

**THE UNIVERSITY OF MICHIGAN
REGENTS COMMUNICATION**

PROMOTION RECOMMENDATION

University of Michigan-Flint
College of Arts and Sciences
Department of Biology

Jerry D. Sanders, assistant professor of biology, Department of Biology, College of Arts and Sciences, is recommended for promotion to associate professor of biology, with tenure, Department of Biology, College of Arts and Sciences.

Academic Degrees:

Ph.D.	1994	University of Texas
M.S.	1985	East Texas State University
B.S.	1979	East Texas State University

Professional Record:

1998 to Present	Assistant Professor, Biology Department, University of Michigan-Flint
1994 to 1998	Postgraduate Research Fellow, University of California San Diego Medical Center
1988 to 1994	Graduate Student Research Assistant II, University of Texas Southwestern Medical Center, Dallas, Texas
1986 to 1988	Immunology Research Technician, Wadley Institutes of Molecular Medicine, Dallas, Texas
1979 to 1986	Interferon Research Technician, Wadley Institutes of Molecular Medicine, Dallas, Texas
1979	Fractionation Technician, Wadley Institutes of Molecular Medicine, Dallas, Texas

Summary of Evaluation:

Teaching –Dr. Sanders has taught a large number of biology courses, but has also developed three new undergraduate and graduate courses. Student and peer evaluations indicate Dr. Sanders is doing a fine job overall. Dr. Sanders has been extraordinarily active in supervising student research at both the graduate and undergraduate levels. His lab bustles with numerous undergraduates involved in various research projects, often leading to published abstracts or formal presentations.

Research – Dr. Sanders is senior author of one published paper, second author on a manuscript accepted for publication, second of three collaborators granted a U.S. patent, and senior author of a non-reviewed, commissioned study on bioremediation. Dr. Sanders has published six abstracts with undergraduate and graduate students from 2002 to 2005, one of which won an award for the Best Undergraduate Poster from the Michigan Branch of the American Society for Microbiology. Additional work is in progress.

Recent and Significant Publications:

- Tagawa, Y., Sanders, J. D., Uchida, I., Bastida-Corcuera, F. D., Kawashima, K., and Corbeil, L. B. (2005, currently available online). "Genetic and Functional Analysis of *Haemophilus Somnus* High Molecular Weight-Immunoglobulin Binding Proteins." *Microbial Pathogenesis*, in press.
- Sanders, J. D., Bastida-Corcuera, F. D. and Corbeil, L. B. (2003). "Genetic Manipulation of Immunoglobulin Binding Proteins of *Haemophilus Somnus*." *Microbial Pathogenesis*, 34, Issue 3: 131-139.
- Sanders, J. D., Tagawa, Y. and Corbeil, L.B. (1997). "Transformation of a Serum Sensitive *Haemophilus Somnus* Strain With a Gene Encoding a 76 Kda Surface Antigen From a Virulent Strain." *FEMS Microbiology Letters*, 154: 251-258.
- Sanders, J. D., Cope, L. D. and Hansen, E. J. (1994). Identification of a Locus Involved In the Utilization of Iron by *Haemophilus Influenzae*." *Infection and Immunity*, 62(10): 4515-4525.
- Jarosik, G. P., Sanders, J. D., Cope, L.D., Muller-Eberhard, U. and Hansen, E. J. (1994). "A Functional *tonB* Gene is Required For Both the Utilization of Heme and Virulence Expression by *H. influenzae* Type B." *Infection and Immunity*, 62(6): 2470-2477.
- Sanders, J. D., Cope, L. D., Jarosik, G. P., Maciver, I., Latimer, J. L., Toews, G. B. and Hansen, E. J. (1993). "Reconstitution of a Porin-Deficient Mutant of *Haemophilus Influenzae* Type B With a Porin Gene From Nontypeable *Haemophilus Influenzae*." *Infection and Immunity*, 61(9): 3966-3975.

Patents:

- Corbeil, L. B., Sanders, J. D. and Ziegler, E. J. (8/3/04). "Vaccine Based On Attenuated *Haemophilus Somnus*." United States Patent Granted (US 6,770,273 B1).
- Corbeil, L. B., Sanders, J. D. and Ziegler, E. L. (2000). Application For International Patent Application Published: "Vaccine Based On Attenuated *Haemophilus Somnus*."

Service – Dr. Sanders participates in department and College meetings, has served as chair or member of three search committees, and served on several College committees. In the greater Flint community he served on the Advisory Board of Genesee Area Skill Center (GASC) for five years, chaired their Environmental Career Fair, and spoke to that group regarding biotechnology. He has collaborated with two other biology faculty in arranging a fall meeting of the Michigan Branch of the American Society for Microbiology on the UM-Flint campus.

External Reviewers:

Reviewer (A):

"As an investigator working in an undergraduate institution, I have found that maintaining ties with past labs is an important way in which one can obtain external funding and continue adding to one's scholarly body of literature. Dr. Sanders seems to have done this very well and continues a very productive path of scholarship."

Reviewer (B):

"...I must say that both at UCSD and at the University of Michigan, Dr. Sanders was successful in developing solid and interesting projects in Infectious Diseases. His scholarly contribution in the field of *Haemophilus* research is well recognized by all of us. Jerry is a top-class researcher."

Reviewer (C):

Dr. Sanders "utilized his knowledge of molecular genetics in the bacterium *Haemophilus influenzae* in a very novel way to enhance genetic manipulation of the related bacterium *H. somnus*."

Reviewer (D):

"The journals he [Dr. Sanders] has published in are well respected in the microbiology field. They are national, not regional, journals and are peer-reviewed by professional microbiologists."

Reviewer (E):

"Dr. Sanders has two additional manuscripts in preparation. ... These additional works in progress provide strong evidence of expected continued scholarly productivity. Both of these papers involve students as co-authors, which is highly commendable."

Reviewer (F):

"Dr. Sanders lists 6 refereed publications and two manuscripts in preparation. The published papers are in well recognized journals in the field."


Summary of Recommendation:

Dr. Sanders combines fine teaching skills, a commitment to undergraduate research, a promising research agenda, and committed service to his department, the College, University of Michigan-Flint, and surrounding community. We therefore enthusiastically recommend Jerry D. Sanders to the title of associate professor of biology, with tenure, Department of Biology, College of Arts and Sciences.




D. J. Trela, Ph.D., Dean
College of Arts and Sciences

Recommendation endorsed by:



Jack Kay, Ph.D., Provost and
Vice Chancellor for Academic Affairs



Juan E. Mestas, Ph.D., Chancellor
University of Michigan-Flint

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