

PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF PEDIATRICS AND COMMUNICABLE DISEASES
DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Suzanne R. Dawid, M.D., Ph.D., assistant professor of pediatrics and communicable diseases, Department of Pediatrics and Communicable Diseases, and assistant professor of microbiology and immunology, Department of Microbiology and Immunology, Medical School, is recommended for promotion to associate professor of pediatrics and communicable diseases, with tenure, Department of Pediatrics and Communicable Diseases, and associate professor of microbiology and immunology, without tenure, Department of Microbiology and Immunology, Medical School.

Academic Degrees:

M.D.	2000	Washington University School of Medicine
Ph.D.	2000	Washington University School of Medicine
B.A.	1992	University of Colorado

Professional Record:

2008-present	Assistant Professor of Pediatrics and Communicable Diseases, University of Michigan
2008-present	Assistant Professor of Microbiology and Immunology, University of Michigan
2006-2008	Instructor, Department of Pediatrics, Children's Hospital of Philadelphia

Summary of Evaluation:

Teaching: Dr. Dawid has been involved in a variety of teaching efforts throughout her career at the University of Michigan. She serves on the inpatient clinical service for 10 weeks a year where a significant amount of time is dedicated to educating fellows, residents, medical students and pharmacy students in a patient-based format. If indicated for a particular topic, Dr. Dawid will give short didactic lectures during this time as well. She has participated as a faculty facilitator for the Evidence Based Medicine module for residents for the past several years and gave one to two didactic lectures for the pediatric residents during their noon conference each year. Additionally, Dr. Dawid has developed a particular interest in educating pediatricians about the diagnosis and treatment of Lyme disease and has been invited to give talks about this disease several times both internally and externally. In the laboratory setting, she has mentored or is currently mentoring seven undergraduate students, five master's candidates from the School of Public Health, three Ph.D. candidates from the Program in Biological Sciences, one M.D./Ph.D. candidate, five post-doctoral fellows including two pediatric infectious diseases fellows and one junior faculty member. Dr. Dawid meets with all of her trainees in the

laboratory on a weekly basis and is actively involved in training them in scientific writing, oral presentations, grant preparation, experimental design, data interpretation and research ethics. Finally, for a period of five years, she taught the small group sessions for the ID/microbiology section for first-year medical students where she received excellent evaluations on her teaching.

Research: The primary focus of Dr. Dawid's laboratory has been on the characterization of genetic loci in *Streptococcus pneumoniae* that are involved in competitive interactions between bacterial strains. She has published groundbreaking work on bacteriocin systems, which are peptide-based antibiotics secreted in order to kill surrounding bacteria, including other Pneumococcal strains. Her work has broad applications and, as a result of her expertise in this area, the laboratory has established multiple collaborative efforts with local and international groups. Dr. Dawid's work has been well supported by a series of NIH and other awards including the NIH loan repayment program, the MedImmune Career Development Award, the Janette Ferrantino Young Investigator Award, a K08 and two R01 awards. Dr. Dawid has 22 peer-reviewed publications over all, 17 while in rank of which seven are as first or senior author. She has also authored two book chapters and numerous abstracts.

Recent and Significant Publications:

Son M, Shchepetov M, Adrian P, Madhi S, de Gouveia L, von Gottberg a, Klugman K, Weiser JN, Dawid S: Conserved mutations in the pneumococcal bacteriocin transporter gene, *blpA*, results in a complex population consisting of producers and cheaters. *MBio* Sep 6;2, 2011.

Kochan T, Dawid S: The HtrA protease of *Streptococcus pneumoniae* controls density dependent stimulation of the bacteriocin *blp* locus via disruption of pheromone secretion. *J Bacteriol* 195:1561-1572, 2013.

Pinchas MD, LaCross NC, Dawid S: An electrostatic interaction between BlpC and BlpH influences pheromone specificity in the control of bacteriocin production and immunity in *Streptococcus pneumoniae*. *J Bacteriol* 197:1236-1248, 2015.

Wholey WY, Kochan T, Storck D, Dawid S: Coordinated bacteriocin expression and competence in *Streptococcus pneumoniae* contributes to genetic adaptation through neighbor predation. *Plos pathogens* 2016. Feb 3, 12:e1005413.

Maricic N, Anderson ES, Opiari AE, Yu EA, Dawid S: Characterization of a multi-peptide lantibiotic locus in *Streptococcus pneumoniae*. *Mbio* 2016 Jan 26;7:e01656-15.

Service: Institutionally, Dr. Dawid has served on both the Department of Microbiology and Immunology Graduate Studies and the Awards and Advancement Committee for the past seven years. Every year the Admissions Committee reviews over 100 applications for admission to the program in Biological Sciences. The Awards and Advancement Committee reviews microbiology graduate student progress and evaluates student applications for internal awards. Dr. Dawid is the current chair of the Clinical Competency Committee tasked with synthesizing and responding to the evaluations of our clinical fellows. Additionally, she reviews abstracts for the Pediatric Research Symposium and the Resident Research Day on a yearly basis. Dr. Dawid

has served as an ad hoc reviewer for the Pediatric Intramural Awards Program and the Michigan Institute for Clinical Health Research (MICHR) program. She served on the Central Line Associated Bloodstream Infections (CLABSI) Prevention Team for the Pediatric Intensive Care Unit (PICU) until it dissolved and served on the search committee charged with evaluating faculty candidates for the Fast Forward Microbiome Initiative. On the national level, Dr. Dawid has participated in numerous study sections both at the NIH and the VA. She is a member of the VA INF B study section that meets twice a year to evaluate merit based grants and has served on a significant number of NIAID and NIGMS study sections to evaluate R01, K99/R00, R21 and R03 applications. Most recently, Dr. Dawid was asked to serve a four-year term on the NIAID Microbiology and Infectious Diseases Review committee which is charged with evaluating all K and T32 applications for that institute.

Professional Work: In addition to her work in the laboratory, Dr. Dawid is an attending on the Pediatric Infectious Diseases inpatient service for 10 weeks each year. During these times, she staffs new patient clinic for one half-day per week. She also has an outpatient follow-up clinic for one half-day every other week where she sees patients from either inpatient service or new patient clinic and any overflow new patients that need to be seen urgently. She is widely regarded as an expert in her field by her colleagues.

External Reviewers:

Reviewer A: “The quality and impact of Dr. Dawid’s publications are excellent. She has done outstanding work on the competitiveness of Pneumococcus for colonization of the human nasopharynx. She has published groundbreaking work on bacteriocin systems, which are peptide-based antibiotics secreted in order to kill surrounding bacteria, including other Pneumococcal strains... Her impactful work and growing stature in the field have been rewarded with R01 funding from NIAID. In addition, she has received several national and international seminar invitations.”

Reviewer B: “Dr. Dawid has made considerable impact to an area of microbiology and infectious diseases studying competitive interactions among communities of microbe. I sense that she is well respected in our field and is providing important discoveries in the area of microbial interactions and pathogenesis... Given her record, I fully anticipate that Dr. Dawid will continue to be a reliable colleague and outstanding contributor to the scientific community.”

Reviewer C: “Dr. Dawid has gained significant national recognition for her work. In addition to being funded as principal investigator by the NIH, she has published her work in the highest impact journals in the discipline of infectious diseases and microbiology. She is a reviewer for the most important journals in the area and serves on NIH study sections both as an ad hoc member and now as a permanent member.”

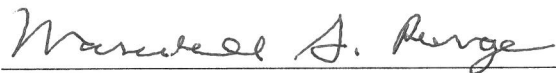
Reviewer D: “Dr. Dawid is a highly talented scientist whose research career already includes important contributions to the field of streptococcal pathogenesis. In addition, her findings thus far lay the foundation for a highly successful and productive research career. Based on her CV and what I know of her research accomplishments and her funding record, Dr. Dawid would have no problem obtaining promotion to Associate Professor with tenure at ... my previous

institution, or my current institution. We are fortunate to have her in the field of streptococcal research and I look forward to her future contributions to the field. Without a doubt, the faculty and students at University of Michigan are fortunate to have her as a colleague.”

Reviewer E: “I am also interested in the career pathways of Pediatric Infectious Disease physicians who continue to do first-rate basic science, as there are remarkably few such multi-talented individuals such as Dr. Dawid...While there has been tremendous publicity regarding the gut microbiome, much less data are available to explain how specific pathogens, such as *S. pneumoniae* outcompete the normal respiratory flora, the area of research that Dr. Dawid pioneered...Her work overall demonstrates her solid background in bacterial genetics and the application of those techniques to clinically important questions.”

Summary of Recommendation:

Dr. Dawid is a highly valued faculty member in the Division of Infectious Diseases who has superb clinical skills and has developed a unique academic niche in the study of pneumococcal bacteriocins. I wholeheartedly recommend Suzanne R. Dawid, M.D., Ph.D. for promotion to associate professor of pediatrics and communicable diseases, with tenure, Department of Pediatrics and Communicable Diseases, and associate professor of microbiology and immunology, without tenure, Department of Microbiology and Immunology, Medical School.



Marschall S. Runge, M.D., Ph.D.
Executive Vice President for Medical Affairs
Dean, Medical School

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