

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF INTERNAL MEDICINE

Approved by the Regents
May 14, 2009

Raymond L. Yung, MB.Ch.B., associate professor of internal medicine, with tenure, Department of Internal Medicine, Medical School, is recommended for promotion to professor of internal medicine, with tenure, Department of Internal Medicine, Medical School.

Academic Degrees:

MB.Ch.B. 1986 University of Liverpool

Professional Record:

2004-present Associate Professor Internal Medicine, University of Michigan
1996-2004 Assistant Professor of Internal Medicine, University of Michigan
1994-1996 Lecturer, Department of Internal Medicine, University of Michigan

Summary of Evaluation:

Teaching: Dr. Yung is a gifted teacher who works with medical students, internal medicine residents, and fellows in geriatric medicine and rheumatology. He took a major leadership role as director of the M-2 Musculoskeletal Sequence from 2001-2007, doing an outstanding job. His teaching scores are uniformly outstanding, averaging well over 4 on a scale of 1-5, where 5 is best (4 for M1 and M2 students; over 4.6 for internal medicine residents; 4.5 and above for fellows in geriatric medicine). He is consistently recognized to be among the top 50 teaching faculty in the Department of Internal Medicine as recognized by the department's Teaching Incentive Program. Dr. Yung's geriatric rheumatology clinic serves as a highly sought after teaching clinic for fellows and residents. He is an outstanding speaker who is frequently asked to lecture locally, nationally and internationally.

Research: Since his promotion to associate professor in 2004, Dr. Yung has established an independent research laboratory focusing on key factors that determine the traffic of autoreactive T cells *in vivo*, the influence of female gender and sex hormones on T cell homing, and especially the influence of aging on T cell traffic. His series of papers documenting the role of the chemokine system in T cell aging is widely recognized and has formed the basis for successful R01 grants from NIH and VA Merit Review funding. Most recently, he has developed methods to study the effects of aging on dendritic cell function and the role of aged dendritic cells in defective tumor immuno-surveillance function. Dr. Yung has established a strong and consistent record of external grant funding. In addition to his two current R01 grants and VA Merit Review grant as principal investigator, he was recipient of a prestigious Paul Beeson Physician Faculty Scholar in Aging Research Award from the American Federation for Aging Research, and he collaborates with a number of faculty on successfully funded grants. He

now has mentored a number of junior people through post doctoral fellowships and into junior faculty appointments.

Recent and Significant Publications:

Grolleau-Julius A, Harning EK, Abernathy LM, Yung R: Impaired dendritic cell function in aging leads to defective antitumor immunity. *Cancer Research* (in press).

Yung R, Mo RR, Grolleau-Julius A, Hoeltzel M: The effect of aging and caloric restriction on murine CD8+ T cell chemokine receptor gene expression. *Immunity & Ageing* 4:8-17, 2007.

Grolleau-Julius A, Garg MR, Mo RR, Stoolman LL, Yung RL: Effect of aging on bone marrow-derived murine CD11c⁺CD4⁻CD8⁻ dendritic cell function. *Journal of Gerontology Biological Science* 61A (10):1039-1047, 2006.

Mo RR, Chen J, Grolleau-Julius A, Murphy HS, Richardson BC, Yung RL: Estrogen regulates CCR gene expression and function in T lymphocytes. *Journal of Immunology* 174:6023-6029, 2005.

Murphy HS, Sun Q, Murphy BA, Mo RR, Huo J, Chen J, Chensue SW, Adams M, Richardson BC, Yung R: Tissue-specific effect of Estradiol on endothelial cell-dependent lymphocyte recruitment. *Microvascular Research* 68(3):273-285, 2004.

Service: Dr. Yung is playing an increasing leadership role here. He currently serves as associate director for research for the Geriatric Research, Education and Clinical Center at the VA Ann Arbor Health Care System. He is co-director of the Pilot and Exploratory Studies Core of the NIA-funded Claude D. Pepper Older Americans Independence Center at the University of Michigan and serves on the Center's Research Operating Committee. Nationally, Dr. Yung is active in the Association of Specialty Professors, where he serves on its geriatrics committee. He is very active in national peer review at the NIH and for private foundations. He helped to establish and served as co-chair of the Geriatric Rheumatology Study Group for the American College of Rheumatology and has created a geriatric rheumatology and musculoskeletal aging special interest group for the American Geriatrics Society.

Professional Work: Dr. Yung is dually certified in rheumatology and in geriatric medicine, and participates actively and with great distinction in clinical services in both divisions. He serves as an attending physician in the geriatric rheumatology clinic and on inpatient consultation service activities in rheumatology and geriatrics.

External Review:

Reviewer A: “Dr. Yung has established himself as an important contributor to the cellular immunology of aging...His recent research funding is outstanding with two current NIH grants and a Merit Review.”

Reviewer B: “He is a scientist whose opinion is taken very seriously, as his judgment with regard to the talent and potential of rising investigators is consistently superior. He serves in an important position of leadership in our discipline of gerontology and geriatric medicine as an exemplar of the important role that scientists like himself can play in bridging between and among all of the relevant disciplines and which must become involved in providing high quality and continuously improved care of an aging population.”

Reviewer C: “In all aspects, teaching, research, service and clinical care, he has demonstrated excellence and is recognized nationally and internationally as an irreplaceable influence at the interface of geriatrics and rheumatology.”

Reviewer D: “Dr. Yung has had major responsibilities for teaching within the University of Michigan School Medicine, with major educational contributions which are somewhat unusual for someone with his level of research commitment. The sheer number of educational presentations is, by itself, quite significant for a well-funded clinician-scientist...”

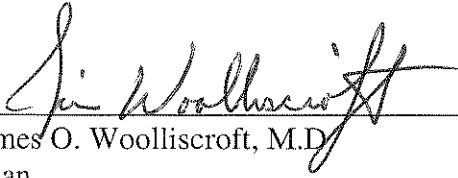
Reviewer E: “During this time I have seen Ray develop into a national, and recently an international, authority in the area of aging and the immune system. I would rate him among the top ten investigators in this area of research nationally...His background and publications have given him a special niche in a focused and highly important field which has resulted in invitations to present his work at many institutions across the country, national meetings of the American College of Rheumatology (ACR) and the American Geriatrics Society (AGS), as well as international meetings in China, India, and France.”

Reviewer F: “Dr. Yung is viewed as an outstanding immunologist and rheumatologist who is making important contributions to our understanding of immunological changes that accompany the aging process. I believe that his work is well-focused, original, and important.”

Reviewer G: “In terms of professional niche, his appointments to multiple review groups reflect his stature as a leading investigator in aging and immune function. Because of his unique perspective from both fields, he is especially sought after by organizations that are seeking to fund research and research training at this interface.”

Summary of Recommendation:

Dr. Yung is nationally and internationally recognized as a leader in the area of geriatric rheumatology. He is known as an outstanding clinician and educator. He is a highly productive physician scientist with an independent research laboratory that is very well funded from NIH and VA sources and is providing new insight into understanding of how T lymphocytes and dendritic cells are regulated by aging. He has developed outstanding leadership skills, serving in important leadership positions locally and is active in national organizations and national peer review. He has been actively recruited for senior faculty leadership positions at multiple institutions. I strongly recommend that Dr. Raymond Yung be promoted to professor, with tenure, in the Department of Internal Medicine.



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

May 2009