

Approved by the Regents  
May 19, 2011

PROMOTION RECOMMENDATION  
UNIVERSITY OF MICHIGAN  
MEDICAL SCHOOL  
DEPARTMENT OF INTERNAL MEDICINE  
DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

David Aronoff, M.D., assistant professor of internal medicine, Department of Internal Medicine, and assistant professor of microbiology and immunology, Department of Microbiology and Immunology, Medical School, is recommended for promotion to associate professor of internal medicine, with tenure, Department of Internal Medicine, and associate professor of microbiology and immunology, without tenure, Department of Microbiology and Immunology, Medical School.

Academic Degrees:

M.D.	1995	Tufts University
B.S.	1991	Indiana University ( <i>Summa Cum Laude</i> )

Professional Record:

2010-present	Assistant Professor of Microbiology and Immunology, University of Michigan
2005-present	Assistant Professor of Internal Medicine, University of Michigan
2002-2005	Lecturer, Department of Internal Medicine, University of Michigan
2001-2002	Instructor, Department of Internal Medicine, Vanderbilt University

Summary of Evaluation:

Teaching: Dr. Aronoff is an outstanding teacher and mentor. He has trained several students and fellows, both in the laboratory and in the clinical setting, as well as given numerous lectures, grand rounds, and research conference presentations. Dr. Aronoff is also the director of two educational journal clubs, and serves on committees for two institutional NIH T32 training grants – the Pulmonary & Critical Care T32 Fellowship Conference Committee, and the Institute for Women and Gender T32 Planning Committee. He is active in the immunology graduate program, the biomedical sciences graduate program, and the reproductive science graduate program, serving on dissertation committees and student preliminary exam committees. His evaluation comments testify to his skill and commitment as an educator, citing his enthusiasm and passion for teaching. He is noted for the time he devotes to providing individualized mentoring not only for research projects, but also for manuscript and grant writing and career advice.

Research: Dr. Aronoff's research focuses on understanding how host-microbial interactions determine the initiation, propagation, and resolution of infectious diseases. His laboratory studies the innate immune system and how it responds to bacterial pathogens in two major organ systems: the respiratory and female reproductive tracts. Dr. Aronoff has 57 peer-reviewed publications with 25 as first or senior author, plus four book chapters. He has an excellent track record of extramural funding: he is currently principal investigator on an NIH R01 and a Doris

Duke Foundation Award, as well as co-investigator on an additional R01, and is the prior recipient of an NIH K08 award, an American Lung Association grant, and a Parker B. Francis Fellowship. Recognition of Dr. Aronoff's expertise is evident in his numerous invited presentations, extensive journal review and editorial work, and service as an organizer and moderator of meeting symposia.

Recent and Significant Publications:

Aronoff DM, Lewis C, Serezani CH, Eaton KA, Goel D, Phipps JJ, Peters-Golden M, Mancuso P: E prostanoïd 3 receptor deletion improves pulmonary host defense and protects mice from death in severe *Streptococcus pneumoniae* infection. *J Immunol* 183:2642-2649, 2009.

Hao Y, Senn T, Opp J, Young VB, Thiele T, Srinivas G, Huang SK, Aronoff DM: Lethal toxin is a critical determinant of death in rodent models of *Clostridium sordellii* endometritis. *Anaerobe*. June 13, 2009. [Epub ahead of print].

Aronoff DM, Hao Y, Chung J, Coleman N, Lewis C, Peres CM, Serezani CH, Chen GH, Flamand N, Brock TG, Peters-Golden M: Misoprostol impairs female reproductive tract innate immunity against *Clostridium sordellii*. *J Immunol* 180:8222-8230, 2008.

Aronoff DM, Peres CM, Serezani CH, Ballinger MN, Carstens JK, Coleman N, Moore BB, Peebles RS, Faccioli LH, Peters-Golden M: Synthetic prostacyclin analogs differentially regulate macrophage function via distinct analog-receptor binding specificities. *J Immunol* 178:1628-1634, 2007.

Aronoff DM, Canetti C, Serezani CH, Luo M, and Peters-Golden M: Cutting edge: Macrophage inhibition by cAMP: differential roles of protein kinase A and exchange protein directly activated by cAMP-1. *J Immunol* 174:595-599, 2005.

Service: In addition to his role as a physician in the infectious diseases clinics and on the infectious diseases consults service, Dr. Aronoff is also involved in service at local, national, and international levels. At the University of Michigan, he is an elected member of the Senate Assembly, directs two educational journal club meetings, and serves on committees for two institutional NIH T32 training grants. Nationally, Dr. Aronoff serves on the Annual Meeting Program Committee for the Interscience Conference on Antimicrobial Agents & Chemotherapy (ICAAC) for the American Society for Microbiology and the national Research Committee for the Infectious Diseases Society of America. Additionally, he is currently co-organizing an international meeting on immunology in Ribeirão Preto, Brazil. Dr. Aronoff also serves on the editorial board for *Clinical Medicine & Research* and is the founding editor-in-chief of the global, open-access journal *Infectious Disease Reports*.

External Review:

Reviewer A: “He has advanced the state of knowledge with regard to monocyte phagocytosis and *C. sordelli* infection and is clearly recognized as an expert in these areas.”

Reviewer B: “Dr. Aronoff has made seminal contributions and has been a leader in the area of innate immune modulation...Dr. Aronoff’s research is innovative and novel and the research niche he has helped to develop represents a relatively unexplored area of the innate immune response. Findings from his body of work have important clinical implication...This important field is just beginning to unfold and Dr. Aronoff is poised to excel as a leader and an outstanding and widely respected scientist in this clinically relevant area of research.”

Reviewer C: “David is at or near the top of his academic peer group. His research areas are important and timely (innate immunity and clostridial pathogenesis) and his work has made innovative contributions to the field.”

Reviewer D: “Dr. Aronoff’s productivity is outstanding for an Assistant Professor based on the number and quality of papers he has published in highly respected peer reviewed journals. This is very impressive to me as a basic scientist considering his extensive clinical responsibilities. In addition, he has a strong commitment to training and education...His role as Founder and Editor-in-Chief of the *Infectious Disease Reports* is quite unique and impressive.”

Reviewer E: “Indeed, Dr. Aronoff is a star and rising leader in the field of infectious diseases and I greatly look forward to following his contributions to the field and learning of his continued success.”

Reviewer F: “...he is highly funded through NIH and private foundation grants, [and] his work is cutting edge and recognized by his peers as driving the frontiers of science in his thematic areas of research...he is recognized internationally for his work and has provided a significant number of invited lectureships at several national and international meetings including session moderation and symposium organization.”

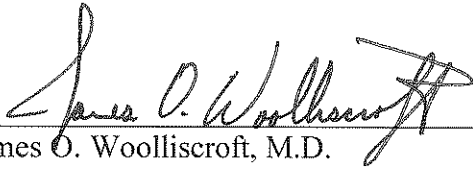
Reviewer G: “He cites 56 peer reviewed articles in his CV. Many of them are published in outstanding journals...The five articles he chose for bibliography notes are quite important in advancing our field.”

Reviewer H: “Dr. Aronoff’s scholarship, reflected by recent publications and grant support has greatly enhanced the field’s understanding of macrophage function relative to clostridial infections. Dr. Aronoff is well respected by his peers and has valuable collaborations with many of them in the field of clostridial pathogenesis.”

Reviewer I: “He has an unusual ability to identify important clinical problems at the bedside and then to go back to the laboratory to examine the basic molecular mechanisms underlying those observations. This capacity to go from the bedside to the bench, and back to the bedside is increasingly rare among physician-scientists in academia...He has been a highly productive, well funded, independent scientist who has made significant contributions to eicosanoid biology and is destined to become a leader in the field.”

Summary of Recommendation:

Dr. Aronoff is a highly productive and well-funded investigator who is widely regarded for his expertise in the area of host-microbial interactions in the respiratory and female reproductive tracts. Not only is he well known for his scientific contributions, but he is also highly respected for his outstanding skills as a teacher and a mentor. Therefore, Dr. Aronoff is an exceptional candidate for promotion to associate professor, with tenure, in the Department of Internal Medicine, and associate professor, without tenure, in the Department of Microbiology and Immunology.

A handwritten signature in black ink, reading "James O. Woolliscroft". The signature is written in a cursive style with a large initial "J" and a stylized "W".

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James O. Woolliscroft, M.D.

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*Lyle C. Roll Professor of Medicine*

May 2011