

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN MEDICAL SCHOOL
DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Philip D. King, Ph.D., Assistant Professor of Microbiology and Immunology, Department of Microbiology and Immunology, Medical School, is recommended for promotion to Associate Professor of Microbiology and Immunology, with tenure, Department of Microbiology and Immunology, Medical School.

Academic Degrees:

Ph.D.	1991	University College London
B.Sc.	1986	University of Glasgow

Professional Record:

2002–Present	Assistant Professor of Microbiology and Immunology, University of Michigan
1999–2002	Assistant Professor of Immunology, Tri-Institutional M.D./Ph.D. Program, Rockefeller University, Sloan-Kettering Institute and Weill Medical College of Cornell University
1998–2002	Assistant Professor of Immunology in Medicine, Weill Medical College of Cornell University
1997–2002	Assistant Scientist, Research Division, Hospital for Special Surgery, Weill Medical College of Cornell University

Summary of Evaluation:

Teaching: Dr. King participates in graduate and medical school courses on immunology, including two different host defense-related courses for medical students (spanning the transition to the new medical curriculum), and an advanced graduate level course on Molecular and Cellular Immunology. This entails approximately 30 hours of classroom contact time per year. He is an active faculty advisor and participant in the student seminar courses associated with the Department of Microbiology and Immunology and the Graduate Program in Immunology, and in the post-doctoral student lectures of the Rheumatology Training Program. This represents approximately 25 hours of classroom contact time. In addition, he serves as thesis advisor to three graduate students and as a member of the thesis advisory committees for three others. He also serves on the Postdoctoral Advisory Committee of the Department. He is admired for his creativity and clarity in the classroom. Students and colleagues have noted his ability to present difficult subjects clearly, as well as his diligent efforts to help students understand those subjects. His new lectures for the revised medical school course in host defense were recognized as succinct and engaging. Students especially appreciate his efforts to connect basic immunology to the practice of medicine.

Research: Dr. King investigates molecular events regulating T lymphocyte activation, survival and death, emphasizing factors that modulate signals during antigen presentation. He has concentrated

on the role of T cell-specific adaptor (TSAd) in immune responses and autoimmunity, and has recently begun to expand into other areas of T cell signaling. This work has important implications for understanding the causes and treatment of T cell-related diseases, including infectious diseases, allergic hypersensitivity, cancer, and autoimmunity.

Dr. King is also developing and studying transgenic mice with conditional mutations in signaling proteins. He has maintained a laboratory continuously funded by the NIH since becoming an independent investigator. Two additional grant proposals, in various stages of development and review, examine roles for RasGAP and protein phosphatases in T cell receptor signaling. He has four ongoing collaborations with other groups: Luminita Pricop at Weill Medical College, William Bracken at Weill Medical College, David Rawlings at the University of Washington School of Medicine, and Gonzalo Garcia at UMMS; as well as two planned collaborations at UMMS (with J. Swanson and G. Luker).

Colleagues in and outside of the University of Michigan admire Dr. King's creativity and experimental rigor. A serious scholar, he examines data critically, considers arguments thoughtfully, and reasons carefully. He is unafraid to venture into new domains of experimental science, yet he is never so bold as to overstate his case. He maintains high standards for the research done in his laboratory, and he supports the students and fellows engaged in those efforts. He has presented his work at national and international meetings, served as a reviewer for prestigious journals, and been a member of NIH study sections.

Dr. King has authored 25 peer-reviewed articles; four additional manuscripts have been submitted or are in revision. Dr. King served as first or senior author on 16 of the 25 articles. Twenty three of his published peer-reviewed articles have been cited in the literature a total of 651 times according to Science Citation Index (as of October 25, 2005).

Recent and Significant Publications:

Marti F and King PD: The p95-100 kDa ligand of the T cell-specific adapter (TSAd) protein Src-homology-2 (SH2) domain implicated in TSAd nuclear import is p97 Valosin-containing protein (VCP). *Immunology Lett* 97:235-243, 2005.

Drappa J, Kamen LA, Chan E, Georgiev M, Ashany D, Marti F and King PD: Impaired T cell death and lupus-like autoimmunity in T cell-specific adapter protein-deficient mice. *J Exp Med* 198:809-821, 2003.

Marti F, Post NH, Chan E and King PD: A transcription function for the T cell-specific adapter (TSAd) protein in T cells: Critical role of the TSAd SH2 domain. *J Exp Med* 193:425-430, 2001.

Marti F, Krause A, Post NH, Lyddane C, Dupont B, Sadelain M and King PD: Negative-feedback regulation of CD28 costimulation by a novel mitogen-activated protein kinase phosphatase, MKP6. *J Immunol* 166:197-206, 2001.

Marti F, Xu CW, Selvakumar A, Brent R, Dupont B and King PD: LCK phosphorylated human killer cell inhibitory receptors recruit and activate phosphatidylinositol 3-kinase. *Proc Natl Acad Sci USA* 95:11810-11815, 1998.

Service: Dr. King serves on the editorial boards of the Alliance for Cell Signaling and the Human Protein Resource Database, and as an ad hoc reviewer for eight journals, including the *Journal of Experimental Medicine*, the *Journal of Immunology*, and the *Proceedings of the National Academy of Sciences*. He was an ad hoc reviewer for the NIH Experimental Immunology study section and a reviewer for Molecular Cell Biology at the National Science Foundation. At the University of Michigan, he served as a reviewer for the Burroughs Wellcome Fund Clinical Scientist Awards in Translational Research and on the Immunology Program Preliminary Exam Committee. In the Department of Microbiology and Immunology, he served on important standing committees, including the Awards, Promotions and Advancement Committee and the Postdoctoral Advisory Committee. He also assumed a major leadership role in a recent ad hoc Immunology Faculty Search Committee. He has mentored one research investigator, six postdoctoral fellows, and three graduate students.

External Review:

Reviewer A: "...it is clear to me that he has established a well-defined niche, in which he will continue to make important contributions in the years to come....The original scientific contributions made by Dr. King as an independent investigator attest to his creativity and his potential to make seminal contributions to the fundamental, and incompletely understood, problem in T cell biology."

Reviewer B: "Phil has always impressed me as being a very creative, inquisitive thoughtful and rigorous investigator who is willing to explore uncharted territory and address rather important questions....Phil continues to display excellence in academic research in T cell activation and autoimmunity and runs near the head of the pack amongst his peers in his field of interest."

Reviewer C: "It is my impression, having served on the faculty at several institutions, and reviewing programs at many others, that Dr. King's scholarship makes him an excellent candidate for promotion to Associate Professor with tenure."

Reviewer D: "As you are aware, Dr. King is a well-trained immunologist, who has made important contributions to our understanding of costimulatory receptor signal transduction..."

Reviewer E: "Although this is a very competitive field, Dr. King is already well known among his peers both nationally and internationally...Compared to his peers, Dr. King is doing very well and is only surpassed by colleagues who have been much longer in the field. I believe he shows great promise to become a leader in his field in the coming years."

Reviewer F: "Of note, several additional measures also highlight Dr. King's growing national prominence including: successful participation in collaborative research programs; participation in the review of manuscripts for several immunological based journals; ad hoc participation on several NIH study sections; and invited participation in key international scientific forums. Finally, Dr. King has been successful in mentoring several successful graduate students and post-doctoral fellows."

Summary of Recommendation:

Dr. King is an active, contributing member of the Medical School and the University of Michigan. His independent research program continues to expand and he has solid grant support. He contributes generously to immunology research and graduate training in the Department and in the Immunology Graduate Program. He publishes regularly and is actively exploring new questions and state-of-the art research methods. He is a respected colleague and an outstanding teacher of both medical and graduate students. I am pleased, therefore, to recommend Dr. King for promotion to Associate Professor of Microbiology and Immunology, with tenure.



Allen S. Lichter, M.D., Dean
*Newman Family Professor
of Radiation Oncology*

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