

PROMOTION RECOMMENDATION  
UNIVERSITY OF MICHIGAN  
MEDICAL SCHOOL  
DEPARTMENT OF UROLOGY

Approved by the Regents  
May 20, 2010

Jill A. Macoska, Ph.D., associate professor of urology, with tenure, Department of Urology, Medical School, is recommended for promotion to professor of urology, with tenure, Department of Urology, Medical School.

Academic Degrees:

Ph.D.	1988	City University of New York
M.Phil.	1986	City University of New York
B.A.	1978	Kent State University, Kent

Professional Record:

2001-present	Associate Professor of Urology, University of Michigan
1995-2001	Assistant Professor of Surgery, Division of Urology, University of Michigan
1994-1995	Lecturer, Department of Surgery, Division of Urology, University of Michigan

Summary of Evaluation:

Teaching: Dr. Macoska has focused her teaching in the laboratory venue where she has trained students in research techniques, at the undergraduate, graduate, and postdoctoral level. Additionally, she is skilled in classroom instruction, technology instruction related to gene expression profiling and genotyping technology, and graduate student seminars. She also created a short course in biostatistics for urology residents and fellows. Teaching evaluations gave her good marks for courses in Pharmacology 502 where it was noted that "Jill is very good on issues of grantmanship" and her class on Aging and Cancer where her scores were also quite high in the 4 to 5 range on the Likert scale.

Research: Dr. Macoska's research is in the realm of prostate genetics and growth and the development of benign prostatic hyperplasia in the aging prostate. She is recognized as an excellent collaborator both internally and extramurally. Present grant funding consists of an R01 grant to study mechanisms of structural change in the aging prostate. This grant will run through 2012. She has other grants supported by the NIH which extend out as far as 2013. She has trained eight post-doctoral fellows and currently has two in her laboratory. She has had visiting professorships and invited presentations at several prestigious institutions over the years. She has one patent under review and has produced approximately 47 peer-reviewed publications, three book chapters, 29 abstracts, one guest editorial and one review article. Since her last promotional step, she has produced 20 peer-reviewed papers of which 11 have been as first or last author. Her H-factor at last inspection was 22.

#### Recent and Significant Publications:

Macoska JA, Begley LA, Dunn RL, Siddiqui J, Wei JT, Sarma AV: Pilot and feasibility study of serum chemokines as markers to distinguish prostatic disease in men with low total serum PSA. *The Prostate* 68:442-452, 2008.

Begley LA, Kasina S, Mehra R, Adsule S, Admon AJ, Lonigro RJ, Chinnaiyan AM, Macoska JA: CXCL5 promotes prostate cancer progression. *Neoplasia* 10:244-254, 2008.

Macoska JA, Adsule S, Tantivejkul K, Wang S, Pienta K, Lee CT: Gossypol promotes apoptosis of bladder cancer cells in vitro. *Pharmacological Research* 58:323-331, 2008.

Begley LA, MacDonald JW, Day ML, Macoska JA: CXCL12 activates a robust transcriptional response in human prostate epithelial cells. *Journal of Biological Chemistry* 282:26767-26774, 2007.

Begley L, Monteleon C, Shah RB, Macdonald JW, Macoska JA: CXCL12 overexpression and secretion by aging fibroblasts enhance human prostate epithelial proliferation in vitro. *Aging Cell* 4:291-298, 2005.

Service: In terms of organizational service, Dr. Macoska has been an excellent citizen; she directs the department's Division of Laboratory Research and has been director of the Affymetrix and cDNA Microarray Core. She also directs the Urology Research Training Program and was associate director of the George M. O'Brien Urology Research Center. Nationally, she is quite active in the Society of Basic Urological Research and is a member of three editorial boards in addition to providing service as a peer-reviewer for a large number of journals.

#### External Review:

Reviewer A: "Dr. Macoska has clearly established herself in the field of prostate cancer genetics and growth...Dr. Macoska currently performs in the top ranks of her field. She has been invited to several prominent institutions as a visiting professor and has served on study sections for the NIH and the Department of Defense. She has an excellent track record of extra-mural funding. She is well respected by her peers."

Reviewer B: "I can assure you that she is one of a handful of basic science investigators around the country who served the profession proudly and anyone would be thrilled to recruit and have her on their faculty as well...She is a sought after speaker at national conferences on the biology of aging and prostate disease. There is no doubt that she has a national and international professional reputation."

Reviewer C: "Dr. Macoska has had 7 publications in Cancer Research which is a high impact journal in oncology. Her 7 publications have 665 citations (ISI Web of Knowledge, Thompson Reuters search). Therefore, these facts demonstrate that she has continued creativity, produced

high quality work, and has significantly impacted her field over the years. I will also add that Dr. Macoska's work in the field of prostatic inflammatory signaling that might be associated with development of prostatic cancer is currently one of the 'hot topics' in prostate cancer research, so she is in an ideal position to make even further significant impact in this area...I would rank Dr. Macoska in the upper echelon (top 10%) among her peers of basic urologic researchers."

Reviewer D: "...Dr. Macoska is clearly an integral and key member of a number of the interdisciplinary activities ongoing at your institution. Her expertise in cancer cytogenetics, and prostate cancer in particular, has served the institution very well. The recognition of interdisciplinary research is always challenging but in this instance I believe it is an asset."

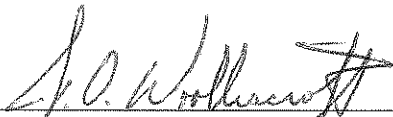
Reviewer E: "Importantly, Jill is considered to be an innovative scientist. Her work on the allelic loss of chromosome regions 8p and 10p in tumor lines and human prostate cancers was considered extremely novel and innovative in the late 1990s. The findings that came from this work have had some considerable impact. More recently, she has expanded her work to include also benign disease of the prostate (BPH). Her work is considered important and timely in the field of urologic research."

Reviewer F: "...her work has impacted the field and as evidenced from her academic appointments, she has progressed very nicely regarding directing an O'Brien Center as well as directing a urology research program. She has also trained a number of strong post-doctorate fellows and continues to have an extensive record in peer-reviewed funding and focused research in the prostate."

Reviewer G: "The quality of her scholarly work is outstanding, if not prolific, with 46 peer reviewed publications. These publications appear not just in the urology journals but in other high quality basic science journals. Dr. Macoska has also been a Visiting Professorship [sic] at prestigious institutions. She has trained 10 postdoctoral fellows and functions as Director of Urologic Research in the Department of Urology."

Summary of Recommendation:

Dr. Macoska is a valued member of the urology training program and research effort. She is well respected in the field of urology and is an excellent teacher and citizen. I highly recommend her for promotion to professor in the Department of Urology.

  
James O. Woolliscroft, M.D.  
Dean  
*Lyle C. Roll Professor of Medicine*

May 2010