

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN MEDICAL SCHOOL
DEPARTMENT OF INTERNAL MEDICINE
DEPARTMENT OF HUMAN GENETICS

Approved by the Regents
May 17, 2007

Elizabeth M. Petty, M.D., Associate Professor of Internal Medicine, with tenure, Department of Internal Medicine, and Associate Professor of Human Genetics, without tenure, Department of Human Genetics, Medical School, is recommended for promotion to Professor of Internal Medicine, with tenure, Department of Internal Medicine, and Professor of Human Genetics, without tenure, Department of Human Genetics, Medical School.

Academic Degrees:

M.D.	1986	University of Wisconsin
B.A.	1981	Clarke College, Dubuque, IA

Professional Record:

2000-Present	Associate Professor of Internal Medicine and Associate Professor of Human Genetics, University of Michigan
1996-2000	Assistant Professor of Human Genetics, University of Michigan
1994-2000	Assistant Professor of Internal Medicine, University of Michigan

Summary of Evaluation:

Teaching: Dr. Petty has made a number of significant contributions to the scientific and clinical teaching programs in the Medical School. In 1994, Dr. Petty began teaching as an invited lecturer in molecular genetics for genetic counselors, house officers, fellows, and medical students. To date, Dr. Petty continues to be a faculty mentor and clinical supervisor for master-level students, faculty mentor for the Undergraduate Research Opportunity Program and weekly case presenter for the Medical Genetics Clinical Conference. Her teaching evaluations in each of these activities have been strong. Her Medical School teaching has been similarly recognized by students as outstanding and she received a Medical School Component 1 Teaching Award of Excellence in 2001. Her high regard as an educator is also reflected by her mentoring of a total of 27 graduate students and her service on 12 Dissertation Committees. Independent of her University teaching activities, Dr. Petty serves as a faculty mentor for the Biomedical Research Program, faculty mentor for the Human Genetics course 821, faculty mentor for the Predoctoral Genetics Training Program, faculty supervisor of the fourth-year Medical Student Outpatient Elective in Medical Genetics as well as lecturer and Director of the Career Development Seminar series for first- and second-year medical students.

Research: Since joining the University of Michigan, Dr. Petty has focused her basic science research efforts on novel genetic mechanisms that affect cell cycle regulation, genomic stability, cell division and malignant progression in breast and ovarian cancers. These studies are complemented by her continued interest in the clinical and molecular characterization of genetic syndromes as well as the sociopolitical implications of medical genetics on the public at large.

Since assuming the rank of Associate Professor in 2000, Dr. Petty has authored an additional 28 peer-reviewed manuscripts.

In key work published in 2001 (*Neoplasia* 3:521, 2001), Dr. Petty identified discrete amplicons on human chromosome 17 which led to the characterization of a series of new potential oncogene candidates in breast cancer. Subsequent efforts led to the identification of SEC14L1, a gene that may prove to play important roles in eye development and disease (*Mammalian Genome* 12:925, 2001). Finally, while endeavoring to identify mitotic checkpoint genes important in mammary tumorigenesis, Dr. Petty focused on CHFR, a critical gene that regulates cell cycle progression in breast cancer cells (*Molecular Carcinogenesis* 39:26, 2004). In the clinical arena, Dr. Petty discovered a new variant of mandibulofacial dysostosis syndrome (*Journal of Medical Genetics* 39:484, 2002) while expanding her interests relating to the public's understanding of medical genetics-related issues (*Group Processes Intergroup Relations* 9:77, 2006).

Consistent with her standing in the field, Dr. Petty's laboratory is well funded by grants from the National Institutes of Health and the Department of Defense. Since her appointment to the rank of Associate Professor in 2000, she has participated in more than 16 extramural invited presentations. At the University of Michigan, she received the Regents' Award for Distinguished Public Service in 2000, was named one of "America's Top Pediatricians" by the Consumers Research Counsel of America in 2006, and was most recently appointed Associate Dean for Student Programs in the Medical School.

Recent and Significant Publications:

Jayarathne TE, Ybarra O, Sheldon JP, Brown TN, Feldbaum M, Pfeffer CA, Petty EM: White Americans' genetic lay theories of race differences and of sexual orientation: Relationship to prejudice toward blacks and gay men and lesbians. *Group Processes & Intergroup Relations* 9:77-94, 2006.

Erson AE, Petty EM: CHFR-associated early G2/M checkpoint defects in breast cancer cells. *Molecular Carcinogenesis* 39:26-33, 2004.

Hedera P, Toriella HV, Petty EM: Novel autosomal dominant mandibulofacial dysostosis with ptosis and facial asymmetry: Clinical description and exclusion of *TCOF1*. *Journal of Medical Genetics* 39(7):484-488, 2002.

Erson AE, Niell BL, DeMers SK, Rouillard JM, Hanash S, Petty EM: Overexpressed genes, ESTs and characterization of distinct amplicons on 17q23 in breast cancer cells. *Neoplasia* 3:521-526, 2001.

Kalikin LM, Bugeaud EM, Palmbox PL, Lyons RH Jr, Petty EM: Genomic characterization of human *SEC14L1* splice variants within a 17q25 candidate tumor suppressor gene region and identification of an intronic expressed sequence tag. *Mammalian Genome* 12(12):925-929, 2001.

Service: Dr. Petty has served on numerous national committees and faculty committees at the University of Michigan, and has devoted substantial effort towards community service in representing the University of Michigan. She has served on several committees for the National

Institutes of Health, Department of Defense, Cancer Research UK Grants Committee and Burroughs Wellcome Trust, as well as being an ad-hoc reviewer for several NIH study sections. In addition to participating actively in a large number of faculty national committees, Dr. Petty serves on the Department of Internal Medicine Awards Committee, Executive Faculty Advisory Committee, Genetic Counseling Training Program, Department of Human Genetics, Steering Committee for the Life Sciences Values and Society Program and the Committee for Development of the University of Michigan Genetics in Health and Medicine Center, Medical School.

Professional Work: Dr. Petty is a highly accomplished clinician. She serves as a Genetics Counselor in the Department of Human Genetics, University of Michigan. In addition, she plays a major role as Medical Director, Genetic Counselor Training Program, Department of Human Genetics; Associate Director of Education for Genetics Residency Program, Molecular Diagnostics Laboratory, Department of Pathology; and Associate Dean for Student Programs, Medical School. Until recently, she served as the Medical Genetics Clinic Director and Service Chief, Office of Clinical Affairs, Department of Internal Medicine, Division of Molecular Medicine & Genetics at the University of Michigan.

External Review:

Reviewer A: "...Dr. Petty is a highly productive scholar who continues to do clinical work, teach and speak in a whole host of venues, provide valuable service throughout the academy and beyond, with particular leadership in my view in addressing the complex social consequences of our greater understanding of genetics."

Reviewer B: "...Dr. Petty has made important contributions to understanding the genetic basis of cancer, but even more so has contributed to the academic mission of the University of Michigan..."

Reviewer C: "Her list of research publications in quality journals, her external memberships and contributions to the major peer organizations in our field demonstrate excellence in her field...I am confident that you have a true scholar and excellent teacher as an applicant who will continue to excel for the remainder of her career."

Reviewer D: "The strongest, most succinct statement I can make is that I would recruit her to our institution as a Professor with tenure in a heartbeat."

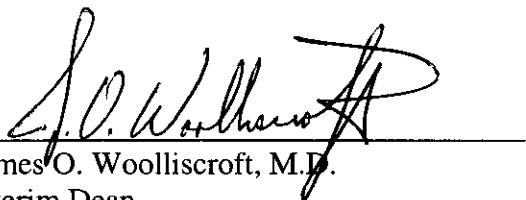
Reviewer E: "Dr. Petty's educational and administrative responsibilities at the university level are prodigious....it [is] remarkable to note that she has combined her formal training in pediatrics and her academic appointment in internal medicine so successfully that she has received recognition from her peers, both as an outstanding internist and an outstanding pediatrician!"

Reviewer F: "Dr. Petty's ability to bring science to the level of the lay person is a unique skill that attests to her broad knowledge and understanding. She has put forth tremendous efforts

into outreach to diverse communities that often do not have good contact with the scientific and medical community.”

Summary of Recommendation:

In summary, Dr. Petty is a highly valued physician-scientist, particularly within the fields of cancer genetics, epidemiology, and biostatistics. She is a leader in the field of cancer epidemiology, is regularly invited to speak at major meetings, is recognized as a highly lauded educator and is a recipient of both local and national honors for her scientific contributions. I am delighted to recommend Dr. Elizabeth M. Petty for promotion to the Professor, with tenure, in the Department of Internal Medicine and Professor, without tenure, in the Department of Human Genetics.

A handwritten signature in black ink, appearing to read "J. O. Woolliscroft", written over a horizontal line.

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

May 2007