

THE UNIVERSITY OF MICHIGAN  
REGENTS COMMUNICATION

Approved by the Regents  
May 15, 2008

PROMOTION RECOMMENDATION

University of Michigan-Flint  
College of Arts and Sciences  
Department of Chemistry and Biochemistry

Jessica L. Tischler, assistant professor of chemistry, Department of Chemistry and Biochemistry, College of Arts and Sciences, is recommended for promotion to associate professor of chemistry, with tenure, Department of Chemistry and Biochemistry, College of Arts and Sciences.

Academic Degrees:

Ph.D.	2001	Michigan State University
B.S.	1995	Saginaw Valley State University

Professional Record:

2001 to present	Assistant Professor of Chemistry, University of Michigan-Flint
2001	Adjunct Lecturer of Chemistry, Michigan State University
2001	Adjunct Lecturer of Chemistry, Kettering University

Summary of Evaluation:

**Teaching** – Professor Tischler is an organic chemist. Her goal “is to have my students become independent learners” while coming to “appreciate the impact of chemistry on their daily lives.” To this end she has developed and revised multiple courses, consistently received favorable peer and student evaluations, and proven to be a thoughtful, caring advisor of students. She fosters student growth and professional development by creating a research program that includes numerous students and provides them with hands-on, real-world opportunities.

**Research** – Professor Tischler successfully established a research program by developing her own lab, training students to work within it, and producing several articles based on her research that have been published in quality, peer-reviewed journals. She has multiple areas of research in progress that indicate a strong, productive research agenda in years to come.

Recent and Significant Publications:

Tischler, J. L., et al. “Simple Inhibitors of Histone Deacetylase Activity That Combine Features of Short-Chain Fatty Acid and Hydroxamic Acid Inhibitors,” *J. Enz. Inhib Med. Chem.* In Press.

Tischler, J. L., Zand, A., Wagner, P. J., and Song, J. “Investigation of Tubulin Polymerizing Agents: Synthesis of Substituted Cyclooctatrienes as a Possible Taxoid Framework,” *Lett. Drug Design Discovery* 2005, 2, 355.

- Barker, J. L. (nee Tischler, J. L.) and Aronson, C. "Molecular Biographies," in *It Works for Me, Too!: Shared Tips for Effective Teaching*, (Blythe, H. and Sweet, C., Editors), New Forum Press: Stillwater, Oklahoma. 2001. p. 86.
- Barker, J. L. (nee Tischler, J. L.) and Frost, J. W. "Microbial Synthesis of *p*-Hydroxybenzoic Acid from Glucose," *Biotech. Bioeng.*, 2001, 76, 376.
- Barker, J. L. (nee Tischler, J. L.), et al. "Benzene-Free Synthesis of Phenol," *Angew. Chem. Int. End. Engl.*, 2001, 40, 1945.
- Barker, J. L. (nee Tischler, J. L.), et al. "Hydroaromatic Equilibration During Biosynthesis of Shikimic Acid," *J. Am. Chem. Soc.*, 2001, 123, 10173.
- Barker, J. L. (nee Tischler, J. L.), Frost, J. W., Draths, K. M., Knop, D. R., Harrup, M. K., and Niu, W. "Chemicals from Plants," in *Carbon Management: Implications for R&D in the Chemical Sciences and Technology*, National Academy Press: Washington D.C. 2001, pp. 185-195.

**Service** – Professor Tischler has a record of significant, involved service to her Department. She points with justifiable pride to her reactivation of the Chemistry Club in 2001, and her continued work as faculty advisor to that group. She is actively involved in all aspects of departmental operations and governance, and has chaired one of the Department's recent searches. At the College and University level, Professor Tischler has served on six separate committees or work groups. In Fall 2006, she joined the Student Concerns Committee, and more recently agreed to be a member of the Higher Learning Commission Self-Study Committee, Criterion 4 subcommittee. She is also active in the community and within her profession.

#### External Reviewers:

Reviewer (A):

"I was particularly impressed (... excited might better describe my reaction to reading the manuscript) by the submission to *JEIMC*, which has been accepted for future publication. I regard this as solid organic synthesis with potentially fruitful application in cancer therapies."

Reviewer (B):

"The recent publications from Professor Tischler's research group point to increased activity in research, which can only bode well for the future of the PI's funding prospects and recognition."

Reviewer (C):

"Her accepted paper in *The Journal of Enzyme Inhibitors* is also impressive. I am particularly happy to see the inclusion of what I assume are UM Flint student authors."

Reviewer (D):

"I find her work of the highest quality and creativity – her publications are lucid, well written, and properly referenced."

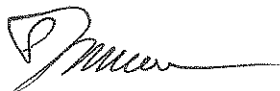
Reviewer (E):

"Her work in both green chemistry and anticancer agents is original and should be appealing to undergraduate students, which in my opinion, is a plus."

Summary of Recommendation:

We endorse the Executive Committee's recommendation and with pleasure recommend Jessica L. Tischler for promotion to associate professor of chemistry, with tenure, Department of Chemistry and Biochemistry, College of Arts and Sciences.

Recommended by:



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

Recommendation endorsed by:



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Vahid Lotfi, Interim Provost and  
Vice Chancellor for Academic Affairs



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Jack Kay, Interim Chancellor  
University of Michigan-Flint

May 2008