheng, M.-F. *et al.* Neuroinflammation in Low-Level PM2.5-Exposed Rats Illustrated by PET via an Improved Automated Produced [18F]FEPPA: A Feasibility Study. *Mol Imaging* **2022**, 1–11 (2022).
8. Drieu, A. *et al.* Persistent neuroinflammation and behavioural deficits after single mild traumatic brain injury. *J Cereb Blood Flow Metab* **0271678X2211192** (2022)
doi:10.1177/0271678X221119288.
9. He, Y. *et al.* Discovery, synthesis and evaluation of novel reversible monoacylglycerol lipase radioligands bearing a morpholine-3-one scaffold. *Nucl Med Biol* **108–109**, 24–32 (2022).
10. Limagne, E. *et al.* MEK inhibition overcomes chemoimmunotherapy resistance by inducing CXCL10 in cancer cells. *Cancer Cell* (2022) doi:10.1016/j.ccell.2021.12.009.
11. Talkington, A. M. *et al.* A PBPK model recapitulates early kinetics of anti-PEG antibody-mediated clearance of PEG-liposomes. *Journal of Controlled Release* **343**, 518–527 (2022).
12. de Francisco, A. *et al.* Effect of illumination level [18F]FDG-PET brain uptake in free moving mice. *PLoS One* **16**, (2021).
13. Han, X., Ren, H., Nandi, A., Fan, X. & Koehler, R. C. Analysis of glucose metabolism by 18F-FDG-PET imaging and glucose transporter expression in a mouse model of intracerebral hemorrhage. *Sci Rep* **11**, (2021).
14. Lee, Y. J. *et al.* Clonorchis sinensis-Derived Protein Attenuates Inflammation and New Bone Formation in Ankylosing Spondylitis. *Front Immunol* **12**, (2021).

15. Efthimiou, N. *et al.* Influence of Multiple Animal Scanning on Image Quality for the Sedecal SuperArgus2R Preclinical PET Scanner. *Front Phys* **8**, (2021).
16. Yeh, S. H. H. *et al.* Automated Synthesis and Initial Evaluation of (4'-Amino-5',8'-difluoro-1' H-spiro[piperidine-4,2'-quinazolin]-1-yl)(4-[18F]fluorophenyl)methanone for PET/MR Imaging of Inducible Nitric Oxide Synthase. *Mol Imaging* **2021**, (2021).
17. Chaney, A. M. *et al.* Prodromal neuroinflammatory, cholinergic and metabolite dysfunction detected by PET and MRS in the TgF344-AD transgenic rat model of AD: A collaborative multi-modal study. *Theranostics* **11**, 6644–6667 (2021).
18. Chaney, A. M. *et al.* Prodromal neuroinflammatory, cholinergic and metabolite dysfunction detected by PET and MRS in the TgF344-AD transgenic rat model of AD: A collaborative multi-modal study. *Theranostics* **11**, 6644–6667 (2021).
19. Abdollahi Boraie, S. B. *et al.* Enhanced osteogenesis of gelatin-halloysite nanocomposite scaffold mediated by loading strontium ranelate. *International Journal of Polymeric Materials and Polymeric Biomaterials* **70**, 392–402 (2021).
20. McHugh, C. T. *et al.* Differences in [18F]FDG uptake in BAT of UCP1 –/– and UCP1 +/+ during adrenergic stimulation of non-shivering thermogenesis. *EJNMMI Res* **10**, (2020).
21. Romero, E. *et al.* Development and long-term evaluation of a new 68Ge/68Ga generator based on nano-SnO₂ for PET imaging. *Sci Rep* **10**, (2020).
22. Vetel, S. *et al.* Longitudinal PET Imaging of $\alpha 7$ Nicotinic Acetylcholine Receptors with [18F]ASEM in a Rat Model of Parkinson's Disease. *Mol Imaging Biol* **22**, 348–357 (2020).
23. Cussó, L., Reigadas, E., Muñoz, P., Desco, M. & Bouza, E. Evaluation of Clostridium difficile Infection with PET/CT Imaging in a Mouse Model. *Mol Imaging Biol* **22**, 587–592 (2020).
24. López-Torres, I. I., Sanz-Ruíz, P., Navarro-García, F., León-Román, V. E. & Vaquero-Martín, J. Experimental reproduction of periprosthetic joint infection: Developing a representative animal model. *Knee* (2020) doi:10.1016/j.knee.2019.12.012.
25. Huang, H. *et al.* Evaluation of 124I-JS001 for hPD1 immuno-PET imaging using sarcoma cell homografts in humanized mice. *Acta Pharm Sin B* (2020) doi:10.1016/j.apsb.2020.02.004.
26. Huang, H. *et al.* Evaluation of 124I-JS001 for hPD1 immuno-PET imaging using sarcoma cell homografts in humanized mice. *Acta Pharm Sin B* **10**, 1321–1330 (2020).
27. Luo, X. *et al.* Multifunctional HNTs@Fe₃O₄@PPy@DOX nanoplatform for Effective Chemo-Photothermal Combination Therapy of Breast Cancer with MR imaging. *ACS Biomater Sci Eng* acsbiomaterials.9b01709 (2020) doi:10.1021/acsbiomaterials.9b01709.
28. You, H. *et al.* Sight and switch off: Nerve density visualization for interventions targeting nerves in prostate cancer. *Sci Adv* **6**, (2020).

29. Garello, F., Gündüz, S., Vibhute, S., Angelovski, G. & Terreno, E. Dendrimeric calcium-sensitive MRI probes: The first low-field relaxometric study. *J Mater Chem B* (2020) doi:10.1039/c9tb02600b.
30. Hu, J. *et al.* Fabrication of Glyco-Metal-Organic Frameworks for Targeted Interventional Photodynamic/Chemotherapy for Hepatocellular Carcinoma through Percutaneous Transperitoneal Puncture. *Adv Funct Mater* 1910084 (2020) doi:10.1002/adfm.201910084.
31. Luo, X. L. *et al.* Development and characterization of mammary intraductal (MIND) spontaneous metastasis models for triple-negative breast cancer in syngeneic mice. *Sci Rep* (2020) doi:10.1038/s41598-020-61679-8.
32. Swissa, E. *et al.* Midazolam and isoflurane combination reduces late brain damage in the paraoxon-induced status epilepticus rat model. *Neurotoxicology* (2020) doi:10.1016/j.neuro.2020.02.007.
33. Yang, L. *et al.* Novel anilino quinazoline-based EGFR tyrosine kinase inhibitors for treatment of non-small cell lung cancer. *Biomater Sci* (2020) doi:10.1039/d0bm00293c.
34. Guo, X. *et al.* Construction of 124I-trastuzumab for noninvasive PET imaging of HER2 expression: from patient-derived xenograft models to gastric cancer patients. *Gastric Cancer* (2020) doi:10.1007/s10120-019-01035-6.
35. Abou, D. S. *et al.* Preclinical Single Photon Emission Computed Tomography of Alpha Particle-Emitting Radium-223. *Cancer Biother Radiopharm* cbr.2019.3308 (2020) doi:10.1089/cbr.2019.3308.
36. Taheri, H. *et al.* Photocatalytically Active Graphitic Carbon Nitride as an Effective and Safe 2D Material for In Vitro and In Vivo Photodynamic Therapy. *Small* (2020) doi:10.1002/smll.201904619.
37. Burke, B. P. *et al.* ⁶⁴Cu PET imaging of the CXCR4 chemokine receptor using a cross-bridged cyclam bis-tetraazamacrocyclic antagonist. *Journal of Nuclear Medicine* (2020) doi:10.2967/jnumed.118.218008.
38. Fragola, G. *et al.* Deletion of Topoisomerase 1 in excitatory neurons causes genomic instability and early onset neurodegeneration. *Nat Commun* (2020) doi:10.1038/s41467-020-15794-9.
39. Fan, D. *et al.* A ⁶⁴Cu-porphyrin-based dual-modal molecular probe with integrin $\alpha_v\beta_3$ targeting function for tumour imaging. *J Labelled Comp Radiopharm* **63**, 212–221 (2020).
40. Varlow, C. *et al.* Revisiting the Radiosynthesis of [18F]FPEB and Preliminary PET Imaging in a Mouse Model of Alzheimer's Disease. *Molecules* **25**, 982 (2020).
41. Hageman, K. N. *et al.* Binocular 3D otolith-ocular reflexes: responses of chinchillas to prosthetic electrical stimulation targeting the utricle and saccule. *J Neurophysiol* **123**, 259–276 (2020).

42. Remzi, O. A., Caner, B., Okan, E., Ufuk, K. & Nuriye, Ö. K. Accuracy and Reliability of Measurements Obtained from 3-Dimensional Rabbit Mandible Model: A Micro-Computed Tomography Study. *Acta Vet Brno* **69**, 192–200 (2019).
43. Minn, I. *et al.* *I M M U N O L O G Y Imaging CAR T cell therapy with PSMA-targeted positron emission tomography.* (2019).
44. Kumar, D. *et al.* Peptide-based PET quantifies target engagement of PD-L1 therapeutics. *Journal of Clinical Investigation* **129**, 616–630 (2019).
45. Xu, X. *et al.* Synthesis and evaluation of ⁶⁴Cu-radiolabeled NOTA-cetuximab (⁶⁴Cu-NOTA-C225) for immuno-PET imaging of EGFR expression. *Chinese Journal of Cancer Research* **31**, 400–409 (2019).
46. Ortega-Gil, A., Vaquero, J. J., Gonzalez-Arjona, M., Rullas, J. & Muñoz-Barrutia, A. X-ray-based virtual slicing of TB-infected lungs. *Sci Rep* **9**, (2019).
47. Taddio, M. F. *et al.* Synthesis and Structure–Affinity Relationship of Small Molecules for Imaging Human CD80 by Positron Emission Tomography. *J Med Chem* **62**, 8090–8100 (2019).
48. Ahmed, H. *et al.* Structure-Affinity Relationships of 2,3,4,5-Tetrahydro-1 H-3-benzazepine and 6,7,8,9-Tetrahydro-5 H-benzo[7]annulen-7-amine Analogues and the Discovery of a Radiofluorinated 2,3,4,5-Tetrahydro-1 H-3-benzazepine Congener for Imaging GluN2B Subunit-Containing N-Methyl-d-aspartate Receptors. *J Med Chem* **62**, 9450–9470 (2019).
49. Casquero-Veiga, M. *et al.* Risperidone administered during adolescence induced metabolic, anatomical and inflammatory/oxidative changes in adult brain: A PET and MRI study in the maternal immune stimulation animal model. *European Neuropsychopharmacology* **29**, 880–896 (2019).
50. Minn, I. *et al.* *I M M U N O L O G Y Imaging CAR T cell therapy with PSMA-targeted positron emission tomography.* <http://advances.sciencemag.org/> (2019).
51. Bonaventura, J. *et al.* High-potency ligands for DREADD imaging and activation in rodents and monkeys. *Nat Commun* **10**, (2019).
52. Bouzas-Ramos, D. *et al.* Carbon Quantum Dots Codoped with Nitrogen and Lanthanides for Multimodal Imaging. *Adv Funct Mater* **29**, (2019).
53. Ouach, A. *et al.* Bis(het)aryl-1,2,3-triazole quinuclidines as $\alpha 7$ nicotinic acetylcholine receptor ligands: Synthesis, structure affinity relationships, agonism activity, [¹⁸F]-radiolabeling and PET study in rats. *Eur J Med Chem* **179**, 449–469 (2019).
54. Huhtala, T. *et al.* Improved synthesis of [¹⁸F] fallypride and characterization of a Huntington's disease mouse model, zQ175DN KI, using longitudinal PET imaging of D2/D3 receptors. *EJNMMI Radiopharm Chem* **4**, (2019).

55. Huang, Y. Y. *et al.* An one-pot two-step automated synthesis of [18F]T807 injection, its biodistribution in mice and monkeys, and a preliminary study in humans. *PLoS One* **14**, (2019).
56. Gandhi, R. *et al.* Cell proliferation detected using [18F]FLT PET/CT as an early marker of abdominal aortic aneurysm. *Journal of Nuclear Cardiology* (2019) doi:10.1007/s12350-019-01946-y.
57. Lesniak, W. G. *et al.* Development of [18F]FPy-WL12 as a PD-L1 Specific PET Imaging Peptide. *Mol Imaging* **18**, (2019).
58. Kim, S. *et al.* Transneuronal Propagation of Pathologic α -Synuclein from the Gut to the Brain Models Parkinson's Disease. *Neuron* **103**, 627-641.e7 (2019).
59. Ortega-Gil, A., Vaquero, J. J., Gonzalez-Arjona, M., Rullas, J. & Muñoz-Barrutia, A. X-ray-based virtual slicing of TB-infected lungs. *Sci Rep* **9**, (2019).
60. Kim, S. *et al.* Transneuronal Propagation of Pathologic α -Synuclein from the Gut to the Brain Models Parkinson's Disease. *Neuron* **103**, 627-641.e7 (2019).
61. Tadzysak, K. *et al.* Magnetic and electric properties of partially reduced graphene oxide aerogels. *J Magn Magn Mater* (2019) doi:10.1016/j.jmmm.2019.165656.
62. Soultanidis, G. *et al.* Development of an anatomically correct mouse phantom for dosimetry measurement in small animal radiotherapy research. *Phys Med Biol* (2019) doi:10.1088/1361-6560/ab215b.
63. Minn, I. *et al.* Imaging CAR T cell therapy with PSMA-targeted positron emission tomography. *Sci Adv* **5**, eaaw5096 (2019).
64. Müller Herde, A. *et al.* Chronic Nicotine Exposure Alters Metabotropic Glutamate Receptor 5: Longitudinal PET Study and Behavioural Assessment in Rats. *Neurotox Res* (2019) doi:10.1007/s12640-019-00055-5.
65. Xu, H. *et al.* Nanoliposomes co-encapsulating CT imaging contrast agent and photosensitizer for enhanced, imaging guided photodynamic therapy of cancer. *Theranostics* (2019) doi:10.7150/thno.31079.
66. Daneshgaran, G. *et al.* A Pre-clinical Animal Model of Secondary Head and Neck Lymphedema. *Sci Rep* **9**, 18264 (2019).
67. Elovic, E., Etzion, S. & Cohen, S. MiR-499 Responsive Lethal Construct for Removal of Human Embryonic Stem Cells after Cardiac Differentiation. *Sci Rep* **9**, 14490 (2019).
68. Deng, H. *et al.* Targeted and Multifunctional Technology for Identification between Hepatocellular Carcinoma and Liver Cirrhosis. *ACS Appl Mater Interfaces* **11**, 14526–14537 (2019).
69. Garbuzenko, O. B., Kuzmov, A., Taratula, O., Pine, S. R. & Minko, T. Strategy to enhance lung cancer treatment by five essential elements: Inhalation delivery, nanotechnology, tumor-receptor targeting, chemo- and gene therapy. *Theranostics* (2019) doi:10.7150/thno.39816.

70. Thau-Zuchman, O. *et al.* A single injection of docosahexaenoic acid induces a pro-resolving lipid mediator profile in the injured tissue and a long-lasting reduction in neurological deficit after traumatic brain injury in mice. *J Neurotrauma* **44**, neu.2019.6420 (2019).
71. Jin, Y., Li, Y., Yang, X. & Tian, J. Neuroblastoma-targeting triangular gadolinium oxide nanoplates for precise excision of cancer. *Acta Biomater* **87**, 223–234 (2019).
72. Badachhape, A. A. *et al.* Pre-clinical magnetic resonance imaging of retroplacental clear space throughout gestation. *Placenta* **77**, 1–7 (2019).
73. Hu, M. *et al.* Boosting Postsurgical Outcomes of Orthotopic Hepatocellular Carcinoma via an EpCAM-Targeting Theranostic Nanoparticle. *Particle & Particle Systems Characterization* **1900085**, 1900085 (2019).
74. Li, T. *et al.* Multiscale imaging of colitis in mice using confocal laser endomicroscopy, light-sheet fluorescence microscopy, and magnetic resonance imaging. *J Biomed Opt* **24**, 1 (2019).
75. Badachhape, A. A. *et al.* Nanoparticle Contrast-enhanced T1-Mapping Enables Estimation of Placental Fractional Blood Volume in a Pregnant Mouse Model. *Sci Rep* **9**, 1–9 (2019).
76. Kolbe, I., Leinweber, B., Brandenburger, M. & Oster, H. Circadian clock network desynchrony promotes weight gain and alters glucose homeostasis in mice. *Mol Metab* **30**, 140–151 (2019).
77. Yin, J. *et al.* Nanoassembly and Multiscale Computation of Multifunctional Optical-Magnetic Nanoprobes for Tumor-Targeted Theranostics. *ACS Appl Mater Interfaces* (2019) doi:10.1021/acsami.9b14668.
78. Herde, A. M. *et al.* Ketamine and ceftriaxone-induced alterations in glutamate levels do not impact the specific binding of metabotropic glutamate receptor subtype 5 radioligand [18F]PSS232 in the rat brain. *Pharmaceuticals* (2018) doi:10.3390/ph11030083.
79. Pickett, J. E. *et al.* Molecularly specific detection of bacterial lipoteichoic acid for diagnosis of prosthetic joint infection of the bone. *Bone Res* (2018) doi:10.1038/s41413-018-0014-y.
80. Taddio, M. F., Mu, L., Keller, C., Schibli, R. & Krämer, S. D. Physiologically Based Pharmacokinetic Modelling with Dynamic PET Data to Study the in Vivo Effects of Transporter Inhibition on Hepatobiliary Clearance in Mice. *Contrast Media Mol Imaging* (2018) doi:10.1155/2018/5849047.
81. B., T., T.-S., L., R., M.-R., P., A. & P., S.-S. Evaluation of myocardial oxidative metabolism in mice with carbon-11 acetate and dynamic PET. *Journal of Nuclear Medicine* **59**, 1518 (2018).
82. Zhang, Y. *et al.* Preclinical evaluation of severely defective manganese-based nanocrystal as a liver-specific contrast media for MR imaging: Comparison with Gd-EOB-DTPA and MnDPDP. *Nanotechnology* (2018) doi:10.1088/1361-6528/aab5fe.
83. Hu, P. *et al.* Evaluation of Novel ⁶⁴Cu-Labeled Theranostic Gadolinium-Based Nanoprobes in HepG2 Tumor-Bearing Nude Mice. *Nanoscale Res Lett* (2017) doi:10.1186/s11671-017-2292-5.

84. Airan, R. D. *et al.* MR-Guided Delivery of Hydrophilic Molecular Imaging Agents Across the Blood-Brain Barrier Through Focused Ultrasound. *Mol Imaging Biol* (2017) doi:10.1007/s11307-016-0985-2.
85. Liu, F. *et al.* ⁶⁸Ga/¹⁷⁷Lu-labeled DOTA-TATE shows similar imaging and biodistribution in neuroendocrine tumor model. *Tumour Biol* **39**, 1010428317705519 (2017).
86. Liu, M. *et al.* In vivo pentamodal tomographic imaging for small animals. *Biomed Opt Express* (2017) doi:10.1364/boe.8.001356.
87. Shaltiel-Karyo, R. *et al.* Magnetic Resonance Imaging as a Noninvasive Method for Longitudinal Monitoring of Infusion Site Reactions Following Administration of a Novel Apomorphine Formulation. *Toxicol Pathol* (2017) doi:10.1177/0192623317706111.
88. Zoch, M. L., Abou, D. S., Clemens, T. L., Thorek, D. L. J. & Riddle, R. C. In vivo radiometric analysis of glucose uptake and distribution in mouse bone. *Bone Res* **4**, 16004 (2016).