



Brittany Holmes

Clinical Professor, Pathology

CLINICAL OFFICE (PRIMARY)

- **Surgical Pathology**

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Bio

CLINICAL FOCUS

- Cytopathology
- Head & Neck Pathology
- Fine Needle Aspiration Biopsy
- Anatomic and Clinical Pathology

ACADEMIC APPOINTMENTS

- Clinical Professor, Pathology

ADMINISTRATIVE APPOINTMENTS

- Director of Cytopathology Service, Stanford University School of Medicine, Department of Pathology, (2020- present)
- Associate Director of Cytopathology Service, Stanford University School of Medicine, Department of Pathology, (2018-2020)
- Director of Head & Neck Pathology Service, Stanford University School of Medicine, Department of Pathology, (2018- present)

PROFESSIONAL EDUCATION

- Fellowship: Massachusetts General Hospital, Department of Pathology (2015) MA
- Residency: Johns Hopkins School of Medicine, Department of Pathology (2014) MD
- Medical Education: Vanderbilt University School of Medicine (2010) TN
- Board Certification: Anatomic and Clinical Pathology, American Board of Pathology (2014)
- Board Certification: Cytopathology, American Board of Pathology (2015)

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cytopathology (Fellowship Program)

Publications

PUBLICATIONS

- **T1 Microscopic Oropharyngeal Carcinoma: Revealing the Unknown Primary Through Diagnostic TORS.** *Head & neck*
Holsinger, F. C., Bedi, N., Topf, M. C., Ernst, K. L., Holmes, B. J., Orosco, R. K., Le, Q. T., Colevas, A. D., Starmer, H. M., Beadle, B. M., Rahman, M.
2026
- **Evolving beyond the "unknown primary": Investigating histopathology after diagnostic transoral robotic surgery for microscopic HPV-associated oropharyngeal carcinoma.**
Bedi, N., Holsinger, F., Topf, M., So, Y., Mooney, K. L., Holmes, B. J., Orosco, R. K., Birkeland, A., Le, Q., Colevas, A., Starmer, H., Beadle, B., Rahman, et al
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Evolving concepts in head and neck cytology.** *Journal of the American Society of Cytopathology*
Holmes, B. J.
2025
- **Association between Locoregional Failure and NFE2L2/KEAP1/CUL3 Mutations in NRG/RTOG 9512: A Randomized Trial of Radiation Fractionation in T2N0 Glottic Cancer.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Guan, L., Torres-Saavedra, P. A., Zhao, X., Major, M. B., Holmes, B. J., Nguyen, N. K., Kumaravelu, P., Hodge, T., Diehn, M., Zevallos, J. P., Holsinger, F. C., Emami, B., Jordan, et al
2024
- **Morphological diversity of cancer cells predicts prognosis across tumor types.** *Journal of the National Cancer Institute*
Sali, R., Jiang, Y., Attaranzadeh, A., Holmes, B., Li, R.
2023
- **Parosteal Lipoma Overlying an Osteochondroma of the Hyoid Bone: A Case Report and Literature Review.** *The Laryngoscope*
Green, A., Wei, E. X., Chang-Graham, A., Holmes, B., Smith, A., Sung, C. K.
2023
- **Targeted proteomic quantitation of NRF2 signaling and predictive biomarkers in HNSCC.** *Molecular & cellular proteomics : MCP*
Wamsley, N. T., Wilkerson, E. M., Guan, L., LaPak, K. M., Schrank, T. P., Holmes, B. J., Sprung, R. W., Gilmore, P. E., Gerndt, S. P., Jackson, R. S., Paniello, R. C., Pipkorn, P., Puram, et al
2023: 100647
- **Galectin-1 mediates chronic STING activation in tumors to promote metastasis through MDSC recruitment.** *Cancer research*
Nambiar, D. K., Viswanathan, V., Cao, H., Zhang, W., Guan, L., Chamoli, M., Holmes, B., Kong, C., Hildebrand, R., Koong, A. J., von Eyben, R., Plevritis, S., Li, et al
2023
- **Association between locoregional failure and NFE2L2/KEAP1/CUL3 pathway mutations in NRG/RTOG 9512: A randomized trial of hyperfractionation vs. conventional fractionation in T2N0 glottic squamous cell carcinoma (SCC).**
Guan, L., Torres-Saavedra, P. A., Zhao, X., Major, M. B., Holmes, B. J., Nguyen, N., Kumaravelu, P., Hodge, T., Diehn, M., Zevallos, J., Emami, B., Sagar, S. M., Morrison, et al
LIPPINCOTT WILLIAMS & WILKINS.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
- **CDKN2A/B Loss in High-Grade Transformation of Salivary Gland Carcinoma: High-Grade Malignant Potential in Histologically Low-Grade Component**
Nakaguro, M., Faquin, W., Snuderl, M., Baloch, Z., Cantley, R., Compton, M., Ely, K., Holmes, B., Hu, R., Kerr, D., Montone, K., Nishino, M., Pantanowitz, et al
SPRINGER NATURE.2022: 894-895
- **Detection of cryptogenic malignancies from metagenomic whole genome sequencing of body fluids.** *Genome medicine*
Gu, W., Talevich, E., Hsu, E., Qi, Z., Urisman, A., Federman, S., Gopez, A., Arevalo, S., Gottschall, M., Liao, L., Tung, J., Chen, L., Lim, et al

2021; 13 (1): 98

- **Fine needle aspiration of salivary gland carcinomas with high-grade transformation: A multi-institutional study of 22 cases and review of the literature.** *Cancer cytopathology*
Nakaguro, M., Faquin, W. C., Baloch, Z. W., Cantley, R. L., Compton, M. L., Ely, K. A., Holmes, B. J., Hu, R., Kerr, D. A., Montone, K. T., Nishino, M., Pantanowitz, L., Rossi, et al
2020
- **Salivary Gland Cytopathology and Histopathology: Practical Insights and Updates From the World Health Organization**
Classification *AJSP-REVIEWS AND REPORTS*
Holmes, B. J.
2020; 25 (5): 199–200
- **Pilot study of loss of the p53/p63 target gene PERP at the surgical margin as a potential predictor of local relapse in head and neck squamous cell carcinoma.** *Head & neck*
Holmes, B. J., von Eyben, R., Attardi, L. D., Kong, C. S., Le, Q. T., Nathan, C. O.
2020
- **Model for Assessing Cytopathology Workload, Efficiency, and Wellness**
Li, Y., Cederlof, K., Cowan, T., De Leon, F., Mendoza, K., de Jesus, A., Kong, C., Holmes, B.
NATURE PUBLISHING GROUP.2020: 1871–72
- **Macrocystic (Mammary Analogue) Secretory Carcinoma: An Unusual Variant and a Pitfall in the Differential Diagnosis of Cystic Lesions in the Head and Neck.** *The American journal of surgical pathology*
Hernandez-Prera, J. C., Holmes, B. J., Valentino, A., Harshan, M., Bacchi, C. E., Petersson, F., Liu, K. K., Najfeld, V., Wenig, B. M.
2019
- **A Young Woman With a Rapidly Growing Thoracic Tumor.** *Chest*
Lai, Y. K., Holmes, B., Guo, H. H.
2019; 155 (5): e145–e148
- **Diagnostic and Grading Challenges in Oncocytic Cell (OC) and Clear Cell (CC) of Mucoepidermoid Carcinoma (MEC)**
Strosberg, C., Hernandez-Prera, J., Holmes, B., Moreira, F., Wenig, B.
NATURE PUBLISHING GROUP.2019
- **Oncologic management of sinonasal undifferentiated carcinoma.** *Current opinion in otolaryngology & head and neck surgery*
Tyler, M. A., Holmes, B., Patel, Z. M.
2018
- **Virus-associated carcinomas of the head & neck: Update from the 2017 WHO classification.** *Annals of diagnostic pathology*
Holmes, B. J., Wenig, B. M.
2018; 38: 29–42