

# Stanford

---



## Sean Yamada-Hunter

Postdoctoral Scholar, Stanford Cancer Institute

### Bio

---

#### BIO

I am a postdoc in Crystal Mackall's lab at Stanford and a Parker Institute for Cancer Immunotherapy Parker Scholar. I specialize in applying synthetic biology and protein engineering approaches to cellular immunotherapy, with a particular interest in facilitating potent combination immunotherapies, most recently through dual treatment of CAR T therapy and CD47 blockade.

#### HONORS AND AWARDS

- Parker Scholar, Parker Institute for Cancer Immunotherapy (2024 - 2026)
- STAT Wunderkind, STAT News (2024)
- NSF Graduate Research Fellowship, National Science Foundation (2016 - 2020)
- Excellence in Teaching Award, Stanford Biology Department (2016)
- Stanford Graduate Fellowship, Stanford University (2015 - 2019)
- Departmental Highest Honors in Biochemistry, UCLA (2013)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , CANBI-PHD (2020)
- BS, UCLA , Biochemistry (2013)

#### STANFORD ADVISORS

- Crystal Mackall, Postdoctoral Faculty Sponsor

#### PATENTS

- Sean A. Hunter, Jennifer R. Cochran. "United States Patent 12,049,490 Engineered Receptor-based Fc-fusion Leukemia Inhibitory Factor Ligand Trap for use in Cancer Therapy", Leland Stanford Junior University, Jul 30, 0024

### Publications

---

#### PUBLICATIONS

- **An engineered NKp46 antibody for construction of multi-specific NK cell engagers.** *Protein engineering, design & selection : PEDS*  
Lee, R. B., Maddineni, S., Landry, M., Diaz, C., Tashfeen, A., Yamada-Hunter, S. A., Mackall, C. L., Beinat, C., Sunwoo, J. B., Cochran, J. R.  
2024
- **Engineered CD47 protects T cells for enhanced antitumour immunity.** *Nature*  
Yamada-Hunter, S. A., Theruvath, J., McIntosh, B. J., Freitas, K. A., Lin, F., Radosevich, M. T., Leruste, A., Dhingra, S., Martinez-Velez, N., Xu, P., Huang, J., Delaidelli, A., Desai, et al

2024

- **Directed evolution of genetically encoded LYTACs for cell-mediated delivery.** *Proceedings of the National Academy of Sciences of the United States of America*  
Yang, J. L., Yamada-Hunter, S. A., Labanieh, L., Sotillo, E., Cheah, J. S., Roberts, D. S., Mackall, C. L., Bertozzi, C. R., Ting, A. Y.  
2024; 121 (13): e2320053121
- **An engineered interleukin-11 decoy cytokine inhibits receptor signaling and proliferation in lung adenocarcinoma.** *Bioengineering & translational medicine*  
McIntosh, B. J., Hartmann, G. G., Yamada-Hunter, S. A., Liu, P., Williams, C. F., Sage, J., Cochran, J. R.  
2023; 8 (6): e10573
- **Enhanced safety and efficacy of protease-regulated CAR-T cell receptors.** *Cell*  
Labanieh, L., Majzner, R. G., Klysz, D., Sotillo, E., Fisher, C. J., Vilches-Moure, J. G., Pacheco, K. Z., Malipatlolla, M., Xu, P., Hui, J. H., Murty, T., Theruvath, J., Mehta, et al  
2022
- **An engineered ligand trap inhibits leukemia inhibitory factor as pancreatic cancer treatment strategy.** *Communications biology*  
Hunter, S. A., McIntosh, B. J., Shi, Y., Sperberg, R. A., Funatogawa, C., Labanieh, L., Soon, E., Wastyk, H. C., Mehta, N., Carter, C., Hunter, T., Cochran, J. R.  
2021; 4 (1): 452
- **An engineered antibody binds a distinct epitope and is a potent inhibitor of murine and human VISTA.** *Scientific reports*  
Mehta, N., Maddineni, S., Kelly, R. L., Lee, R. B., Hunter, S. A., Silberstein, J. L., Parra Sperberg, R. A., Miller, C. L., Rabe, A., Labanieh, L., Cochran, J. R.  
2020; 10 (1): 15171
- **Stem Cell Factor LIFTed as a Promising Clinical Target for Cancer Therapy.** *Molecular cancer therapeutics*  
Shi, Y. n., Hunter, S. n., Hunter, T. n.  
2019; 18 (8): 1337–40
- **Engineering a potent inhibitor of matrilysin from the natural hepatocyte growth factor activator inhibitor type-1 (HAI-1) protein** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Mitchell, A. C., Kannan, D., Hunter, S. A., Sperberg, R., Chang, C. H., Cochran, J. R.  
2018; 293 (14): 4969–80
- **Development of a Protease Biosensor Based on a Dimerization-Dependent Red Fluorescent Protein** *ACS CHEMICAL BIOLOGY*  
Mitchell, A. C., Alford, S. C., Hunter, S. A., Kannan, D., Sperberg, R., Chang, C. H., Cochran, J. R.  
2018; 13 (1): 66–72
- **Cell-Binding Assays for Determining the Affinity of Protein-Protein Interactions: Technologies and Considerations** *PEPTIDE, PROTEIN AND ENZYME DESIGN*  
Hunter, S. A., Cochran, J. R.  
2016; 580: 21-44
- **Scf Represses Cardiomyogenesis in Prospective Hemogenic Endothelium and Endocardium** *CELL*  
Van Handel, B., Montel-Hagen, A., Sasidharan, R., Nakano, H., Ferrari, R., Boogerd, C. J., Schredelseker, J., Wang, Y., Hunter, S., Org, T., Zhou, J., Li, X., Pellegrini, et al  
2012; 150 (3): 590–605