

# Stanford

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## John B. Sunwoo, MD

Edward C. and Amy H. Sewall Professor in the School of Medicine and Professor, by courtesy, of Dermatology

Otolaryngology (Head and Neck Surgery)

### CLINICAL OFFICE (PRIMARY)

- Otolaryngology Head and Neck Surgery

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### ACADEMIC CONTACT INFORMATION

- Interim Administrative Support

Tausha Richardson - Administrative Associate

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## Bio

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### BIO

Dr. Sunwoo was born and raised in St. Louis, Missouri. He received his undergraduate degree from Brown University in Providence, Rhode Island and his medical degree from Washington University in St. Louis, Missouri. He completed his training in Otolaryngology – Head and Neck Surgery at Washington University. Dr. Sunwoo has been at Stanford University since 2008, and his clinical focus is on the surgical management of head and neck cancer, specifically focusing on melanoma and neoplasms of the thyroid and parathyroid glands. He is a member of the Pigmented Lesions and Melanoma Clinic and the Melanoma Working Group at Stanford. He is also the co-founder of the Stanford Thyroid and Parathyroid Tumor Board.

In addition to his clinical work, Dr. Sunwoo is the Director of Head and Neck Cancer Research at Stanford University and the principal investigator of an NIH-funded laboratory in the Stanford Cancer Institute. His research is focused on three primary areas: (1) the immune response to cancer, particularly a tumorigenic population of cells within malignancies called cancer stem cells; (2) the biology and developmental programs of a special lymphocyte population involved in innate immunity called natural killer (NK) cells; and (3) intra-tumor and inter-tumor heterogeneity in head and neck cancer.

### CLINICAL FOCUS

- Cancer > Cutaneous (Dermatologic) Oncology
- Cancer > Head and Neck Cancer
- Melanoma
- Thyroid Neoplasms
- Parathyroid Neoplasms
- Merkel Cell Carcinoma
- Tongue Neoplasms
- Otolaryngology - Head & Neck Surgery (Ear, Nose and Throat)
- Thyroid Nodule
- Parotid Neoplasms

- Cancer of the Salivary Gland
- Otolaryngology/Facial Plastic Surgery

## ACADEMIC APPOINTMENTS

- Professor, Otolaryngology (Head and Neck Surgery)
- Professor (By courtesy), Dermatology
- Member, Bio-X
- Member, Stanford Cancer Institute

## ADMINISTRATIVE APPOINTMENTS

- Associate Dean for Academic Affairs (UTL), Stanford University School of Medicine, (2019- present)
- Leader, Head and Neck Cancer Service Line (CCP), Stanford Cancer Institute, (2017- present)
- Director of Head and Neck Cancer Research, Stanford University School of Medicine, Dept. of Otolaryngology, (2013- present)

## HONORS AND AWARDS

- R35 Outstanding Investigator Award, NIH (2020)
- Top Doctors, Castle Connolly (2013 - present)
- Faculty Teacher of the Year, Dept. of Otolaryngology, Stanford University (2012)
- Best Doctors in America, Best Doctors, Inc. (2009-present)
- K08 Award, National Institutes of Health (2004)
- Alpha Omega Alpha, Washington University (2003)
- Chief Resident Teaching Award, Washington University (2003)
- Young Investigator Award, American Head and Neck Society (2000)
- Resident Research Award, Washington University (1997, 1999, 2000)
- Louis and Dorothy Kovitz Prize in Surgery, Washington University (1993)
- Sigma Xi, Brown University (1989)

## PROFESSIONAL EDUCATION

- Residency: Washington University School Of Medicine Registrar (2003) MO
- Medical Education: Washington University School Of Medicine Registrar (1993) MO
- Postdoc Research Fellowship, Washington University , Immunology (2008)
- Board Certification: Otolaryngology, American Board of Otolaryngology (2004)
- Fellowship: National Institutes of Health (2000) MD
- M.D., Washington University , Medicine (1993)
- Sc.B., Brown University , Biochemistry (1989)

## LINKS

- Sunwoo Lab: <http://sunwoolab.stanford.edu>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My laboratory is focused on two primary areas of research: (1) the immune response to head and neck cancer and to a tumorigenic population of cells within these malignancies called cancer stem cells; (2) the developmental programs of a special lymphocyte population involved in innate immunity called natural killer (NK) cells; and (3) intra-tumor and inter-tumor heterogeneity.

The overarching goal of my laboratory is to understand how NK cells, in the broader context of the host immune system, protect against developing and metastasizing tumor cells, especially a rare population of tumor-initiating cells called cancer stem cells. These tumorigenic cells have been isolated from a number of solid tumor malignancies, including human head and neck cancer. Heterogeneity of immune potency between individuals with these malignancies is well accepted but poorly understood. The work in my laboratory will address the questions of how and why the immune system can respond to and control malignant cells in some contexts but not in others. Clarity of the underlying basis for these differences would potentially explain why certain individuals are more susceptible to cancer, lead to better screening strategies, and ultimately provide much needed insight into how the host immune system can be manipulated to control cancer.

### CLINICAL TRIALS

- Identification and Characterization of Novel Proteins and Genes in Head and Neck Cancer, Recruiting
- Identification of Secreted Markers for Tumor Hypoxia in Patients With Head and Neck or Lung Cancers, Recruiting
- Cetuximab IRDye800 Study as an Optical Imaging Agent to Detect Cancer During Surgical Procedures, Not Recruiting
- Imaging and Biomarkers of Hypoxia in Solid Tumors, Not Recruiting
- Multispectral Imaging to Characterize Patterns of Vascular Supply Within Lymphoepithelial Mucosa in Oropharyngeal Cancer, Not Recruiting
- Panitumumab IRDye800 Optical Imaging Study, Not Recruiting
- Study to Evaluate Immunological Response to PD-1 Inhibition in Squamous Cell Carcinoma of the Head and Neck (SCCHN), Not Recruiting
- Talactoferrin in Treating Patients With Relapsed or Refractory Non-Small Cell Lung Cancer or Squamous Cell Head and Neck Cancer, Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Leslie Chan, Maddie Lee

#### Postdoctoral Faculty Sponsor

Xinyuan Liu, Imran Mohammad, Alistaire Ruggiero Sherman

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)
- Cancer Biology (Phd Program)
- Immunology (Phd Program)

## Publications

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### PUBLICATIONS

- Targeting KDM2A Enhances T Cell Infiltration in NSD1-Deficient Head and Neck Squamous Cell Carcinoma. *Cancer research*  
Chen, C., Shin, J. H., Fang, Z., Brennan, K., Horowitz, N. B., Pfaff, K. L., Welsh, E. L., Rodig, S. J., Gevaert, O., Gozani, O., Uppaluri, R., Sunwoo, J. B.  
2023

- **7-UP: Generating in silico CODEX from a small set of immunofluorescence markers.** *PNAS nexus*  
Wu, E., Trevino, A. E., Wu, Z., Swanson, K., Kim, H. J., D'Angio, H. B., Preska, R., Chiou, A. E., Charville, G. W., Dalerba, P., Duvvuri, U., Colevas, A. D., Levi, et al  
2023; 2 (6): pgad171
- **Identification of cell types in multiplexed in situ images by combining protein expression and spatial information using CELESTA.** *Nature methods*  
Zhang, W., Li, I., Reticker-Flynn, N. E., Good, Z., Chang, S., Samusik, N., Saumyaa, S., Li, Y., Zhou, X., Liang, R., Kong, C. S., Le, Q., Gentles, et al  
2022
- **Emerging NK cell therapies for cancer and the promise of next generation engineering of iPSC-derived NK cells.** *Journal for immunotherapy of cancer*  
Maddineni, S., Silberstein, J. L., Sunwoo, J. B.  
2022; 10 (5)
- **Lymph node colonization induces tumor-immune tolerance to promote distant metastasis.** *Cell*  
Reticker-Flynn, N. E., Zhang, W., Belk, J. A., Basto, P. A., Escalante, N. K., Pilarowski, G. O., Bejnood, A., Martins, M. M., Kenkel, J. A., Linde, I. L., Bagchi, S., Yuan, R., Chang, et al  
2022
- **The microdissected gene expression landscape of nasopharyngeal cancer reveals vulnerabilities in FGF and noncanonical NF-#B signaling.** *Science advances*  
Tay, J. K., Zhu, C., Shin, J. H., Zhu, S. X., Varma, S., Foley, J. W., Vennam, S., Yip, Y. L., Goh, C. K., Wang, D. Y., Loh, K. S., Tsao, S. W., Le, et al  
2022; 8 (14): eabh2445
- **NSD1 mutations deregulate transcription and DNA methylation of bivalent developmental genes in Sotos syndrome.** *Human molecular genetics*  
Brennan, K., Zheng, H., Fahrner, J. A., Shin, J. H., Gentles, A. J., Schaefer, B., Sunwoo, J. B., Bernstein, J. A., Gevaert, O.  
2022
- **High-resolution positron emission microscopy of patient-derived tumor organoids.** *Nature communications*  
Khan, S., Shin, J. H., Ferri, V., Cheng, N., Noel, J. E., Kuo, C., Sunwoo, J. B., Pratx, G.  
2021; 12 (1): 5883
- **Chromatin accessibility associates with protein-RNA correlation in human cancer.** *Nature communications*  
Sanghi, A., Gruber, J. J., Metwally, A., Jiang, L., Reynolds, W., Sunwoo, J., Orloff, L., Chang, H. Y., Kasowski, M., Snyder, M. P.  
2021; 12 (1): 5732
- **Landscape of innate lymphoid cells in human head and neck cancer reveals divergent NK cell states in the tumor microenvironment.** *Proceedings of the National Academy of Sciences of the United States of America*  
Moreno-Nieves, U. Y., Tay, J. K., Saumyaa, S., Horowitz, N. B., Shin, J. H., Mohammad, I. A., Luca, B., Mundy, D. C., Gulati, G. S., Bedi, N., Chang, S., Chen, C., Kaplan, et al  
2021; 118 (28)
- **AHR Regulates NK Cell Migration via ASB2-Mediated Ubiquitination of Filamin A.** *Frontiers in immunology*  
Shin, J. H., Moreno-Nieves, U. Y., Zhang, L. H., Chen, C., Dixon, A. L., Linde, M. H., Mace, E. M., Sunwoo, J. B.  
2021; 12: 624284
- **Humanized Mouse Models for the Advancement of Innate Lymphoid Cell-Based Cancer Immunotherapies.** *Frontiers in immunology*  
Horowitz, N. B., Mohammad, I., Moreno-Nieves, U. Y., Koliesnik, I., Tran, Q., Sunwoo, J. B.  
2021; 12: 648580
- **Malignant cell-specific CXCL14 promotes tumor lymphocyte infiltration in oral cavity squamous cell carcinoma.** *Journal for immunotherapy of cancer*  
Parikh, A., Shin, J., Faquin, W., Lin, D. T., Tirosh, I., Sunwoo, J. B., Puram, S. V.  
2020; 8 (2)
- **Organoid Modeling of the Tumor Immune Microenvironment.** *Cell*  
Neal, J. T., Li, X., Zhu, J., Giangarra, V., Grzeskowiak, C. L., Ju, J., Liu, I. H., Chiou, S., Salahudeen, A. A., Smith, A. R., Deutsch, B. C., Liao, L., Zemek, et al  
2018; 175 (7): 1972
- **The aryl hydrocarbon receptor modulates the function of human CD56bright NK cells.** *European journal of immunology*  
Moreno-Nieves, U. Y., Mundy, D. C., Shin, J. H., Tam, K. n., Sunwoo, J. B.  
2018

- **NSD1 inactivation defines an immune cold, DNA hypomethylated subtype in squamous cell carcinoma.** *Scientific reports*  
Brennan, K. n., Shin, J. H., Tay, J. K., Prunello, M. n., Gentles, A. J., Sunwoo, J. B., Gevaert, O. n.  
2017; 7 (1): 17064
- **CD271 Confers an Invasive and Metastatic Phenotype of Head and Neck Squamous Cell Carcinoma Through the Upregulation of Slug.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Chung, M. K., Jung, Y. H., Lee, J. K., Cho, S. Y., Murillo-Sauca, O. J., Uppaluri, R. n., Shin, J. H., Sunwoo, J. B.  
2017
- **The aryl hydrocarbon receptor is required for the maintenance of liver-resident natural killer cells.** *Journal of experimental medicine*  
Zhang, L. H., Shin, J. H., Haggadone, M. D., Sunwoo, J. B.  
2016; 213 (11): 2249-2257
- **CD44+ Cells in Head and Neck Squamous Cell Carcinoma Suppress T-Cell-Mediated Immunity by Selective Constitutive and Inducible Expression of PD-L1.** *Clinical cancer research*  
Lee, Y., Shin, J. H., Longmire, M., Wang, H., Kohrt, H. E., Chang, H. Y., Sunwoo, J. B.  
2016; 22 (14): 3571-3581
- **Modulation of natural killer cell antitumor activity by the aryl hydrocarbon receptor** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Shin, J. H., Zhang, L., Murillo-Sauca, O., Kim, J., Kohrt, H. E., Bui, J. D., Sunwoo, J. B.  
2013; 110 (30): 12391-12396
- **Spatial subsetting enables integrative modeling of oral squamous cell carcinoma multiplex imaging data.** *iScience*  
Einhaus, J., Gaudilliere, D. K., Hedou, J., Feyaerts, D., Ozawa, M. G., Sato, M., Ganio, E. A., Tsai, A. S., Stelzer, I. A., Bruckman, K. C., Amar, J. N., Sabayev, M., Bonham, et al  
2023; 26 (12): 108486
- **T cell-mediated curation and restructuring of tumor tissue coordinates an effective immune response.** *Cell reports*  
Hickey, J. W., Haist, M., Horowitz, N., Caraccio, C., Tan, Y., Rech, A. J., Baertsch, M. A., Rovira-Clavé, X., Zhu, B., Vazquez, G., Barlow, G., Agmon, E., Goltsev, et al  
2023; 42 (12): 113494
- **Integrating Multiplexed Imaging and Multiscale Modeling Identifies Tumor Phenotype Transformation as a Critical Component of Therapeutic T Cell Efficacy.** *bioRxiv : the preprint server for biology*  
Hickey, J. W., Agmon, E., Horowitz, N., Lamore, M., Sunwoo, J., Covert, M., Nolan, G. P.  
2023
- **Loss of p53-DREAM-mediated repression of cell cycle genes as a driver of lymph node metastasis in head and neck cancer.** *Genome medicine*  
Brennan, K., Espin-Perez, A., Chang, S., Bedi, N., Saumyaa, S., Shin, J. H., Plevritis, S. K., Gevaert, O., Sunwoo, J. B., Gentles, A. J.  
2023; 15 (1): 98
- **Toll-like Receptor Agonists Are Unlikely to Provide Benefits in Head and Neck Squamous Cell Carcinoma: A Systematic Review and Meta-Analysis.** *Cancers*  
Maddineni, S., Chen, M., Baik, F., Divi, V., Sunwoo, J. B., Finegersh, A.  
2023; 15 (17)
- **Oral cavity cancer in young, non-smoking, and non-drinking patients: a contemporary review.** *Critical reviews in oncology/hematology*  
Tran, Q., Maddineni, S., Arnaud, E. H., Divi, V., Megwali, U., Topf, M. C., Sunwoo, J. B.  
2023: 104112
- **Racial Disparities in 30-day Readmissions after Surgery for Head and Neck Cancer.** *The Laryngoscope*  
Huang, A. E., Shih, J. J., Sunwoo, J. B., Polлом, E., Taparra, K.  
2023
- **SMYD3 represses tumor-intrinsic interferon response in HPV-negative squamous cell carcinoma of the head and neck.** *Cell reports*  
Nigam, N., Bernard, B., Sevilla, S., Kim, S., Dar, M. S., Tsai, D., Robbins, Y., Burkitt, K., Sievers, C., Allen, C. T., Bennett, R. L., Tettey, T. T., Carter, et al  
2023; 42 (7): 112823
- **Single institution validation of a sentinel lymph node biopsy risk prediction tool for cutaneous melanoma**  
Muralidharan, V., Maddineni, S., Young, L., Sunwoo, J., Baik, F. M., Swetter, S.

ELSEVIER SCIENCE INC.2023: S203

- **Towards multiomic analysis of oral mucosal pathologies.** *Seminars in immunopathology*  
Einhaus, J., Han, X., Feyaerts, D., Sunwoo, J., Gaudilliere, B., Ahmad, S. H., Aghaeepour, N., Bruckman, K., Ojcius, D., Schurch, C. M., Gaudilliere, D. K. 2023
- **NFE2L2 mutations enhance radioresistance in head and neck cancer by modulating intratumoral myeloid cells.** *Cancer research*  
Guan, L., Nambiar, D. K., Cao, H., Viswanathan, V., Kwok, S., Hui, A. B., Hou, Y., Hildebrand, R., von Eyben, R., Holmes, B. J., Zhao, J., Kong, C. S., Wamsley, et al 2023
- **Genomic Immune Evasion: Diagnostic and Therapeutic Opportunities in Head and Neck Squamous Cell Carcinomas.** *Journal of clinical medicine*  
Kirtane, K., St John, M., Fuentes-Bayne, H., Patel, S. P., Mardiros, A., Xu, H., Ng, E. W., Go, W. Y., Wong, D. J., Sunwoo, J. B., Welch, J. S. 2022; 11 (24)
- **BASECAMP-1: LEVERAGING HLA LOSS OF HETEROZYGOSITY IN SOLID TUMORS BY NGS TO IDENTIFY PATIENTS WITH RELAPSED SOLID TUMORS FOR FUTURE CEA AND MSLN LOGIC-GATED TMOD (TM) CAR T-CELL THERAPY**  
Simeone, D., Morelli, M., Hecht, J., Patel, S., Fakih, M., Kirtane, K., Welling, T., Lau, S., Lin, Y., Borad, M., Garon, E., Larson, S., Kato, et al BMJ PUBLISHING GROUP.2022: A670
- **BASECAMP-1: Leveraging human leukocyte antigen (HLA) loss of heterozygosity (LOH) in solid tumors by next-generation sequencing (NGS) to identify patients with relapsed solid tumor for future logic-gated Tmod CAR T-cell therapy**  
Simeone, D. M., Hecht, J., Patel, S., Morelli, M., Kirtane, K., Borad, M. J., Maus, M., Sunwoo, J. B., Welling, T., Lin, Y., Garon, E. B., Kopetz, S., Locke, et al LIPPINCOTT WILLIAMS & WILKINS.2022
- **TUMOR-INFORMED LIQUID BIOPSY MONITORING OF EVOLVING THERAPEUTIC RESISTANCE MECHANISMS IN HEAD AND NECK SQUAMOUS CELL CARCINOMA PATIENTS RECEIVING ANTI-PD-1 THERAPY**  
Abbott, C., Bedi, N., Wang, J., Northcott, J., Pyke, R., Li, R., McDaniel, L., Levy, E., Mansour, M., Colevas, D., Lyle, J., Sunwoo, J., Boyle, et al BMJ PUBLISHING GROUP.2021: A22
- **INTRAEPITHELIAL GROUP 1 INNATE LYMPHOID CELLS GENERATED IN VITRO EXHIBIT ENHANCED CYTOTOXICITY AND INFILTRATION INTO SOLID TUMOROID**  
Horowitz, N., Hickey, J., Sunwoo, J.  
BMJ PUBLISHING GROUP.2021: A193
- **T CELL PHENOTYPE DRIVES RESTRUCTURING OF TUMOR MICROENVIRONMENT TO BALANCE T CELL LONGEVITY AND TUMOR CONTROL: INSIGHTS FROM MULTIPLEXED IMAGING AND MULTI-SCALE AGENT BASED MODELING**  
Hickey, J., Nolan, G., Covert, M., Agmon, E., Horowitz, N., Sunwoo, J.  
BMJ PUBLISHING GROUP.2021: A192
- **AI-ASSISTED WHOLE-BODY ASSESSMENT OF IMMUNOTHERAPY RESPONSE USING [18F]F-ARAG, A PET AGENT FOR ACTIVATED T CELLS**  
Levi, J., Perk, T., Huynh, L., Packiasamy, J., Cheng, S., Sunwoo, J., Colevas, A.  
BMJ PUBLISHING GROUP.2021: A52
- **Pan-cancer survey of HLA loss of heterozygosity using a robustly validated NGS-based machine learning algorithm.**  
Pyke, R., Mellacheruvu, D., Abbott, C., Dea, S., Levy, E., Zhang, S. V., Bedi, N., Colevas, A., Bhave, D., Chinnappa, M., Bartha, G., Lyle, J., West, et al AMER ASSOC CANCER RESEARCH.2021
- **Longitudinal exome-scale liquid biopsy monitoring of evolving therapeutic resistance mechanisms in head and neck squamous cell carcinoma patients receiving anti-PD-1 therapy.**  
Abbott, C. W., Bedi, N., Zhang, S. V., Northcott, J., Li, R., Pyke, R., Levy, E., Chernock, R., Mansour, M., Colevas, A., Lyle, J., Sunwoo, J. B., Boyle, et al AMER ASSOC CANCER RESEARCH.2021
- **Association of HLA loss of heterozygosity with allele-specific neoantigen expansion in response to immunotherapy.**  
Pyke, R., Abbott, C., Dea, S., Bedi, N., Colevas, A., Levy, E., Zhang, S. V., Snyder, M., Mellacheruvu, D., Sunwoo, J. B., Chen, R., Boyle, S.  
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Defining best practices for tissue procurement in immuno-oncology clinical trials: consensus statement from the Society for Immunotherapy of Cancer Surgery Committee.** *Journal for immunotherapy of cancer*  
Gastman, B., Agarwal, P. K., Berger, A., Boland, G., Broderick, S., Butterfield, L. H., Byrd, D., Fecci, P. E., Ferris, R. L., Fong, Y., Goff, S. L., Grabowski, M. M., Ito, et al

2020; 8 (2)

- **Association Between Immunosuppression and Outcomes in Oral Cavity Squamous Cell Carcinoma.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Chang, J., Sunwoo, J. B., Shah, J. L., Hara, W., Hong, J., Colevas, A. D., Divi, V.  
2020: 194599820960146
- **Lymph node colonization promotes distant tumor metastasis through the induction of tumor-specific immunosuppression**  
Reticker-Flynn, N. E., Basto, P. A., Zhang, W., Martins, M. M., Chang, S., Gentles, A. J., Sunwoo, J. B., Plevritis, S. K., Engleman, E. G.  
AMER ASSOC CANCER RESEARCH.2020
- **Sensitive HLA loss of heterozygosity detection reveals allele-specific neoantigen expansion as resistance mechanism to anti-PD-1 therapy**  
Pyke, R., Abbott, C., Mellacheruvu, D., Zhang, S., Bedi, N., Colevas, A., Sunwoo, J., West, J., Chen, R., Boyle, S.  
AMER ASSOC CANCER RESEARCH.2020
- **High-resolution positron emission microscopy of patient-derived tumor organoids.**  
Khan, S., Shin, J., Cheng, N., Kuo, C., Sunwoo, J., Pratx, G.  
AMER ASSOC CANCER RESEARCH.2020: 59
- **Lymph node colonization promotes distant tumor metastasis through the induction of tumor-specific immunosuppression.**  
Reticker-Flynn, N. E., Basto, P. A., Zhang, W., Bejnood, A., Kenkel, J. A., Martins, M. M., Chang, S., Gentles, A. J., Sunwoo, J. B., Plevritis, S. K., Engleman, E. G.  
AMER ASSOC CANCER RESEARCH.2020: 25–26
- **Exome scale liquid biopsy characterization of putative neoantigens and genomic biomarkers pre- and post anti-PD-1 therapy in squamous cell carcinoma of the head and neck.**  
Abbott, C., Bedi, N., Zhang, S., Li, R., Pyke, R., Levy, E., Chernock, R., Mansour, M., Sunwoo, J. B., Colevas, A., Chen, R., Boyle, S.  
AMER SOC CLINICAL ONCOLOGY.2020
- **Plasticity and Polarization of Human NK Cells in the Tumor Microenvironment**  
Nieves, U., Tay, J., Saumya, S., Mundy, D., Sunwoo, J. B.  
AMER ASSOC IMMUNOLOGISTS.2020
- **ERAP2 overexpression is a marker for reduced anti-PD-1 response in nasopharyngeal carcinoma.**  
Tay, J. K., Ma, B. Y., Varma, S., Lim, Y., Tan, C., Lo, K., Sunwoo, J. B., Cullen, K. J., Goh, B., West, R. B.  
AMER ASSOC CANCER RESEARCH.2020: 99
- **Exome scale liquid biopsy monitoring of putative neoantigens and genomic biomarkers in patients on anti-PD-1 therapy in squamous cell carcinoma of the head and neck.**  
Abbott, C. W., Bedi, N., Zhang, S. V., Li, R., Pyke, R., Levy, E., Chernock, R., Mansour, M., Sunwoo, J. B., Colevas, A., Chen, R., Boyle, S. M.  
AMER ASSOC CANCER RESEARCH.2020: 94–95
- **Managing the Head and Neck Cancer Patient with Tracheostomy or Laryngectomy During the COVID-19 Pandemic.** *Head & neck*  
Kligerman, M. P., Vukkadal, N. n., Tsang, R. K., Sunwoo, J. B., Holsinger, F. C., Chan, J. Y., Damrose, E. J., Kearney, A. n., Starmer, H. M.  
2020
- **Application of salivary noncoding microRNAs for the diagnosis of oral cancers.** *Head & neck*  
Deutsch, F. T., Khouri, S. J., Sunwoo, J. B., Elliott, M. S., Tran, N. T.  
2020
- **A Framework for Prioritizing Head and Neck Surgery during the COVID-19 Pandemic.** *Head & neck*  
Topf, M. C., Shenson, J. A., Holsinger, F. C., Wald, S. H., Cianfichi, L. J., Rosenthal, E. L., Sunwoo, J. B.  
2020
- **Lymph node colonization promotes distant tumor metastasis through the induction of systemic immune tolerance**  
Reticker-Flynn, N. E., Martins, M. M., Basto, P. A., Zhang, W., Bejnood, A., Gentles, A. J., Sunwoo, J. B., Plevritis, S. K., Engleman, E. G.  
AMER ASSOC CANCER RESEARCH.2019
- **The Immune Subtypes and Landscape of Squamous Cell Carcinoma** *CLINICAL CANCER RESEARCH*  
Li, B., Cui, Y., Nambiar, D. K., Sunwoo, J. B., Li, R.  
2019; 25 (12): 3528–37

- **Implementation of a targeted HPV educational program in a population with HIV.** *World journal of otorhinolaryngology - head and neck surgery*  
Ayoub, N., Sunwoo, J. B., Starmer, H. M.  
2019; 5 (2): 105–11
- **The immune subtypes and landscape of squamous cell carcinoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Li, B., Cui, Y., Nambiar, D. K., Sunwoo, J. B., Li, R.  
2019
- **Natural Killer Cells and Thyroid Diseases.** *Endocrinology and metabolism (Seoul, Korea)*  
Lee, E. K., Sunwoo, J. B.  
2019; 34 (2): 132–37
- **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
- **Corrigendum to 'Clinical perineural invasion of cutaneous head and neck cancer: Impact of radiotherapy, imaging, and nerve growth factor receptors on symptom control and prognosis'. [Oral Oncol. 85 (2018) 60-67].** *Oral oncology*  
Chen, J. J., Harris, J. P., Kong, C. S., Sunwoo, J. B., Divi, V. n., Horst, K. C., Aasi, S. Z., Hollmig, S. T., Hara, W. Y.  
2019
- **Organoid Modeling of the Tumor Immune Microenvironment** *CELL*  
Neal, J. T., Li, X., Zhu, J., Giangarra, V., Grzeskowiak, C. L., Ju, J., Liu, I. H., Chiou, S., Salahudeen, A. A., Smith, A. R., Deutsch, B. C., Liao, L., Zemek, et al  
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