



Kevin Nee, MD, PhD

- Affiliate, Department Funds
- Resident in Surgery

Bio

BIO

Dr. Nee is a general surgery resident at Stanford, Department of Surgery. He completed his MD/PhD training at UC Irvine: School of Medicine in the Medical Scientist Training Program. His dissertation research focused on defining pericytes, fibroblasts, and adipocytes in breast cancer using single-cell RNA sequencing.

CLINICAL FOCUS

- Residency

HONORS AND AWARDS

- National Research Service Award MD/PhD Fellowship (F30), National Institutes of Health: National Cancer Institute (2019-2024)
- Achievement Rewards for College Scientists, Achievement Rewards for College Scientists Foundation (2020-2022)
- Opportunity Award, UC, Irvine: Center for Complex Biological Systems (2018-2019)
- Travel Scholarship, Keystone Symposia on Molecular and Cellular Biology (2022)

Publications

PUBLICATIONS

- **Colorectal Cancer Stem Cell Subtypes Orchestrate Distinct Tumor Microenvironments.** *bioRxiv : the preprint server for biology*
Hosohama, L., Tifrea, D. F., Nee, K., Park, S. Y., Wu, J., Habowski, A. N., Van, C., Seldin, M. M., Edwards, R. A., Waterman, M. L.
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- **Targeting tumor-stromal interactions in triple-negative breast cancer using a human vascularized micro-tumor model.** *Breast cancer research : BCR*
Hachey, S. J., Hatch, C. J., Gaebler, D., Mocherla, A., Nee, K., Kessenbrock, K., Hughes, C. C.
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- **A spatially resolved single-cell genomic atlas of the adult human breast.** *Nature*
Kumar, T., Nee, K., Wei, R., He, S., Nguyen, Q. H., Bai, S., Blake, K., Pein, M., Gong, Y., Sei, E., Hu, M., Casasent, A. K., Thennavan, et al
2023; 620 (7972): 181-191
- **Preneoplastic stromal cells promote BRCA1-mediated breast tumorigenesis** *NATURE GENETICS*
Nee, K., Ma, D., Nguyen, Q. H., Pein, M., Pervolarakis, N., Insua-Rodriguez, J., Gong, Y., Hernandez, G., Alshetaiwi, H., Williams, J., Rauf, M., Dave, K., Boyapati, et al
2023: 595-606
- **An in vitro vascularized micro-tumor model of human colorectal cancer recapitulates in vivo responses to standard-of-care therapy.** *Lab on a chip*

- Hachey, S. J., Movsesyan, S., Nguyen, Q. H., Burton-Sojo, G., Tankazyan, A., Wu, J., Hoang, T., Zhao, D., Wang, S., Hatch, M. M., Celaya, E., Gomez, S., Chen, et al
2021; 21 (7): 1333-1351
- **Defining the emergence of myeloid-derived suppressor cells in breast cancer using single-cell transcriptomics.** *Science immunology*
Alshetaiwi, H., Pervolarakis, N., McIntyre, L. L., Ma, D., Nguyen, Q., Rath, J. A., Nee, K., Hernandez, G., Evans, K., Torosian, L., Silva, A., Walsh, C., Kessenbrock, et al
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 - **Experimental Considerations for Single-Cell RNA Sequencing Approaches.** *Frontiers in cell and developmental biology*
Nguyen, Q. H., Pervolarakis, N., Nee, K., Kessenbrock, K.
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 - **PGC Reversion to Pluripotency Involves Erasure of DNA Methylation from Imprinting Control Centers followed by Locus-Specific Re-methylation.** *Stem cell reports*
Oliveros-Etter, M., Li, Z., Nee, K., Hosohama, L., Hargan-Calvopina, J., Lee, S. A., Joti, P., Yu, J., Clark, A. T.
2015; 5 (3): 337-49
 - **The Aorta-Gonad-Mesonephros Organ Culture Recapitulates 5hmC Reorganization and Replication-Dependent and Independent Loss of DNA Methylation in the Germline.** *Stem cells and development*
Calvopina, J. H., Cook, H., Vincent, J. J., Nee, K., Clark, A. T.
2015; 24 (13): 1536-45
 - **In vivo targeting of de novo DNA methylation by histone modifications in yeast and mouse.** *eLife*
Morselli, M., Pastor, W. A., Montanini, B., Nee, K., Ferrari, R., Fu, K., Bonora, G., Rubbi, L., Clark, A. T., Ottonello, S., Jacobsen, S. E., Pellegrini, M.
2015; 4: e06205
 - **The Sm protein methyltransferase PRMT5 is not required for primordial germ cell specification in mice.** *The EMBO journal*
Li, Z., Yu, J., Hosohama, L., Nee, K., Gkoutela, S., Chaudhari, S., Cass, A. A., Xiao, X., Clark, A. T.
2015; 34 (6): 748-58
 - **MORC1 represses transposable elements in the mouse male germline.** *Nature communications*
Pastor, W. A., Stroud, H., Nee, K., Liu, W., Pezic, D., Manakov, S., Lee, S. A., Moissiard, G., Zamudio, N., Bourc'his, D., Aravin, A. A., Clark, A. T., Jacobsen, et al
2014; 5: 5795
 - **Stage-specific roles for tet1 and tet2 in DNA demethylation in primordial germ cells.** *Cell stem cell*
Vincent, J. J., Huang, Y., Chen, P. Y., Feng, S., Calvopina, J. H., Nee, K., Lee, S. A., Le, T., Yoon, A. J., Faull, K., Fan, G., Rao, A., Jacobsen, et al
2013; 12 (4): 470-8