

Stanford



Sharon Hori

Instructor, Radiology

Bio

ACADEMIC APPOINTMENTS

- Instructor, Radiology

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

Publications

PUBLICATIONS

- **A mathematical model of tumor regression and recurrence after therapeutic oncogene inactivation.** *Scientific reports*
Hori, S. S., Tong, L. n., Swaminathan, S. n., Liebersbach, M. n., Wang, J. n., Gambhir, S. S., Felsler, D. W.
2021; 11 (1): 1341
- **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)
- **A mathematical model of ctDNA shedding predicts tumor detection size.** *Science advances*
Avanzini, S., Kurtz, D. M., Chabon, J. J., Moding, E. J., Hori, S. S., Gambhir, S. S., Alizadeh, A. A., Diehn, M., Reiter, J. G.
2020; 6 (50)
- **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. n., Bhargava-Shah, A. n., Hori, S. n., Afjei, R. n., Sekar, T. V., Gambhir, S. S., Massoud, T. F., Paulmurugan, R. n.
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., Kruij, J., Focken, I., Lange, C., Carrez, C., Sasso, 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