

PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF PHARMACOLOGY

Emily M. Jutkiewicz, Ph.D., assistant professor of pharmacology, Department of Pharmacology, is recommended for promotion to associate professor of pharmacology, with tenure, Department of Pharmacology, Medical School.

Academic Degrees:

Ph.D.	2004	University of Michigan
B.S.	1997	Tufts University

Professional Record:

2013 - Present	Assistant Professor of Pharmacology, University of Michigan
2009 - 2013	Research Investigator, University of Michigan

Summary of Evaluation:

Teaching: Dr. Jutkiewicz has made major contributions to teaching in the Department of Pharmacology and the Medical School. She has taught undergraduate and graduate student courses and has received outstanding student evaluations both at Washtenaw Community College and at the University of Michigan. Since joining the faculty at the University of Michigan, Dr. Jutkiewicz has designed, developed, and initiated two new courses, Pharm 603, Practical Statistics, and Pharm 425, Development of New Medications, for graduate and undergraduate students, respectively. In addition to these two courses, she contributes lectures to Dental Pharm 503, Substance Abuse, and shares her expertise in the science of drug abuse and addiction with students across campus by contributing to courses in the School of Public Health and the School of Social Work. In her lab, Dr. Jutkiewicz has mentored more than 50 undergraduate students through a variety of programs. She has graduated six Pharmacology master's degree students and one Ph.D. student, and is currently mentoring three other doctoral students. Dr. Jutkiewicz's students speak highly of the mentoring they have received. Many of them have won local and national research awards, most often at the annual meeting of the American Society for Pharmacology and Experimental Therapeutics. She has served on ten thesis committees in pharmacology and medicinal chemistry. Dr. Jutkiewicz is well known for the respect and professional behavior she exhibits to students, post-doctoral fellows, colleagues, and staff.

Research: Dr. Jutkiewicz has established an externally funded and highly productive research program in depression and drug addiction that is both independent and highly collaborative. She is a founding member of the Domino Research Center, housed in the Department of Pharmacology, which focuses on opiate research and drug addiction. Independently, Dr. Jutkiewicz has developed two distinct lines of investigation. One seeks to understand δ opioid receptor functions and their in vivo pharmacology utilizing selective antagonists and conditional gene knockout mice. She is testing the hypothesis that δ opioid receptor systems play important roles in mood regulation in processes of conditional reinforcement central to addictive disorders. Dr. Jutkiewicz's second line of research explores the pharmacology of mixed efficacy ligands at opioid receptors with the goal of understanding and separating beneficial from adverse effects of clinically prescribed opioids. Her recent work on antagonist peptidomimetics may allow separation of antinociceptive effects from adverse effects of opiates, such as liability for tolerance, physiological dependence, and abuse. Her team science efforts are essential to the continued success of many other research programs across

our university. All of these studies, which are published in high impact journals, make use of the quantifiable and specific tactics of classical pharmacology, allowing a high degree of confidence in their analytic approaches and conclusions. Since 2013, she has received 14 invitations to speak at departmental seminars and symposia across the United States, Canada, and France. Dr. Jutkiewicz has published 22 peer-reviewed articles.

Recent and Significant Publications:

Anand J, Kochan K, Nastase A, Montgomery D, Griggs N, Traynor J, Mosberg H, Jutkiewicz E: *Br J Pharmacol* Jan 19, 2018.

Dripps I, Boyer B, Neubig R, Rice K, Traynor J, Jutkiewicz E: Role of signaling molecules in behaviours mediated by the δ opioid receptor agonist SNC80. *Br J Pharmacol* 175(6):891-901, 2018.

Carpenter C, Zestos A, Altshuler R, Sorenson R, Guptaroy B, Showalter H, Kennedy R, Jutkiewicz E, Gnegy M: Direct and systemic administration of a CNS-permeant tamoxifen analog reduces amphetamine-induced dopamine release and reinforcing effects. *Neuropsychopharmacology* 42:1940-1949, 2017.

Dripps I, Wang Q, Neubig R, Rice K, Traynor J, Jutkiewicz E: The role of regulator of G protein signaling 4 in delta-opioid receptor-mediated behaviors. *Psychopharmacology* 234:29-39, 2017.

Mosberg H, Yeomans L, Anand J, Porter V, Sobczyk-Kojiro K, Traynor J, Jutkiewicz E: Development of a bioavailable my opioid receptor (MOPr) agonist, delta opioid receptor (DOPr) antagonist peptide that evokes antinociception without development of acute tolerance. *J Med Chem* 57(7):3148-3152, 2014.

Service: Dr. Jutkiewicz has made substantial contributions our service mission. At the institutional level, she has served as a member of the Faculty Advisory Committee on Minimizing Regulatory Burden, IACUC, and as a Consultant to the Search Committee for the Director of the University of Michigan Undergraduate Research Opportunity Program. At the departmental level, Dr. Jutkiewicz has served on the Departmental Advisory Committee and continues to serve on the Education Leadership Committee. She played a vital role for three years as the co-chair of the Graduate Admissions Committee. She has contributed to trainee career development activities including the annual Midwest Pharmacology Colloquium, the annual Pharmacology Retreat, the Department Seminar Program, and the Charles Ross Summer Student Fellowship program for under-represented students. She has chaired or co-chaired sessions at annual meetings of the American Society for Pharmacology and Therapeutics (ASPET) and the College on Problems of Drug Dependence. Dr. Jutkiewicz has served as a reviewer for many high impact pharmacological and behavioral journals, and is currently a member of the editorial board of *Behavioral Pharmacology*. She has been elected to serve at various leadership levels of the Behavioral Pharmacology Division of ASPET and, since 2017, has served as an ad hoc study section member at NIH and the Department of Veteran Affairs.

External Reviewers:

Reviewer A: "...Emily has built a well-balanced portfolio, and is deserving of this promotion to Associate Professor with tenure. Having served on the Institutional Promotion and Tenure Committee here at [my institution] I can say, first-hand, that her packet for promotion would be competitive at [my institution]. Emily is well-respected and very much liked by all her peers. She

will undoubtedly continue to be a successful investigator and valuable contributor to your department and institution. Dr. Emily Jutkiewicz's promotion has my strong support."

Reviewer B: "... I consider Dr. Jutkiewicz's portfolio to be excellent, and expect that she would meet the requirements for promotion and tenure at my Institution. Her trajectory is strongly positive, and I recommend her without reservation."

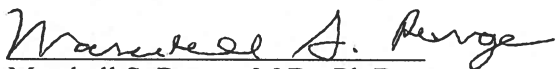
Reviewer C: "I recommend Emily very highly to you as an exceptionally suitable and qualified candidate. Frankly, I had assumed that Emily was considered for promotion to Full Professor...I consider her studies with mu and delta opioid receptors extremely promising, particularly in dissecting the molecular properties for effective analgesics from those that have abuse liability...By all common indicators of qualifications – research productivity, research funding, mentorship, academic citizenship, national and international visibility – Dr. Jutkiewicz meets and exceeds the requirements at the most selective institutions."

Reviewer D: "I am writing in enthusiastic support of the proposed promotion of Dr. Emily Jutkiewicz to the rank of Associate Professor with Tenure (Instructional Track). I'm afraid my letter will be brief given time constraints, but I consider Dr. Jutkiewicz to be an exceptionally talented scientist who has certainly influenced my work...Among her other areas of interest, Dr. Jutkiewicz has also focused on pharmacology of delta opioids, and I consider her work to be first rate and to have made a significant contribution to the field...In addition to having high regard for the quality of her work, I can also state that her level of grant funding (PI on active R01 and R21, co-I on other grants) and her record of publications would qualify her for excellence in research, which would be a criterion for promotion to associate professor at my institution...In summary, I support Dr. Jutkiewicz's promotion without reservation."

Reviewer E: "Dr. Jutkiewicz has transitioned to an independent researcher who works with a productive interdisciplinary group of colleagues. Her record of extramural funding, research publication and mentorship suggests that she is on a successful trajectory at the University of Michigan. I fully support her promotion to the rank of Associate Professor with tenure, and I believe that her case would be successful at both my current [institution] and former...institutions."

Summary of Recommendations:

Dr. Jutkiewicz is an excellent educator, a model citizen of our institution, and an innovative and outstanding scientist. She is a nationally recognized expert in delta opioid pharmacology, behavioral pharmacology, and the mechanisms of drug addiction. I am pleased, therefore, to recommend Emily M. Jutkiewicz, Ph.D. for promotion to associate professor of pharmacology, with tenure, Department of Pharmacology, Medical School.



Marshall S. Runge, M.D., Ph.D.
Executive Vice President of Medical Affairs
Dean, Medical School

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