

PROMOTION RECOMMENDATION

The University of Michigan
School of Dentistry

Jacques Eduardo Nör, associate professor of dentistry, with tenure, School of Dentistry and associate professor of biomedical engineering, without tenure, Department of Biomedical Engineering, College of Engineering, is recommended for promotion to professor of dentistry, with tenure, School of Dentistry and professor of biomedical engineering, without tenure, Department of Biomedical Engineering, College of Engineering.

Academic Degrees:

DDS	1985	Federal University of Rio Grande do Sul
Certificate in Pediatric Dentistry	1990	Federal University of Rio Grande do Sul
MS	1994	University of Michigan, School of Dentistry
PhD	1999	University of Michigan, School of Dentistry
Postdoctoral	2001	University of Michigan Medical School

Professional Record:

1994-1995	Clinical Instructor, Department of Orthodontics and Pediatric Dentistry, University of Michigan, School of Dentistry
1995-1999	Adjunct Lecturer, Department of Orthodontics and Pediatric Dentistry University of Michigan, School of Dentistry
1999-2003	Assistant Professor of Dentistry, Department of Cariology, Restorative Sciences, and Endodontics, University of Michigan, School of Dentistry
2003- present	Associate Professor of Dentistry, with tenure, Department of Cariology, Restorative Sciences, and Endodontics, University of Michigan, School of Dentistry
2003- present	Associate Professor of Biomedical Engineering, without tenure Department of Biomedical Engineering, University of Michigan, College of Engineering

Summary of Evaluation:

Teaching: Dr. Nör is an outstanding teacher at both the clinical and didactic level and is not only liked by his students but has earned their respect, as he has that of his colleagues. He has developed a unique graduate course which integrates molecular biology and clinical dentistry. Within this course, he uses clinical and real-life scenarios to help maintain the student's attention and interest. He is also active in teaching graduate students in the clinical care of their patients, where his teaching style is one of constructive criticism and positive reinforcement in an environment of trust, and respect for the patient and student. Dr. Nör has mentored a large group of students. He states that during his training and education that he was greatly influenced by several mentors and feels that this is an important function. He believes that it is necessary to

spend time with students in order to share his philosophy and the importance of advancing oral health. The best evidence of Dr. Nör's success in this area is the large number of former students who have started their own scientific careers and the many awards (12) his students have received for their research.

Research: Dr. Nör has demonstrated his ability to generate new knowledge through the use of the scientific method and this has resulted in 37 publications in peer reviewed journals and an additional four papers have been accepted for publication and seven more submitted for publication. Dr. Nör currently has eight major grants from which he receives funding, of which he is the principal investigator on four and a co-investigator on four. It is noteworthy that his strong research capabilities and sophisticated grantsmanship are evident by the unusually high priority scores on his grants for first time submissions. His major research themes are in the area of cancer and pulp biology. He has been invited to present his research at fourteen universities and has given presentations at eleven symposia, and has an additional seven invitations in the near future. He has received several awards for his research activity.

Recent and Significant Publications:

1. Telles, P.D., Hanks, C.T., Machado, M.A., Nör, J.E. Lipotheroic acids upregulate VEGF expression in macrophages and pulp cells, *J Den Res* 82:466-470, 2003.
2. Dienst, A., Grunow, A., Unruh, M., Rabausch, B., Nör, J.E., Fries, J.W.U., Gottstein, C. Specific occlusion of murine and human tumor vasculature by VCAM-1 targeted recombinant fusion proteins, *J Natl Cancer Inst* 97:733-747, 2005.
3. Karl, E., Warner, K., Zeitlin, B., Kaneko, T., Wurtzel, L., Jin, T., Chang, J., Wang, S., Wang, C.Y., Strieter, R.M., Nunez, G., Polverini, P.J., Nör, J.E. Bcl-2 acts in a pro-angiogenic signaling pathway through NF-kB and CXC chemokines, *Cancer Res* 65:5063-5069, 2005.
4. Song, W., Sun, Q., Dong, Z., Spencer, D.M., Núñez, G., Nör, J.E. Anti-Angiogenic Gene Therapy: Disruption of Neovascular Networks Mediated by Inducible Caspase-9 Delivered with a Transcriptionally Targeted Adenoviral Vector, *Gene Ther* 12:320-329, 2005.
5. Song, J.W., Gu, W., Futai, N., Warner, K.A., Nör, J.E., Takayama, S. A Computer-Controlled Microcirculatory Support System for Endothelial Cell Culture and Shearing, *Anal Chem* 77:3993-3999, 2005.

Service: Dr. Nör has been very active in service with membership on department, dental school, and university committees such as his department's Tenure Review Committee and Research Grant Program and the Dental School's Strategic Assessment Facilitating and Research Administrators Committees. He has also chaired department search committees within the School. He has an extensive list of service on national and international committees. He serves on the editorial boards of six journals and is a reviewer for an additional nine journals. He is the only dentist-scientist on the Developmental Therapeutics study section (Oncological Sciences) of the National Institutes of Health.

External Reviewers:

Reviewer (A)

“Dr. Nör is viewed as an insightful, creative, competent and reliable dentist-scientist who is progressively climbing the ladder to become an important voice in the angiogenesis field.”

Reviewer (B)

“For an academic who is immersed in research, Dr. Nör’s willingness to take on substantial teaching obligations and his refreshing attitude towards teaching are both very admirable.”

Reviewer (C)

“His academic teaching and mentorship, academic involvement, and research portfolio is exceptional. Academically, Dr. Nör has excelled in all aspects for his consideration to Professor.”

Reviewer (D)


“Dr. Nör is truly a “triple threat” with outstanding accomplishments in teaching, clinical activity, and research.”

Reviewer (E)

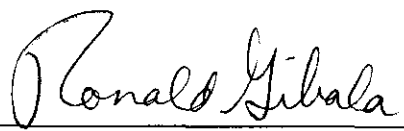
“Dr. Nör is one of the most important and respected authors in the study of mechanisms that regulate angiogenesis. It is worth mentioning that his papers use very modern techniques as tools to answer important questions.”

Summary of Recommendation:

Dr. Nör’s record of achievement in scholarship and his commitment to teaching and service are exemplary. He has been able to balance his external and internal committee commitments to allow him to fully participate in the governance of Department, School, University and the broader scientific community. I am fully confident Dr. Nör will not rest on his laurels and continue to demonstrate similar excellence following his promotion to full professor. The recommendation to promote had the highest endorsement by the review committees with which I can only agree. It is with the support of the Appointments, Promotion and Tenure and Executive Committees of both the School of Dentistry and the College of Engineering that Dr. Nör is being recommended him for promotion to professor of dentistry, with tenure, School of Dentistry, and professor of biomedical engineering, without tenure, College of Engineering.



Peter J. Polverini, DDS, DMSc
Dean, School of Dentistry



Ronald Gibala, Ph.D.
Interim Dean, College of Engineering

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