



Laura Jean Pisani, Ph.D.

Physical Science Research Scientist, Radiology - Diagnostic Radiology

 NIH Biosketch available Online

Bio

CURRENT ROLE AT STANFORD

Associate Director of Stanford Center for Innovation in In vivo Imaging (SCi3), Radiology

Member, Molecular Imaging Program at Stanford

Professional

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member, AAPM (1993 - present)
- Member, ISMRM (2002 - present)

Publications

PUBLICATIONS

- **Two-Photon Intravital Microscopy of Glioblastoma in a Murine Model.** *Journal of visualized experiments : JoVE*
Nernekli, K., Mangarova, D. B., Shi, Y., Varniab, Z. S., Chang, E., Tikenogullari, O. Z., Pisani, L., Tikhomirov, G., Wang, G., Daldrup-Link, H. E.
2024
- **A novel mouse model of cerebral adrenoleukodystrophy highlights NLRP3 activity in lesion pathogenesis.** *bioRxiv : the preprint server for biology*
Hashemi, E., Narain Srivastava, I., Aguirre, A., Tilahan Yoseph, E., Kaushal, E., Awani, A., Kyu Ryu, J., Akassoglou, K., Talebian, S., Chu, P., Pisani, L., Musolino, P., Steinman, et al
2023
- **Novel Clinically Translatable Iron Oxide Nanoparticle for Monitoring Anti-CD47 Cancer Immunotherapy.** *Investigative radiology*
Roudi, R., Pisani, L., Pisani, F., Kiru, L., Daldrup-Link, H. E.
2023
- **Measurement of Tumor T2* Relaxation Times after Iron Oxide Nanoparticle Administration.** *Journal of visualized experiments : JoVE*
Ramasamy, S. K., Roudi, R., Morakote, W., Adams, L. C., Pisani, L. J., Moseley, M., Daldrup-Link, H. E.
2023
- **Tumor protease-activated theranostic nanoparticles for MRI-guided glioblastoma therapy.** *Theranostics*
Huang, C. H., Chang, E., Zheng, L., Raj, J. G., Wu, W., Pisani, L. J., Daldrup-Link, H. E.
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- **Multimodal In Vivo Tracking of Chimeric Antigen Receptor T Cells in Preclinical Glioblastoma Models.** *Investigative radiology*
Wu, W. E., Chang, E., Jin, L., Liu, S., Huang, C., Kamal, R., Liang, T., Aissaoui, N. M., Theruvath, A. J., Pisani, L., Moseley, M., Stoyanova, T., Paulmurugan, et al
2022

- **Brain iron deposition after Ferumoxytol-enhanced MRI: A study of Porcine Brains.** *Nanotheranostics*
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2020; 4 (4): 195–200
- **GABA Measurement in a Neonatal Fragile X Syndrome Mouse Model Using 1H-Magnetic Resonance Spectroscopy and Mass Spectrometry.** *Frontiers in molecular neuroscience*
Reyes, S. T., Mohajeri, S. n., Krasinska, K. n., Guo, S. G., Gu, M. n., Pisani, L. n., Rosenberg, J. n., Spielman, D. M., Chin, F. T.
2020; 13: 612685
- **Nanoparticle enhanced MRI can monitor macrophage response to CD47 mAb immunotherapy in osteosarcoma.** *Cell death & disease*
Mohanty, S., Yerneni, K., Theruvath, J. L., Graef, C. M., Nejadnik, H., Lenkov, O., Pisani, L., Rosenberg, J., Mitra, S., Cordero, A. S., Cheshier, S., Daldrup-Link, H. E.
2019; 10 (2): 36
- **Magnetic Resonance Imaging of Tumor-Associated Macrophages: Clinical Translation** *CLINICAL CANCER RESEARCH*
Aghighi, M., Theruvath, A. J., Pareek, A., Pisani, L. L., Alford, R., Muehe, A. M., Sethi, T. K., Holdsworth, S. J., Hazard, F. K., Gratzinger, D., Luna-Fineman, S., Advani, R., Spunt, et al
2018; 24 (17): 4110–18
- **A novel theranostic strategy for MMP-14 expressing glioblastomas impacts survival**
Mohanty, S., Chen, Z., Li, K., Morais, G., Klockow, J., Yerneni, K., Pisani, L., Chin, F., Mitra, S., Cheshier, S., Chang, E., Gambhir, S., Rao, et al
AMER ASSOC CANCER RESEARCH.2018
- **Magnetic Resonance Imaging of Tumor Associated Macrophages: Clinical Translation.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Aghighi, M. n., Theruvath, A. J., Pareek, A. n., Pisani, L. n., Alford, R. n., Muehe, A. M., Sethi, T. K., Holdsworth, S. J., Hazard, F. K., Gratzinger, D. n., Luna-Fineman, S. n., Advani, R. H., Spunt, et al
2018
- **Ferumoxytol Is Not Retained in Kidney Allografts in Patients Undergoing Acute Rejection.** *Molecular imaging and biology*
Aghighi, M., Pisani, L., Theruvath, A. J., Muehe, A. M., Donig, J., Khan, R., Holdsworth, S. J., Kambham, N., Concepcion, W., Grimm, P. C., Daldrup-Link, H. E.
2017
- **Detection of Stem Cell Transplant Rejection with Ferumoxytol MR Imaging: Correlation of MR Imaging Findings with Those at Intravital Microscopy.** *Radiology*
Daldrup-Link, H. E., Chan, C., Lenkov, O., Taghavigarmestani, S., Nazekati, T., Nejadnik, H., Chapelin, F., Khurana, A., Tong, X., Yang, F., Pisani, L., Longaker, M., Gambhir, et al
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- **Alk5 inhibition increases delivery of macromolecular and protein-bound contrast agents to tumors.** *JCI insight*
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- **Speeding up PET/MR for cancer staging of children and young adults.** *European radiology*
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- **Imaging Tumor Necrosis with Ferumoxytol.** *PloS one*
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- **Assessment of elastin deficit in a marfan mouse aneurysm model using an elastin-specific magnetic resonance imaging contrast agent.** *Circulation. Cardiovascular imaging*
Okamura, H., Pisani, L. J., Dalal, A. R., Emrich, F., Dake, B. A., Arakawa, M., Onthank, D. C., Cesati, R. R., Robinson, S. P., Milanese, M., Kotek, G., Smit, H., Connolly, et al
2014; 7 (4): 690-696
- **Severe Impairment of Axonal Transport in Acute Experimental Anterior Ischemic Optic Neuropathy**
Ma, J., Shariati, M., Pisani, L., Pestilli, F., Dougherty, B., Perry, L., Lee, G., Contag, C., Wandell, B. A., Liao, Y.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2014

- **PET Imaging of Stroke-Induced Neuroinflammation in Mice Using [F-18]PBR06** *MOLECULAR IMAGING AND BIOLOGY*
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- **Ferumoxylol: a new, clinically applicable label for stem-cell tracking in arthritic joints with MRI.** *Nanomedicine*
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- **Evaluation of the novel USPIO GEH121333 for MR imaging of cancer immune responses.** *Contrast media & molecular imaging*
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- **Intravenous Ferumoxylol Allows Noninvasive MR Imaging Monitoring of Macrophage Migration into Stem Cell Transplants** *RADIOLOGY*
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- **Infection of pregnant mice with *Listeria monocytogenes* induces fetal bradycardia** *PEDIATRIC RESEARCH*
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- **Bioluminescence and Magnetic Resonance Imaging of Macrophage Homing to Experimental Abdominal Aortic Aneurysms** *MOLECULAR IMAGING*
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- **Improvements in Parallel Imaging Accelerated Functional MRI Using Multiecho Echo-Planar Imaging** *MAGNETIC RESONANCE IN MEDICINE*
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- **Restricted field of view magnetic resonance imaging of a dynamic time series** *MAGNETIC RESONANCE IN MEDICINE*
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- **Effects of spatial and temporal resolution for MR image-guided thermal ablation of prostate with transurethral ultrasound** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
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- **Setup error in radiotherapy: On-line correction using electronic kilovoltage and megavoltage radiographs** *40th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology*
Pisani, L., Lockman, D., Jaffray, D., Yan, D., Martinez, A., Wong, J.
ELSEVIER SCIENCE INC.2000: 825-39