

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN MEDICAL SCHOOL
DEPARTMENT OF SURGERY

Stephen E. Feinberg, D.D.S., Ph.D., Associate Professor of Surgery, without tenure, Department of Surgery, Medical School, is recommended for promotion to Professor of Surgery, without tenure, Department of Surgery, Medical School [also Professor of Dentistry, with tenure, School of Dentistry].

Academic Degrees:

Ph.D.	1980	University of Rochester
M.S.	1973	University of Michigan
D.D.S.	1970	New York University
B.A.	1966	Brooklyn College

Professional Record:

2003-Present	Professor of Dentistry, University of Michigan
1990-Present	Associate Professor of Surgery, University of Michigan
1990-2003	Associate Professor of Dentistry, University of Michigan
1989-1990	Associate Professor of Oral and Maxillofacial Surgery, Ohio State University
1983-1989	Assistant Professor of Oral and Maxillofacial Surgery, Ohio State University
1981-1983	Assistant Professor of Oral and Maxillofacial Surgery, University of Iowa
1976-1979	Lecturer, Graduate Pathology Course, University of Rochester
1971-1973	Instructor of Anatomy, University of Michigan

Summary of Evaluation:

Teaching: Stephen Feinberg is a respected teacher whether in the clinic or classroom. He actively participates in the education of predoctoral students, graduate students, oral and maxillofacial surgery and medical residents, and his peers. He is a student advocate and his teaching evaluations are consistently good. He has exceptional instructional skills in bench top and clinical research. He is a skilled mentor and continually encourages participation in his research projects. As evidence of this he has served as a thesis advisor/committee member, or research advisor/mentor to more than 40 graduate students and research fellows from numerous departments and schools. Dr. Feinberg has been active in the Continuing Education of his peers, directing rhinoplasty and implant courses that have a national and international reputation and participation. Dr. Feinberg has an excellent national and international reputation as a lecturer.

Research: Dr. Feinberg has been actively involved in research throughout his academic career. He is highly regarded among his peers in the field of tissue engineering. He has an international

reputation as an innovator in this field, specifically with oral mucosa grafting and bone scaffolds. He is making a significant impact, especially as his research activities relate to oral and maxillofacial surgery. Despite an understandable decrease in research activity during his time as Chair of the Department and Service Chief, Dr. Feinberg has an impressive record of publication and grant support. Since stepping down from his administrative position, Dr. Feinberg has been extremely active, publishing articles, securing NIH grant support, and developing an active translational research program in tissue engineering and regenerative medicine. His extramural funding has also grown exponentially and includes NIH long-term grant funding from several RO1s for tissue engineering of oral mucosa and bone, both as a principal investigator and co-investigator, on NIH training grants in wound healing, tissue engineering and bone research, and the Department of Defense. In addition, he has three patents in regenerative medicine and an approved IND from CBER/FDA to do clinical trials using his patented tissue engineered human oral mucosa. Dr. Feinberg has the unique and desirable ability to work closely with others of different disciplines and professions, combining the expertise of the different team members for a better and more desirable research effort. As evidence of this, his current research efforts are multidisciplinary and include participation from different schools (Dentistry, Medicine, and Engineering) within the University as well as different disciplines, such as urology (tissue engineering a bladder equivalent) and ophthalmology (clinical trial for eyelid reconstruction), both utilizing tissue engineered oral mucosa. Dr. Feinberg's greatest contributions to the Department, Schools of Dentistry and Medicine, and University currently are in the research area. He has the skills and expertise to elevate his level of scholarship and funding even further as he continues to develop global collaborations in the area of translational research. As an indication of his accomplishment he was the recipient of the research recognition award by the American Association of Oral & Maxillofacial Surgeons for contribution to the research advancement of his surgical specialty. His research activities have made him one of the point persons, internationally, in his specialty of oral and maxillofacial surgery in the area of tissue engineering.

Recent and Significant Publications:

Izumi K, Song, J, Feinberg SE: Development of a Tissue-Engineered Human Oral Mucosa: From the Bench to the Bed Side. *Cells Tissues Organs* 176:134-152, 2004.

Song J, Izumi K, Lanigan T, Feinberg SE: Development and Characterization of a Canine Oral Mucosa Equivalent in a Serum-Free Environment. *Wiley InterSci* (online) 143-153, 2004.

Yoshizawa M, Feinberg SE, Marcelo CL, Elner VM: Ex Vivo Produced Human Conjunctiva and Oral Mucosa Equivalents Grown in a Serum-Free Culture System. *J Oral Maxillofac Surg* 62:980-988, 2004.

Izumi K, Feinberg SE, Iida A, Yoshizawa M: Intraoral Grafting of an *Ex Vivo* Produced Oral Mucosa Equivalent: A Preliminary Report. *Intl J Oral Maxillofac Surg* 32:188-197, 2003.

Izumi K, Feinberg SE, Terashi H, Marcelo CL: Evaluation of Transplanted Tissue-Engineered Oral Mucosa Equivalents in Severe Combined Immunodeficient Mice. *Tissue Eng* 9(1):163-174, 2003.

Service: Dr. Feinberg has been an active participant in administrative service to the Department, Medical Center, and School of Dentistry. At the School of Dentistry he has served on the Chairs Advisory Committee, the Continuing Education Committee, and the Dental Faculty Associates Participant's Action Committee. At the Medical Center he has served on the Department of Surgery Advisory Committee, the Ambulatory Care Committee, the Operating Room Committee, the Northeast Ann Arbor Medical Center Development Committee, the Emergency Department Expansion Project Facility Planning Committee, the Department of Surgery Future Planning Committee, and is presently on the Advisory Board of K12/K30 Training Program in Clinical Research and the Scientific Advisory Board, Regenerative Medicine Initiative, Technology Transfer Office. In the School of Dentistry he is presently on the Advisory Boards for the Center for Craniofacial Regeneration and the Clinical Research Center. Dr. Feinberg is and has been an active participant in the national, state, and local oral and maxillofacial surgical societies, often holding leadership positions. He has served on the NIH Oral Biology and Medicine II Study Section and is also a manuscript reviewer for several prominent professional journals.

Dr. Feinberg has lectured extensively throughout the world in the area of tissue engineering as exemplified by his numerous invitations to present at conferences. He serves as the co-chair of the Research Committee of the International Association of Oral & Maxillofacial Surgeons and on the Advisory Board of Research and Technology Assessment of the American Association of Oral & Maxillofacial Surgery as well as Section Editor of the Section on Research and Emerging Technologies of the *International Journal of Oral & Maxillofacial Surgery*. These positions put him in a major national/international leadership role for the development of research in the specialty of oral & maxillofacial surgery.

Professional Work: Dr. Feinberg is active clinically. He regularly takes maxillofacial trauma call and sees patients weekly in his clinic and continues to perform procedures in the operating room at University Hospital. Dr. Feinberg is internationally recognized for his expertise in the reconstruction of the temporomandibular joint (TMJ) and in the rehabilitation of the oral cavity with endosseous implants. He has developed a technique for TMJ reconstruction using an interpositional temporalis flap that is known in the maxillofacial circles as the "Feinberg flap." His interest in TMJ reconstruction has resulted in his development of a multi-disciplinary team to explore the use of tissue engineering to manufacture a TMJ replacement for degenerative/deformed or missing joints.

External Review:

Reviewer A: "His work constitutes not only a significant contribution to the field of OMF Surgery, but is truly exemplary in its concept and its achievements. This is also recognized by the industry, whom frequently invite him for brainstorming sessions on new technologies."

Reviewer B: "Dr. Feinberg's work has been at the forefront of tissue engineering and has a highly innovative research portfolio. He has provided a major interface to the oral

maxillofacial community with benefits respectively for research strategies and the overall direction of clinically driven tissue engineering.”

Reviewer C: “In my view, Dr. Feinberg is regarded very highly for the quality and innovative nature of his research on tissue engineered oral mucosa, generally as well as within the Oral and Maxillofacial Surgery community....His work has the potential of making a real difference in clinical Oral and Maxillofacial Surgery. It has gone from the bench to the bedside, a beautiful example of translational research.”

Reviewer D: “Steve is a prototypic surgeon, scientist, manager, and academician as well as a distinguished role model for colleagues.”

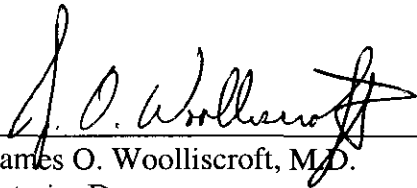
Reviewer E: “Dr. Feinberg is an internationally known oral and maxillofacial surgeon. He is highly respected by his peers, as evidenced by his many awards and honors. For example, he is a recent recipient of the Research Recognition Award offered by the Oral and Maxillofacial Surgery Foundation. I highlight this particular award, among his many other honors, because it is the most prestigious award given by our specialty in recognition of an individual’s scientific contributions to the specialty.”


Reviewer F: “Dr. Feinberg is a truly academic person with a rare combination of clinical experience and a high level of scientific understanding. His open mind and his ability to pursue collaborative and interdisciplinary approaches is always motivating and encouraging to junior collaborators and forms the basis of his leadership competence.”

Reviewer G: “Dr. Feinberg’s work in tissue engineering of mucosa and bone is first rate, warranting NIH grant support, national and international recognition, and attraction of outstanding students and postdoctoral trainees....I would rate him in the top 1% of academic oral and maxillofacial surgeons in the world.”

Summary of Recommendation:

Dr. Feinberg is an excellent clinician who excels in teaching and mentoring of students and residents. He has an international reputation in oral mucosal and bone scaffolding tissue engineering. I am pleased to recommend the promotion of Dr. Feinberg to Professor of Surgery, without tenure, in the Department of Surgery, Medical School.


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


Peter Polverini, D.D.S., D.M.Sc.
Dean, School of Dentistry

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