



## Chia-Hsin Hsu

Postdoctoral Scholar, General Surgery

### Bio

---

#### BIO

Dr. Chia-Hsin (Cindy) Hsu is a postdoctoral scholar in Dr. Deshka Foster's laboratory in the Department of General Surgery at Stanford University School of Medicine. She received her Ph.D. in Biomedical and Biological Sciences from Cornell University under Dr. Andrew White, where she studied how extracellular matrix remodeling and innate immune crosstalk shape tumor response to targeted therapy in BRAF-mutant melanoma. She previously earned her D.V.M. and M.S. in Veterinary Medicine from National Taiwan University. Dr. Hsu's current research focuses on two projects: developing a sustained-release hydrogel platform for localized JUN inhibition to prevent postoperative intra-abdominal adhesions, a leading cause of bowel obstruction and reoperative morbidity; and investigating stromal-tertiary lymphoid structure (TLS) crosstalk in pancreatic ductal adenocarcinoma to define how the tumor microenvironment shapes anti-tumor immunity.

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Cornell University (2025)
- D.V.M., National Taiwan University , Veterinary Medicine (2017)
- M.S., National Taiwan University , Veterinary Medicine (2019)
- PhD, Cornell University , Biomedical and Biological Sciences (2025)

#### STANFORD ADVISORS

- Deshka Foster, Postdoctoral Faculty Sponsor

### Publications

---

#### PUBLICATIONS

- **A Translational Surgical Porcine Model for Postoperative Intra-Abdominal Adhesion Formation.** *Journal of visualized experiments : JoVE*  
Reveron-Thornton, R. F., Hsu, C. H., Bobst, W., Guo, J. L., Meany, E. L., M Williams, C., Berry, C., Fallah, M., Korah, M., P Agolia, J., Guo, C., Fell, G. L., Hyun, et al  
2026
- **Therapy-Induced ECM Remodeling Creates a Transient Immune Barrier in Residual Melanoma.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*  
Hsu, C. H., Chen, J., Lee, K. J., Donahue, L. R., Kacaj, D., McDonough, S. P., White, A. C.  
2025; 12 (42): e08451
- **The Lysosome in Malignant Melanoma: Biology, Function and Therapeutic Applications.** *Cells*  
Hsu, C. H., Lee, K. J., Chiu, Y. H., Huang, K. C., Wang, G. S., Chen, L. P., Liao, K. W., Lin, C. S.  
2022; 11 (9)

- **KRAS-dependent cancer cells promote survival by producing exosomes enriched in Survivin** *CANCER LETTERS*  
Chang, W., Nguyen, T., Hsu, C., Bryant, K. L., Kim, H., Ying, H., Erickson, J. W., Der, C. J., Cerione, R. A., Antonyak, M. A.  
2021; 517: 66-77
- **Genome-wide DNA methylation analysis using MethylCap-seq in canine high-grade B-cell lymphoma.** *Journal of leukocyte biology*  
Hsu, C. H., Tomiyasu, H., Lee, J. J., Tung, C. W., Liao, C. H., Chuang, C. H., Huang, L. Y., Liao, K. W., Chou, C. H., Liao, A. T., Lin, C. S.  
2021; 109 (6): 1089-1103
- **Genome-wide DNA methylation and RNA-seq analyses identify genes and pathways associated with doxorubicin resistance in a canine diffuse large B-cell lymphoma cell line.** *PloS one*  
Hsu, C. H., Tomiyasu, H., Liao, C. H., Lin, C. S.  
2021; 16 (5): e0250013
- **Immune cell shuttle for precise delivery of nanotherapeutics for heart disease and cancer.** *Science advances*  
Huang, S. S., Lee, K. J., Chen, H. C., Prajnamitra, R. P., Hsu, C. H., Jian, C. B., Yu, X. E., Chueh, D. Y., Kuo, C. W., Chiang, T. C., Choong, O. K., Huang, S. C., Beh, et al  
2021; 7 (17)
- **Inducing a Transient Increase in Blood-Brain Barrier Permeability for Improved Liposomal Drug Therapy of Glioblastoma Multiforme.** *ACS nano*  
Lundy, D. J., Lee, K. J., Peng, I. C., Hsu, C. H., Lin, J. H., Chen, K. H., Tien, Y. W., Hsieh, P. C.  
2019; 13 (1): 97-113