



Carolyn Lee MD PhD

Assistant Professor of Dermatology

CLINICAL OFFICE (PRIMARY)

- **VA Palo Alto Health Care System Dept of Dermatology**
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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**
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Bio

BIO

A native of Queens, New York, Dr. Carolyn Lee joined the Stanford Dermatology faculty in February of 2016 as a specialist in the management of patients at a high risk for developing skin cancer. This year, she has been a featured presenter at both the Society for Investigative Dermatology Annual Meeting and the Gordon Research Conference on Epithelial Differentiation and Keratinization. Dr. Lee graduated with honors from Yale University in 1998 with a BS in Biology and received her MD and PhD from Georgetown University with a specialty in tumor biology in 2006. She completed her Dermatology residency at Stanford in 2010 and a Postdoctoral Fellowship in epithelial biology in the lab of Dr. Paul Khavari in December of 2015. Dr. Lee possesses a strong interest in understanding the mechanisms of high-risk non-melanoma skin cancer and is currently a member of Stanford's High-Risk Non-Melanoma Skin Cancer Working Group.

CLINICAL FOCUS

- Dermatology
- General Dermatology
- Skin cancer
- Cutaneous oncology
- Transplant Dermatology
- Squamous cell carcinoma
- Basal Cell Carcinoma

ACADEMIC APPOINTMENTS

- Assistant Professor, Dermatology
- Member, Bio-X
- Member, Stanford Cancer Institute

HONORS AND AWARDS

- Academic Research Award, Women's Dermatologic Society (2009)
- F32 Ruth L. Kirschstein National Research Service Award, National Institutes of Health (2010-2013)

- K08 Mentored Clinical Scientist Development Award, National Institutes of Health (2013-2018)
- Research Grant, Dermatology Foundation (2016)
- Kimmel Scholar Award, Sidney Kimmel Foundation (2017-2019)
- Milstein Research Scholar Award in Melanoma/Non-Melanoma Skin Cancer, American Skin Association (2018)
- Clinical Scientist Development Award, Doris Duke Charitable Foundation (2018-2021)
- SPARK Project Grant, SPARK Translational Research Program at Stanford (2019-2021)
- Scholar-Innovator Award, Harrington Discovery Institute (2022-2024)
- Award for Excellence, SPARK Translational Research Program at Stanford (2023)

PROFESSIONAL EDUCATION

- Medical Education: Georgetown University School of Medicine (2006) DC
- Internship: Saint Joseph Mercy Ann Arbor Transitional Year (2007) MI
- Residency: Stanford University Dermatology Residency (2010) CA
- Board Certification: Dermatology, American Board of Dermatology (2010)
- Bachelor of Science, Yale University, Biology, CT (1998)

LINKS

- Lee Lab: <http://leelab.stanford.edu>

Research & Scholarship

CLINICAL TRIALS

- Analysis of Cutaneous and Hematologic Disorders by High-Throughput Nucleic Acid Sequencing, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)

Publications

PUBLICATIONS

- **Gene expression landscape of cutaneous squamous cell carcinoma progression.** *The British journal of dermatology*
Bencomo, T., Lee, C. S.
2024
- **Unravelling the landscape of skin cancer through single-cell transcriptomics.** *Translational oncology*
Srivastava, A., Bencomo, T., Das, I., Lee, C. S.
2022; 27: 101557
- **MAB21L4 deficiency drives squamous cell carcinoma via activation of RET.** *Cancer research*
Srivastava, A., Tommasi, C., Sessions, D., Mah, A., Bencomo, T., Garcia, J. M., Jiang, T., Lee, M., Shen, J. Y., Seow, L. W., Nguyen, A., Rajapakshe, K., Coarfa, et al
2022
- **Recurrent bilateral cutaneous squamous cell carcinoma arising within pretibial hypertrophic lichen planus with metastasis while on cemiplimab** *Journal of the American Academy of Dermatology Case Reports*
Leeolou, M., Burgren, N., Lee, C., Momeni, A., Pinto, H., Johannet, P., Nord, K., Chang, A. S.
2022

- **Mutant collagen COL11A1 enhances cancerous invasion.** *Oncogene*
Lee, C. S., Siprashvili, Z., Mah, A., Bencomo, T., Elcavage, L. E., Che, Y., Shenoy, R. M., Aasi, S. Z., Khavari, P. A.
2021
- **Molecular Profiling of Cutaneous C-Group Non-Langerhans Cell Histiocytoses**
Wieland, R., Bencomo, T., Lee, C., Brown, R.
SPRINGERNATURE.2021: 319
- **Molecular Profiling of Cutaneous C-Group Non-Langerhans Cell Histiocytoses**
Wieland, R., Bencomo, T., Lee, C., Brown, R.
SPRINGERNATURE.2021: 319
- **PD-L1 Expression and Tumor-Infiltrating Lymphocytes in High-Risk and Metastatic Cutaneous Squamous Cell Carcinoma** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Amoils, M., Kim, J., Lee, C., Sunwoo, J. B., Colevas, A., Aasi, S. Z., Hollmig, S., Ma, Y., Divi, V.
2019; 160 (1): 93–99
- **PD-L1 Expression and Tumor-Infiltrating Lymphocytes in High-Risk and Metastatic Cutaneous Squamous Cell Carcinoma.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Amoils, M., Kim, J., Lee, C., Sunwoo, J. B., Colevas, A. D., Aasi, S. Z., Hollmig, S. T., Ma, Y., Divi, A. V.
2018: 194599818788057
- **Cancer-Associated Long Noncoding RNA SMRT-2 Controls Epidermal Differentiation** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Lee, C. S., Mah, A., Aros, C. J., Lopez-Pajares, V., Bhaduri, A., Webster, D. E., Kretz, M., Khavari, P. A.
2018; 138 (6): 1445–49
- **Node-positive cutaneous squamous cell carcinoma of the head and neck: Survival, high-risk features, and adjuvant chemoradiotherapy outcomes.** *Head & neck*
Amoils, M., Lee, C. S., Sunwoo, J., Aasi, S. Z., Hara, W., Kim, J., Sirjani, D., Colevas, A. D., Chang, A. L., Divi, V.
2017
- **Factors That May Promote an Effective Local Research Environment** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Wang, K., Lee, C. S., Marinkovich, M., Chang, H. Y., Oro, A. E., Khavari, P. A.
2016; 136 (8): 1529–31
- **Skin Cancer Prevention and Treatment in Solid Organ Transplant Patients: A Survey of the International Transplant Skin Cancer Collaborative.** *Dermatologic surgery*
Wang, A., Chan, A., Aasi, S., Lee, C., Krathen, M.
2016; 42 (5): 682-683
- **Mutations in the Kinetochores Gene KNSTRN in Basal Cell Carcinoma.** *journal of investigative dermatology*
Jaju, P. D., Nguyen, C. B., Mah, A. M., Atwood, S. X., Li, J., Zia, A., Chang, A. L., Oro, A. E., Tang, J. Y., Lee, C. S., Sarin, K. Y.
2015; 135 (12): 3197-3200
- **Genomic analysis of mycosis fungoides and Sézary syndrome identifies recurrent alterations in TNFR2.** *Nature genetics*
Ungewickell, A., Bhaduri, A., Rios, E., Reuter, J., Lee, C. S., Mah, A., Zehnder, A., Ohgami, R., Kulkarni, S., Armstrong, R., Weng, W., Gratzinger, D., Tavallae, et al
2015; 47 (9): 1056-1060
- **Genomic analysis of mycosis fungoides and Sezary syndrome identifies recurrent alterations in TNFR2** *NATURE GENETICS*
Ungewickell, A., Bhaduri, A., Rios, E., Reuter, J., Lee, C. S., Mah, A., Zehnder, A., Ohgami, R., Kulkarni, S., Armstrong, R., Weng, W., Gratzinger, D., Tavallae, et al
2015; 47 (9): 1056-?
- **Recurrent point mutations in the kinetochores gene KNSTRN in cutaneous squamous cell carcinoma** *NATURE GENETICS*
Lee, C. S., Bhaduri, A., Mah, A., Johnson, W. L., Ungewickell, A., Aros, C. J., Nguyen, C. B., Rios, E. J., Siprashvili, Z., Straight, A., Kim, J., Aasi, S. Z., Khavari, et al
2014; 46 (10): 1060-1062
- **Recurrent point mutations in the kinetochores gene KNSTRN in cutaneous squamous cell carcinoma.** *Nature genetics*

Lee, C. S., Bhaduri, A., Mah, A., Johnson, W. L., Ungewickell, A., Aros, C. J., Nguyen, C. B., Rios, E. J., Siprashvili, Z., Straight, A., Kim, J., Aasi, S. Z., Khavari, et al
2014; 46 (10): 1060-1062

- **Control of somatic tissue differentiation by the long non-coding RNA TINCR.** *Nature*
Kretz, M., Siprashvili, Z., Chu, C., Webster, D. E., Zehnder, A., Qu, K., Lee, C. S., Flockhart, R. J., Groff, A. F., Chow, J., Johnston, D., Kim, G. E., Spitale, et al
2013; 493 (7431): 231-235
- **Control of somatic tissue differentiation by the long non-coding RNA TINCR** *NATURE*
Kretz, M., Siprashvili, Z., Chu, C., Webster, D. E., Zehnder, A., Qu, K., Lee, C. S., Flockhart, R. J., Groff, A. F., Chow, J., Johnston, D., Kim, G. E., Spitale, et al
2013; 493 (7431): 231-U245
- **Transcriptome sequencing in Sezary syndrome identifies Sezary cell and mycosis fungoides-associated lncRNAs and novel transcripts** *BLOOD*
Lee, C. S., Ungewickell, A., Bhaduri, A., Qu, K., Webster, D. E., Armstrong, R., Weng, W., Aros, C. J., Mah, A., Chen, R. O., Lin, M., Sundram, U., Chang, et al
2012; 120 (16): 3288-3297
- **Rapid identification of non-human sequences in high-throughput sequencing datasets** *BIOINFORMATICS*
Bhaduri, A., Qu, K., Lee, C. S., Ungewickell, A., Khavari, P. A.
2012; 28 (8): 1174-1175
- **Suppression of progenitor differentiation requires the long noncoding RNA ANCR** *GENES & DEVELOPMENT*
Kretz, M., Webster, D. E., Flockhart, R. J., Lee, C. S., Zehnder, A., Lopez-Pajares, V., Qu, K., Zheng, G. X., Chow, J., Kim, G. E., Rinn, J. L., Chang, H. Y., Siprashvili, et al
2012; 26 (4): 338-343
- **Adoption of Western Culture by Californian Asian Americans Attitudes and Practices Promoting Sun Exposure** *International Investigative Dermatology Meeting*
Gorell, E., Lee, C., Munoz, C., Chang, A. L.
AMER MEDICAL ASSOC.2009: 552-56
- **Expression of cyclooxygenase-2 and peroxisome proliferator-activated receptor gamma during malignant melanoma progression** *JOURNAL OF CUTANEOUS PATHOLOGY*
Lee, C., Ramirez, J. A., Guitart, J., Diaz, L. K.
2008; 35 (11): 989-994