

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF OTOLARYNGOLOGY—HEAD AND NECK SURGERY

Mark E.P. Prince, M.D., associate professor of otolaryngology-head and neck surgery, with tenure, Department of Otolaryngology-Head and Neck Surgery, Medical School, is recommended for promotion to professor of otolaryngology-head and neck surgery, with tenure, Department of Otolaryngology-Head and Neck Surgery, Medical School.

Academic Degrees:

M.D.	1988	Dalhousie School of Medicine
M.S.	1984	University of Nova Scotia
B.S.	1982	Dalhousie University

Professional Record:

2008-present	Associate Professor of Otolaryngology-Head and Neck Surgery, University of Michigan
1998-2008	Assistant Professor of Otolaryngology-Head and Neck Surgery, University of Michigan
1996-1998	Lecturer, Department of Otolaryngology-Head and Neck Surgery, University of Michigan

Summary of Evaluation:

Teaching: The quality and quantity of Dr. Prince's teaching is truly remarkable. He has served as the Director of the Otolaryngology-Head and Neck Surgery Residency Training Program for three years and for eight years previously he directed the program under the leadership of Dr. Gregory Wolf. Under his direction, the training program has truly thrived and continues to be one of the most sought-after Otolaryngology training programs in the world. He also is a faculty mentor and teacher to fellows receiving Advanced Training in Head and Neck Oncologic Surgery. Dr. Prince is actively involved in teaching and mentoring medical students. He is a long-term member of the Internal Review Committee that oversees all of the postgraduate medical education training programs at the University of Michigan. He has served as a research mentor to many medical students, residents and fellows who have participated in T32-funded training grant research rotations. Dr. Prince is the recipient of more teaching awards in the Department of Otolaryngology than any other faculty member. He is the recipient of the 2012 Inaugural Mentor of the Year Award and has twice received the coveted Teacher of the Year Award (2010 and 2007). In addition, he was the recipient of the Token of Appreciation from Medical Students (TAMS) Award in 2011. His teaching philosophy is centered on themes of professionalism and practice-based learning. He has added self-reflection and self-evaluation as methods to guide learning and future performance in the department's training program. He is a true scholar of education and is **the** most valuable educator in the department and is certainly making a meaningful contribution to education in the Medical School as a whole. Dr. consistently scores amongst the highest on summative evaluations. His total score from 58 evaluations completed by residents from 2008-2012 was 9.8/10.0. To quote from one of the

comments from these evaluations, “Dr. Prince is, by far, the best asset of the entire residency. His clinical and surgical skill, pleasant demeanor, research productivity, and role as a mentor are unparalleled.”

Research: Dr. Prince’s seminal work in the identification and characterization of head and neck cancer stem cells is recognized widely as one of the most significant discoveries in head and neck oncology in the past several years. This discovery changes the paradigm of treatment of head and neck cancer. He is also actively engaged in research discoveries on the mechanisms regulating cancer metastasis and treatment failures and the role of human papillomavirus in head and neck cancer. His work has been continuously funded with numerous intramural and extramural research awards. Thus, Dr. Prince has a track record of meaningful funding and seminal observations in the field of head and neck oncology research. Dr. Prince has been highly productive academically, with 36 peer-reviewed papers published or in press since his last promotion and he was senior author on nine of these. In addition, he has authored three book chapters on head and neck cancer stem cells, demonstrating that he is the recognized leader in this field. He has been an invited lecturer nine times since 2010, and seven times he spoke on head and neck cancer stem cells.

Recent and Significant Publications:

Clay MR, Tabor M, Owen JH, Carey TE, Bradford CR, Wolf GT, Wicha MS, Prince ME: Single marker identification of head and neck squamous cell carcinoma cancer stem cells with aldehyde dehydrogenase. *Head & Neck* 32:1195-1201, 2010.

Davis SJ, Divi V, Owen JH, Bradford CR, Carey TE, Papagerakis S, Prince ME: Metastatic potential of cancer stem cells in head and neck squamous cell carcinoma. *Arch Head Neck Surg* 136:1260-1266, 2010.

Shuman AG, Yang Y, Taylor JM, Prince ME: End-of-life care among head and neck cancer patients. *Otolaryngol Head Neck Surg* 144:739-739, 2011.

Tabor MH, Clay MR, Owen JH, Bradford CR, Carey TE, Wolf GT, Prince ME: Head and neck cancer stem cells: The side population. *Laryngoscope* 121:527-533, 2011.

Eliassen AM, Davis SJ, Tang AL, Thomas DH, McHugh JB, Walline H, Stoerker J, Maxwell JH, Worden FP, Eisbruch A, Czerwinski MJ, Papagerakis S, Chepeha DB, Bradford CR, Hanauer D, Carey T, Prince ME.: Head and neck squamous cell carcinoma in pregnant women. Accepted *Head and Neck*, Article first published online: 16 Mar 2012, PMID: 22411571.

Service: Dr. Prince is very active in service to the department, the Medical School and to national medical organizations (American Academy of Otolaryngology-Head and Neck Surgery). He is an active member of the department’s Executive Committee. He has ably served as Chief of the Division of Head and Neck Surgery in the department since 2007. He has served as residency program director for the department since 2009, having served as associate residency program director for the nine years preceding his formal appointment. He served as the acting chief of surgery for the Ann Arbor VAMC from 2011-2012. He has served as chief of the ENT section of the Ann Arbor VAMC since 2000 until the present. He has been a member of the University Committee on the Care and Use of Animals (UCUCA) since 2009. Since 2000, he has been an active member of the University of Michigan GME Internal Review Committee. He is an active member of the University of Michigan Comprehensive Cancer Center Head and

Neck Oncology Program and has served as a member of the Cancer Work Group since 2000. From 2006-2009, he served as an elected member of the University of Michigan, Graduate Medical Education Committee. Nationally, he serves on the AAO-HNS Head and Neck Surgery Education Committee Home Study Course, and Microvascular Surgery Committee. Dr. Mark Prince has a busy clinical practice caring for head and neck cancer patients at the University Hospital and the Department of Veterans Affairs Hospital. He performs complex head and neck cancer extirpative surgery. He is one of six faculty members in the Department who perform microvascular free flap reconstruction of the head and neck which requires specialized surgical training and expertise. Dr. Prince is an active participant in the University of Michigan's Head and Neck Cancer Destination Program. He is a gifted surgeon and compassionate physician who has been listed by Best Doctors since 2010 and by America's Top Doctors since 2007.

External Reviewers:

Reviewer A: "Dr. Prince is well known internationally for his work in head and neck cancer stem cells as evidenced by the numerous national and international presentations he has given. Dr. Prince's publication record is exemplary, particularly for someone who is also an active head and neck surgeon and his papers routinely appear in the best head and neck journals. The impact of his work is widely felt and, in my opinion, will have an influence on how head and neck cancer is treated in the future."

Reviewer B: "Considering the teaching abilities of Mark, I want to stress the fact of his strong devotion and enormously big effort to share his knowledge to his students, residents and fellows.... His findings in the publication and his involvement in public institutions will assist health care providers in providing optimal care to the patients with incurable head and neck cancer."

Reviewer C: "He is clearly a broad and bright tinker and this is evident in a consistent trajectory of written productivity. Dr. Prince is a sought after speaker at a number of national and international venues....He has mentored a large number of fellows, residences [sic], and medical students, all of whom have appropriately launched successful careers in otolaryngology, and translational science as appropriate."

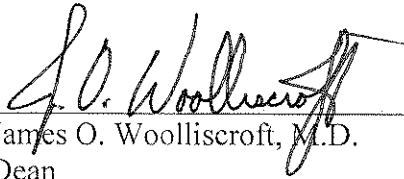
Reviewer D: "Dr. Prince has served as Chief of the Division of Head and Neck Surgery and Residency Program Director at UM, and Chief ENT at the VA hospital, in which he has demonstrated leadership of faculty and teaching contributions of residents, medical and graduate students....As I know that Dr. Prince is often mentioned when Departmental Chair positions are open, this is another clear indication he merits full professorship, and such will be important to retaining him at University of Michigan."

Reviewer E: "Dr. Prince's seminal paper on head and neck cancer stem cells was a significant advance in the field. Since that time he has continued his study of stem cells in head and neck squamous cell carcinoma and has produced several other important papers in high impact journals. His research has been crucial in identifying the subpopulation of cancer stem cells in head and neck squamous cell carcinoma as the key cells responsible for tumor development, growth, and resistance to treatment. This will lay the groundwork for future studies in targeted therapies for head and neck cancer....Dr. Prince is highly respected by his peers on the national

and international level. He is a widely sought after speaker for head and neck cancer meetings, specifically for his expertise in stem cells.”

Summary of Recommendation:

Dr. Prince is a very prominent and productive surgeon-scientist who has made significant contributions to the field of head and neck oncology. He is an excellent teacher and mentor; and he is a leader who contributes both in external and internal service. I am pleased to recommend Mark E. P. Prince for promotion to professor of otolaryngology—head and neck surgery, with tenure, Department of Otolaryngology-Head and Neck Surgery, Medical School.



James O. Woolliscroft, M.D.
Dean

Lyle C. Roll Professor of Medicine

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