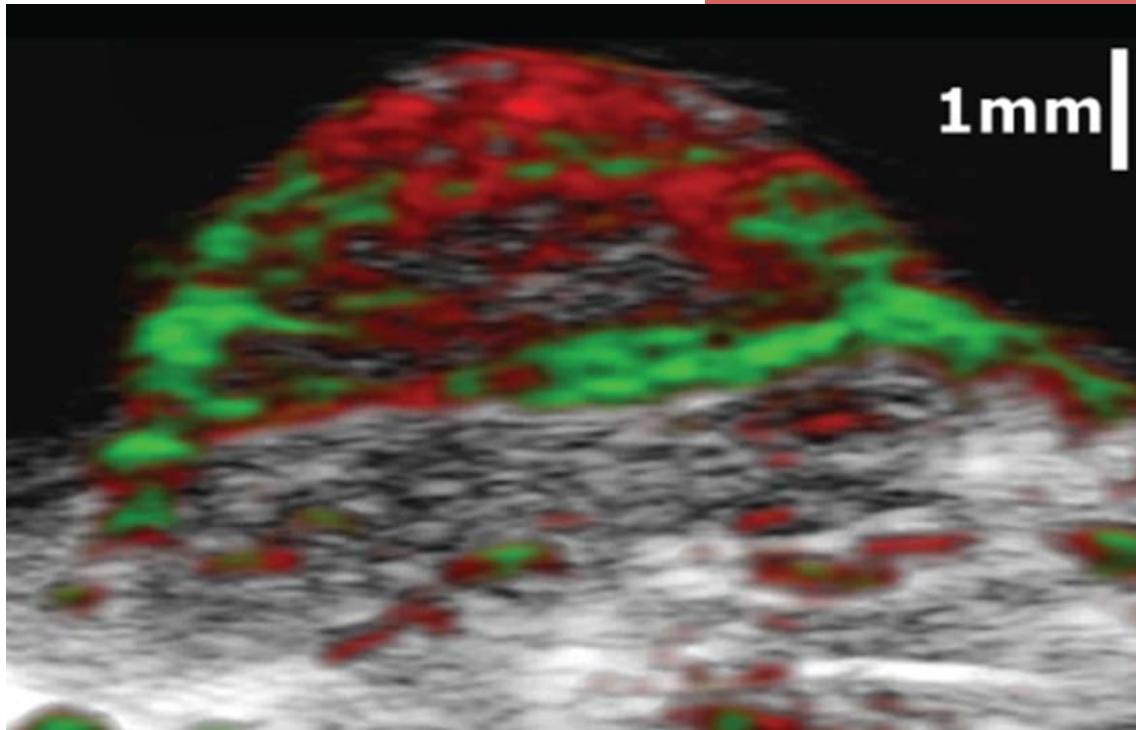


Bibliography



Molecular
Imaging

Bibliography – Molecular Imaging *in vivo*

Top Publications with the Vevo Imaging Solutions

Molecular Imaging of Clinical biomarkers

1. Lutz, A. M., Bachawal, S. V., Drescher, C. W., Pysz, M. a., Willmann, J. K., & Gambhir, S. S. (2014). [Ultrasound Molecular Imaging in a Human CD276 Expression-Modulated Murine Ovarian Cancer Model](#). Clinical Cancer Research : 20(5), 1313–22.
2. Br, A., Pysz, M. A., Foygel, K., & Rosenberg, J. (2010). [Antiangiogenic Cancer Therapy : Monitoring with Molecular US and a Clinically Translatable Contrast](#) : Radiology, 256(2).

Molecular Imaging of Experimental Biomarkers

Matrix Markers: Metalloproteases (MMP)

3. Zavadzkas, J. a, Mukherjee, R., Rivers, W. T., Patel, R. K., Meyer, E. C., Black, L. E., Spinale, F. G. (2011). [Direct regulation of membrane type 1 matrix metalloproteinase following myocardial infarction causes changes in survival, cardiac function, and remodeling](#). American Journal of Physiology. Heart and Circulatory Physiology, 301(4), H1656–66.
4. Levi, J., Kothapalli, S.-R., Bohndiek, S., Yoon, J.-K., Dragulescu-Andrasi, A., Nielsen, C., Gambhir, S. S. (2013). [Molecular photoacoustic imaging of follicular thyroid carcinoma](#). Clinical Cancer Research. 19(6), 1494–502.

Adhesion Markers: INTEGRINS/VCAM/ICAM-1

5. Wang, X., Hagemeyer, C. E., Hohmann, J. D., Leitner, E., Armstrong, P. C., Jia, F., ... Ahrens, I. (2012a). [Novel single-chain antibody-targeted microbubbles for molecular ultrasound imaging of thrombosis: validation of a unique noninvasive method for rapid and sensitive detection of thrombi and monitoring of success or failure of thrombolysis in mice](#). Circulation, 125(25), 3117–26.
6. Willmann, J., Lutz, A., Paulmurugan, R., Patel, M., Chu P., Rosenberg, J., Gambhir, S. (2008). [Dual-targeted Contrast Agent for US Assessment of Tumor angiogenesis in vivo](#). Radiology, 248(3), 936–944.
7. Willmann, J. K., Kimura, R. H., Deshpande, N., Lutz, A. M., Cochran, J. R., & Gambhir, S. S. (2010). [Targeted contrast-enhanced ultrasound imaging of tumor angiogenesis with contrast microbubbles conjugated to integrin-binding knottin peptides](#). Journal of Nuclear Medicine : Official Publication, Society of Nuclear Medicine, 51(3), 433–40.
8. Rouleau, L., Berti, R., Ng, V. W. K., Matteau-Pelletier, C., Lam, T., Saboural, P., ... Tardif, J.-C. (2012). [VCAM-1-targeting gold nanoshell probe for photoacoustic imaging of atherosclerotic plaque in mice](#). Contrast Media & Molecular Imaging, 8(1), 27–39.
9. Wang, X., Hagemeyer, C. E., Hohmann, J. D., Leitner, E., Armstrong, P. C., Jia, F., ... Ahrens, I. (2012). [Novel single-chain antibody-targeted microbubbles for molecular ultrasound imaging of thrombosis: validation of a unique noninvasive method for rapid and sensitive detection of thrombi and monitoring of success or failure of thrombolysis in mice](#). Circulation, 125(25), 3117–26.
10. Wu, Z., Curaj, A., Fokong, S., Liehn, E. a, Weber, C., Lammers, T., ... Zandvoort van, M. (2013). [Rhodamine-loaded intercellular adhesion molecule-1-targeted microbubbles for dual-modality imaging under controlled shear stresses](#). Circulation. Cardiovascular Imaging, 6(6), 974–81.

Bibliography – Molecular Imaging *in vivo*

11. Wu, Z., Curaj, A., Fokong, S., Liehn, E. a, Weber, C., Lammers, T., ... Zandvoort van, M. (2013). [Rhodamine-loaded intercellular adhesion molecule-1-targeted microbubbles for dual-modality imaging under controlled shear stresses.](#) Circulation. Cardiovascular Imaging, 6(6), 974–81.

Receptors: EGFR/VEGFR

12. Li, P.-C., Wang, C.-R. C., Shieh, D.-B., Wei, C.-W., Liao, C.-K., Poe, C., ... Wu, Y.-N. (2008). [In vivo photoacoustic molecular imaging with simultaneous multiple selective targeting using antibody-conjugated gold nanorods.](#) Optics Express, 16(23), 18605–15.
13. Willmann, J., Lutz, A., Paulmurugan, R., Patel, M., Chu P, Rosenberg, J., Gambhir, S. (2008). [Dual-targeted Contrast Agent for US Assessment of Tumor angiogenesis in vivo.](#) Radiology, 248(3), 936–944.
14. Willmann JK, Cheng, Z., Davis, C., Lutz, A. M., & Nielsen, Carsten H, Gambhir. S. (2008). [Targeted Microbubbles for Imaging Tumor Angiogenesis: assessment of whole body biodistribution with dynamic micro-PET in mice.](#) Radiology, 249(1), 212–219.
15. Decano, J. L., Moran, A. M., Ruiz-Opazo, N., & Herrera, V. L. M. (2011). [Molecular imaging of vasa vasorum neovascularization via DEspR-targeted contrast-enhanced ultrasound micro-imaging in transgenic atherosclerosis rat model.](#) Molecular Imaging and Biology : MIB : The Official Publication of the Academy of Molecular Imaging, 13(6), 1096–106.

Immune markers: P-selectin/CD44/MadCAM/ activated Glycoprotein IIb/IIIa

16. Deshpande, N., Lutz, A. M., Ren, Y., Foygel, K., Tian, L., Schneider, M., ... Willmann, J. K. (2011). [Quantification and monitoring of inflammation in murine inflammatory bowel disease with targeted contrast-enhanced US.](#) Radiology, 262(1), 172–80.
17. Swierczewska, M., Choi, K. Y., Mertz, E. L., Huang, X., Zhang, F., Zhu, L., Chen, X. (2012). [A Facile, One-Step Nanocarbon Functionalization for Biomedical Applications.](#) Nano Letters, 12(7), 3613–20.
18. Ardelean, D. S., Yin, M., Jerkic, M., Peter, M., Ngan, B., Kerbel, R. S., Letarte, M. (2014). [Anti-VEGF therapy reduces intestinal inflammation in Endoglin heterozygous mice subjected to experimental colitis.](#) Angiogenesis, 17(3), 641–659.
19. Wang, X., Hagemeyer, C. E., Hohmann, J. D., Leitner, E., Armstrong, P. C., Jia, F., ... Ahrens, I. (2012). [Novel single-chain antibody-targeted microbubbles for molecular ultrasound imaging of thrombosis: validation of a unique noninvasive method for rapid and sensitive detection of thrombi and monitoring of success or failure of thrombolysis in mice.](#) Circulation, 125(25), 3117–26.

Micro-Ultrasound/Photoacoustic contrast agents with Vevo Imaging solutions

20. Zackrisson, S., Ven, S. M. W. Y. Van De, & Gambhir, S. S. (2014). [Light In and Sound Out : Emerging Translational Strategies.](#) Cancer Research, 74, 979–1004.
21. Luke, G. P., Yeager, D., & Emelianov, S. Y. (2012). [Biomedical Applications of Photoacoustic Imaging with Exogenous Contrast Agents.](#) Annals of Biomedical Engineering, 40(2), 422–437.
22. Foster, F. S., Hossack, J., & Adamson, S. L. (2011). [Micro-ultrasound for preclinical imaging.](#) Interface Focus, 1(4), 576–601.
23. Mallidi, S., Luke, G. P., & Emelianov, S. (2011). [Photoacoustic imaging in cancer detection, diagnosis, and treatment guidance.](#) Trends in Biotechnology, 29(5), 213–21.

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