Stanford



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**

  900 Blake Wilbur Dr

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  Stanford, CA 94305

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ACADEMIC CONTACT INFORMATION

- **Administrative Support**

  Jessica Zielazowski - Administrative Associate

  Email jzielazo@stanford.edu

Bio

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, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Chief, Division of Head & Neck Surgery, Stanford University School of Medicine, (2024- present)
- Interim Chief, Division of Head & Neck Surgery, Stanford University School of Medicine, (2022-2024)
- 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 (2003) MO
- Medical Education: Washington University School Of Medicine (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

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
- Efficacy of Gamma Camera Used Intraoperatively for ID of Sentinel Lymph Nodes w/ Lymphoscintigraphy, Not Recruiting
- Imaging and Biomarkers of Hypoxia in Solid Tumors, Not Recruiting
- Lymph Node Mapping Using Indocyanine Green Solution in Diagnosing Patients With Malignant Melanoma, 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

Teaching

STANFORD ADVISEES

Krishna Sharma

Med Scholar Project Advisor

Beverly Fu, Sabrina Qi

Doctoral Dissertation Reader (AC)

Alyssa Cutter, Anthony François, Mike Tsai, Cameron Walker

Postdoctoral Faculty Sponsor

Xinyuan Liu

Doctoral Dissertation Advisor (AC)

Keene Lee, Amanda Verzosa

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **CD39+CD49a+CD103+ cytotoxic tissue-resident natural killer cells infiltrate and control solid epithelial tumor growth in mice.** *Science translational medicine*

  Horowitz, N. B., Mohammad, I. A., Shin, J. H., Hickey, J. W., Chockley, P., Snyder, G., Chen, C., Lee, K., Sharma, K., Tran, Q., Nejatfard, A., Maddineni, S., Divi, et al

  2026; 18 (848): eadw5567

- **Surfaceome CRISPR activation screening uncovers ligands regulating tumor sensitivity to NK cell killing.** *Nature communications*

  Dinesh, R. K., Wang, X., Mohammad, I. A., Gunasekaran, P., Stiklioraitis, K., Villafuerte, J. R., Rao, A., Hernandez-Lopez, R. A., Sunwoo, J. B., Cong, L.

  2026; 17 (1)

- **Integrin αV-Mediated Spatially Restricted Activation of Autocrine TGF-β1 Programs Cytotoxic Tissue-Resident NK Cell Differentiation**

  Liu, X., Fang, Z., Ruggiero-Sherman, A., Verzosa, A., Shin, J., Sunwoo, J.

  OXFORD UNIV PRESS.2026

- **Antibiotic Use and Immune Checkpoint Inhibition in Head and Neck Squamous Cell Carcinoma.** *Head & neck*

  Wu, S. S., Divi, V., Sunwoo, J. B., Jetly, A., Sun, F., Colevas, A. D., Holsinger, F. C., Lee, J., Finegersh, A., Baik, F., Chen, M. M.

  2026

- **Mitochondrial Imaging Detects Early Cardiac Changes Following Cancer Immunotherapy.** *Clinical cancer research : an official journal of the American Association for Cancer Research*

  Chae, H. D., Shrestha, U., Das, M., Vasanawala, M. S., Behl, D., Davar, D., Srinivas, S., Colevas, A. D., Sunwoo, J. B., Del Mar, N., Pierini, M., Guillen, M., Garcia, et al

  2026

- **Alphavirus replicon expressing IL-12 reprograms tumor-associated macrophages and neutrophils and induces anti-tumor immunity**

  Bowling, F., Ishikawa, M., Nambiar, D., Sastri, J., Ishimoto, K., Tao, F., Takahashi, K., Stepanek, I., Cao, H., Leitner, D., Matsuda, K., Baik, F., Sunwoo, et al

  AMER ASSOC CANCER RESEARCH.2026

- **Denali-1: a seamless phase 1/2 study of A2B395, a logic-gated, allogeneic, Tmod chimeric antigen receptor T-cell (CAR T) therapy, in patients with triple-negative breast cancer and other EGFR-expressing solid tumors with HLA-A*02 loss of heterozygosity (LOH)**

  Specht, J. M., Punekar, S. R., Ulrickson, M., Wong, D. J., Hecht, J. R., Maus, M., Grierson, P. M., Sunwoo, J. B., Molina, J. R., Maloney, D. G., Spencer, K., Bayne, H., Davila, et al

  AMER ASSOC CANCER RESEARCH.2026

- **Cost Comparison of Sentinel Lymph Node Biopsy Versus Elective Neck Dissection in Early-Stage Oral Cavity Squamous Cell Carcinoma.** *Head & neck*

  Wu, S. S., Ayoub, N. F., Chen, M. M., Finegersh, A., Sunwoo, J. B., Holsinger, F. C., Divi, V., Baik, F. M.

  2026

- **Patterns of Influenza Vaccination in Head and Neck Cancer Patients in the United States.** *Laryngoscope investigative otolaryngology*

  Lee, M. Y., Sunwoo, J. B., Chen, M. M.

  2026; 11 (1): e70358

- **Single-cell spatial transcriptomics uncovers niches that govern response to PD-1/PD-L1 blockade in cutaneous squamous cell carcinoma.** *Journal for immunotherapy of cancer*

  Lee, M. Y., Sherman, A. R., Martinez Ramirez, L., Rahman, M., Zdravkovic, S., Shin, J. H., Stepanek, I., Colevas, A. D., Sunwoo, J. B., Divi, V.

  2026; 14 (1)

- **Lymph node colonization induces tissue remodeling via immunosuppressive fibroblast-myeloid cell niches supporting metastatic tolerance.** *Cancer cell*

  Haist, M., Baertsch, M. A., Reticker-Flynn, N. E., Lu, G., Kempchen, T. N., Chu, P., Vazquez, G., Chen, H., Sunwoo, J. B., Zhang, W., Laseinde, E., Adami, B., Zimmer, et al

  2026

- **Correction: Validation of the Melanoma Institute of Australia's Sentinel Lymph Node Biopsy Risk Prediction Tool for Cutaneous Melanoma.** *Annals of surgical oncology*
  Maddineni, S., Dizon, M. P., Muralidharan, V., Young, L. A., Sunwoo, J. B., Baik, F. M., Swetter, S. M.
  2025

- **Surfaceome CRISPR activation screening uncovers ligands regulating tumor sensitivity to NK cell killing.** *bioRxiv : the preprint server for biology*
  Dinesh, R. K., Wang, X., Mohammad, I. A., Gunasekaran, P., Stiklioraitis, K., Villafuerte, J. R., Rao, A., Hernandez-Lopez, R. A., Sunwoo, J. B., Cong, L.
  2025

- **ACTL6A regulates the Warburg effect through coordinated activation of AP-1 signaling in head and neck squamous cell carcinoma.** *bioRxiv : the preprint server for biology*
  Monavarian, M., Sherman, A. R., Mohammad, I. A., Maddineni, S., Zhang, M., Wu, J. C., Chua, K. F., Sunwoo, J., Finegersh, A.
  2025

- **Correction: Evaluating migration and cytotoxicity of tissue-resident and conventional NK cells in a 3D microphysiological system using live-cell imaging.** *Lab on a chip*
  Choi, H., Shin, J. H., Jo, H., Sunwoo, J. B., Jeon, N. L.
  2025

- **Effects of diagnostic delays in head and neck cancer patients presenting to the emergency department.** *Oral oncology*
  Lee, M. Y., Huynh, J. D., Kim, D. D., Sunwoo, J. B., Chen, M. M.
  2025; 168: 107467

- **VISTA immune checkpoint blunts radiotherapy-induced antitumor immune response.** *Cell reports*
  Nambiar, D. K., Maddineni, S., Langthasa, J., Cao, H., Viswanathan, V., Liu, J., Islam, M. T., Mehta, N., Frank, J., Real, A., Cheunkarndee, T., Laseinde, E. E., Dharmadhikari, et al
  2025; 44 (7): 115893

- **Logic-gated, allogeneic Tmod chimeric antigen receptor T-cell (CAR T) therapy targeting epidermal growth factor receptor (EGFR) in advanced solid tumors with human leukocyte antigen (HLA) loss of heterozygosity (LOH): DENALI-1 trial**
  Kirtane, K., Park, J., Ulrickson, M., Wong, D. J. L., Sunwoo, J. B., Molina, J. R., Maloney, D. G., Maus, M., Fuentes Bayne, H. E., Grierson, P., Punekar, S., Locke, F. L., Davila, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025: TPS2677

- **Evaluating migration and cytotoxicity of tissue-resident and conventional NK cells in a 3D microphysiological system using live-cell imaging.** *Lab on a chip*
  Choi, H., Shin, J. H., Jo, H., Sunwoo, J. B., Jeon, N. L.
  2025

- **Surfaceome CRISPR Activation Screens to Delineate Determinants of Natural Killer Cell Killing towards Cancer Cells**
  Wang, X., Dinesh, R., Mohammad, I., Sunwoo, J., Cong, L.
  CELL PRESS.2025

- **An intraepithelial ILC1-like natural killer cell subset produces IL-13.** *Frontiers in immunology*
  Maddineni, S., Sharma, K., Mohammad, I. A., Ruggiero-Sherman, A. D., Stepanek, I., Shin, J. H., Bando, J. K., Sunwoo, J. B.
  2025; 16: 1521086

- **A dentist-scientist oath.** *Journal of the American Dental Association (1939)*
  Lam, D. K., O'Hara, R., Sunwoo, J. B., Borghi, J. A., Tirumalasetty, J., Nadershahi, N. A., Moazzez, R.
  2025

- **Comparison of Technetium-99m Tilmanocept to Technetium-99 Sulfur Colloid Radiotracer for Sentinel Lymph Node Biopsy in Head and Neck Melanoma.** *The Annals of otology, rhinology, and laryngology*
  Maddineni, S., Tosoni, S. M., Sunwoo, J. B., Baik, F. M.
  2025: 34894251322661

- **Intraepithelial ILC1-Like NK Cells Increase Lymphocyte Infiltration into the Tumor Microenvironment via the CXCL10 Axis.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Maddineni, S., Sharma, K., Mohammad, I. A., Shin, J. H., Sunwoo, J. B.

2024

- **Comorbid Depression in Patients With Head and Neck Cancer Compared With Other Cancers.** *JAMA otolaryngology-- head & neck surgery*
  Martinez, M. C., Finegersh, A., Baik, F. M., Holsinger, F. C., Starmer, H. M., Orloff, L. A., Sunwoo, J. B., Sirjani, D., Divi, V., Chen, M. M.
  2024

- **A Survival Analysis of Patients with Radiation -Induced Cancers after Prior Radiation for Head and Neck Cancer**
  Laseinde, E., Guan, L., Hildebrand, R., Meurice, N., Gensheimer, M. F., Beadle, B. M., Holsinger, F. C., Sunwoo, J., Baik, F. M., Sirjani, D., Divi, V., Kaplan, M. J., Pinto, et al
  ELSEVIER SCIENCE INC.2024: E764

- **Development of Melanoma and Other Nonkeratinocyte Skin Cancers After Thyroid Cancer Radiation.** *JAMA network open*
  Rezaei, S. J., Chen, M. L., Kim, J., John, E. M., Sunwoo, J. B., Linos, E.
  2024; 7 (9): e2434841

- **An engineered NKp46 antibody for construction of multi-specific NK cell engagers.** *Protein engineering, design & selection : PEDS*
  Lee, R. B., Maddineni, S., Landry, M., Diaz, C., Tashfeen, A., Yamada-Hunter, S. A., Mackall, C. L., Beinat, C., Sunwoo, J. B., Cochran, J. R.
  2024

- **Integrating multiplexed imaging and multiscale modeling identifies tumor phenotype conversion as a critical component of therapeutic T cell efficacy.** *Cell systems*
  Hickey, J. W., Agmon, E., Horowitz, N., Tan, T. K., Lamore, M., Sunwoo, J. B., Covert, M. W., Nolan, G. P.
  2024; 15 (4): 322-338.e5

- **ASO Visual Abstract: Validation of the Melanoma Institute of Australia's Sentinel Lymph Node Biopsy Risk Prediction Tool for Cutaneous Melanoma.** *Annals of surgical oncology*
  Maddineni, S., Dizon, M. P., Muralidharan, V., Young, L. A., Sunwoo, J. B., Baik, F. M., Swetter, S. M.
  2024

- **Nodal ultrasound for regional recurrence detection in sentinel lymph node biopsy-positive cutaneous melanoma patients undergoing cross-sectional imaging.** *Skin health and disease*
  Gyurdzhyan, S., Muralidharan, V., Liu, L. Y., Sunwoo, J. B., Zaba, L. C., Swetter, S. M.
  2024; 4 (1): e305

- **Validation of the Melanoma Institute of Australia's Sentinel Lymph Node Biopsy Risk Prediction Tool for Cutaneous Melanoma.** *Annals of surgical oncology*
  Maddineni, S., Dizon, M. P., Muralidharan, V., Young, L. A., Sunwoo, J. B., Baik, F. M., Swetter, S. M.
  2024

- **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., Megwalu, 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., Pollom, 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

- **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

- **A novel mitochondrial-targeted [18F]F-AraG positron emission tomography (PET) biomarker for early diagnosis and monitoring of cardiotoxicity**
  Shrestha, U., Chae, H., Blecha, J., Colevas, A., Sunwoo, J., VanBrocklin, H., Levi, J., Seo, Y.
  SOC NUCLEAR MEDICINE INC.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

- **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

- **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

- **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

- **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-κB 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

- **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 TUMOROIDS**
  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

- **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)

- **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

- **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

- **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

- **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)

- **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., Saumyaa, 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. 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., Vukkadala, 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., Khoury, 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
  2018; 175 (7): 1972-+

- **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

- **Clinical perineural invasion of cutaneous head and neck cancer: Impact of radiotherapy, imaging, and nerve growth factor receptors on symptom control and prognosis** *ORAL ONCOLOGY*
  Chen, J., Harris, J. P., Kong, C. S., Sunwoo, J. B., Divi, V., Horst, K. C., Aasi, S. Z., Hollmig, S., Hara, W. Y.
  2018; 85: 60–67

- **Clinical perineural invasion of cutaneous head and neck cancer: Impact of radiotherapy, imaging, and nerve growth factor receptors on symptom control and prognosis.** *Oral oncology*
  Chen, J. J., Harris, J. P., Kong, C. S., Sunwoo, J. B., Divi, V., Horst, K. C., Aasi, S. Z., Hollmig, S. T., Hara, W. Y.
  2018; 85: 60–67

- **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

- **NSD1 inactivation defines an immune cold, DNA hypomethylated subtype in squamous cell carcinoma**
  Brennan, K., Gevaert, O., Sunwoo, J. B., Shin, J.
  AMER ASSOC CANCER RESEARCH.2018

- **Biological subtypes of nasopharyngeal carcinoma by genomic profiling**
  Tay, K., Zhu, C., Vennam, S., Varma, S., Quynh-Thu Le, Sunwoo, J., West, R.
  AMER ASSOC CANCER RESEARCH.2018

- **Assessing the Impact of Targeting CEACAM1 in Head and Neck Squamous Cell Carcinoma**
  Tam, K., Schoppy, D. W., Shin, J., Tay, J. K., Moreno-Nieves, U., Mundy, D. C., Sunwoo, J. B.
  SAGE PUBLICATIONS LTD.2018: 76–84

- **American Thyroid Association Statement on Postoperative Hypoparathyroidism: Diagnosis, Prevention, and Management in Adults** *THYROID*
  Orloff, L. A., Wiseman, S. M., Bernet, V. J., Fahey, T. J., Shaha, A. R., Shindo, M. L., Snyder, S. K., Stack, B. C., Sunwoo, J. B., Wang, M. B., Amer Thyroid Assoc Surgical Affair
  2018; 28 (7): 830–41

- **American Thyroid Association Statement on Postoperative Hypoparathyroidism: Diagnosis, Prevention, and Management in Adults.** *Thyroid : official journal of the American Thyroid Association*
  Orloff, L. A., Wiseman, S., Bernet, V., Fahey, T. 3., Shaha, A. R., Shindo, M., Snyder, S. K., Stack Jr, B. C., Sunwoo, J. B., Wang, M. B.
  2018

- **Post-transplant head and neck cancers: A prospective analysis of clinical factors for risk stratification.**
  Soo, J., Schroers-Martin, J., Garofalo, A., Kurtz, D., D'Emilio, N., Grimm, D.
  AMER SOC CLINICAL ONCOLOGY.2018

- **The aryl hydrocarbon receptor modulates the function of human CD56(bright) NK cells** *EUROPEAN JOURNAL OF IMMUNOLOGY*
  Moreno-Nieves, U. Y., Mundy, D. C., Shin, J., Tam, K., Sunwoo, J. B.
  2018; 48 (5): 771–76

- **Gene Expression in Nasopharyngeal Carcinoma by Laser Capture Microdissected Transcriptome Sequencing**
  Tay, J. K., Zhu, C., Sunwoo, J., Le, Q. T., West, R. B.
  ELSEVIER SCIENCE INC.2018: 1385

- **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

- **Assessing the Impact of Targeting CEACAM1 in Head and Neck Squamous Cell Carcinoma.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Tam, K. n., Schoppy, D. W., Shin, J. H., Tay, J. K., Moreno-Nieves, U. n., Mundy, D. C., Sunwoo, J. B.
  2018: 194599818756627

- **CEACAM1 blockade increases NK cell cytotoxicity in head and neck squamous cell carcinoma**
  Tam, K., Lee, Y., Schoppy, D., Sunwoo, J. B.
  AMER ASSOC CANCER RESEARCH.2017

- **Targeting aldehyde dehydrogenase activity in head and neck squamous cell carcinoma with a novel small molecule inhibitor.** *Oncotarget*
  Kim, J., Shin, J. H., Chen, C. H., Cruz, L., Farnebo, L., Yang, J., Borges, P., Kang, G., Mochly-Rosen, D., Sunwoo, J. B.
  2017; 8 (32): 52345-52356

- **Targeting aldehyde dehydrogenase activity in head and neck squamous cell carcinoma with a novel small molecule inhibitor.** *Oncotarget*
  Kim, J., Ho Shin, J., Chen, C., Cruz, L., Farnebo, L., Yang, J., Borges, P., Kang, G., Mochly-Rosen, D., Sunwoo, J. B.
  2017

- **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

- **Identification of an atypical etiological head and neck squamous carcinoma subtype featuring the CpG island methylator phenotype.** *EBioMedicine*
  Brennan, K., Koenig, J. L., Gentles, A. J., Sunwoo, J. B., Gevaert, O.
  2017; 17: 223-236

- **Characterizing CD137 upregulation on NK cells in patients receiving monoclonal antibody therapy** *ANNALS OF ONCOLOGY*
  MAKKOUK, A., Sundaram, V., Chester, C., Chang, S., Colevas, A. D., Sunwoo, J. B., Maecker, H., Desai, M., Kohrt, H. E.
  2017; 28 (2): 415-420

- **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

- **Loss of Expression of AZGP1 Is Associated With Worse Clinical Outcomes in a Multi-Institutional Radical Prostatectomy Cohort.** *Prostate*
  Brooks, J. D., Wei, W., Pollack, J. R., West, R. B., Shin, J. H., Sunwoo, J. B., Hawley, S. J., Auman, H., Newcomb, L. F., Simko, J., Hurtado-Coll, A., Troyer, D. A., Carroll, et al
  2016; 76 (15): 1409-1419

- **ESM1 mediates NGFR-induced invasion and metastasis in murine oral squamous cell carcinoma** *ONCOTARGET*
  Chen, C., Shin, J. H., Eggold, J. T., Chung, M. K., Zhang, L. H., Lee, J., Sunwoo, J. B.
  2016; 7 (43): 70738-70749

- **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

- **Flexible radioluminescence imaging for FDG-guided surgery** *MEDICAL PHYSICS*
  King, M. T., Jenkins, C. H., Sun, C., Carpenter, C. M., Ma, X., Cheng, K., Quynh-Thu Le, Q. T., Sunwoo, J. B., Cheng, Z., Pratx, G., Xing, L.
  2016; 43 (10)

- **Transcription factor Dlx3 induces aryl hydrocarbon receptor promoter activity.** *Biochemistry and biophysics reports*
  Shin, J. H., Haggadone, M. D., Sunwoo, J. B.
  2016; 7: 353-360

- **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

- **Ameloblastoma: a clinical review and trends in management** *EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY*
  McClary, A. C., West, R. B., McClary, A. C., Pollack, J. R., Fischbein, N. J., Holsinger, C. F., Sunwoo, J., Colevas, A. D., Sirjani, D.
  2016; 273 (7): 1649-1661
- **Aberrant lymphatic drainage and risk for melanoma recurrence after negative sentinel node biopsy in middle-aged and older men** *HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK*
  Kaveh, A. H., Seminara, N. M., Barnes, M. A., Berger, A. J., Chen, F. W., Yao, M., Johnson, D., Parsa, S., Quon, A., Swetter, S. M., Sunwoo, J. B.
  2016; 38: E754-E760
- **Regionally Metastatic Cutaneous Squamous Cell Carcinoma of the Head and Neck: Survival and High-Risk Features**
  Amoils, M., Lee, C. S., Sunwoo, J., Aasi, S. Z., Hara, W., Kim, J., Sirjani, D., Colevas, A. D., Chang, A. S., Divi, V.
  ELSEVIER SCIENCE INC.2016: 954
- **A Pilot Study of Electronic Quality of Life Assessments Using Tablet Devices During and After Treatment of Head and Neck Cancers**
  Wang, E., Pollom, E., Bui, T., Ognibene, G., von Eyben, R., Divi, V., Sunwoo, J., Kaplan, M., Colevas, A. D., Le, Q. T., Hara, W.
  ELSEVIER SCIENCE INC.2016: 969
- **Head and neck cancer immunology and immunotherapeutics: Basic concepts to clinical translational approaches.** *Oral oncology*
  Uppaluri, R. n., Bell, R. B., Sunwoo, J. B.
  2016; 58: 49–51
- **Development of prognostic signatures for intermediate-risk papillary thyroid cancer.** *BMC cancer*
  Brennan, K., Holsinger, C., Dosiou, C., Sunwoo, J. B., Akatsu, H., Haile, R., Gevaert, O.
  2016; 16 (1): 736-?
- **Tumor Ulceration Does Not Fully Explain Sex Disparities in Melanoma Survival among Adolescents and Young Adults.** *journal of investigative dermatology*
  Keegan, T. H., Swetter, S. M., Tao, L., Sunwoo, J. B., Clarke, C. A.
  2015; 135 (12): 3195-3197
- **A prospective study of electronic quality of life assessment using tablet devices during and after treatment of head and neck cancers.** *Oral oncology*
  Pollom, E. L., Wang, E., Bui, T. T., Ognibene, G., von Eyben, R., Divi, V., Sunwoo, J., Kaplan, M., Dimitri Colevas, A., Le, Q., Hara, W. Y.
  2015; 51 (12): 1132-1137
- **Immunotherapy for Head and Neck Squamous Cell Carcinoma.** *Hematology/oncology clinics of North America*
  Schoppy, D. W., Sunwoo, J. B.
  2015; 29 (6): 1033-1043
- **ß-Radioluminescence Imaging: A Comparative Evaluation with Cerenkov Luminescence Imaging.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
  King, M. T., Carpenter, C. M., Sun, C., Ma, X., Le, Q., Sunwoo, J. B., Cheng, Z., Pratx, G., Xing, L.
  2015; 56 (9): 1458-1464
- **Survey of oral cancer screening participants reveals widespread misconceptions about oral cancer risk factors, independent of educational background**
  Chester, C., Sabile, J., Cho, G., Hu, A., Hamaguchi, R., Ellis, L., Erdman, J. S., Praharaj, D., Golla, A., Sunwoo, J.
  AMER ASSOC CANCER RESEARCH.2015
- **Targeting Toll-like receptor 2 inhibits growth of head and neck squamous cell carcinoma.** *Oncotarget*
  Farnebo, L., Shahangian, A., Lee, Y., Shin, J. H., Scheeren, F. A., Sunwoo, J. B.
  2015; 6 (12): 9897-9907
- **Regulation of ribosomal RNA synthesis in T cells: requirement for GTP and Ebp1.** *Blood*
  Nguyen, L. X., Lee, Y., Urbani, L., Utz, P. J., Hamburger, A. W., Sunwoo, J. B., Mitchell, B. S.
  2015; 125 (16): 2519-2529
- **CCR 20th anniversary commentary: Preclinical study of proteasome inhibitor bortezomib in head and neck cancer.** *Clinical cancer research*
  Allen, C. T., Conley, B., Sunwoo, J. B., Van Waes, C.
  2015; 21 (5): 942-943

- **Novel aldehyde dehydrogenase inhibitors as potential anti-chemoresistance drugs for head and neck cancers**
  Kim, J., Shin, J., Chen, C., Cruz, L., Farnebo, L., Yang, J., Sunwoo, J. B., Mochly-Rosen, D.
  AMER ASSOC CANCER RESEARCH.2014

- **CD271 is a functional and targetable marker of tumor-initiating cells in head and neck squamous cell carcinoma.** *Oncotarget*
  Murillo-Sauca, O., Chung, M. K., Shin, J. H., Karamboulas, C., Kwok, S., Jung, Y. H., Oakley, R., Tysome, J. R., Farnebo, L. O., Kaplan, M. J., Sirjani, D., Divi, V., Holsinger, et al
  2014; 5 (16): 6854-6866

- **Targeting CD137 enhances the efficacy of cetuximab.** *journal of clinical investigation*
  Kohrt, H. E., Colevas, A. D., Houot, R., Weiskopf, K., Goldstein, M. J., Lund, P., Mueller, A., Sagiv-Barfi, I., Marabelle, A., Lira, R., Troutner, E., Richards, L., Rajapaska, et al
  2014; 124 (6): 2668-2682

- **Epstein-Barr Virus Nuclear Antigen 1 (EBNA1) Protein Induction of Epithelial-Mesenchymal Transition in Nasopharyngeal Carcinoma Cells** *CANCER*
  Wang, L., Tian, W., Xu, X., Nie, B., Lu, J., Liu, X., Zhang, B., Dong, Q., Sunwoo, J. B., Li, G., Li, X.
  2014; 120 (3): 363-372

- **Cancer immunosurveillance and immunoediting by natural killer cells.** *Cancer journal*
  Gross, E., Sunwoo, J. B., Bui, J. D.
  2013; 19 (6): 483-489

- **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

- **Targeting CD137 to enhance the antitumor efficacy of cetuximab by stimulation of innate and adaptive immunity.**
  Kohrt, H., Houot, R., Weiskopf, K., Goldstein, M., Lund, P., Lira, R. R., Troutner, E., Richards, L., Rajapaksa, A., Ostashko, A., Weng, W., Chen, L., Colevas, et al
  AMER SOC CLINICAL ONCOLOGY.2013

- **Impact of positron emission tomography/computed tomography surveillance at 12 and 24 months for detecting head and neck cancer recurrence.** *Cancer*
  Ho, A. S., Tsao, G. J., Chen, F. W., Shen, T., Kaplan, M. J., Colevas, A. D., Fischbein, N. J., Quon, A., Le, Q., Pinto, H. A., Fee, W. E., Sunwoo, J. B., Sirjani, et al
  2013; 119 (7): 1349-1356

- **Epigenetically mediated pathogenic effects of phenanthrene on regulatory T cells.** *Journal of toxicology*
  Liu, J., Zhang, L., Winterroth, L. C., Garcia, M., Weiman, S., Wong, J. W., Sunwoo, J. B., Nadeau, K. C.
  2013; 2013: 967029-?

- **Epigenetically Mediated Pathogenic Effects of Phenanthrene on Regulatory T Cells** *JOURNAL OF TOXICOLOGY*
  Liu, J., Zhang, L., Winterroth, L. C., Garcia, M., Weiman, S., Wong, J. W., Sunwoo, J. B., Nadeau, K. C.
  2013

- **Identification of human NK cells that are deficient for signaling adaptor FcR gamma and specialized for antibody-dependent immune functions** *INTERNATIONAL IMMUNOLOGY*
  Hwang, I., Zhang, T., Scott, J. M., Kim, A. R., Lee, T., Kakarla, T., Kim, A., Sunwoo, J. B., Kim, S.
  2012; 24 (12): 793-802

- **CD44+cells have cancer stem cell-like properties in nasopharyngeal carcinoma** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*
  Janisiewicz, A. M., Shin, J. H., Murillo-Sauca, O., Kwok, S., Quynh-Thu Le, Q. T., Kong, C., Kaplan, M. J., Sunwoo, J. B.
  2012; 2 (6): 465-470

- **The manipulation of natural killer cells to target tumor sites using magnetic nanoparticles** *BIOMATERIALS*
  Jang, E., Shin, J., Ren, G., Park, M., Cheng, K., Chen, X., Wu, J. C., Sunwoo, J. B., Cheng, Z.
  2012; 33 (22): 5584-5592

- **Effect of stimulation of natural killer cells with an anti-CD137 mAb on the efficacy of trastuzumab, cetuximab, and rituximab** *48th Annual Meeting of the American-Society-of-Clinical-Oncology (ASCO)*
  Kohrt, H. E., Houot, R., Weiskopf, K., Goldstein, M., Lund, P., Scheeren, F., Czerwinski, D., Colevas, A. D., Weng, W., Clarke, M. F., Carlson, R. W., Sunwoo, J., Tedder, et al
  AMER SOC CLINICAL ONCOLOGY.2012

- **Magnetic nanoparticles induced natural killer (NK) cell control to target tumor site**
  Oh, C., Shin, J., Sunwoo, J., Cheng, Z., Jang, E.
  SOC NUCLEAR MEDICINE INC.2012

- **The CD47-signal regulatory protein alpha (SIRPa) interaction is a therapeutic target for human solid tumors** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Willingham, S. B., Volkmer, J., Gentles, A. J., Sahoo, D., Dalerba, P., Mitra, S. S., Wang, J., Contreras-Trujillo, H., Martin, R., Cohen, J. D., Lovelace, P., Scheeren, F. A., Chao, et al
  2012; 109 (17): 6662-6667

- **Stimulation of natural killer cells with an anti-CD137 antibody enhances the efficacy trastuzumab, cetuximab, and rituximab in HER2-expressing breast cancer, EGFR plus head and neck cancer, and CD20+lymphoma**
  Kohrt, H., Houot, R., Weiskopf, K., Goldsteini, M., Lund, P., Czerwinski, D., Sunwoo, J., Tedder, T., Chen, L., Levy, R.
  AMER ASSOC CANCER RESEARCH.2012

- **ERK1/2 regulation of CD44 modulates aggressiveness in a new mouse model of oral cancer**
  Uppaluri, R., Judd, N., Winkler, A., Law, J., Murillo-Sauca, O., Sunwoo, J.
  AMER ASSOC CANCER RESEARCH.2012

- **Targeted endoscopic salvage nasopharyngectomy for recurrent nasopharyngeal carcinoma** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*
  Ho, A. S., Kaplan, M. J., Fee, W. E., Yao, M., Sunwoo, J. B., Hwang, P. H.
  2012; 2 (2): 166-173

- **ERK1/2 Regulation of CD44 Modulates Oral Cancer Aggressiveness** *CANCER RESEARCH*
  Judd, N. P., Winkler, A. E., Murillo-Sauca, O., Brotman, J. J., Law, J. H., Lewis, J. S., Dunn, G. P., Bui, J. D., Sunwoo, J. B., Uppaluri, R.
  2012; 72 (1): 365-374

- **A cisplatin-resistant subpopulation of mesenchymal-like cells in head and neck squamous cell carcinoma** *CELL CYCLE*
  Sunwoo, J. B.
  2011; 10 (17): 2834-2835

- **Enhancing NK cell-mediated tumor rejection by activation of the aryl hydrocarbon receptor**
  Sunwoo, J., Shin, J., Zhang, L., Murillo, O., Kim, J.
  AMER ASSOC IMMUNOLOGISTS.2011

- **Distal-less homeobox transcription factors regulate development and maturation of natural killer cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Sunwoo, J. B., Kim, S., Yang, L., Naik, T., Higuchi, D. A., Rubenstein, J. L., Yokoyama, W. M.
  2008; 105 (31): 10877-10882

- **Temporal Relationship Between Antitumor Necrosis Factor-alpha Antibody Therapy and Recrudescence of Head and Neck Squamous Cell Carcinoma** *LARYNGOSCOPE*
  Engel, S. H., Hullar, T. E., Adkins, D. R., Thorstad, W. L., Sunwoo, J. B.
  2008; 118 (3): 450-452

- **HLA alleles determine differences in human natural killer cell responsiveness and potency** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Kim, S., Sunwoo, J. B., Yang, L., Choi, T., Song, Y., French, A. R., Vlahiotis, A., Piccirillo, J. F., Cella, M., Colonna, M., Mohanakumar, T., Hsu, K. C., Dupont, et al
  2008; 105 (8): 3053-3058

- **Spontaneous regression of cutaneous head and neck melanoma: Implications for the immunologic control of neoplasia** *HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK*
  Dunn, G. P., Lewis, J. S., Sunwoo, J. B., Uppaluri, R.

2008; 30 (2): 267-272

- **Mycotic pseudoaneurysm of the internal maxillary artery - Case report and review of the literature** *ARCHIVES OF OTOLARYNGOLOGY-HEAD & NECK SURGERY*
  Dunn, G. P., Uppaluri, R., Hessler, J. L., Layland, M. K., Derdeyn, C. P., Sunwoo, J. B.
  2007; 133 (4): 402-406

- **Arrested natural killer cell development associated with transgene insertion into the Atf2 locus** *BLOOD*
  Kim, S., Song, Y. J., Higuchi, D. A., Kang, H. P., Pratt, J. R., Yang, L. P., Hong, C. M., Poursine-Laurent, J., Iizuka, K., French, A. R., Sunwoo, J. B., Ishii, S., Reimold, et al
  2006; 107 (3): 1024-1030

- **Inhibition of nuclear factor-kappa B and target genes during combined therapy with proteasome inhibitor bortezomib and reirradiation in patients with recurrent head-and-neck squamous cell carcinoma** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Van Waes, C., Chang, A. A., Lebowitz, P. F., Druzgal, C. H., Chen, Z., Elsayed, Y. A., Sunwoo, J. B., Rudy, S. F., Morris, J. C., Mitchell, J. B., Camphausen, K., Gius, D., Adams, et al
  2005; 63 (5): 1400-1412

- **Licensing of natural killer cells by host major histocompatibility complex class I molecules** *NATURE*
  Kim, S., Poursine-Laurent, J., Truscott, S. M., Lybarger, L., Song, Y. J., Yang, L. P., French, A. R., Sunwoo, J. B., Lemieux, S., Hansen, T. H., Yokoyama, W. M.
  2005; 436 (7051): 709-713

- **Nuclear factor-kappa B is an important modulator of the altered gene expression profile and malignant phenotype in squamous cell carcinoma** *CANCER RESEARCH*
  Loercher, A., Lee, T. L., Ricker, J. L., Howard, A., Geoghegen, J., Chen, Z., Sunwoo, J. B., Sitcheran, R., Chuang, E. Y., Mitchell, J. B., Baldwin, A. S., Van Waes, C.
  2004; 64 (18): 6511-6523

- **Effects of pharmacologic antagonists of epidermal growth factor receptor, PI3K and MEK signal kinases on NF-kappa B and AP-1 activation and IL-8 and VEGF expression in human head and neck squamous cell carcinoma lines** *INTERNATIONAL JOURNAL OF CANCER*
  Bancroft, C. C., Chen, Z., Yeh, J., Sunwoo, J. B., Yeh, N. T., Jackson, S., Jackson, C., Van Waes, C.
  2002; 99 (4): 538-548

- **Transcript map of the 8p23 putative tumor suppressor region** *GENOMICS*
  Sun, P. C., Uppaluri, R., Schmidt, A. P., Pashia, M. E., Quant, E. C., Sunwoo, J. B., Gollin, S. M., Scholnick, S. B.
  2001; 75 (1-3): 17-25

- **IL (interleukin)-1 alpha promotes nuclear factor-kappa B and AP-1-induced IL-8 expression, cell survival, and proliferation in head and neck squamous cell carcinomas** *CLINICAL CANCER RESEARCH*
  Wolf, J. S., Chen, Z., Dong, G., Sunwoo, J. B., Bancroft, C. C., Capo, D. E., Yeh, N. T., Mukaida, N., Van Waes, C.
  2001; 7 (6): 1812-1820

- **Novel proteasome inhibitor PS-341 inhibits activation of nuclear factor-kappa B, cell survival, tumor growth, and angiogenesis in squamous cell carcinoma** *CLINICAL CANCER RESEARCH*
  Sunwoo, J. B., Chen, Z., Dong, G., Yeh, N., Bancroft, C. G., Sausville, E., Adams, J., Elliott, P., Van Waes, C.
  2001; 7 (5): 1419-1428

- **Coexpression of proangiogenic factors IL-8 and VEGF by human head and neck squamous cell carcinoma involves coactivation by MEK-MAPK and IKK-NF-kappa B signal pathways** *CLINICAL CANCER RESEARCH*
  Bancroft, C. C., Chen, Z., Dong, G., Sunwoo, J. B., Yeh, N., PARK, C., Van Waes, C.
  2001; 7 (2): 435-442

- **Concurrent paclitaxel and radiation in the treatment of locally advanced head and neck cancer** *JOURNAL OF CLINICAL ONCOLOGY*
  Sunwoo, J. B., Herscher, L. L., Kroog, G. S., Thomas, G. R., Ondrey, F. G., Duffey, D. C., Solomon, B. I., Boss, C., Albert, P. S., McCullugh, L., Rudy, S., Muir, C., Zhai, et al
  2001; 19 (3): 800-811

- **Homozygous deletions define a region of 8p23.2 containing a putative tumor suppressor gene** *GENOMICS*
  Sun, P. C., Schmidt, A. P., Pashia, M. E., Sunwoo, J. B., Scholnick, S. B.
  1999; 62 (2): 184-188

- **Multiple regions of deletion on chromosome arm 13q in head-and-neck squamous-cell carcinoma** *INTERNATIONAL JOURNAL OF CANCER*
  Gupta, V. K., Schmidt, A. P., Pashia, M. E., Sunwoo, J. B., Scholnick, S. B.
  1999; 84 (5): 453-457
- **Constitutive activation of transcription factors NF-kappa B, AP-1, and NF-IL6 in human head and neck squamous cell carcinoma cell lines that express pro-inflammatory and pro-angiogenic cytokines** *MOLECULAR CARCINOGENESIS*
  Ondrey, F. G., Dong, G., Sunwoo, J., Chen, Z., Wolf, J. S., Crowl-Bancroft, C. V., Mukaida, N., Van Waes, C.
  1999; 26 (2): 119-129
- **Localization of a putative tumor suppressor gene in the sub-telomeric region of chromosome 8p** *ONCOGENE*
  Sunwoo, J. B., Sun, P. C., Gupta, V. K., Schmidt, A. P., El-Mofty, S., Scholnick, S. B.
  1999; 18 (16): 2651-2655
- **Clinical correlations with allelotype in supraglottic squamous cancer** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
  Scholnick, S. B., El-Mofty, S. K., Shaw, M. E., Sunwoo, J. B., Haughey, B. H., Sun, P. C., Piccirillo, J. F., Zequeira, M. R.
  1998; 118 (3): 363-370
- **Chromosome 8 allelic loss and the outcome of patients with squamous cell carcinoma of the supraglottic larynx** *JOURNAL OF THE NATIONAL CANCER INSTITUTE*
  Scholnick, S. B., Haughey, B. H., Sunwoo, J. B., ELMOFTY, S. K., Baty, J. D., Piccirillo, J. F., Zequeira, M. R.
  1996; 88 (22): 1676-1682
- **Evidence for multiple tumor suppressor genes on chromosome arm 8p in supraglottic laryngeal cancer** *GENES CHROMOSOMES & CANCER*
  Sunwoo, J. B., Holt, M. S., Radford, D. M., Deeker, C., Scholnick, S. B.
  1996; 16 (3): 164-169
- **CELL-CYCLE OSCILLATION OF PHOSPHATASE INHIBITOR-2 IN RAT FIBROBLASTS COINCIDENT WITH P34CDC2 RESTRICTION** *NATURE*
  Brautigan, D. L., Sunwoo, J., Labbe, J. C., Fernandez, A., Lamb, N. J.
  1990; 344 (6261): 74-78