

Stanford

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Bio

STANFORD ADVISORS

- Crystal Mackall, Postdoctoral Faculty Sponsor
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Publications

PUBLICATIONS

- **A versatile CRISPR-Cas13d platform for multiplexed transcriptomic regulation and metabolic engineering in primary human T cells.** *Cell*
Tieu, V., Sotillo, E., Bjelajac, J. R., Chen, C., Malipatlolla, M., Guerrero, J. A., Xu, P., Quinn, P. J., Fisher, C., Klysz, D., Mackall, C. L., Qi, L. S.
2024
- **Inosine induces stemness features in CAR-T cells and enhances potency.** *Cancer cell*
Klysz, D. D., Fowler, C., Malipatlolla, M., Stuani, L., Freitas, K. A., Chen, Y., Meier, S., Daniel, B., Sandor, K., Xu, P., Huang, J., Labanieh, L., Keerthi, et al
2024
- **FOXO1 is a master regulator of CAR T memory programming.** *Research square*
Doan, A., Mueller, K. P., Chen, A., Rouin, G. T., Daniel, B., Lattin, J., Chen, Y., Mozarsky, B., Markovska, M., Arias-Umana, J., Hapke, R., Jung, I., Xu, et al
2023
- **Transcriptional Profiling Associated with CD22 CAR T Cell Clinical Response in LBCL**
Kramer, A., Hamilton, M. P., Prabhu, S., Desai, M., Kuo, A., Ehlinger, Z., Agarwal, N., Su, Y., Gkitsas, N., Fowler, C., Keerthi, V., Retherford, A., Klysz, et al
AMER SOC HEMATOLOGY.2023
- **Inosine Induces Stemness Features in CAR T cells and Enhances Potency.** *bioRxiv : the preprint server for biology*
Klysz, D. D., Fowler, C., Malipatlolla, M., Stuani, L., Freitas, K. A., Meier, S., Daniel, B., Sandor, K., Xu, P., Huang, J., Labanieh, L., Leruste, A., Bashti, et al
2023
- **Co-opting signalling molecules enables logic-gated control of CAR T cells.** *Nature*
Tousley, A. M., Rotiroti, M. C., Labanieh, L., Rysavy, L. W., Kim, W. J., Lareau, C., Sotillo, E., Weber, E. W., Rietberg, S. P., Dalton, G. N., Yin, Y., Klysz, D., Xu, et al
2023
- **Enhanced T cell effector activity by targeting the Mediator kinase module.** *Science (New York, N.Y.)*
Freitas, K. A., Belk, J. A., Sotillo, E., Quinn, P. J., Ramello, M. C., Malipatlolla, M., Daniel, B., Sandor, K., Klysz, D., Bjelajac, J., Xu, P., Burdsall, K. A., Tieu, et al
2022; 378 (6620): eabn5647
- **Metabolic engineering of CAR-T cells overcomes suppressive adenosine signaling and enhances functionality**
Klysz, D., Malipatlolla, M., Freitas, K., Bashti, M., Labanieh, L., Xu, P., Ramello, C., Lerust, A., Want, H., Pacheco, K., Weber, E. W., Patel, S., Feldman, et al
AMER ASSOC CANCER RESEARCH.2022
- **Enhanced effector activity of mediator CDK8 kinase module deficient CAR-T Cells**
Freitas, K. A., Belk, J. A., Sotillo, E., Daniel, B., Sandor, K., Klysz, D., Duong, V. T., Xu, P., Malipatlolla, M., Weber, E. W., Majzner, R. G., Chang, H. Y., Satpathy, et al

AMER ASSOC CANCER RESEARCH.2022

- **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
- **Delivery of CAR-T cells in a transient injectable stimulatory hydrogel niche improves treatment of solid tumors.** *Science advances*
Grosskopf, A. K., Labanieh, L., Klysz, D. D., Roth, G. A., Xu, P., Adebowale, O., Gale, E. C., Jons, C. K., Klich, J. H., Yan, J., Maikawa, C. L., Correa, S., Ou, et al
2022; 8 (14): eabn8264
- **GPC2-CAR T cells tuned for low antigen density mediate potent activity against neuroblastoma without toxicity** *CANCER CELL*
Heitzeneder, S., Bosse, K. R., Zhu, Z., Zhelev, D., Majzner, R. G., Radosevich, M. T., Dhingra, S., Sotillo, E., Buongervino, S., Pascual-Pasto, G., Garrigan, E., Xu, P., Huang, et al
2022; 40 (1): 53-+
- **Transient rest restores functionality in exhausted CAR-T cells through epigenetic remodeling.** *Science (New York, N.Y.)*
Weber, E. W., Parker, K. R., Sotillo, E., Lynn, R. C., Anbunathan, H., Lattin, J., Good, Z., Belk, J. A., Daniel, B., Klysz, D., Malipatlolla, M., Xu, P., Bashti, et al
2021; 372 (6537)
- **Global analysis of shared T cell specificities in human non-small cell lung cancer enables HLA inference and antigen discovery.** *Immunity*
Chiou, S. H., Tseng, D. n., Reuben, A. n., Mallajosyula, V. n., Molina, I. S., Conley, S. n., Wilhelmy, J. n., McSween, A. M., Yang, X. n., Nishimiya, D. n., Sinha, R. n., Nabet, B. Y., Wang, et al
2021; 54 (3): 586–602.e8
- **PET reporter gene imaging and ganciclovir-mediated ablation of chimeric antigen receptor T-cells in solid tumors.** *Cancer research*
Murty, S., Labanieh, L., Murty, T., Gowrishankar, G., Haywood, T., Alam, I. S., Beinat, C., Robinson, E., Aalipour, A., Klysz, D. D., Cochran, J. R., Majzner, R. G., Mackall, et al
2020