

PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF SURGERY
UNIT FOR LABORATORY ANIMAL MEDICINE

Daniel D. Myers, Jr., D.V.M., associate professor of surgery, with tenure, Department of Surgery, and associate professor of laboratory animal medicine, without tenure, Unit for Laboratory Animal Medicine, Medical School Administration, Medical School, is recommended for promotion to professor of surgery, with tenure, Department of Surgery, and professor of laboratory animal medicine, without tenure, Unit of Lab Animal Medicine, Medical School Administration, Medical School.

Academic Degrees:

M.P.H.	2003	University of Michigan
D.V.M.	1997	Tuskegee University School of Veterinary Medicine
B.S.	1991	University of California, Davis

Professional Record:

2009-present	Associate Professor of Surgery, and Associate Professor, Unit for Laboratory Animal Medicine, University of Michigan
2002-2009	Assistant Professor of Surgery and Assistant Professor, Unit for Laboratory Animal Medicine, University of Michigan
2001-2002	Research Investigator, Department of Surgery and Unit for Laboratory Animal Medicine, University of Michigan

Summary of Evaluation:

Teaching: Dr. Myers has an exemplary record of being a successful and popular teacher. His teaching activities include training seminars at the Unit for Laboratory Animal Medicine (ULAM), research instruction in the Conrad Jobst Vascular Research Laboratories and instruction on the use of animal models in cardiovascular disease. Dr. Myers initiated in 2015 the hosting of the annual International Mock Board Exam Coalition Laboratory Animal Mock Exam and Seminar Series. This intensive comparative medicine board review is sponsored by the University of Michigan--Unit for Laboratory Animal Medicine. This is an educational opportunity for veterinarians specializing in laboratory animal medicine, especially those preparing for ACLAM board certification. In addition, Dr. Myers, along with Dr. C. Alberto Figueroa, in the spring of 2017, will be hosting an inaugural Michigan Cardiovascular Workshop to be held at the University of Michigan, North Campus Research Complex. This symposium will be an intensive course (lectures and hands-on laboratories) geared toward biomedical engineers, physician-scientists, and biomedical researchers and led by UM faculty with associated expertise. Dr. Myers has been a mentor to several post-doctoral fellows and medical students in the Jobst Vascular Research Laboratory. One of his trainees' states "Dr. Myers played a crucial role in my development as a laboratory animal veterinarian and has continued to

be a ready source of advice and counsel now that I have completed the program. His personal interest in my success, his holistic approach to teaching that required my active involvement as a student, and the additional opportunities that he provided have all had a lasting impact for which I am grateful.”

Research: Dr. Myers has had considerable success in his laboratory investigations regarding the pathogenesis and treatment of venous thrombosis. His research has advanced the use of rodent and non-human primate models of venous thrombosis and has demonstrated the effectiveness of animal modeling in advancing translational research. He currently is either principal investigator, co-principal investigator or co-investigator for several funding sources.

Dr. Myers has published 15 first or senior author (corresponding) papers since his promotion to associate professor and 58 scientific abstracts. He has also contributed seven book chapters during that same time. In 2016, Dr. Myers re-filed US Patent Application No.: 15/154,308 for the following invention entitled “#UM 6623; E-selectin antagonist (GMI-1271) used in combination with standard or lower doses of fractionated heparin and low-molecular weight heparins (LMWH) for venous thrombosis (VT) prevention and therapy.” Dr. Myers has presented his work at major academic vascular societies in the United States and Europe, where he is recognized as an outstanding researcher.

Recent and Significant Publications:

Alvarado CM, Diaz JA, Hawley AE, Wroblewski SK, Sigler RE, Myers DD Jr: Male mice have increased thrombotic potential: Sex differences in a mouse model of venous thrombosis. *Thrombosis Research* 127:478-486, 2011.

Culmer DL, Diaz JA, Hawley AE, Jackson TO, Shuster KA, Sigler RE, Wakefield TW, Myers DD Jr: Circulating and vein wall P-selectin promote venous thrombogenesis during aging in a rodent model. *Thrombosis Research* 131:42-48, 2013.

Diaz JA, Alvarado CM, Wroblewski SK, Slack DW, Hawley AE, Farris DM, Henke PK, Wakefield TW, Myers DD Jr: The electrolytic inferior vena cava model (EIM) to study thrombogenesis and thrombus resolution with continuous blood flow in the mouse. *Thrombosis and Haemostasis* 109:1158-1169, 2013.

Diaz JA, Wroblewski SK, Alvarado CM, Hawley AE, Doornbos NK, Lester PA, Lowe SE, Gabriel JE, Roelofs KJ, Henke PK, Schaub RG, Wakefield TW, Myers DD Jr: P-Selectin inhibition therapeutically promotes thrombus resolution and prevents vein wall fibrosis better than enoxaparin and an inhibitor of von Willebrand factor. *Arteriosclerosis Thrombosis and Vascular Biology* 35:829-837, 2015.

Obi AT, Stringer KA, Diaz JA, Finkel MA, Farris DM, Yeomans L, Wakefield TW, Myers DD Jr: 1D-¹H-nuclear magnetic resonance metabolomics reveals age-related changes in metabolites associated with experimental venous thrombosis. *Journal of Vascular Surgery Venous and Lymphatic Disorders* 4:221-230, 2016.

Service: Dr. Myers' administrative responsibilities at the University of Michigan include director of the Jobst Vascular Research Laboratories and chair of the Institutional Animal Care and Use Committee, where he reviews and approves applications to use vertebrate animals in research, testing and instruction. He periodically serves as the faculty veterinarian of several University of Michigan research buildings and will provide weekend and after hour veterinary medical care for animal species housed on the University of Michigan campuses. Nationally, Dr. Myers has active national memberships with the International Society of Thrombosis and Haemostasis, The American Venous Forum (past chair, ex officio member of the Research Committee), and The American Association of Laboratory Animal Science (past chair of Scientific Advisory Committee), and The American College of Laboratory Animal Medicine (past chair of the Publications Committee).

External Reviewers:

Reviewer A: “Dr. Myers is one of the leaders in the world of vascular surgery research, specifically for his expertise in Deep Venous Thrombosis (DVT) and thromboembolism in nonhuman primates and rodents... He has successfully received multiple grants for his research work in vascular surgery, has an extensive publication and presentation record and has received a plethora of awards for his work in the vascular surgery research arena.”

Reviewer B: “Dr. Myers, as a laboratory animal veterinarian with research expertise is employed in a field where the demand for qualified and competent individuals exceeds the supply. However, irrespective of the supply—demand quota, Dr. Myers is considered a leader in his field...Clearly Dr. Myers is a ‘high professional achiever’ and he is considered as a current ‘thought leader’ in the laboratory animal community. Furthermore, Dr. Myers shows enormous future promise for additional leadership roles contingent upon his time and interests.”

Reviewer C: “Dr. Myers' service contributions deserve special mention. At the local level, he is a board certified veterinarian with significant clinical responsibilities. This is similar to a clinician who is expected to see human patients on a regular basis and conduct basic science work. His contributions to national committees has been exemplary serving as Chair of important groups such as American Venous Forum and the Scientific Advisory Committee for the American Association for Laboratory Animal Science.”

Reviewer D: “...Dr. Myers is a recognized national expert in animal models for thrombosis... He serves as a consultant in his capacity as an expert in animal biology on the national scene. He also is an appointed member to the K grant review committee at NHLBI and has recently served on the Small Business Hematology committee at NIH. In sum, Dr. Myers is the consummate University Professor with a record of excellence productivity, scholarship, teaching, and service both locally and nationally.”

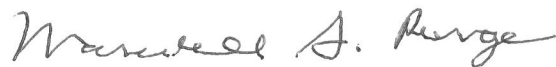
Reviewer E: “In the age of team science, Dr.[.] Myers is a model of how team efforts should be accomplished. Of no less importance, Dr. Myers has expended considerable effort in teaching the next generation of scientists in his field of expertise. Dr. Myers has added his academic strength to a very important field of medicine—venous thrombosis. His contributions to the field

over the past decade have consistently resulted in significant advancements... Dr. Myers has attained the highest level of competency that is possible among his national peers.”

Reviewer F: “Dr. Myer’s research in the area of animal model development for thrombosis therapies and the pathophysiology of thrombosis in adult and aged mouse models is highly novel and important for human medical progress in these areas. Dr. Myers has been recognized for his outstanding research contributions by being awarded three very prestigious national laboratory animal science awards in recent years as well as a number of regional research excellence awards.”

Summary of Recommendation:

Dr. Myers has exhibited outstanding academic and educational productivity. He has published cutting-edge research and has been able to attract extramural funding. Dr. Myers has become a leader in the field on the use of translational animal models of vascular disease. With his proven continued excellence in academic medicine, he will continue his role in advancing translational research and programs at the University of Michigan for years to come. I am pleased to recommend Daniel D. Myers, Jr., D.V.M. for promotion to professor of surgery, with tenure, Department of Surgery, and professor of laboratory animal medicine, without tenure, Unit of Lab Animal Medicine, Medical School Administration, Medical School.



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

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