Stanford

Aditi Khatpe

Postdoctoral Scholar, Pathology

Bio

BIO

As a Postdoctoral Fellow, I study breast cancer progression and invasion. My research leverages high-dimensional spatial technologies to map cellular architecture and uncover how tumor–stroma interactions influence disease progression. Ultimately, my goal is to translate these insights into strategies that improve diagnosis and treatment.

PROFESSIONAL EDUCATION

- B.Sc., University of Pune (2013)
- M.Sc., University of Pune (2015)
- Ph.D., Indiana University, School of Medicine (2024)

STANFORD ADVISORS

- Robert West, Postdoctoral Faculty Sponsor

Research & Scholarship

RESEARCH INTERESTS

- Data Sciences
- Research Methods
- Technology and Education

Publications

PUBLICATIONS

- **Role of matrix viscoelasticity in basement membrane invasion in breast cancer**
  Alyafei, N. K., Khatpe, A. S., West, R., Chaudhuri, O.
  CELL PRESS.2026

- **Author Correction: Single-nucleus chromatin accessibility and transcriptomic map of breast tissues of women of diverse genetic ancestry.** *Nature medicine*
  Bhat-Nakshatri, P., Gao, H., Khatpe, A. S., Adebayo, A. K., McGuire, P. C., Erdogan, C., Chen, D., Jiang, G., New, F., German, R., Emmert, L., Sandusky, G., Storniolo, et al
  2025; 31 (5): 1714

- **Single-nucleus chromatin accessibility and transcriptomic map of breast tissues of women of diverse genetic ancestry.** *Nature medicine*
  Bhat-Nakshatri, P., Gao, H., Khatpe, A. S., Adebayo, A. K., McGuire, P. C., Erdogan, C., Chen, D., Jiang, G., New, F., German, R., Emmert, L., Sandusky, G., Storniolo, et al

2024; 30 (12): 3482-3494

- **ETV6 is an unexplored partner of the Chr.8 q24.3 amplicon- embedded immortalizing oncogene TONSL in tumorigenesis**
  Khatpe, A. S., Doud, E., Mosely, A., Miller, K. D., Nakshatri, H.
  AMER ASSOC CANCER RESEARCH.2024

- **Signaling Pathway Alterations Driven by BRCA1 and BRCA2 Germline Mutations are Sufficient to Initiate Breast Tumorigenesis by the PIK3CAH1047R Oncogene.** *Cancer research communications*
  Bhat-Nakshatri, P., Khatpe, A. S., Chen, D., Batic, K., Mang, H., Herodotou, C., McGuire, P. C., Xuei, X., Erdogan, C., Gao, H., Liu, Y., Sandusky, G., Storniolo, et al
  2024; 4 (1): 38-54

- **Stromal heterogeneity may explain increased incidence of metaplastic breast cancer in women of African descent.** *Nature communications*
  Kumar, B., Khatpe, A. S., Guanglong, J., Batic, K., Bhat-Nakshatri, P., Granatir, M. M., Addison, R. J., Szymanski, M., Baldridge, L. A., Temm, C. J., Sandusky, G., Althouse, S. K., Cote, et al
  2023; 14 (1): 5683

- **TONSL Is an Immortalizing Oncogene and a Therapeutic Target in Breast Cancer.** *Cancer research*
  Khatpe, A. S., Dirks, R., Bhat-Nakshatri, P., Mang, H., Batic, K., Swiezy, S., Olson, J., Rao, X., Wang, Y., Tanaka, H., Liu, S., Wan, J., Chen, et al
  2023; 83 (8): 1345-1360

- **TONSL is an immortalizing oncogene of the chromosome 8q24.3 amplicon and new therapeutic target in breast cancer**
  Khatpe, A. S., Dirks, R., Bhat-Nakshatri, P., Mang, H., Batic, K., Swiezy, S., Olson, J., Rao, X., Wang, Y., Tanaka, H., Liu, S., Wan, J., Chen, et al
  AMER ASSOC CANCER RESEARCH.2023

- **Nexus between PI3K/AKT and Estrogen Receptor Signaling in Breast Cancer.** *Cancers*
  Khatpe, A. S., Adebayo, A. K., Herodotou, C. A., Kumar, B., Nakshatri, H.
  2021; 13 (3)