

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF SURGERY
DEPARTMENT OF PATHOLOGY

Pan Zheng M.D., Ph.D., associate professor of surgery, with tenure, Department of Surgery, and associate professor of pathology, without tenure, Department of Pathology, Medical School, is recommended for promotion to professor of surgery, with tenure, Department of Surgery, and professor of pathology, without tenure, Department of Pathology, Medical School.

Academic Degrees:

Ph.D.	1994	Yale University
M.D.	1987	Peking Union Medical College

Professional Record:

2006-present	Associate Professor of Surgery, University of Michigan
2006-present	Associate Professor of Pathology, University of Michigan
2003-2006	Associate Professor of Pathology, Ohio State University
1999-2006	Full Member, Immunology Program, Ohio State University
1998-1999	Associate Member, Immunology Program, Ohio State University
1998-2003	Assistant Professor of Pathology, Ohio State University
1998	Research Assistant Professor of Pathology, Ohio State University

Summary of Evaluation:

Teaching: Dr. Zheng is recognized as an enthusiastic and effective teacher. She has mentored a number of graduate students and post doctoral fellows. She has provided one-on-one teaching both in her research laboratory and in pathology. She has also given a number of lectures. She has served as both a dissertation advisor and as the chair of the Dissertation Committee. While at Ohio State University and at the University of Michigan she has taught a number of oncology and immunology courses. While at Ohio State and since arriving at Michigan, she has participated in the weekly Immunology Journal Club meetings which involve residents, medical students, graduate students and post doctoral fellows. She has also been involved in research seminars in the Department of Surgery and the Department of Urology.

Research: Dr. Zheng has established herself academically in both immunology and pathology. Her research concentrates primarily on cancer biology and immunology, specifically the role of TSC-mTOR signaling pathway in hematopoietic stem cells (HSC); cancer biology, in prostate cancer in mice and in human; molecular mechanisms of tumor evasion of host immunity; immune recognition and immune regulation in prostate cancer; and phosphatase and tumor suppressor. She has more than 74 peer and non-peer reviewed publications, 14 review articles and three book chapters. She is published in outstanding journals such as *Cancer Cell* and *Science Signaling*. She has presented her

work extensively outside the institution. She currently holds an R01, and RC1, and a Department of Defense grant.

Recent and Significant Publications:

Wang LZ, Liu RH, Li W, Chen C, Katoh H, Chen GY, McNally BA, Lin L, Zhou P, Zuo T, Cooney KA, Liu Y and Zheng P: Somatic Single-hits Inactivate the X-linked Tumor Suppressor *FOXP3* in the Prostate. *Cancer Cell* 16:336-346, 2009.

Zhou P, Zheng X, Zhang H, Liu Y and Zheng P: B7 blockade alters the balance between regulatory T cells and tumor-reactive T cells for immunotherapy of cancer. *Clin Cancer Res* 15:960-970, 2009.

Zhou P, Fang XF, McNally BA, Yu P, Zhu MZ, Fu YX, Wang LZ, Liu Y and Zheng P: Targeting Lymphotoxin-mediated Negative Selection to Prevent Prostate Cancer in Mice with Genetic Predisposition. *Proc Natl Acad Sci U S A*. 106:17134-17139, 2009.

Chen C, Liu Y, Liu Y and Zheng P: mTOR Regulation and Therapeutic Rejuvenation of Aging Hematopoietic Stem Cells. *Science Signaling* 2:ra75, 2009.

Chen C, Liu Y, Liu R, Ikenoue T, Guan KL, Liu Y and Zheng P: TSC-mTOR maintains quiescence and function of hematopoietic stem cells by repressing mitochondrial biogenesis and reactive oxygen species. *J Exp Med* 205:2397-2408, 2008.

Service: Dr. Zheng's service includes her current membership on the Student Seminar Committee in the Cellular and Molecular Biology Program. She has also served on the Immunology Program's Candidacy Exam Committee. At the University level, she serves on the Faculty Senate. Nationally, Dr. Zheng has served as reviewer for *Journal of Immunology*, *International Journal of Cancer*, *Cancer Research*, *Human Molecular Genetics*, among others. Dr. Zheng has also served as a reviewer for grants sponsored by various organizations including the NIH, DOD, the Italian Association for Cancer Research, and the British Columbia Health Research Foundation.

External Reviewer:

Reviewer A: "She has clearly taken the lead on the molecular aspects of inflammation and carcinogenesis. This is more than evident in the recent papers published with her as the contributing author in very high-impact journals. It is also evident in the more frequent invitations to her as a seminar speaker or a conference speaker. Lastly, her score on the latest R01 application is something we all dream about either as Department Chairs for our faculty or as grant applicants."

Reviewer B: "Dr. Zheng has clearly established a professional niche in the fields of tumor immunology and cancer biology. Her research is very exciting, original and highly innovative...Dr. Zheng devotes much time assuming the professional responsibilities associated

with a career in science. She acts as a reviewer for...and has an extensive history as a grant reviewer for federal and non-profit foundation sponsors. Along with her peer-review services, she devotes time to education by teaching/coordinating classes and journal clubs. I firmly believe that Dr. Zheng certainly ranks high among her peers and is well qualified for promotion to professor at any major institution..."

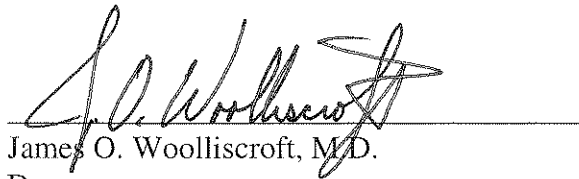
Reviewer C: "mTOR and FOXp3 are the frontier at the present and Pan is the key pioneer in my opinion and, in terms of originality, I would actually rate her above (probably more popular) scientists in the field such as Alexander Rudensky."

Reviewer D: "Specifically, her paper in PNAS (2009) demonstrating that a non-antigen specific approach to cancer prevention can be effective in a spontaneous prostate cancer model, was a highly significant finding. It should, and I am sure, will be explored, for therapeutic purposes. Secondly, her work on FoxP3 as a tumor suppressor (Cancer Cell 2009) is a major landmark in prostate cancer biology, and cancer biology in general."

Reviewer E: "I have followed her work since [meeting her at a Keystone Symposium] and am impressed both by their elegance and by their importance to the field of cancer immunology and cell biology...National and international recognition of Dr. Zheng's work is evident based on her more than 90 publications, including those in leading journals...Based on these observations, I think she is well qualified to be promoted to the rank of Full Professor..."

Summary of Recommendation:

Dr. Pan Zheng is a nationally and internationally recognized scholar in the field of immunology. She has a well-documented excellent teaching record and has published a large volume of high impact papers. She provides service to her departments, the medical center, and to the national arena in her specialty. I am pleased to recommend Pan Zheng, M.D., Ph.D. for promotion to professor of surgery, with tenure, Department of Surgery, and professor of Pathology, without tenure, Department of Pathology, Medical School.



James O. Woolliscroft, M.D.

Dean

Lyle C. Roll Professor of Medicine

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