

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN MEDICAL SCHOOL
DEPARTMENT OF OTORHINOLARYNGOLOGY

Mark E. P. Prince, M.D., Assistant Professor of Otorhinolaryngology, Department of Otorhinolaryngology, Medical School, is recommended for promotion to Associate Professor of Otorhinolaryngology, with tenure, Department of Otorhinolaryngology, Medical School.

Academic Degrees:

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

Professional Record:

2000-Present	Assistant Professor of Otorhinolaryngology, University of Michigan
1998-2000	Assistant Professor of Otolaryngology-Head and Neck Surgery, Dalhousie University of Nova Scotia Canada
1996-1998	Lecturer, Department of Otorhinolaryngology, University of Michigan

Summary of Evaluation:

Teaching: Dr. Prince is a brilliant educator and a truly gifted teacher. His excellence in teaching has earned him two Frank N. Ritter Teaching awards granted annually for the best teacher in the Department of Otolaryngology. Since joining our faculty in 2000, Dr. Prince has been the departmental Residency Director and performed in this capacity in an outstanding manner. He has revamped the resident curriculum, implementing creative new teaching methods and continually improving the resident educational experience through his “hands-on approach.” He is entirely committed to providing an outstanding resident education and his efforts were recently rewarded with recertification of the program through the Residency Review Committee with commendation for an additional five years. Dr. Prince’s teaching efforts include direct instruction of head and neck fellows, family medicine residents, medical students and undergraduate students. He has mentored 13 residents and fellows in various clinical and research aspects of Otolaryngology-Head and Neck Surgery. This is truly an outstanding accomplishment and illustrates his commitment to developing trainees at all levels. The quantity of Dr. Prince’s teaching efforts is truly remarkable and he is clearly one of the most active teachers amongst the Otolaryngology-Head and Neck Surgery faculty. Aside from the quantity of his teaching, the quality of his teaching is what sets him apart from other educators. Repeatedly, residents and faculty alike have commented on the effectiveness of Dr. Prince’s teaching style and his uncanny ability to express complex concepts in clearly understandable language. His evaluations by residents, medical students, and his peers have been exceptional. Through his outstanding national presentations, Dr. Prince has been invited to numerous national and international institutions to share his knowledge of head and neck cancer to rave reviews.

His reputation within the institution and throughout the nation is that of an organized, committed, creative, and progressive academician with remarkable teaching ability.

Research: Since his appointment in 2000, Dr. Prince has been a highly productive clinical and basic science researcher with many high-impact publications to his credit. To date, he has 33 peer-reviewed publications either in press or accepted for publication. In nearly two thirds of these publications he is either the first or last author. He has also published two book chapters and numerous published abstracts from his many invited presentations. Dr. Prince has recently become known nationally and internationally for his work in stem cell biology. Through his outstanding research techniques, he has been able to sort head and neck cancer tumors and discover the molecular signature of the head and neck cancer stem cell. This seminal work was published in *PNAS*. Dr. Prince's level of competence and mastery in his chosen field of research has resulted in a large amount of grant funding, including co-directing the tissue and histopathology core of the Head and Neck SPORE, a co-investigator on one of the major projects in the SPORE as well as receiving the career development award through the Head and Neck SPORE. In addition to this extramural funding, Dr. Prince has also been funded through the University of Michigan Comprehensive Cancer Center James Selleck Bower Endowed Research Fund as well as from KLS Martin Corporation in a translational research project investigating the reconstruction of complex oromandibular defects using distraction osteogenesis and a soft tissue vascularized free tissue transfer. Finally, he is also a co-investigator with 5% effort on an NIH RO1 grant. In total, he has received nearly \$250,000 of annual direct costs through his external and internal grant funding and he has been continuously funded since 2002.

Similar to his other scholarly activities, Dr. Prince is very productive, focused, innovative, and tenacious in his research efforts. His outstanding ability has been recognized in his department where he has been elected Chair of the Research Committee. He is also a member of the Cancer Workgroup at the University of Michigan Comprehensive Cancer Center and has served as a reviewer in seven high-impact journals encompassing the field of otolaryngology, comparative medicine, and clinical oncology. His research has also resulted in several awards, including the Poliquin Prize for Original Research in Basic Science, the Dalhousie University Department of Otolaryngology Scientific Achievement Award, and a Career Development Award through the Head and Neck SPORE. The importance of his work has been recognized by numerous invitations to appear as a guest speaker both nationally and internationally. There is great interest in his cancer stem cell work and he is truly identified as a leader in head and neck cancer research by his peers.

Recent and Significant Publications:

Urba S, Wolf G, Eisbruch A, Worden F, Lee J, Bradford C, Teknos T, Chepeha D, Prince M, Hogikyan N, Taylor J: Single cycle induction chemotherapy selects patients with advanced laryngeal cancer for combined chemoradiation: A new treatment paradigm. *Journal of Clinical Oncology* 24(4):593-598, 2006.

Prince ME, Sivanandan R, Kaczorowski A, Wolf GT, Kaplan MJ, Dalerba P, Weissman IL, Clarke MF, Ailles LE: Identification of a subpopulation of cells with cancer stem cell properties in head and neck squamous cell carcinoma. *Proceedings of the National Academy of Sciences of the United States of America* 104:973-978, 2007.

Prince ME, Ubell ML, Castro J, Ogawa H, Ogawa T, Narayan A, Paulino A, Cole A, Wolf GT, Rubin MA, Lyons RH, Bradford CR, Carey TE: Tissue-preserving approach to extracting DNA from paraffin-embedded specimens using tissue microarray technology. *Head and Neck Journal* 29(5):465-471, 2006.

Chepeha DB, Wang SJ, Marentette LJ, Thompson BG, Prince ME, Teknos TN: Radial forearm free tissue transfer reduces complications in salvage skull base surgery. *Otolaryngology-Head and Neck Surgery* 131(6):958-964, 2004.

Taylor JC, Terrell JE, Ronis DL, Fowler KE, Bishop C, Lambert MT, Myers LL, Duffy SA, The University of Michigan Head and Neck Cancer Team. Disability in patients with head and neck cancer. *Archives of Otolaryngology-Head and Neck Surgery* 130:764-769, 2004.

Service: Dr. Prince's service to the Department of Otolaryngology is led by the fact that he is the Residency Director and has been so for seven continuous years. He also is the Chief of the Otolaryngology Section at the Veteran's Affairs Medical Center in Ann Arbor. Beyond these duties, he is also the Chair of the Residency Education Advisory Committee, Chair of the Residency Selection Committee, and Chair of the Research Committee in the Department of Otolaryngology. He has served in numerous capacities within the Hospital and Medical Center as a whole. He is an elected member of the Graduated Medical Education Committee and a member of the GME Internal Review Committee. He also serves the Comprehensive Cancer Center through the Cancer Workgroup. Nationally, he is a Fellow of the American Academy of Otolaryngology-Head and Neck Surgery, a diplomat of the American Board of Otolaryngology and a reviewer for numerous high-impact journals. He serves the American Academy of Otolaryngology-Head and Neck Surgery on the Microvascular Committee, and serves the Michigan Otolaryngologic community as a member of the Michigan Otolaryngologic Society.

Professional Work: Dr. Prince's clinical activities are based both at the University Hospitals as well as the Veteran's Affairs Medical Center in Ann Arbor. His practice encompasses predominately head and neck cancer surgery and reconstructive surgery following removal of these tumors. He is one of only five surgeons in the State of Michigan who is able to perform Head and Neck Microvascular Reconstruction with a high rate of success. He has a broad referral base both within the VA system as well as from private otolaryngologists throughout the State. His outstanding abilities have won him the Department of Veteran's Affairs Certificate of Merit in March of 2005.

External Review:

Reviewer A: "I have no doubt that Dr. Prince would be promoted to the level of Associate Professor at our institution. He has developed into the type of clinician/scientists [sic] that any institution would be proud to have as a member of its senior faculty."

Reviewer B: "Dr. Prince has demonstrated a truly outstanding performance and provided contributions in all of the areas of academic medicine, including teaching, scholarship and

research, service, and clinical care....I can assure you that Dr. Prince's efforts have kept the University of Michigan at the forefront of otolaryngology training."

Reviewer C: "His first author paper published in the Proceedings of the National Academy of Sciences is of very high impact, and perhaps the most important stem cell paper in the field of head and neck cancer. There is a tremendous need for physician-scientists with a research focus in head and neck oncology. Dr. Prince is clearly one of these key individuals."

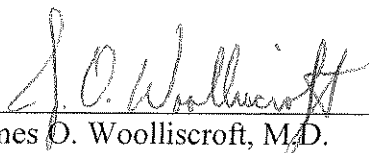
Reviewer D: "Overall, based on his clinical expertise, his excellence in education and the major role that he plays within the Department as Residency Director and his academic accomplishments, particularly his recent high profile work in head and neck cancer stem cells, Dr. Prince is an outstanding candidate for promotion to Associate Professor and I support this action with the highest levels of enthusiasm."

Reviewer E: "Dr. Prince enjoys an outstanding national reputation and the University of Michigan is fortunate that he has focused on building their residency educational program and research effort. I have to say this is a superb record of the 'triple threat' in academic medicine—with excellence in patient care, research, and education. It would seem to me that any university should consider itself fortunate to have such a talented and dedicated academic surgeon."

Reviewer F: "In addition to his outstanding role in teaching, Dr. Prince has mentored many medical students, residents and fellows in clinical and basic/translational research projects....He is the type of academic physician that would be an asset to any academic institution."

Summary of Recommendation:

Since his appointment to the University of Michigan in 2000, Dr. Prince has been a model physician, educator, and scientist. He has obtained national and international acclaim in each of these areas of scholarly pursuit and there is no question he will continue to do so and bring prestige to the University of Michigan and the Department of Otolaryngology-Head and Neck Surgery. I am pleased, therefore, to recommend Mark Prince, M.D. for promotion to Associate Professor, with tenure, in the Department of Otorhinolaryngology.



James O. Woolliscroft, M.D.

Dean

Lyle C. Roll Professor of Medicine

May 2008