

PROMOTION RECOMMENDATION  
The University of Michigan  
College of Literature, Science, and the Arts

Approved by the Regents  
May 14, 2009

Janine R. Maddock, associate professor of molecular, cellular, and developmental biology, with tenure, College of Literature, Science, and the Arts, is recommended for promotion to professor of molecular, cellular and developmental biology, with tenure, College of Literature, Science, and the Arts.

Academic Degrees:

Ph.D.	1990	Carnegie Mellon University
M.S.	1983	San Diego State University
B.S.	1980	University of California at Davis

Professional Record:

2001 – present	Associate Professor, Department of Molecular, Cellular, and Developmental Biology, University of Michigan
1995 – 2001	Assistant Professor, Department of Biology, University of Michigan
1990 – 1994	Postdoctoral Fellow, Department of Developmental Biology, Stanford University

Summary of Evaluation:

Teaching – Professor Maddock is an active and effective educator who has made significant contributions to the curriculum in the Department and more broadly in the University. Her courses have been well-received by students despite the difficulty of the material. She has demonstrated her commitment to interdisciplinary teaching through her participation in courses with faculty outside the natural sciences, including Law, Ethics, and the Life Sciences. Professor Maddock is also a popular and effective mentor in the laboratory. She has provided training opportunities to a large number of undergraduate students and eleven of the students from her laboratory have been awarded graduate degrees in the past seven years. In 2006, she received the Imes and Moore Faculty Award in recognition of her commitment to mentoring underrepresented students.

Research – Professor Maddock’s current research focuses on the role of GTPases in ribosome assembly in *E. coli*, *Vibrio*, *Caulobacter*, and *Saccharomyces*, although she has continued to publish on spatial localization in organisms including *Rhodobacter*, *Pseudomonas* and *E. coli*. She is well known and widely respected in the field of microbiology. Her productivity has been excellent, with 24 publications and two federally funded grants since her promotion to associate professor.

Recent and Significant Publications:

“Polar explorations: Recent insights into the polarity of bacterial proteins,” with S. L. Bardy, *Current Opinion in Microbiology*, 10, 2007, pp. 617-623.

“G-protein control of the ribosome-associated stress response protein SpoT,” with M. Jiang, et al., *Journal of Bacteriology*, 189, 2007, pp. 6140-6147.

“The *Escherichia coli* GTPase CgtA<sub>E</sub> is involved in late steps of large ribosome assembly,” with M. Jiang, et al., *Journal of Bacteriology*, 188, 2006, pp. 6757-6770.

“Clustering requires modified methyl-accepting sites in low-abundance but not high-abundance chemoreceptors of *Escherichia coli*,” with S. R. Lybarger, et al., *Molecular Microbiology*, 56, 2005, pp. 1078-1086.

Service – Professor Maddock’s service activities have been extraordinary. Her major service has been as chair of the Graduate Admissions Committee, associate chair of graduate studies, and chair of the Graduate Studies Committee. In all of these positions, she was effective in improving the recruitment and training activities for the graduate program. She has also chaired search committees and served as a member of the Executive Committee. At the University level, Professor Maddock has served as a member of the Academic Affairs Advisory Committee, the LSA Nominating Committee, and the Senate Assembly.

External Reviews:

Reviewer (A)

“Her *Science* publication...was one of the defining papers that opened up the field of bacterial cell biology, having a major impact on the way many labs around the world have subsequently approached problems in the basic understanding of bacterial cells.”

Reviewer (B)

“She is an internationally known and appreciated contributor to an important and vibrant area of contemporary molecular bioscience. She has demonstrated resiliency, determination and finally success in the face of the dauntingly difficult situation for federal funding of basic research...”

Reviewer (C)

“...Janine showed that the chemoreceptors of *E. coli* clustered at the cell poles. This was a truly landmark discovery that opened up radically new ways of thinking about receptor molecules and how they operate. ...Maddock’s current work is well-funded and she has a consistent record of extramural support in these difficult funding times. She is well-known in her field and has a distinguished record of service on grant panels and editorial boards.”

Reviewer (D)

“Her work has been innovative, deep, and, extremely impressive. ...Janine’s contributions rank with the best. ...[she] is already one of the leading microbiologists of her generation regardless of field...”

Reviewer (E)

“...she continues to publish interesting papers, not only in my area of ribosome biosynthesis, but also in several aspects of eubacteria. I am, again, impressed that she is able to keep abreast of several fields. Furthermore, she is using the most advanced techniques...”

Reviewer (F)

“Her work on bacterial receptors is considered landmark science and is cited in virtually every study of bacterial chemotaxis. ... Her work on bacterial GTPases is also cutting edge and is bearing new insights into the regulation of ribosomes, especially during times of stress.”

Reviewer (G)

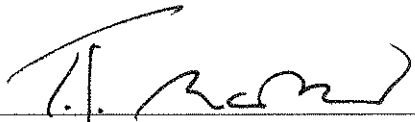
“Janine is a creative scientist with an eye for the unusual and an astute sense of first-rate science. ... In addition to being broadly knowledgeable and very smart, Janine is a creative geneticist. When she sinks her teeth into a problem she doesn't stop until it's solved. She is not afraid to learn any new technology... Of paramount importance, she will train and teach the next leaders in her field.”

Reviewer (H)

“...I would rank Janine at the forefront of people studying ribosome assembly in bacteria. She continues to rise. Inspection of her teaching record shows breadth, quality, and devotion... Clearly, Janine deserves to be promoted to Professor and would be so in our Department...”

Summary of Recommendation:

Professor Maddock has done ground-breaking work. She is an exceptional teacher and an excellent citizen. The Executive Committee of the College of Literature, Science, and the Arts and I recommend that Associate Professor Janine R. Maddock be promoted to the rank of professor of molecular, cellular and developmental biology, with tenure, in the College of Literature, Science, and the Arts.



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Terrence J. McDonald  
Arthur F. Thurnau Professor,  
Professor of History and Dean  
College of Literature, Science, and the Arts

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