Aspect Imaging M-Series™ MRI

References

1. Curcio, C., Mucciolo, G., Roux, C., Brugiapaglia, S., Scagliotti, A., Guadagnin, G., Conti, L., Longo, D., Grosso, D., Papotti, M. G., Hirsch, E., Cappello, P., Varner, J. A., & Novelli, F. (2024). PI3Kγ inhibition combined with DNA vaccination unleashes a B-cell-dependent antitumor immunity that hampers pancreatic cancer. Journal of Experimental & Clinical Cancer Research 2024 43:1, 43(1), 1–13. https://doi.org/10.1186/S13046-024-03080-1

2. Fioravanti, G., Galante, A., Fattibene, P., Tullio, L. T. Di, Colacicchi, S., Thomasis, G. De, Perrozzi, F., Berardinis, N. De, Profeta, G., Ottaviano, L., & Alecci, M. (2024). Disentangling the intrinsic relaxivities of highly purified graphene oxide. Nanotechnology, 35(24), 245101. https://doi.org/10.1088/1361-6528/AD3253

3. Kośnik, W., Sikorska, H., Kiciak, A., & Ciach, T. (2024). Nanoparticle-Encapsulated Epirubicin Efficacy in the Inhibition of Growth of Orthotopic Ovarian Patient-Derived Xenograft in Immunocompromised Mice. International Journal of Molecular Sciences, 25(1), 645. https://doi.org/10.3390/IJMS25010645/S1

4. Ma, J., Yu, H., Zhang, X., Xu, Z., Hu, H., Liu, J., Ren, P., Kong, X., Chen, J., Yang, K., Wang, X., He, X., Luo, H., & Chen, G. (2024). Dual-Targeted Metal Ion Network Hydrogel Scaffold for Promoting the Integrated Repair of Tendon-Bone Interfaces. ACS Applied Materials and Interfaces, 16(5), 5582–5597. https://doi.org/10.1021/ACSAMI.3C16544/SUPPL_FILE/AM3C16544_SI_001.PDF

5. Mutoh, T., Tochinai, R., Aono, H., Kuwahara, M., Taki, Y., & Ishikawa, T. (2024). Simple procedure for assessing diffuse subarachnoid hemorrhage successfully created using filament perforation method in mice. Animal Models and Experimental Medicine, 7(1), 77–81. https://doi.org/10.1002/AME2.12372

6. Nomani, A., Yousefi, S., Sargsyan, D., & Hatefi, A. (2024). A quantitative MRI-based approach to estimate the permeation and retention of nanomedicines in tumors. Journal of Controlled Release, 368, 728–739. https://doi.org/10.1016/J.JCONREL.2024.03.019

7. Saldana-Guerrero, I. M., Montano-Gutierrez, L. F., Boswell, K., Hafemeister, C., Poon, E., Shaw, L. E., Stavish, D., Lea, R. A., Wernig-Zorc, S., Bozsaky, E., Fetahu, I. S., Zoescher, P., Pötschger, U., Bernkopf, M., Wenninger-Weinzierl, A., Sturtzel, C., Souilhol, C., Tarelli, S., Shoeb, M. R., … Halbritter, F. (2024). A human neural crest model reveals the developmental impact of neuroblastoma-associated chromosomal aberrations. Nature Communications 2024 15:1, 15(1), 1–25. https://doi.org/10.1038/s41467-024-47945-7

8. Thomas, R. G. ;, Kim, S. ;, Tran, T.-A.-T. ;, Kim, Y. H. ;, Nagareddy, R. ;, Jung, T.-Y. ;, Kim, S. K. ;, Jeong, Y. Y., Thomas, R. G., Kim, S., Tran, T.-A.-T., Kim, Y. H., Nagareddy, R., Jung, T.-Y., Kim, S. K., & Jeong, Y. Y. (2024). Magnet-Guided Temozolomide and Ferucarbotran Loaded Nanoparticles to Enhance Therapeutic Efficacy in Glioma Model. Nanomaterials 2024, Vol. 14, Page 939, 14(11), 939. https://doi.org/10.3390/NANO14110939

9. Xu, X., Dong, P. L., Chai, Y. Y., Yang, R., Ma, Z. H., & Lu, C. C. (2024). Doping engineering of iron oxide nanoparticles towards high performance and biocompatible T1-weighted MRI contrast agents. Rare Metals, 43(1), 298–308. https://doi.org/10.1007/S12598-023-02443-5/METRICS

10. Zeng, W., Li, Z., Huang, Q., Ding, C., Yang, L., Wang, W., Shi, Z., Yang, Y., Chen, H., Mei, L., & Zeng, X. (2024). Multifunctional Mesoporous Polydopamine-Based Systematic Delivery of STING Agonist for Enhanced Synergistic Photothermal-Immunotherapy. Advanced Functional Materials, 34(1), 2307241. https://doi.org/10.1002/ADFM.202307241

11. Zhang, M., Wu, T., Zhang, H., Chen, Z., Yang, Y., Ling, Y., & Zhou, Y. (2024). Mesoporous carbon hemispheres integrated with Fe–Gd nanoparticles for potential MR/PA imaging-guided photothermal therapy. Journal of Materials Chemistry B, 12(3), 658–666. https://doi.org/10.1039/D3TB02073H

12. Badachhape, A. A., Burnett, B., Bhandari, P., Devkota, L., Bhavane, R., Ghaghada, K. B., Yallampalli, C., Fox, K. A., Annapragada, A. V, & Singleton, E. B. (2023). Feasibility Study of Ferumoxtyol for Contrast-enhanced MRI of Retroplacental Clear Space Disruption in Placenta Accreta Spectrum (PAS). https://doi.org/10.1101/2023.03.20.23287436

13. Burns, J. M., Kalinosky, B. T., Sloan, M. A., Cerna, C. Z., Fines, D. A., Valdez, C. M., & Voorhees, W. B. (2023). Dilation of the superior sagittal sinus detected in rat model of mild traumatic brain injury using 1 T magnetic resonance imaging. Frontiers in Neurology, 14. https://doi.org/10.3389/FNEUR.2023.1045695/FULL

14. Cai, C., Tian, F., Ma, J., Yu, Z., Yang, M., & Yi, C. (2023). BSA-templated synthesis of Ir/Gd bimetallic oxide nanotheranostics for MR/CT imaging-guided photothermal and photodynamic synergistic therapy. Nanoscale, 15(9), 4457–4468. https://doi.org/10.1039/D2NR06306A

15. Collyer, E., Boyle, B. R., Gomez-Galvez, Y., Iacovitti, L., & Blanco-Suarez, E. (2023). Absence of chordin-like 1 aids motor recovery in a mouse model of stroke. Experimental Neurology, 370, 114548. https://doi.org/10.1016/J.EXPNEUROL.2023.114548

16. de Vries, L. S., & Groenendaal, F. (2023). Do we need a brain MRI once or twice in infants treated with hypothermia? Pediatric Research 2023, 1–3. https://doi.org/10.1038/s41390-023-02634-x

17. Huang, M., Qi, M., Yang, H., Peng, Z., Chen, S., Liang, M., Hu, Y., Deng, L., & Hu, M. (2023). Noninvasive Strategies for the Treatment of Tiny Liver Cancer: Integrating Photothermal Therapy and Multimodality Imaging EpCAM-Guided Nanoparticles. ACS Applied Materials and Interfaces. https://doi.org/10.1021/ACSAMI.3C00211/SUPPL_FILE/AM3C00211_SI_001.PDF

18. Huang, N., Chen, Z., Yang, X., Gao, Y., Zhong, J., Li, Y., Xiao, F., Wang, X., Shi, Y., & Zhang, N. (2023). Upstream open reading frame-encoded MP31 disrupts the mitochondrial quality control process and inhibits tumorigenesis in glioblastoma. Neuro-Oncology, 25(11), 1947–1962. https://doi.org/10.1093/NEUONC/NOAD099

19. Leon-Chaviano, S., Kiseleva, M., Legros, P., Collin, S., Lescot, T., Henoumont, C., Gossuin, Y., Laurent, S., Mayrand, D., Fradette, J., Bégin-Drolet, A., Ruel, J., & Fortin, M.-A. (2023). A Nanoparticle Ink Allowing the High Precision Visualization of Tissue Engineered Scaffolds by MRI. https://doi.org/10.1002/smll.202206644

20. Liu, H., Nie, T., Duan, X., Zhang, X., Zheng, Y., Zhong, W., Chen, H., Miao, C., Wu, J., & Lin, D. (2023). Cerebral delivery of redox-responsive lenalidomide prodrug plus methotrexate for primary central nerve system lymphoma combination therapy. Journal of Controlled Release, 359, 132–146. https://doi.org/10.1016/J.JCONREL.2023.05.040

21. Maloshenok, L., Abushinova, G., Kazachkina, N., Bogdanov, A., & Zherdeva, V. (2023). Tet-Regulated Expression and Optical Clearing for In Vivo Visualization of Genetically Encoded Chimeric dCas9/Fluorescent Protein Probes. Materials 2023, Vol. 16, Page 940, 16(3), 940. https://doi.org/10.3390/MA16030940

22. Mirbod, P., & Shapley, N. C. (2023). Particle migration of suspensions in a pressure-driven flow over and through a porous structure. Journal of Rheology, 67(2), 417–432. https://doi.org/10.1122/8.0000505

23. Myers, M. I., Hines, K. J., Gray, A., Spagnuolo, G., Rosenwasser, R., & Iacovitti, L. (2023). Intracerebral Transplantation of Autologous Mesenchymal Stem Cells Improves Functional Recovery in a Rat Model of Chronic Ischemic Stroke. Translational Stroke Research, 1, 1–14. https://doi.org/10.1007/S12975-023-01208-7/FIGURES/7

24. Noh, J. I., Ahn, E. J., Noh, M. G., Moon, K. S., Chung, E., Choi, C., Lee, K. H., & Kim, S. S. (2023). Orthotopic Mouse Models of Urinary Bladder Cancer. In Vivo, 37(5), 2039–2043. https://doi.org/10.21873/INVIVO.13301

25. Sharma, G., Braga, M. C., Da Pieve, C., Szopa, W., Starzetz, T., Plate, K. H., Kaspera, W., & Kramer-Marek, G. (2023). Immuno-PET Imaging of Tumour PD-L1 Expression in Glioblastoma. Cancers, 15(12), 3131. https://doi.org/10.3390/CANCERS15123131/S1

26. Shi, X., Guo, L., Liu, J., Tian, J., & Hu, Z. (2023). NIR-IIb Fluorescence Molecular Tomography of Glioblastomas Based on Heterogeneous Mouse Models and Adaptive Projection Match Pursuit Method. IEEE Transactions on Biomedical Engineering, 1–13. https://doi.org/10.1109/TBME.2023.3239735

27. Simaan-Yameen, H., Bar-Am, O., Saar, G., & Seliktar, D. (2023). Methacrylated Fibrinogen Hydrogels for 3D Cell Culture and Delivery. Acta Biomaterialia. https://doi.org/10.1016/J.ACTBIO.2023.03.046

28. Swanda, R. V, Ji, Q., Uematsu, S., Dong, Y., & Correspondence, S.-B. Q. (2023). Lysosomal cystine governs ferroptosis sensitivity in cancer via cysteine stress response. https://doi.org/10.1016/j.molcel.2023.08.004

29. Tang, Y., Shu, Z., Zhu, M., Li, S., Ling, Y., Fu, Y., Hu, Z., Wang, J., Yang, Z., Liao, J., Xu, L., Yu, M., & Peng, Z. (2023). Size-Tunable Nanoregulator-Based Radiofrequency Ablation Suppresses MDSCs and Their Compensatory Immune Evasion in Hepatocellular Carcinoma. Advanced Healthcare Materials, 12(30), 2302013. https://doi.org/10.1002/ADHM.202302013

30. Thomas, R. G., Kim, J., Kim, J., Yoon, J., Choi, K.-H., & Jeong, Y.-Y. (2023). Treatment of Ischemic Stroke by Atorvastatin-Loaded PEGylated Liposome. Translational Stroke Research. https://doi.org/10.1007/S12975-023-01125-9

31. Thomas, R. G., Kim, S., Tran, T.-A.-T., Kim, Y. H., Nagareddy, R., Jung, T.-Y., Kim, S. K., & Jeong, Y. Y. (2023). Magnet-guided temozolomide and superparamagnetic iron oxide-loaded nanoparticles to enhance therapeutic efficacy in a glioma model. https://doi.org/10.21203/RS.3.RS-3287278/V1

32. Thomas, R. G., Nagareddy, R., Kim, S., Choi, K. H., & Jeong, Y. Y. (2023). Bilirubin and Glycol Chitosan Conjugate Nanoparticle Loaded with Manganese Oxide and Chlorin e6 for Radiodynamic Therapy. Proceedings of the IEEE Conference on Nanotechnology, 2023-July, 788–792. https://doi.org/10.1109/NANO58406.2023.10231270

33. Xu, L. B., Qin, Y. F., Su, L., Huang, C., Xu, Q., Zhang, R., Shi, X. De, Sun, R., Chen, J., Song, Z., Jiang, X., Shang, L., Xiao, G., Kong, X., Liu, C., & Wong, P. P. (2023). Cathepsin-facilitated invasion of BMI1-high hepatocellular carcinoma cells drives bile duct tumor thrombi formation. Nature Communications 2023 14:1, 14(1), 1–18. https://doi.org/10.1038/s41467-023-42930-y

34. Xu, X., Dong, P.-L., Chai, Y.-Y., Yang, R., Ma, Z.-H., & Lu, C.-C. (2023). Doping engineering of iron oxide nanoparticles towards high performance and biocompatible T1-weighted MRI contrast agents. Rare Metals, 1–11. https://doi.org/10.1007/S12598-023-02443-5/METRICS

35. Yokota, S., Miyaso, H., Hirai, T., Suga, K., Wakayama, T., Taquahashi, Y., & Kitajima, S. (2023). Development of a non-invasive method for testicular toxicity evaluation using a novel compact magnetic resonance imaging system. The Journal of Toxicological Sciences, 48(2), 57–64. https://doi.org/10.2131/JTS.48.57

36. Zeng, L., Ding, S., Cao, Y., Li, C., Zhao, B., Ma, Z., Zhou, J., Hu, Y., Zhang, X., Yang, Y., Duan, G., Bian, X.-W., & Tian, G. (2023). A MOF-Based Potent Ferroptosis Inducer for Enhanced Radiotherapy of Triple Negative Breast Cancer. ACS Nano, 17. https://doi.org/10.1021/acsnano.3c00048

37. Zeng, W., Li, Z., Huang, Q., Ding, C., Yang, L., Wang, W., Shi, Z., Yang, Y., Chen, H., Mei, L., Zeng, X., Zeng, W., Li, Z., Huang, Q., Yang, L., Wang, W., Yang, Y., Chen, H., Zeng, X., … Mei, L. (2023). Multifunctional Mesoporous Polydopamine-Based Systematic Delivery of STING Agonist for Enhanced Synergistic Photothermal-Immunotherapy. Advanced Functional Materials, 2307241. https://doi.org/10.1002/ADFM.202307241

38. Zhang, M., Wu, T., Zhang, H., Chen, Z., Yang, Y., Ling, Y., & Zhou, Y. (2023). Mesoporous carbon hemispheres integrated with Fe–Gd nanoparticles for potential MR/PA imaging-guided photothermal therapy. Journal of Materials Chemistry B. https://doi.org/10.1039/D3TB02073H

39. Zhou, K., Tan, Y., Zhang, G., Li, J., Xing, S., Chen, X., Wen, J., Li, G., Fan, Y., Zeng, J., & Zhang, J. (2023). Loss of SARM1 ameliorates secondary thalamic neurodegeneration after cerebral infarction. Journal of Cerebral Blood Flow and Metabolism, 44(2). https://doi.org/10.1177/0271678X231210694

40. Admane, P., Ghaghada, K. B., Devkota, L., Sarkar, P., Badachhape, A., Bhandari, P., Annapragada, A., & Starosolski, Z. (2022). Multimodal imaging compatible micro-physiological system. Bioprinting, e00249. https://doi.org/10.1016/J.BPRINT.2022.E00249

41. Bondeva, T., & Wolf, G. (2022). Cloning of the Human MORG1 Promoter: Differential Regulation by Hypoxia and Prolyl-Hydroxylase Inhibitors. Genes, 13(3), 427. https://doi.org/10.3390/genes13030427

42. Cao, C., Cao, C., Cao, C., Xiao, A., Xiao, A., Xiao, A., Cai, M., Cai, M., Shen, B., Shen, B., Guo, L., Guo, L., Shi, X., Shi, X., Tian, J., Tian, J., Tian, J., Tian, J., Tian, J., … Hu, Z. (2022). Excitation-based fully connected network for precise NIR-II fluorescence molecular tomography. Biomedical Optics Express, Vol. 13, Issue 12, Pp. 6284-6299, 13(12), 6284–6299. https://doi.org/10.1364/BOE.474982

43. Chung, H., Park, J. Y., Kim, K., Yoo, R. J., Suh, M., Gu, G. J., Kim, J. S., Choi, T. H., Byun, J. W., Ju, Y. W., Han, W., Ryu, H. S., Chung, G., Hwang, D. W., Kim, Y., Kang, H.-R., Na, Y. R., Choi, H., Im, H.-J., … Seok, S. H. (2022). Circulation Time-Optimized Albumin Nanoplatform for Quantitative Visualization of Lung Metastasis via Targeting of Macrophages. ACS Nano, 16(8), 12262–12275. https://doi.org/10.1021/ACSNANO.2C03075

44. Galante, A., Marino, A., Bianchi, S., Leonardi, M., Zambonelli, A., Iotti, M., & Alecci, M. (2022). Quantitative magnetic resonance imaging technology as an effective tool for monitoring post-harvest decay of Tuber aestivum ascomata. Postharvest Biology and Technology, 194, 112069. https://doi.org/10.1016/J.POSTHARVBIO.2022.112069

45. 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

46. Kiseleva, M., Omar, M. M., Boisselier, É., Selivanova, S. V., & Fortin, M.-A. (2022). A Three-Dimensional Printable Hydrogel Formulation for the Local Delivery of Therapeutic Nanoparticles to Cervical Cancer. ACS Biomaterials Science & Engineering, acsbiomaterials.1c01399. https://doi.org/10.1021/acsbiomaterials.1c01399

47. Mączyńska, J., Raes, F., Da Pieve, C., Turnock, S., Boult, J. K. R., Hoebart, J., Niedbala, M., Robinson, S. P., Harrington, K. J., Kaspera, W., & Kramer-Marek, G. (2022). Triggering anti-GBM immune response with EGFR-mediated photoimmunotherapy. BMC Medicine, 20(1), 16. https://doi.org/10.1186/s12916-021-02213-z

48. Nijhuis, A., Sikka, A., Yogev, O., Herendi, L., Balcells, C., Ma, Y., Poon, E., Eckold, C., Valbuena, G. N., Xu, Y., Liu, Y., da Costa, B. M., Gruet, M., Wickremesinghe, C., Benito, A., Kramer, H., Montoya, A., Carling, D., Want, E. J., … Keun, H. C. (2022). Indisulam targets RNA splicing and metabolism to serve as a therapeutic strategy for high-risk neuroblastoma. Nature Communications, 13(1), 1380. https://doi.org/10.1038/s41467-022-28907-3

49. Parekh, P., Mu, Q., Badachhape, A., Bhavane, R., Srivastava, M., Devkota, L., Sun, X., Bhandari, P., Eriksen, J. L., Tanifum, E., Ghaghada, K., & Annapragada, A. (2022). A surrogate marker for very early-stage tau pathology is detectable by molecular magnetic resonance imaging. Theranostics, 12(13), 5504–5521. https://doi.org/10.7150/thno.72258

50. 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

51. 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).

52. 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

53. Bin Nun, A., Kasirer, Y., Abu Ata, N., Rosenbaum, D., Cytter-Kuint, R., Hammerman, C., & Ben David, E. (2021). Detection of Global Brain Injury in Premature Neonates Using Novel Point of Care Neonatal MRI Scanner. Neuropediatrics. https://doi.org/10.1055/A-1926-2238/ID/JR1120213077OA-20

54. Chan, H. H. L., Haerle, S. K., Daly, M. J., Zheng, J., Philp, L., Ferrari, M., Douglas, C. M., & Irish, J. C. (2021). An integrated augmented reality surgical navigation platform using multi-modality imaging for guidance. PLoS ONE, 16(4 April), 1–14. https://doi.org/10.1371/journal.pone.0250558

55. Deng, H., Liu, J., Zhang, H., Li, C., Liu, Z., & Chen, D. (2021). Dual-color fluorescence imaging and magnetic resonance imaging of Gd2O3:Dy3+ nanoparticles synthesized by laser ablation in water. Journal of Materials Science: Materials in Electronics, 32(11), 14932–14943. https://doi.org/10.1007/s10854-021-06045-8

56. Dubiella, C., Pinch, B. J., Koikawa, K., Zaidman, D., Poon, E., Manz, T. D., Nabet, B., He, S., Resnick, E., Rogel, A., Langer, E. M., Daniel, C. J., Seo, H. S., Chen, Y., Adelmant, G., Sharifzadeh, S., Ficarro, S. B., Jamin, Y., Martins da Costa, B., … London, N. (2021). Sulfopin is a covalent inhibitor of Pin1 that blocks Myc-driven tumors in vivo. Nature Chemical Biology. https://doi.org/10.1038/s41589-021-00786-7

57. Hang, X. I. Z., Ai, M. E. C., Uo, L. I. G., Eyu, Z., Hang, Z., Hen, B. I. S., Hang, X. I. Z., Henhua, Z. H. U., & Ian, J. I. E. T. (2021). Attention mechanism-based locally connected network for accurate and stable reconstruction in Cerenkov luminescence tomography. 12(12), 7703–7716.

58. Kannan, S., Harel, Y., Israel, L. L., Lellouche, E., Varvak, A., Tsubery, M. N., Lellouche, J.-P., & Michaeli, S. (2021). Novel Nanocarrier Platform for Effective Treatment of Visceral Leishmaniasis. Bioconjugate Chemistry, 32(11), 2327–2341. https://doi.org/10.1021/acs.bioconjchem.1c00381

59. 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

60. Lin, F., Shao, Y., Wu, Y., & Zhang, Y. (2021). NIR Light-Propelled Janus-Based Nanoplatform for Cytosolic-Fueled microRNA Imaging. ACS Applied Materials and Interfaces, 13(3), 3713–3721. https://doi.org/10.1021/acsami.0c21071

61. Roeschert, I., Poon, E., Henssen, A. G., Dorado Garcia, H., Gatti, M., Giansanti, C., Jamin, Y., Ade, C. P., Gallant, P., Schülein-Völk, C., Beli, P., Richards, M., Rosenfeldt, M., Altmeyer, M., Anderson, J., Eggert, A., Dobbelstein, M., Bayliss, R., Chesler, L., … Eilers, M. (2021). Combined inhibition of Aurora-A and ATR kinases results in regression of MYCN-amplified neuroblastoma. Nature Cancer, 2(3), 312–326. https://doi.org/10.1038/s43018-020-00171-8

62. 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

63. Zhu, S., Tong, G., Xiang, J. ping, Qiu, S., Yao, Z., Zhou, X., & Lin, L. jun. (2021). Microstructure Analysis and Reconstruction of a Meniscus. Orthopaedic Surgery, 13(1), 306–313. https://doi.org/10.1111/os.12899

64. 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

65. 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

66. Garello, F., Gündüz, S., Vibhute, S., Angelovski, G., & Terreno, E. (2020). Dendrimeric calcium-sensitive MRI probes: The first low-field relaxometric study. Journal of Materials Chemistry B. https://doi.org/10.1039/c9tb02600b

67. Guo, L., Zhang, Y., Wei, R., Zhang, X., Wang, C., & Feng, M. (2020). Proinflammatory macrophage-derived microvesicles exhibit tumor tropism dependent on CCL2/CCR2 signaling axis and promote drug delivery via SNARE-mediated membrane fusion. Theranostics, 10(15), 6581–6598. https://doi.org/10.7150/thno.45528

68. Hu, J., Wu, W., Qin, Y., Liu, C., Wei, P., Hu, J., Seeberger, P. H., & Yin, J. (2020). Fabrication of Glyco-Metal-Organic Frameworks for Targeted Interventional Photodynamic/Chemotherapy for Hepatocellular Carcinoma through Percutaneous Transperitoneal Puncture. Advanced Functional Materials, 1910084. https://doi.org/10.1002/adfm.201910084

69. Huang, W., Wang, K., An, Y., Meng, H., Gao, Y., Xiong, Z., Yan, H., Wang, Q., Cai, X., Yang, X., Zhang, B., Chen, Q., Yang, X., Tian, J., & Zhang, S. (2020). In vivo three-dimensional evaluation of tumour hypoxia in nasopharyngeal carcinomas using FMT-CT and MSOT. European Journal of Nuclear Medicine and Molecular Imaging, 47(5), 1027–1038. https://doi.org/10.1007/s00259-019-04526-x

70. 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

71. Kong, L., An, Y., Liang, Q., Yin, L., Du, Y., & Tian, J. (2020). Reconstruction for Fluorescence Molecular Tomography via Adaptive Group Orthogonal Matching Pursuit. IEEE Transactions on Biomedical Engineering, 67(9), 2518–2529. https://doi.org/10.1109/TBME.2019.2963815

72. Leskovec, M., Lundell, F., & Innings, F. (2020). Pipe flow with large particles and their impact on the transition to turbulence. Physical Review Fluids, 5(11), 112301. https://doi.org/10.1103/PhysRevFluids.5.112301

73. Luo, X. L., Lin, L., Hu, H., Hu, F. L., Lin, Y., Luo, M. L., Wang, L., & He, Y. Q. (2020). Development and characterization of mammary intraductal (MIND) spontaneous metastasis models for triple-negative breast cancer in syngeneic mice. Scientific Reports. https://doi.org/10.1038/s41598-020-61679-8

74. Luo, X., Zhang, J., Wu, Y. P., Yang, X., Kuang, X. P., Li, W. X., Li, Y. F., He, R. R., & Liu, M. (2020). Multifunctional HNT@Fe3O4@PPy@DOX Nanoplatform for Effective Chemo-Photothermal Combination Therapy of Breast Cancer with MR Imaging. ACS Biomaterials Science and Engineering, 6(6), 3361–3374. https://doi.org/10.1021/acsbiomaterials.9b01709

75. Scholze, H., Stephenson, R. E., Reynolds, R., Shah, S., Puri, R., Butler, S. D., Trujillo-Alonso, V., Teater, M. R., van Besien, H., Gibbs-Curtis, D., Ueno, H., Parvin, S., Letai, A., Mathew, S., Singh, A., Cesarman, E., Melnick, A., & Giulino-Roth, L. (2020). Combined EZH2 and Bcl-2 inhibitors as precision therapy for genetically defined DLBCL subtypes. Blood Advances, 4(20), 5226–5231. https://doi.org/10.1182/BLOODADVANCES.2020002580

76. 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

77. Swissa, E., Bar-Klein, G., Serlin, Y., Weissberg, I., Kamintsky, L., Eisenkraft, A., Statlender, L., Shrot, S., Rosman, Y., Prager, O., & Friedman, A. (2020). Midazolam and isoflurane combination reduces late brain damage in the paraoxon-induced status epilepticus rat model. NeuroToxicology. https://doi.org/10.1016/j.neuro.2020.02.007

78. Wald, L. L., McDaniel, P. C., Witzel, T., Stockmann, J. P., & Cooley, C. Z. (2020). Low-cost and portable MRI. Journal of Magnetic Resonance Imaging, 52(3), 686–696. https://doi.org/10.1002/jmri.26942

79. You, H., Shang, W., Min, X., Weinreb, J., Li, Q., Leapman, M., Wang, L., & Tian, J. (2020). Sight and switch off: Nerve density visualization for interventions targeting nerves in prostate cancer. Science Advances. https://doi.org/10.1126/sciadv.aax6040

80. Badachhape, A. A., Devkota, L., Stupin, I. V, Sarkar, P., Srivastava, M., Tanifum, E. A., Fox, K. A., Yallampalli, C., Annapragada, A. V, & Ghaghada, K. B. (2019). Nanoparticle Contrast-enhanced T1-Mapping Enables Estimation of Placental Fractional Blood Volume in a Pregnant Mouse Model. Scientific Reports, 9(1), 1–9. https://doi.org/10.1038/s41598-019-55019-8

81. Badachhape, A. A., Kumar, A., Ghaghada, K. B., Stupin, I. V, Srivastava, M., Devkota, L., Starosolski, Z., Tanifum, E. A., George, V., Fox, K. A., Yallampalli, C., & Annapragada, A. V. (2019). Pre-clinical magnetic resonance imaging of retroplacental clear space throughout gestation. Placenta, 77, 1–7. https://doi.org/10.1016/j.placenta.2019.01.017

82. Daneshgaran, G., Lo, A. Y., Paik, C. B., Cooper, M. N., Sung, C., Jiao, W., Park, S. Y., Ni, P., Yu, R. P., Vorobyova, I., Jashashvili, T., Hong, Y.-K., Kim, G. H., Conti, P. S., Chai, Y., & Wong, A. K. (2019). A Pre-clinical Animal Model of Secondary Head and Neck Lymphedema. Scientific Reports, 9(1), 18264. https://doi.org/10.1038/s41598-019-54201-2

83. Deng, H., Shang, W., Lu, G., Guo, P., Ai, T., Fang, C., & Tian, J. (2019). Targeted and Multifunctional Technology for Identification between Hepatocellular Carcinoma and Liver Cirrhosis. ACS Applied Materials and Interfaces, 11(16), 14526–14537. https://doi.org/10.1021/acsami.8b20600

84. Elovic, E., Etzion, S., & Cohen, S. (2019). MiR-499 Responsive Lethal Construct for Removal of Human Embryonic Stem Cells after Cardiac Differentiation. Scientific Reports, 9(1), 14490. https://doi.org/10.1038/s41598-019-50899-2

85. Garbuzenko, O. B., Kuzmov, A., Taratula, O., Pine, S. R., & Minko, T. (2019). Strategy to enhance lung cancer treatment by five essential elements: Inhalation delivery, nanotechnology, tumor-receptor targeting, chemo- and gene therapy. Theranostics. https://doi.org/10.7150/thno.39816

86. Hu, M., Wang, K., Shang, W., Han, Z., Jiang, H., Fang, C., & Tian, J. (2019). Boosting Postsurgical Outcomes of Orthotopic Hepatocellular Carcinoma via an EpCAM-Targeting Theranostic Nanoparticle. Particle & Particle Systems Characterization, 1900085, 1900085. https://doi.org/10.1002/ppsc.201900085

87. 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., Defrêne, 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

88. Jiang, S., Liu, J., Zhang, G., An, Y., Meng, H., Gao, Y., Wang, K., & Tian, J. (2019). Reconstruction of Fluorescence Molecular Tomography via a Fused LASSO Method Based on Group Sparsity Prior. IEEE Transactions on Biomedical Engineering, 66(5), 1361–1371. https://doi.org/10.1109/TBME.2018.2872913

89. Jin, Y., Li, Y., Yang, X., & Tian, J. (2019). Neuroblastoma-targeting triangular gadolinium oxide nanoplates for precise excision of cancer. Acta Biomaterialia, 87, 223–234. https://doi.org/10.1016/j.actbio.2019.01.042

90. Kolbe, I., Leinweber, B., Brandenburger, M., & Oster, H. (2019). Circadian clock network desynchrony promotes weight gain and alters glucose homeostasis in mice. Molecular Metabolism, 30(October), 140–151. https://doi.org/10.1016/j.molmet.2019.09.012

91. Li, T., Hui, H., Hu, C., Ma, H., Yang, X., & Tian, J. (2019). Multiscale imaging of colitis in mice using confocal laser endomicroscopy, light-sheet fluorescence microscopy, and magnetic resonance imaging. Journal of Biomedical Optics, 24(01), 1. https://doi.org/10.1117/1.jbo.24.1.016003

92. Taschauer, A., Polzer, W., Alioglu, F., Billerhart, M., Decker, S., Kittelmann, T., Geppl, E., Elmenofi, S., Zehl, M., Urban, E., Sami, H., & Ogris, M. (2019). Peptide-Targeted Polyplexes for Aerosol-Mediated Gene Delivery to CD49f-Overexpressing Tumor Lesions in Lung. Molecular Therapy - Nucleic Acids, 18(December), 774–786. https://doi.org/10.1016/j.omtn.2019.10.009

93. Thau-Zuchman, O., Ingram, R., Harvey, G. G., Cooke, T., Palmas, F., Pallier, P. N., Brook, J., Priestley, J. V, Dalli, J., Lopez-Tremoleda, J., & Michael-Titus, A. T. (2019). 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. Journal of Neurotrauma, 44(0), neu.2019.6420. https://doi.org/10.1089/neu.2019.6420

94. Yao, Z., Yan, L., Qiu, S., He, F., Gu, F., Liu, X., Qi, J., & Zhu, Q. (2019). Customized Scaffold Design Based on Natural Peripheral Nerve Fascicle Characteristics for Biofabrication in Tissue Regeneration. BioMed Research International, 2019, 1–10.

95. Yin, J., Zhang, Y., Ma, D., Yang, R., Xu, F., Wu, H., He, C., Liu, L., Dong, J., & Shao, Y. (2019). Nanoassembly and Multiscale Computation of Multifunctional Optical-Magnetic Nanoprobes for Tumor-Targeted Theranostics. ACS Applied Materials and Interfaces. https://doi.org/10.1021/acsami.9b14668

96. Zhang, Z., Cai, M., Gao, Y., Shi, X., Zhang, X., & Hu, Z. (2019). A novel Cerenkov luminescence tomography approach using multilayer fully connected neural network A novel Cerenkov luminescence tomography approach using multilayer fully connected neural network. Physics in Medicine and Biology, 64.

97. Hoon Baek, S., Nim Shin, M., & Min Kim, S. (2018). Optimization of MRI Parameters for Green Coffee Bean During Water Uptaking Process. Journal of the Korean Society of Agricultural Machinery. https://kiss.kstudy.com/Detail/Ar?key=3639567

98. Ma, X., Jin, Y., Wang, Y., Zhang, S., Peng, D., Yang, X., Wei, S., Chai, W., Li, X., & Tian, J. (2018). Multimodality Molecular Imaging-Guided Tumor Border Delineation and Photothermal Therapy Analysis Based on Graphene Oxide-Conjugated Gold Nanoparticles Chelated with Gd. Contrast Media and Molecular Imaging, 2018. https://doi.org/10.1155/2018/9321862

99. Yao, Z., Yan, L. W., Wang, T., Qiu, S., Lin, T., He, F. L., Yuan, R. H., Liu, X. L., Qi, J., & Zhu, Q. T. (2018). A rapid micro-magnetic resonance imaging scanning for three-dimensional reconstruction of peripheral nerve fascicles. Neural Regeneration Research, 13(11), 1953–1960. https://doi.org/10.4103/1673-5374.238718

100. Zhang, Y., Xiao, X. P., Shu, T., Cai, J., Xiao, X. L., Li, Y. S., Zhang, Z. W., & Tang, Q. (2018). 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, 29(22). https://doi.org/10.1088/1361-6528/aab5fe

101. Geyer, A., Taschauer, A., Alioglu, F., Anton, M., Maier, J., Drothler, E., Simlinger, M., Yavuz, S., Sami, H., & Ogris, M. (2017). Multimodal Fluorescence and Bioluminescence Imaging Reveals Transfection Potential of Intratracheally Administered Polyplexes for Breast Cancer Lung Metastases. Human Gene Therapy, 28(12), 1202–1213. https://doi.org/10.1089/hum.2017.137

102. Han, Z., Wu, X., Roelle, S., Chen, C., Schiemann, W. P., & Lu, Z. R. (2017). Targeted gadofullerene for sensitive magnetic resonance imaging and risk-stratification of breast cancer. Nature Communications. https://doi.org/10.1038/s41467-017-00741-y

103. 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

104. Li, Y., Han, Z., Roelle, S., DeSanto, A., Sabatelle, R., Schur, R., & Lu, Z. R. (2017). Synthesis and Assessment of Peptide Gd-DOTA Conjugates Targeting Extradomain B Fibronectin for Magnetic Resonance Molecular Imaging of Prostate Cancer. Molecular Pharmaceutics, 14(11), 3906–3915. https://doi.org/10.1021/acs.molpharmaceut.7b00619

105. Liu, M., Guo, H., Liu, H., Zhang, Z., Chi, C., Hui, H., Dong, D., Hu, Z., & Tian, J. (2017). In vivo pentamodal tomographic imaging for small animals. Biomedical Optics Express, 8(3), 1356. https://doi.org/10.1364/boe.8.001356

106. Peng, L., Kabirov, I. R., Pavlov, V. N., & Guo, P. (2017). INTRAOPERATIVE NEAR-INFRARED IMAGING FOR PRECISE RESECTION OF BLADDER CANCER BY AVB3 TARGETING FLUORESCENT AGENT. 5(71), 82–89.

107. Qiao, H., Wang, Y., Zhang, R., Gao, Q., Liang, X., Gao, L., Jiang, Z., Qiao, R., Han, D., Zhang, Y., Qiu, Y., Tian, J., Gao, M., & Cao, F. (2017). MRI/optical dual-modality imaging of vulnerable atherosclerotic plaque with an osteopontin-targeted probe based on Fe3O4 nanoparticles. Biomaterials, 112, 336–345. https://doi.org/10.1016/j.biomaterials.2016.10.011

108. Shaltiel-Karyo, R., Tsarfati, Y., Rubinski, A., Zawoznik, E., Weinstock, I., Nemas, M., Schiffenbauer, Y. S., Ramot, Y., Nyska, A., & Yacoby-Zeevi, O. (2017). Magnetic Resonance Imaging as a Noninvasive Method for Longitudinal Monitoring of Infusion Site Reactions Following Administration of a Novel Apomorphine Formulation. Toxicologic Pathology. https://doi.org/10.1177/0192623317706111

109. Zur, N., Shlizerman, L., Ben-Ari, G., & Sadka, A. (2017). Use of Magnetic Resonance Imaging (MRI) to Study and Predict Fruit Splitting in Citrus. The Horticulture Journal. https://doi.org/10.2503/hortj.MI-147

110. Fuchs, A. (2016). Generation and application of polyethylenimine based nanoparticulate systems for topical nucleic acid delivery to lung.

111. Tata, A., Gribble, A., Ventura, M., Ganguly, M., Bluemke, E., Ginsberg, H. J., Jaffray, D. A., Ifa, D. R., Vitkin, A., & Zarrine-Afsar, A. (2016). Wide-field tissue polarimetry allows efficient localized mass spectrometry imaging of biological tissues. Chemical Science, 7(3), 2162–2169. https://doi.org/10.1039/c5sc03782d

112. Yi, Z., Li, X., Lu, W., Liu, H., Zeng, S., & Hao, J. (2016). Hybrid lanthanide nanoparticles as a new class of binary contrast agents for in vivo T1/T2 dual-weighted MRI and synergistic tumor diagnosis. Journal of Materials Chemistry B, 4(15), 2715–2722. https://doi.org/10.1039/c5tb02375k

113. Proulx, M., Aubin, K., Lagueux, J., Audet, P., Auger, M., Fortin, M. A., & Fradette, J. (2015). Magnetic Resonance Imaging of Human Tissue-Engineered Adipose Substitutes. Tissue Engineering - Part C: Methods, 21(7), 693–704. https://doi.org/10.1089/ten.tec.2014.0409

114. Taketa, Y., Shiotani, M., Tsuru, Y., Kotani, S., Osada, Y., Fukushima, T., Inomata, A., & Hosokawa, S. (2015). Application of a compact magnetic resonance imaging system for toxicologic pathology: Evaluation of lithium-pilocarpine-induced rat brain lesions. Journal of Toxicologic Pathology, 28(4), 217–224. https://doi.org/10.1293/tox.2015-0043

115. Tempel-Brami, C., Schiffenbauer, Y. S., Nyska, A., Ezov, N., Spector, I., Abramovitch, R., & Maronpot, R. R. (2015). Practical Applications of in Vivo and ex Vivo MRI in Toxicologic Pathology Using a Novel High-performance Compact MRI System. Toxicologic Pathology, 43(5), 633–650. https://doi.org/10.1177/0192623314568390

116. Alberti D, Toppino A, Crich SG, Meraldi C, Prandi C, Protti N, Bortolussi S, Altieri S, Aime S, D. A. (2014). Synthesis of a carborane-containing Cholesterol Derivative and Evaluation as Potential Dual Agent for MRI/BNCT Applications. Chemistry International -- Newsmagazine for IUPAC, 26(6). https://doi.org/10.1515/ci.2004.26.6.31

117. Ansari, C., Tikhomirov, G. A., Hong, S. H., Falconer, R. A., Loadman, P. M., Gill, J. H., Castaneda, R., Hazard, F. K., Tong, L., Lenkov, O. D., Felsher, D. W., Rao, J., & Daldrup-Link, H. E. (2014). Development of novel tumor-targeted theranostic nanoparticles activated by membrane-type matrix metalloproteinases for combined

cancer magnetic resonance imaging and therapy. Small, 10(3), 566–575. https://doi.org/10.1002/smll.201301456

118. Chan, N., Laprise-Pelletier, M., Chevallier, P., Bianchi, A., Fortin, M. A., & Oh, J. K. (2014). Multidentate block-copolymer-stabilized ultrasmall superparamagnetic iron oxide nanoparticles with enhanced colloidal stability for magnetic resonance imaging. Biomacromolecules, 15(6), 2146–2156. https://doi.org/10.1021/bm500311k

119. Dou, Y. N., Zheng, J., Foltz, W. D., Weersink, R., Chaudary, N., Jaffray, D. A., & Allen, C. (2014). Heat-activated thermosensitive liposomal cisplatin (HTLC) results in effective growth delay of cervical carcinoma in mice. Journal of Controlled Release, 178(1), 69–78. https://doi.org/10.1016/j.jconrel.2014.01.009

120. Filippi, M., Martinelli, J., Mulas, G., Ferraretto, M., Eline, T., Botta, M., Tei, L., & Terreno, E. (2014). Dendrimersomes: A new vesicular nano-platform for MR-molecular imaging applications. Chemical Communications, 50(26), 3453–3456. https://doi.org/10.1039/c3cc49584a

121. González-Billalabeitia, E., Seitzer, N., Song, S. J., Song, M. S., Patnaik, A., Liu, X. S., Epping, M. T., Papa, A., Hobbs, R. M., Chen, M., Lunardi, A., Ng, C., Webster, K. A., Signoretti, S., Loda, M., Asara, J. M., Nardella, C., Clohessy, J. G., Cantley, L. C., & Pandolfi, P. P. (2014). Vulnerabilities of PTEN-TP53-deficient prostate cancers to compound PARP-PI3K inhibition. Cancer Discovery, 4(8), 896–904. https://doi.org/10.1158/2159-8290.CD-13-0230

122. Mariano, R. N., Alberti, D., Cutrin, J. C., Crich, S. G., & Aime, S. (2014). Design of PLGA based nanoparticles for imaging guided applications. Molecular Pharmaceutics, 11(11), 4100–4106. https://doi.org/10.1021/mp5002747

123. Mori, M. A., Thomou, T., Boucher, J., Lee, K. Y., Lallukka, S., Kim, J. K., Torriani, M., Yki-Järvinen, H., Grinspoon, S. K., Cypess, A. M., & Kahn, C. R. (2014). Altered miRNA processing disrupts brown/white adipocyte determination and associates with lipodystrophy. Journal of Clinical Investigation, 124(8), 3339–3351. https://doi.org/10.1172/JCI73468

124. Nyska, A., Schiffenbauer, Y. S., Brami, C. T., Maronpot, R. R., & Ramot, Y. (2014). Histopathology of biodegradable polymers: Challenges in interpretation and the use of a novel compact MRI for biocompatibility evaluation. Polymers for Advanced Technologies, 25(5), 461–467. https://doi.org/10.1002/pat.3238

125. Perino, A., Beretta, M., Kilić, A., Ghigo, A., Carnevale, D., Repetto, I. E., Braccini, L., Longo, D., Liebig-Gonglach, M., Zaglia, T., Iacobucci, R., Mongillo, M., Wetzker, R., Bauer, M., Aime, S., Vercelli, A., Lembo, G., Pfeifer, A., & Hirsch, E. (2014). Combined inhibition of PI3Kβ and PI3Kγ reduces fat mass by enhancing α-MSH-dependent sympathetic drive. Science Signaling, 7(352), 1–13. https://doi.org/10.1126/scisignal.2005485

126. Savla, R., Garbuzenko, O. B., Chen, S., Rodriguez-Rodriguez, L., & Minko, T. (2014). Tumor-targeted responsive nanoparticle-based systems for magnetic resonance imaging and therapy. Pharmaceutical Research, 31(12), 3487–3502. https://doi.org/10.1007/s11095-014-1436-x

127. Tarasiuk, A., Levi, A., Berdugo-Boura, N., Yahalom, A., & Segev, Y. (2014). Role of orexin in respiratory and sleep homeostasis during upper Airway obstruction in Rats. Sleep, 37(5). https://doi.org/10.5665/sleep.3676

128. Accardo, A., Gianolio, E., Arena, F., Barnert, S., Schubert, R., Tesauro, D., & Morelli, G. (2013). Nanostructures based on monoolein or diolein and amphiphilic gadolinium complexes as MRI contrast agents. Journal of Materials Chemistry B, 1(5), 617–628. https://doi.org/10.1039/c2tb00329e

129. Bandini, S., Curcio, C., Macagno, M., Quaglino, E., Arigoni, M., Lanzardo, S., Hysi, A., Barutello, G., Consolino, L., Longo, D. L., Musiani, P., Forni, G., Iezzi, M., & Cavallo, F. (2013). Early onset and enhanced growth of autochthonous mammary carcinomas in C3-deficient Her2/neu transgenic mice. OncoImmunology, 2(9). https://doi.org/10.4161/onci.26137

130. Cho, H., Alcantara, D., Yuan, H., Sheth, R. A., Chen, H. H., Huang, P., Andersson, S. B., Sosnovik, D. E., Mahmood, U., & Josephson, L. (2013). Fluorochrome-functionalized nanoparticles for imaging DNA in biological systems. ACS Nano, 7(3), 2032–2041. https://doi.org/10.1021/nn305962n

131. Figueiredo, S., Cutrin, J. C., Rizzitelli, S., De Luca, E., Moreira, J. N., Geraldes, C. F. G. C., Aime, S., & Terreno, E. (2013). MRI Tracking of Macrophages Labeled with Glucan Particles Entrapping a Water Insoluble Paramagnetic Gd-Based Agent. Molecular Imaging and Biology, 15(3), 307–315. https://doi.org/10.1007/s11307-012-0603-x

132. Guillet-Nicolas, R., Laprise-Pelletier, M., Nair, M. M., Chevallier, P., Lagueux, J., Gossuin, Y., Laurent, S., Kleitz, F., & Fortin, M. A. (2013). Manganese-impregnated mesoporous silica nanoparticles for signal enhancement in MRI cell labelling studies. Nanoscale, 5(23), 11499–11511. https://doi.org/10.1039/c3nr02969g

133. Jokerst, J. V., Khademi, C., & Gambhir, S. S. (2013). Intracellular aggregation of multimodal silica nanoparticles for ultrasound-guided stem cell implantation. Science Translational Medicine, 5(177), 1–10. https://doi.org/10.1126/scitranslmed.3005228

134. Kosuge, H., Uchida, M., Lucon, J., Qazi, S., Douglas, T., & McConnell, M. V. (2013). High-Gd-Payload P22 protein cage nanoparticles for imaging vascular inflammation. Journal of Cardiovascular Magnetic Resonance, 15(S1), 2–4. https://doi.org/10.1186/1532-429x-15-s1-o66

135. Lunardi, A., Ala, U., Epping, M. T., Salmena, L., Clohessy, J. G., Webster, K. A., Wang, G., Mazzucchelli, R., Bianconi, M., Stack, E. C., Lis, R., Patnaik, A., Cantley, L. C., Bubley, G., Cordon-Cardo, C., Gerald, W. L., Montironi, R., Signoretti, S., Loda, M., … Pandolfi, P. P. (2013). A co-clinical approach identifies mechanisms and potential therapies for androgen deprivation resistance in prostate cancer. Nature Genetics, 45(7), 747–755. https://doi.org/10.1038/ng.2650

136. Mi, P., Cabral, H., Kokuryo, D., Rafi, M., Terada, Y., Aoki, I., Saga, T., Takehiko, I., Nishiyama, N., & Kataoka, K. (2013). Gd-DTPA-loaded polymer-metal complex micelles with high relaxivity for MR cancer imaging. Biomaterials, 34(2), 492–500. https://doi.org/10.1016/j.biomaterials.2012.09.030

137. Naccache, R., Chevallier, P., Lagueux, J., Gossuin, Y., Laurent, S., Vander Elst, L., Chilian, C., Capobianco, J. A., & Fortin, M. A. (2013). High relaxivities and strong vascular signal enhancement for NaGdF4 nanoparticles

designed for dual MR/optical imaging. Advanced Healthcare Materials, 2(11), 1478–1488. https://doi.org/10.1002/adhm.201300060

138. Napolitano, R., Pariani, G., Fedeli, F., Baranyai, Z., Aswendt, M., Aime, S., & Gianolio, E. (2013). Synthesis and relaxometric characterization of a MRI Gd-based probe responsive to glutamic acid decarboxylase enzymatic activity. Journal of Medicinal Chemistry, 56(6), 2466–2477. https://doi.org/10.1021/jm301831f

139. Scheven, U. M. (2013). Pore-scale mixing and transverse dispersivity of randomly packed monodisperse spheres. Physical Review Letters, 110(21), 2–6. https://doi.org/10.1103/PhysRevLett.110.214504

140. Taratula, O., Kuzmov, A., Shah, M., Garbuzenko, O. B., & Minko, T. (2013). Nanostructured lipid carriers as multifunctional nanomedicine platform for pulmonary co-delivery of anticancer drugs and siRNA. Journal of Controlled Release, 171(3), 349–357. https://doi.org/10.1016/j.jconrel.2013.04.018

141. Toppino, A., Bova, M. E., Crich, S. G., Alberti, D., Diana, E., Barge, A., Aime, S., Venturello, P., & Deagostino, A. (2013). A carborane-derivative “click” reaction under heterogeneous conditions for the synthesis of a promising lipophilic MRI/GdBNCT agent. Chemistry - A European Journal, 19(2), 721–728. https://doi.org/10.1002/chem.201201634

142. Tozzi, E. J., Lavenson, D. M., McCarthy, M. J., & Powell, R. L. (2013). Effect of fiber length, flow rate, and concentration on velocity profiles of cellulosic fiber suspensions. Acta Mechanica, 224(10), 2301–2310. https://doi.org/10.1007/s00707-013-0922-2

143. Zhang, L., & McCarthy, M. J. (2013). Assessment of pomegranate postharvest quality using nuclear magnetic resonance. Postharvest Biology and Technology, 77, 59–66. https://doi.org/10.1016/j.postharvbio.2012.11.006

144. Arigoni, M., Barutello, G., Lanzardo, S., Longo, D., Aime, S., Curcio, C., Iezzi, M., Zheng, Y., Barkefors, I., Holmgren, L., & Cavallo, F. (2012). A vaccine targeting angiomotin induces an antibody response which alters tumor vessel permeability and hampers the growth of established tumors. Angiogenesis, 15(2), 305–316. https://doi.org/10.1007/s10456-012-9263-3

145. Chan, M., Schopf, E., Sankaranarayanan, J., & Almutairi, A. (2012). Iron oxide nanoparticle-based magnetic resonance method to monitor release kinetics from polymeric particles with high resolution. Analytical Chemistry, 84(18), 7779–7784. https://doi.org/10.1021/ac301344d

146. Faucher, L., Tremblay, M., Lagueux, J., Gossuin, Y., & Fortin, M.-A. (2012). Rapid Synthesis of PEGylated Ultrasmall Gadolinium Oxide Nanoparticles for Cell Labeling and Tracking with MRI. ACS Applied Materials & Interfaces, 4(9), 4506–4515. https://doi.org/10.1021/am3006466

147. Gringeri, C. V., Menchise, V., Rizzitelli, S., Cittadino, E., Catanzaro, V., Dati, G., Chaabane, L., Digilio, G., & Aime, S. (2012). Novel Gd(III)-based probes for MR molecular imaging of matrix metalloproteinases. Contrast Media and Molecular Imaging, 7(2), 175–184. https://doi.org/10.1002/cmmi.478

148. Guay-Bégin, A. A., Chevallier, P., Faucher, L., Turgeon, S., & Fortin, M. A. (2012). Surface modification of gadolinium oxide thin films and nanoparticles using poly(ethylene glycol)-phosphate. Langmuir, 28(1), 774–782. https://doi.org/10.1021/la202780x

149. Létourneau, M., Tremblay, M., Faucher, L., Rojas, D., Chevallier, P., Gossuin, Y., Lagueux, J., & Fortin, M. A. (2012). MnO-labeled cells: Positive contrast enhancement in MRI. Journal of Physical Chemistry B, 116(44), 13228–13238. https://doi.org/10.1021/jp3032918

150. Maleky, F., Mccarthy, K. L., Mccarthy, M. J., & Marangoni, A. G. (2012). Effect of Cocoa Butter Structure on Oil Migration. Journal of Food Science, 77(3), 74–79. https://doi.org/10.1111/j.1750-3841.2011.02575.x

151. Schopf, E., Sankaranarayanan, J., Chan, M., Mattrey, R., & Almutairi, A. (2012). An Extracellular MRI Polymeric Contrast Agent That Degrades at Physiological pH. Molecular Pharmaceutics, 9(7), 1911–1918. https://doi.org/10.1021/mp2005998

152. Terreno, E., Uggeri, F., & Aime, S. (2012). Image guided therapy: The advent of theranostic agents. Journal of Controlled Release, 161(2), 328–337. https://doi.org/10.1016/j.jconrel.2012.05.028

153. Zhang, L., & McCarthy, M. J. (2012). Black heart characterization and detection in pomegranate using NMR relaxometry and MR imaging. Postharvest Biology and Technology, 67, 96–101. https://doi.org/10.1016/j.postharvbio.2011.12.018

154. Allan Johnson, G., Badea, A., & Jiang, Y. (2011). Quantitative Neuromorphometry Using Magnetic Resonance Histology. Toxicologic Pathology, 39(1), 85–91. https://doi.org/10.1177/0192623310389622

155. Altan, A., Oztop, M. H., McCarthy, K. L., & McCarthy, M. J. (2011). Monitoring changes in feta cheese during brining by magnetic resonance imaging and NMR relaxometry. Journal of Food Engineering, 107(2), 200–207. https://doi.org/10.1016/j.jfoodeng.2011.06.023

156. Arena, F., Singh, J. B., Gianolio, E., Stefanìa, R., & Aime, S. (2011). β-Gal gene expression MRI reporter in melanoma tumor cells. Design, synthesis, and in vitro and in vivo testing of a Gd(III) containing probe forming a high relaxivity, Melanin-like structure upon β-Gal enzymatic activation. Bioconjugate Chemistry, 22(12), 2625–2635. https://doi.org/10.1021/bc200486j

157. Daldrup-Link, H. E., Golovko, D., Ruffell, B., DeNardo, D. G., Castaneda, R., Ansari, C., Rao, J., Tikhomirov, G. A., Wendland, M. F., Corot, C., & Coussens, L. M. (2011). MRI of tumor-associated macrophages with clinically applicable iron oxide nanoparticles. Clinical Cancer Research, 17(17), 5695–5704. https://doi.org/10.1158/1078-0432.CCR-10-3420

158. Geninatti-Crich, S., Szabo, I., Alberti, D., Longo, D., & Aime, S. (2011). MRI of cells and mice at 1 and 7Tesla with Gd-targeting agents: When the low field is better! Contrast Media and Molecular Imaging, 6(6), 421–425. https://doi.org/10.1002/cmmi.436

159. Lavenson, D. M., Tozzi, E. J., Mccarthy, M. J., & Powell, R. L. (2011). Yield stress of pretreated corn stover suspensions using magnetic resonance imaging. Biotechnology and Bioengineering, 108(10), 2312–2319. https://doi.org/10.1002/bit.23197

160. Menchise, V., Digilio, G., Gianolio, E., Cittadino, E., Catanzaro, V., Carrera, C., & Aime, S. (2011). In vivo labeling of B16 melanoma tumor xenograft with a thiol-reactive gadolinium based MRI contrast agent. Molecular Pharmaceutics, 8(5), 1750–1756. https://doi.org/10.1021/mp2001044

161. Phillips, R. (2011). Vibration - induced features and characterization of Carbopol gels.

162. Bendel, P., & Schiffenbauer, Y. (2010). A method for fat suppression in MRI based on diffusion-weighted imaging. Physics in Medicine and Biology, 55(22). https://doi.org/10.1088/0031-9155/55/22/N03

163. Lavenson, D. M. (2010). Transport Phenomena and Rheology of Cellulosic Fiber Suspensions.