

Stanford



Shashi Singh

Postdoctoral Scholar, Radiology

Bio

BIO

As a postdoctoral scholar at Stanford University's Department of Radiology since 2023, I have the privilege of contributing to Dr. Heike E. Daldrup-Link's laboratory, where my research focuses on clinical and translational molecular imaging. My work is dedicated to the development and application of artificial intelligence algorithms for the automated detection and monitoring of pediatric cancers, including lymphoma and sarcomas, using PET and MRI. This encompasses AI-driven multimodal pediatric lymphoma detection, automating the Deauville score, and predicting post-chemotherapy responses in pediatric osteosarcomas. Additionally, I am investigating the effects of iron-oxide nanoparticles on tumor-associated macrophages in osteosarcoma using MRI. My professional journey in medicine began with two years as a physician in Nepal (2019-2021), where I gained a profound understanding of diverse and complex disease conditions. Subsequently, I served as a research scholar at the Hospital of the University of Pennsylvania (2021-2023), working with PET/CT using various radiotracers across multiple domains, including hematological malignancies, aging, musculoskeletal, neurological, psychiatric, infectious, inflammatory, and cardiovascular diseases. Outside of my professional pursuits, I enjoy exploring local restaurants, going for long drives, hiking, and playing sports such as soccer, cricket, and volleyball. I also love spending time on the beaches.

STANFORD ADVISORS

- Heike Daldrup-Link, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Applications of Artificial Intelligence for Pediatric Cancer Imaging.** *AJR. American journal of roentgenology*
Singh, S. B., Sarrami, A. H., Gatidis, S., Varniab, Z. S., Chaudhari, A., Daldrup-Link, H. E.
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- **Detecting High-Dose Methotrexate-Induced Brain Changes in Pediatric and Young Adult Cancer Survivors Using [18F]FDG PET/MRI: A Pilot Study.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
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- **[18F]FDG PET/CT for identifying the causes of fever of unknown origin (FUO).** *American journal of nuclear medicine and molecular imaging*
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- **Molecular Imaging Techniques in the Diagnosis and Monitoring of Infectious Diseases** *CURRENT TREATMENT OPTIONS IN INFECTIOUS DISEASES*
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- **Role of PET/CT in diagnosing and monitoring disease activity in rheumatoid arthritis: a review.** *Annals of nuclear medicine*
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2024
- **PET/CT in the Evaluation of CAR-T Cell Immunotherapy in Hematological Malignancies** *Molecular Imaging*
Singh, S. B., Bhandari, S., Siwakoti, S., Singh, R., Bhusal, S., Sharma, K., Bhandari, S., Khanal, K.
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- **Neurological and Psychiatric Manifestations of Long COVID-19 and Their [18F]FDG PET Findings: A Review.** *Diagnostics (Basel, Switzerland)*
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Singh, S. B., Ng, S. J., Lau, H. C., Khanal, K., Bhattarai, S., Paudyal, P., Shrestha, B. B., Naseer, R., Sandhu, S., Gokhale, S., Raynor, W. Y.
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- **Dual time-point imaging of lymphoma adenopathy using total-body FDG PET/CT** *Society of Nuclear Medicine and Molecular Imaging (SNMMI) Annual Meeting 2023*
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- **Chimeric antigen receptor T-cell treatment for non-Hodgkin lymphoma: A comprehensive bone marrow evaluation with FDG PET/CT** *Society of Nuclear Medicine and Molecular Imaging (SNMMI) Annual Meeting 2023*
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- **Comparison of Global cardiac atherosclerosis burden with Alavi-Carlson Calcification score (ACCS) relative to coronary artery calcification score (CACS)**
Khanal, K., Singh, S., Revheim, M., Saboury, B., Werner, T., Alavi, A.
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- **The evolving role of FAPI-PET in assessing patients with various malignancies and its potential superiority over FDG-PET in this setting** *Society of Nuclear Medicine and Molecular Imaging (SNMMI) 2022 Annual Meeting*
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