

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN MEDICAL SCHOOL
DEPARTMENT OF OTORHINOLARYNGOLOGY

Theodoros N. Teknos, M.D., Associate Professor of Otorhinolaryngology, with tenure, Department of Otorhinolaryngology, Medical School, is recommended for promotion to Professor of Otorhinolaryngology, with tenure, Department of Otorhinolaryngology, Medical School.

Academic Degrees:

M.D.	1991	Harvard University
B.A./B.S.	1987	Wayne State University

Professional Record:

2003-Present	Associate Professor, of Otorhinolaryngology, University of Michigan
1997-2003	Assistant Professor of Otorhinolaryngology, University of Michigan
1996-1997	Instructor, Head and Neck Oncology, Skull Base Surgery, Microvascular Reconstruction, Vanderbilt University

Summary of Evaluation:

Teaching: Dr. Teknos has had extensive teaching responsibilities within the Department of Otolaryngology and the Medical School. He has served as guest faculty for the Head and Neck Anatomy Component of the M1's Gross Anatomy Course. He has provided an annual review course for otolaryngology residents taking the annual inservice training examination and has given numerous lectures to M3 and M4 students. He served as faculty for the otolaryngology portion of the Neurosciences block, as part of the second-year Medical School curriculum and has also provided lectures for the M4 Head and Neck Surgical Anatomy Course. He typically participates in the Career Seminar Series for our medical students. Nationally he has been active in the American Head and Neck Society, the Annual Sisson Workshop, and has been an invited participant at the Annual Opinion Leader Consortium on Novel and Targeted Therapies for Head and Neck Cancer. The quality of his teaching has been outstanding and has been reflected in his winning the Frank N. Ritter Teaching Award in 2002 and being invited to serve on the American Academy of Otolaryngology-HNS Patient of the Month Committee. Dr. Teknos has been rated highly on all teaching parameters by Otolaryngology residents. He served as a mentor for numerous head and neck fellows and research mentor for both residents and medical students conducting basic research investigations related to head and neck cancer. Dr. Teknos has displayed both leadership and creativity in his teaching activities by integrating soft tissue dissections with his lectures on craniofacial flaps, the sinuses and the neck. Because of his unique teaching abilities, he has been an invited guest faculty member at Albert Einstein College of Medicine and St. Louis University, where he lectured on practical anatomy and comprehensive multidisciplinary management of head and neck cancer.

Research: Dr. Teknos has demonstrated consistent scholarly productivity in clinical and basic research related to angiogenesis in head and neck cancer. Collaborating with Sophia Merajver, M.D., he has produced seminal information on the role of tetrathiomolybdate in preventing head and neck cancer and cancer metastasis. As a spinoff of this work, he has explored the role of angiogenic molecules and anti-angiogenic drugs in the treatment of head and neck cancer patients. Dr. Teknos' collaborations have been extensive. Clinically, he has established a national reputation in microvascular free tissue transfer and reconstruction to complement his basic research interests. His scholarly activities have resulted in nearly 100 scientific publications and have covered areas as diverse as angiogenesis, quality of life, tumor response assessment, gene profiling, and tissue engineering. He has made numerous scientific presentations at national and international meetings and has been a funded co-investigator on both SPORE grant projects, NIH ROI grants and as a co-investigator on our Advanced Research Training T32 Grant. He is a co-principal investigator on one of the major research projects in our SPORE grant competing renewal.

Recent Significant Publications:

Kleer, C, Teknos T, Islam Mozaffarul, Marcus B, Shin-Jung Lee J, Pan Q, and Merajver S: RhoGTPase expression as a potential marker of lymph node metastasis in squamous cell carcinomas of the head and neck. *Clin Cancer Res* 12(15), 4485-4490, August 2006.

Teknos T, Islan M, Arenberg DA, Pan et al: The Effect of tetrathiomolybdate on cytokine expression, angiogenesis, and tumor growth in squamous cell carcinoma of the head and neck. *Arch Otolaryngol HNS*. 131,204-211, March 2005.

Marcus B, Arenberg D, Lee J, Kleer C, Teknos T, et al: Prognostic factors in oral cavity and oropharyngeal squamous cell carcinoma. *Cancer* 101:12 2780-2787, Dec. 2004.

Pan Q, Bao LW, Teknos T, Merajver SD: Targeted disruption of protein kinase ce reduces cell invasion and motility through inactivation of RhoA and RhoC GTPases in Head and Neck squamous cell carcinoma. *Cancer Res* 66(19), 9379-9384, Oct 2006.

Hassounch B, Islam M, Nagel T, Pan Q, Merajver S, Teknos T: Tetrathiomolybdate promotes tumor necrosis and prevents distant metastases by suppressing angiogenesis in head and neck cancer. *Mol Cancer Ther* 6(3), Mar 2007.

Service: Dr. Teknos has provided extensive service to the Department of Otolaryngology serving on the Research Committee, Resident Education Advisory Committee, Quality Assurance Committee, and Medical Student Teaching Committee. His engagement in teaching has been recognized by the faculty who have sought him out to lead the Residency Training Program to which he has been named Co-Director. In addition to these activities, Dr. Teknos has served on search committees for the Medical School, the Institutional Review Board, Bed Utilization Committee, and the Clinical Sciences Review Committee. He continues to serve on the Medical School Admissions Committee to which he devotes a considerable amount of his time. Nationally, he has been appointed to the American Academy of Otolaryngology-HNS,

Head and Neck Surgery and Oncology Committee, the Program Committee for the American Head and Neck Society, and has been a reviewer for the Ohio Cancer Research Association. He currently serves as Division Head of the Head and Neck Oncology Division within the Department of Otolaryngology. For this, he is responsible for the activities of seven cancer surgeons and the interdisciplinary relationships with Radiation Oncology and Medical Oncology.

Professional Work: Dr. Teknos provides professional care in the Taubman Center and University Hospitals where he leads the Head and Neck Division. He is highly effective in attracting referrals and is an extraordinarily productive clinician. Because of his leadership in microvascular surgery, he provides a unique resource to the Medical Center which results in specific referrals to us for reconstructive surgery. The quality of his care is superb and the volume of clinical activity is notable, particularly considering his commitment to his other scholarly achievements. He is an outstanding collaborator who engages other department faculty successfully and his extensive collaborative publications illustrate these very desirable characteristics. Dr. Teknos has published regularly with radiologists, radiation therapists, dentists, speech pathologists, residents and fellows. He is consistently recognized as a leader in the Department in both clinical work and professionalism. As a role model for residents and fellows, he is superb.

External Review:

Reviewer A: “He has received many national and international awards and honors that are detailed in his CV and these honors and awards speak to his exceptional ability as a clinician and researcher. As an educator, Dr. Teknos’s accomplishments are exemplified by his significant teaching activities nationally and internationally. He is a sought-after speaker in local, regional, national and international podiums. He has mentored numerous undergraduate medical students, residents and fellows.”

Reviewer B: “His skills as an educator and mentor are excellent. Four of his past five fellows are currently in academic faculty positions. He has delivered numerous lectures both in the United States and abroad.”

Reviewer C: “Between 1997 and 2007 Dr. Teknos actively participated with over 100 presentations in national and international scientific meetings, workshops and conferences. He has been an invited speaker as a Lecturer, Keynote Speaker or Visiting Professor in 13 University and Hospital Departments in [the] USA.”

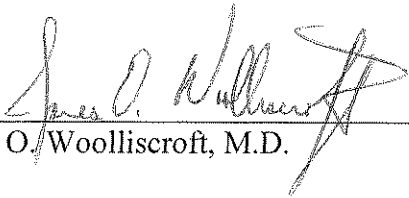
Reviewer D: “Dr. Teknos is well known in the specialty of Head and Neck cancer surgery and microvascular reconstruction. His research and teachings have greatly benefited these groups and he continues to contribute. He is thought of highly by his peers and is recognized both nationally and internationally for his expertise and knowledge.”

Reviewer E: “Overall, Dr. Teknos is a highly regarded surgeon scientist who has received national and international recognition for his translational research contributions in the area of head and neck oncology and in particular biomarkers and anti-angiogenic agents. He is considered one of our nation’s top head and neck surgeon scientists as he has been able to

maintain an active surgical practice in addition to his advancing the science of our Head and Neck subspecialty and achieving the status of an independent funded NIH investigator.”

Summary of Recommendation:

Dr. Theodoros Teknos epitomizes the combination of extraordinary clinical productivity and scholarly academic achievement. His contributions to the field of angiogenesis in head and neck cancer have been unique and have led to potential development of new agents to prevent distant metastases in patients with this cancer. He has developed an outstanding microvascular reconstruction program and currently leads the Department’s residency training effort. He is truly an international representative of scholarly excellence at the University of Michigan. Based on his scholarly achievements, his consistent record of academic excellence, and his clinical contributions, Dr. Teknos is truly deserving of promotion to the rank of Professor.



James O. Woolliscroft, M.D.
Dean
Lyle C. Roll Professor of Medicine

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