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CONTACT INFORMATION

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SUPERVISORS

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CURRENT ROLE AT STANFORD

Senior Scientist and Lab Manager, Alice Fan Lab

EDUCATION AND CERTIFICATIONS

- MSc, ETH Zurich , Biology (2007)
- PhD, ETH Zurich , Biology (2011)

Publications

PUBLICATIONS

- **Urine cell-free RNA for bladder cancer detection and treatment response prediction.** *Nature medicine*
  Liu, K. J., Shi, W. Y., Nesselbush, M. C., Phillips, N. A., Mach, K. E., Luca, B., Bajpai, R. K., Jabara, I., Cheng, J. C., Sugio, T., Shukla, N., Shen, E. C., Koh, et al
  2026

- **Identification of serum protein biomarkers for clear cell renal cell carcinoma using patient-derived xenografts.** *The Journal of clinical investigation*
  Zhang, D., Chiu, C., Garcia Marques, F. J., Bermudez, A., Hoerner, C. R., Hadi, N., Wang, E., Metzner, T. J., Trabanino, L., Leppert, J. T., Zhao, H., Tibshirani, R., Fan, et al
  2026; 136 (1)

- **Genomic Landscape and Outcomes of Renal Cell Carcinoma With Metastases to the Pancreas.** *JCO precision oncology*
  Glover, M. J., Ashok, A., Khan, O., Kao, C. S., Chiang, R., Hoerner, C. R., Shah, S. A., Srinivas, S., Fan, A. C., Khaki, A. R.
  2025; 9: e2500318

- **Detecting androgen receptor (AR), AR variant 7 (AR-V7), prostate-specific membrane antigen (PSMA), and prostate-specific antigen (PSA) gene expression in CTCs and plasma exosome-derived cfRNA in patients with metastatic castration-resistant prostate cancer (mCRPC) by integrating the VTX-1 CTC isolation system with the QIAGEN AdnaTest.** *BMC cancer*

Liu, H. E., Vuppalapaty, M., Hoerner, C. R., Bergstrom, C. P., Chiu, M., Lemaire, C., Che, J., Kaur, A., Dimmick, A., Liu, S., Metzner, T. J., Araya, M., Crouse, et al
2024; 24 (1): 482

- **Automated Image Analysis for Characterization of Circulating Tumor Cells and Clusters Sorted by Magnetic Levitation.** *Advanced biology*
  Ogut, M. G., Ma, P., Gupta, R., Hoerner, C. R., Fan, A. C., El-Kaffas, A. N., Durmus, N. G.
  2023: e2300109

- **Recurrent repeat expansions in human cancer genomes.** *Nature*
  Erwin, G. S., Gursoy, G., Al-Abri, R., Suriyaprakash, A., Dolzhenko, E., Zhu, K., Hoerner, C. R., White, S. M., Ramirez, L., Vadlakonda, A., Vadlakonda, A., von Kraut, K., Park, et al
  2022

- **Clinical laboratory tests associated with survival in patients with metastatic renal cell carcinoma: A Laboratory Wide Association Study (LWAS).** *Urologic oncology*
  Velaer, K., Thomas, I. C., Yang, J., Kapphahn, K., Metzner, T. J., Golla, A., Hoerner, C. R., Fan, A. C., Master, V., Chertow, G. M., Brooks, J. D., Patel, C. J., Desai, et al
  2021

- **The 'Achilles Heel' of Metabolism in Renal Cell Carcinoma: Glutaminase Inhibition as a Rational Treatment Strategy.** *Kidney cancer*
  Hoerner, C. R., Chen, V. J., Fan, A. C.
  2019; 3 (1): 15–29

- **Time on Therapy for at Least Three Months Correlates with Overall Survival in Metastatic Renal Cell Carcinoma.** *Cancers*
  Chen, V. J., Hernandez-Meza, G. n., Agrawal, P. n., Zhang, C. A., Xie, L. n., Gong, C. L., Hoerner, C. R., Srinivas, S. n., Oermann, E. K., Fan, A. C.
  2019; 11 (7)

- **Multiregion Quantification of Extracellular Signal-regulated Kinase Activity in Renal Cell Carcinoma.** *European urology oncology*
  Hoerner, C. R., Massoudi, R., Metzner, T. J., Stell, L., O'Rourke, J. J., Kong, C. S., Liliental, J. E., Brooks, J. D., Sabatti, C., Leppert, J. T., Fan, A. C.
  2018

- **Monitoring Neutropenia for Cancer Patients at the Point of Care.** *Small methods*
  Inan, H., Kingsley, J. L., Ozen, M. O., Tekin, H. C., Hoerner, C. R., Imae, Y., Metzner, T. J., Preiss, J. S., Durmus, N. G., Ozsoz, M., Wakelee, H., Fan, A. C., Tüzel, et al
  2017; 1 (9)

- **Centriole triplet microtubules are required for stable centriole formation and inheritance in human cells.** *eLife*
  Wang, J. T., Kong, D. n., Hoerner, C. R., Loncarek, J. n., Stearns, T. n.
  2017; 6

- **Spatial constraints control cell proliferation in tissues** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Streichan, S. J., Hoerner, C. R., Schneidt, T., Holzer, D., Hufnagel, L.
  2014; 111 (15): 5586-5591

- **Remembrance of cilia past.** *Cell*
  Hoerner, C., Stearns, T.
  2013; 155 (2): 271-273

- **Quantitative image analysis identifies pVHL as a key regulator of microtubule dynamic instability** *JOURNAL OF CELL BIOLOGY*
  Thoma, C. R., Matov, A., Gutbrodt, K. L., Hoerner, C. R., Smole, Z., Krek, W., Danuser, G.
  2010; 190 (6): 991-1003

- **pVHL and GSK3 beta are components of a primary cilium-maintenance signalling network** *NATURE CELL BIOLOGY*
  Thoma, C. R., Frew, I. J., Hoerner, C. R., Montani, M., Moch, H., Krek, W.
  2007; 9 (5): 588-U191

- **Targeting Metabolic Pathways in Kidney Cancer: Rationale and Therapeutic Opportunities.** *Cancer journal (Sudbury, Mass.)*
  Hoerner, C. R., Miao, S. Y., Hsieh, J. J., Fan, A. C.
  ; 26 (5): 407–18