



Andrew Birkeland, M.D.

Philosophy of Care

I aim to be an advocate and ally for each of my patients. I understand the many factors that go into treating diseases of the head and neck, and the importance of input and decision-making from my patients. I ensure that my patients are offered the most appropriate and up-to-date care, tailored to the needs of each patient. I focus on building strong and collaborative relationships with each of my patients.

Clinical Interests

Dr. Birkeland focuses on providing care for all benign and malignant head and neck tumors. He treats skin cancers, mucosal cancers in the head and neck, endocrine tumors, salivary gland disease, and skull base tumors. Dr. Birkeland has specialized training and particular interest in microvascular reconstructive surgery and transoral robotic surgery.

Research/Academic Interests

Dr. Birkeland's research focus is translating novel clinical and basic research findings directly to patient care. To this end, he utilizes next generation sequencing, immune profiling, biomarker identification, and animal models to understand the causes of and treatments for head and neck cancers. His overarching aim is to advance precision medicine: providing personalized, optimized treatments for each head and neck cancer patient.

Title Assistant Professor

Specialty Otolaryngology - Head and Neck Surgery, [Cancer](#), Thyroid, Parathyroid

Department [Otolaryngology](#)

Division Head and Neck Surgery

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Education M.D., Weill Cornell Medical College, 2012
B.A., UC Berkeley, 2005

Internships Otolaryngology/Head and Neck Surgery, University of Michigan, 2012-13

Residency Otolaryngology/Head and Neck Surgery, University of Michigan, 2013-18

Fellowships Clinical Research, Columbia University, 2010-11
Head and Neck Surgery/Microvascular, Stanford, 2018-19



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Translational Research, University of Michigan, 2014-16

Board Certifications American Board of Otolaryngology

Professional Memberships American Academy of Otolaryngology - Head and Neck Surgery
American Head and Neck Society

Honors and Awards Alpha Omega Alpha Carolyn L. Kuckein Research Fellowship, Weill Cornell Medical College, 2011
Dean William Mecklenburg Polk Memorial Prize in Research, Weill Cornell Medical College, 2012
Arthur Palmer Prize for Efficiency in Otorhinolaryngology, Weill Cornell Medical College, 2012
Merle Lawrence, Ph.D. Research Award, University of Michigan, 2015
Merle Lawrence, Ph.D. Research Award, University of Michigan, 2016
John L. Kemink, M.D., Clinical Research Award, University of Michigan, 2017
Merle Lawrence, Ph.D. Research Award, University of Michigan, 2018
Fellow Teacher of the Year, Stanford University, 2019

Select Recent Publications van Keulen S, Nishio N, Birkeland A, Fakurnejad S, Martin BA, Forouzanfar T, Cunanan K, Colevas AD, van den Berg NS, Rosenthal EL. The sentinel margin: Intraoperative ex-vivo specimen mapping using relative fluorescence intensity. Clin Cancer Res; epub.

Hoesli R, Brennan JR, Rosko AJ, Birkeland AC, Malloy KM, Moyer JS, Prince MEP, Shuman AG, Chinn SB, Stucken CL, Casper KA, Spector ME. Intraoperative fluorescent angiography predicts pharyngocutaneous fistula after salvage laryngectomy. Ann Surg Oncol. 2019; 26: 1320-1325.

Smith JD, Birkeland AC, Rosko AJ, Hoesli RC, Foltin SK, Swiecicki P, Mierzwa M, Chinn SB, Shuman AG, Malloy KM, Casper KA, McLean SA, Wolf GT, Bradford CR, Prince ME, Brenner JC, Spector ME. Mutational profiles of persistent/recurrent laryngeal squamous cell carcinoma. Head Neck; 2019; 41: 423-428.

*Mann JE, *Smith JD, *Birkeland AC, Bellile E, Swiecicki P, Mierzwa M, Chinn SB, Shuman AG, Malloy KM, Casper KA, McLean SA, Moyer JS, Wolf GT, Bradford CR, Prince ME, Carey TE, McHugh JB, Spector ME, Brenner JC. Analysis of tumor-infiltrating CD103 resident memory T-cell content in recurrent laryngeal squamous cell carcinoma. Cancer Immunol Immunother. 2019; 68: 213-220.



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*Ludwig ML, *Kulkarni A, *Birkeland AC, Michmerhuizen NL, Foltin SK, Mann JE, Hoesli RC, Devenport SN, Jewell BM, Shuman AG, Spector ME, Carey TE, Jiang H, Brenner JC. The genomic landscape of UM-SCC oral cavity squamous cell carcinoma cell lines. *Oral Oncol.* 2018; 87: 144-151.

Birkeland AC, Beesley L, Bellile E, Rosko AJ, Hoesli RC, Chinn SB, Shuman AG, Prince ME, Wolf GT, Bradford CR, Brenner JC, Spector ME. Predictors of survival after total laryngectomy for recurrent/persistent laryngeal squamous cell carcinoma. *Head Neck.* 2017; 39: 2512-2518.

Smith JD, Birkeland AC, Goldman EB, Brenner JC, Carey TE, Spector-Bagdady K, Shuman AG. The immortal life of the Common Rule: Ethics, consent, and the future of cancer research. *J Clin Oncol.* 2017; 35: 1879-1883.

*Birkeland AC, *Foltin SK, Michmerhuizen NL, Hoesli RC, Rosko AJ, Byrd S, Yanik M, Nor JE, Bradford CR, Prince ME, Carey TE, McHugh JB, Spector ME, Brenner JC. Correlation of CRTC1/3-MAML3 fusion status, grade and survival in mucoepidermoid carcinoma. *Oral Oncol.* 2017; 68: 5-8.

Spector ME, Sacco AG, Bellile EL, Taylor JM, Jones TR, Sun K, Brown WC, Birkeland AC, Bradford CR, Wolf GT, Prince ME, Moyer JS, Malloy KM, Swiecicki P, Eisbruch A, McHugh JB, Chepeha DB, Rozek LS, Worden FP. E6 and E7 antibody levels are potential biomarkers of recurrence in patients with advanced-stage human papillomavirus-positive oropharyngeal squamous cell carcinoma. *Clin Cancer Res.* 2017; 23: 2723-2729.

Birkeland AC, Yanik M, Tillman BN, Scott MV, Foltin SK, Mann JE, Michmerhuizen NL, Ludwig ML, Sandelski MM, Komarck CM, Carey TE, Prince MEP, Bradford CR, McHugh JB, Spector ME, Brenner JC. Identification of Targetable ERBB2 Aberrations in Head and Neck Squamous Cell Carcinoma. *JAMA Otolaryngol Head Neck Surg.* 2016; 142: 559-567.



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