

PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF SURGERY

Randall S. Sung, M.D., associate professor of surgery, with tenure, Department of Surgery, Medical School, is recommended for promotion to professor of surgery, with tenure, Department of Surgery, Medical School.

Academic Degrees:

M.D.	1991	Columbia University College of Physicians and Surgeons
A.B.	1985	Harvard University

Professional Record:

2009-present	Associate Professor of Surgery, University of Michigan
2002-2009	Assistant Professor of Surgery, University of Michigan
2000-2002	Assistant Professor of Surgery, Mount Sinai School of Medicine
1997-2000	Lecturer, Department of Surgery, University of Michigan

Summary of Evaluation:

Teaching: Dr. Sung teaches undergraduates, medical students, residents, fellows, physician assistants, nurse practitioners, transplant coordinators, and physicians. Dr. Sung provides didactic lectures to the medical students and residents rotating on the transplant service, topics include Care of the Transplant Patient, Transplant Immunology, Immunosuppression and its Complications, Renal Transplantation, Liver Transplantation, Pancreas and Islet Transplantation, and Organ Donation. He supervises M-4 students during their subinternship rotation, reviewing case presentation and notes educating them on the day-to-day clinical management of patients. Dr. Sung spends one to two hours daily with interns and general surgery residents teaching clinical surgery. In 2015, Dr. Sung became the director of the Transplant Fellowship Training program at UMHS, a two-year program that is accredited by the American Society of Transplant Surgeons (ASTS). The transplant fellowship program accepts one fellow per year. Dr. Sung spends two to four hours per week mentoring fellows on preoperative and postoperative evaluation of the transplant patients in the transplant clinic. In 2006, Dr. Sung organized a weekly Transplant Education Conference for students, resident, and fellows rotating on the Inpatient Transplant Surgery service. The conference continues on a weekly basis, provides CME credit, and is attended by faculty, physicians' assistants, nurses, and pharmacists from the Department of Surgery, Internal Medicine and Pediatrics. In 2011, Dr. Sung became a member of the Program Planning Committee for the American Transplant Congress (ATC). In 2012, he was selected to the Executive Program Planning Committee (ATC), then in 2014, he was selected to co-chair and in 2015, Dr. Sung served as the chair of the Program Planning Committee for the ATC, the world's preeminent scientific meeting in Transplantation. As chair, Dr. Sung leads the planning committee to develop the content for the program, invite speakers, oversee abstract

review and determine the final program. His teaching efforts at the regional level are demonstrated by his role as co-director for multiple CME courses throughout the state of Michigan including “Long-Term Kidney Transplant Care: Updating Protocols” and “Innovations in Kidney Transplantation.”

Research: Dr. Sung’s research interests include deceased donor kidney and pancreas utilization, optimal use of marginal organs, and transplant program performance evaluation. Dr. Sung’s work has been published in one of the highest impact journals in transplantation, namely the *American Journal of Transplantation* and focuses on some of the key factors which are barriers for long-term graft survival, graft function and expanding the donor pool. His most significant contribution focuses on organ selection and allocation, an area he addressed in liver, kidney and pancreas transplantation. The primary focus of his effort has revolved around redefining the allocation and distribution system for cadaveric kidney’s used for transplantation. This has resulted in the construction and implementation of the Kidney Donor Risk Index (KDRI) has essentially revolutionized the analysis and allocation of deceased donor kidneys. He researched the risk of failure of the kidney after transplant balanced against the benefit for a patient that might be healthier enough to receive a better kidney. Utilization of less than perfect kidneys is recognized as a method to transplanting more patients. Dr. Sung’s publication established the utility of the KDRI and documented the impact of implementing that scoring system as a method of allocating kidneys to recipients. Dr. Sung is the co-investigator on one NIH grant and the principal investigator of a clinical trial. He continues to have a mixture of external and internal grant funding for collaborative basic science and clinical trials. Dr. Sung has 17 book chapters and 89 peer-reviewed publications in leading journals such as *JAMA*, *Transplantation*, *American Journal of Transplantation* and *Journal of the American College of Surgeons*. He is an ad hoc reviewer for 18 major journals and has 57 extramural invited lectures.

Recent and Significant Publications:

Luan FL, Schaubel DE, Zhang H, Jia X, Pelletier SJ, Port FK, Magee JC, Sung RS: Impact of immunosuppressive regimen on survival of kidney transplant recipients with hepatitis C. *Transplantation* 85:1601-1606, 2008.

Rao PS, Schaubel DE, Guidinger MK, Andreoni KA, Wolfe RA, Merion RM, Port FK, Sung RS: A comprehensive risk quantification score for deceased donor kidneys: the kidney donor risk index. *Transplantation* 88:231-236, 2009.

Gerber DA, Arrington CJ, Taranto SE, Baker T, Sung RS: DonorNet and the potential effects on organ utilization. *Am J Transplant* 10(4 PART 2):1081-1089, 2010.

Woodside KJ, Merion RM, Leichtman AB, de los Santos R, Arrington CJ, Rao PS, Sung RS: Utilization of kidneys with similar kidney donor risk index values from standard versus expanded criteria donors. *Am J Transplant* 12:2106-2114, 2012.

Sung, RS, Zhang M, Schaubel DE, Magee JC: Reassessment of the survival advantage of simultaneous kidney-pancreas versus kidney-alone transplantation. *Transplantation* 99:1900-1906, 2015.

Service: Dr. Sung's leadership qualities have been recognized at the international, national, regional and institutional level, demonstrated by the numerous committees he has been elected to. In 2013, he was elected to chair the International Advisory Committee for the 2014 World Transplant Congress. In 2010, he participated in the Acute Dialysis Quality Initiative Conference on Hepatorenal Syndrome. In 2015, Dr. Sung was elected to the Leadership Council within in the Organ Donation and Transplantation Alliance, a competitive position that requires review and appointment by the Alliance Board. His national committee membership includes multiple leadership roles in the American Society of Transplant Surgeons (ASTS) as the chair of the Vanguard Committee from 2007-2010 and the chair of the Fellows Symposium Planning Committee from 2011-2013. He has served multiple leadership roles in the American Transplant Congress first servicing on the Program Planning Committee from 2011-2012, then serving on the Planning Executive Committee from 2012-2016, then serving as a co-chair of the Program Planning meeting from 2014-2015. In 2016, Dr. Sung was elected for a three-year term as one of three ASTS Councilors-at-Large by the ASTS membership in recognition of his dedicated service and leadership in transplantation. He currently participates as a member of the Analysis of Performance and National Goals in the Donation and Transplantation Community of Practice (DTCP) on the HRSA Technical Expert Panel. Dr. Sung represents the UMHS on the Advisory Board of Directors and Abdominal Organ Committee for Gift of Life Michigan and the Scientific Advisory Board for the National Kidney Foundation of Michigan. He serves on numerous institutional committees such as Ethics Committee since 2006, Kidney/Pancreas Transplantation Executive Committee since 2008, Liver Transplantation Policy Committee since 2002 and Medical Affairs Advisory committee from 2010-2013.

Professional Work: Dr. Sung is the surgical director of the Pancreas Transplant Program since 2002 and of the Kidney Transplant Program since 2008. He is considered an authority and leader in surgery particularly in the field of kidney and pancreas transplantation. His clinical efforts are regional as he assisted in the development of the Kidney Transplant Outreach Program, which has improved access to transplant care for patients throughout the State. Dr. Sung has been instrumental in increasing volume and referrals and transplants in a challenging regulatory environment. The UMHS Transplant Program has become a regional and national referral center for desensitization, paired donation, and high-risk recipients. He is an expert general, transplant and laparoscopic surgeon. In 2012, Dr. Sung became the 5C MPLAN director, a position dedicated to improving patient care and outcomes. He facilitated the development of quality improvement protocols, introduced patient-focused rounding, and led staff education efforts.

External Reviewers:

Reviewer A: "He is widely recognized across the country for his leadership and academic skill sets beyond his clinical expertise in kidney and pancreas transplantation. His presence at national meetings is widely recognized for his expertise and he is a very popular speaker on

clinical transplantation topics relating to utilization of high risk donors early graft function and immunosuppression.”

Reviewer B: “In my estimation, Dr. Sung is considered a national expert in outcomes research particularly as it relates to such a large dataset. Perhaps his most prominent national leadership role is his current one – Councilor at Large in the ASTS. This is a competitive and highly selective position that requires major scrutiny by the active ASTS leadership as well as a vote by its members.”

Reviewer C: “Dr. Sung is at the very top of his peer group for contributions to renal transplantation. He is a prolific author and well known leader and educator. I know of no surgeon who has dedicated more time and effort to advancing transplantation in the United States than Dr. Sung. He is a constant fixture in leadership positions of societies and provides important and meaningful input for our meetings and conferences.”

Reviewer D: “There is no question that Dr. Sung is considered a national leader within the field of solid organ transplantation. His thoughtfulness and insights into the various problems that need to be addressed have been reflected by his invitation to give state of the art lectures on a variety of topics at national and international meetings.”

Reviewer E: “Over the last decade, Randy has emerged as a leader in the field of solid organ transplantation, particularly in regard to organ donation and utilization, and the appropriate pairing of the organ of the donor organ with the recipient. Randy is the consummate triple threat academic surgeon, who has excelled in research, education, and clinical care.”

Summary of Recommendation:

Dr. Sung is a nationally and internationally respected expert in the field of solid organ transplantation. He is well respected by his colleagues and considered to be an outstanding clinician and talented educator. In am pleased to recommend Randall S. Sung, M.D. for promotion to professor of surgery, with tenure, Department of Surgery, Medical School.



Marschall S. Runge, M.D., Ph.D.
Executive Vice President for Medical Affairs
Dean, Medical School

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