

# Stanford

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## Sharon Hori

- Instructor, Radiology
- Instructor, Radiology - Rad/Molecular Imaging Program at Stanford

### Bio

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#### ACADEMIC APPOINTMENTS

- Instructor, Radiology
- Instructor, Radiology - Rad/Molecular Imaging Program at Stanford

#### PROFESSIONAL EDUCATION

- Ph.D., University of California Los Angeles , Biomedical Engineering
- M.S., University of California Los Angeles , Biomedical Engineering
- B.S., University of California Los Angeles , Cybernetics
- B.S., University of California Los Angeles , Applied Mathematics

### Teaching

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#### STANFORD ADVISEES

##### Postdoctoral Research Mentor

Negar Sadeghipour

### Publications

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#### PUBLICATIONS

- **A Model-Based Personalized Cancer Screening Strategy for Detecting Early-Stage Tumors Using Blood-Borne Biomarkers** *CANCER RESEARCH*  
Hori, S. S., Lutz, A. M., Paulmurugan, R., Gambhir, S. S.  
2017; 77 (10): 2570-2584
- **Mathematical Model Identifies Blood Biomarker-Based Early Cancer Detection Strategies and Limitations** *SCIENCE TRANSLATIONAL MEDICINE*  
Hori, S. S., Gambhir, S. S.  
2011; 3 (109)
- **ctDNA shedding dynamics dictate early lung cancer detection potential**  
Avanzini, S., Kurtz, D. M., Chabon, J. J., Hori, S. S., Alizadeh, A. A., Diehn, M., Reiter, J. G.  
AMER ASSOC CANCER RESEARCH.2020: 25
- **Highly sensitive eight-channel light sensing system for biomedical applications.** *Photochemical & photobiological sciences : Official journal of the European Photochemistry Association and the European Society for Photobiology*  
Kim, S. B., Hori, S. S., Sadeghipour, N., Sukumar, U. K., Fujii, R., Massoud, T. F., Paulmurugan, R.  
2020

- **A blood biomarker for monitoring response to anti-EGFR therapy.** *Cancer biomarkers : section A of Disease markers*  
Hughes, N. P., Xu, L., Nielsen, C. H., Chang, E., Hori, S. S., Natarajan, A., Lee, S., Kjar, A., Kani, K., Wang, S. X., Mallick, P., Gambhir, S. S.  
2018
- **Engineering Intracellularly Retained Gaussia Luciferase Reporters for Improved Biosensing and Molecular Imaging Applications.** *ACS chemical biology*  
Gaur, S., Bhargava-Shah, A., Hori, S., Afjei, R., Sekar, T. V., Gambhir, S. S., Massoud, T. F., Paulmurugan, R.  
2017
- **On-Target Probes for Early Detection** *Nature Biomedical Engineering*  
Hori, S. S., Tummers, W. S., Gambhir, S. S.  
2017; 1: 1-3
- **Photoacoustic Tomography Detects Early Vessel Regression and Normalization During Ovarian Tumor Response to the Antiangiogenic Therapy Trebananib.** *Journal of nuclear medicine*  
Bohndiek, S. E., Sasportas, L. S., Machtaler, S., Jokerst, J. V., Hori, S., Gambhir, S. S.  
2015; 56 (12): 1942-1947
- **Development and Validation of an Immuno-PET Tracer as a Companion Diagnostic Agent for Antibody-Drug Conjugate Therapy to Target the CA6 Epitope.** *Radiology*  
Ilovich, O., Natarajan, A., Hori, S., Sathirachinda, A., Kimura, R., Srinivasan, A., Gebauer, M., Kruip, J., Focken, I., Lange, C., Carrez, C., Sassoon, I., Blanc, et al  
2015; 276 (1): 191-198
- **Detecting cancers through tumor-activatable minicircles that lead to a detectable blood biomarker.** *Proceedings of the National Academy of Sciences of the United States of America*  
Ronald, J. A., Chuang, H., Dragulescu-Andrasi, A., Hori, S. S., Gambhir, S. S.  
2015; 112 (10): 3068-3073
- **Detection and quantitation of circulating tumor cell dynamics by bioluminescence imaging in an orthotopic mammary carcinoma model.** *PloS one*  
Sasportas, L. S., Hori, S. S., Prax, G., Gambhir, S. S.  
2014; 9 (9)
- **Role of endosomal trafficking dynamics on the regulation of hepatic insulin receptor activity: Models for fao cells** *ANNALS OF BIOMEDICAL ENGINEERING*  
Hori, S. S., Kurland, I. J., DiStefano, J. J.  
2006; 34 (5): 879-892