

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF INTERNAL MEDICINE

Grace L. Su, M.D., 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:

M.D.	1988	University of Chicago
B.S.	1984	Yale University

Professional Record:

2002-present	Associate Professor of Internal Medicine, University of Michigan
1995-2002	Assistant Professor of Internal Medicine, University of Michigan
1994-1995	Assistant Professor of Surgery, University of Pittsburgh
1994-2005	Assistant Professor of Internal Medicine, University of Pittsburgh

Summary of Evaluation:

Teaching: Teaching is a significant component of Dr. Su's responsibilities and an area where she thrives. She teaches undergraduates, medical students, residents, postdoctoral and clinical fellows, and junior faculty in the Department of Internal Medicine as well as in other departments. Additionally, she has presented individual lectures, developed new courses and mentored a wide variety of trainees. She serves as the Ann Arbor Veterans Administration Gastroenterology section chief and serves as the program director for VA sponsored fellows, and as such is responsible for the education of all fellows during their rotations through the VA. Dr. Su's teaching scores have always been stellar. This excellence has been awarded on several occasions. She was awarded the 2008 Graduating Senior Gastroenterology Fellow's Award for Excellence in Teaching in Hepatology. She also received the University of Michigan Gastroenterology Fellowship Class of 2010 Outstanding Clinician Educator Award. Her resident teaching is also exceptional as evidenced by being the recipient of the 2010 Department of Internal Medicine Special Recognition Award for Contributions to the House Officer Teaching Program.

Dr. Su has formally mentored three junior faculty members who have subsequently been successful in obtaining NIH funding. She recently mentored a medical student research project to develop a novel quantitative image analysis technique for diagnosis of cirrhosis which has resulted in a publication and a pending patent. At the national and international level, Dr. Su has been a visiting professor on several occasions including being a co-lead on a day-long seminar series given to practicing physicians in three Vietnam cities to foster the development of

hepatology as a specialty in this developing nation with endemic liver disease. Additionally, Dr. Su is co-organizing a research workshop at the Annual Association for the Study of Liver Diseases meeting. She has also been given the significant professional honor of co-directing the 2012 American Gastroenterological Association post-graduate course in San Diego. This course is the main educational venue for practicing physicians to update their knowledge base in the field of gastroenterology and hepatology.

Research: Dr. Su's research interests are in studying the innate immune mechanisms in liver injury, LPS binding protein in infection and inflammation, biomarkers in immune tolerance and quantitative image analysis for liver disease. Dr. Su is currently the principal investigator on a Merit Review Award from the Department of Veterans Affairs. Her scholarship is not limited to basic investigation in hepatology; she also was an active participant in the HALT-C trials and is currently the program director of a competitively funded VA Office of Specialty Care Transformation Initiative to help manage chronic liver diseases in rural and remote settings. She has a longstanding track record of research grant funding from both the NIH and the Veterans Administration, and has made significant and focused contributions to the field of liver injury which have resulted in over 60 publications in quality journals.

Recent and Significant Publications:

Su GL, Hoesel L, Bayliss J, Hemmila M, Wang SC: Lipopolysaccharide binding protein inhibitory peptide protects against liver injury after acetaminophen. *American Journal of Physiology*, 299:G1319-1325, 2010.

Minter RM, Bi X, Ben-Joseph G, Arbabi S, Hemmila MR, Wang SC, Remick DG, Su GL: LPS-binding protein mediates LPS induced liver injury and mortality in the setting of biliary obstruction. *American Journal of Physiology* 296:45-54, 2009.

Minter RM, Fan MH, Sun J, Niederbichler A., Ipaktchi K, Arbabi S, Hemmila MR, Remick DG, Wang SC, Su, GL: Altered Kupffer cell function in biliary obstruction. *Surgery* 138:236-245, 2005.

Su GL, Gong KQ, Fan MH, Kelley WM, Hsieh J, Sun JM, Hemmila MR, Arbabi S, Remick DG, Wang SC: Lipopolysaccharide binding protein modulates acetaminophen-induced liver injury in mice. *Hepatology* 41:187-195, 2005.

Su GL, Goyert SM, Fan MH, Aminlari A, Klein RD, Myc A, Alarcon WH, Remick DG, Wang SC: Activation of human and mouse Kupffer cells by Lipopolysaccharides is mediated by CD14. *Am J Physiol* G640-G645, 2002.

Service: Dr. Su has served as a chair at both national and international symposia. She has served on several grant review panels and is currently a standing member of the IRG-G Subcommittee of the National Institute of Diabetes and Digestive Kidney Disease (NIDDK). Additionally, she serves on the editorial board of *Gastroenterology*, and is an active reviewer for several top-notch journals. She has significant national AASLD committee service, state level service contributions at the American Liver Foundation and significant local, University of

Michigan and VAAAHS committee contributions. Further, she was awarded the Department of VA Certificate of Pride in Public Service Award in 2010. In July 2011, she became the special section editor of Press Highlights for *Gastroenterology*, the leading journal in gastroenterology.

Dr. Su is a board certified gastroenterologist and holds a certificate of added qualifications in transplant hepatology. She maintains a very busy clinical practice at the University of Michigan as well as at the Veterans Affairs Ann Arbor Healthcare System (VAAAHS). She has very capably served as the VAAAHS section chief of gastroenterology since 2006. Since this time, the section has grown exponentially both in scope and reputation. This reputation is evidenced by the section being the recipient of the only Liver Disease Specialty Care Access Network (SCAN) grant awarded this past year. The SCAN project utilizes a highly innovative approach towards subspecialty care which leverages technology to deliver care to remote regions.

External Reviewers:

Reviewer A: “Dr. Su is distinguished both as a continuously influential basic investigator in liver disease pathogenesis, but also as a widely recognized educational and programmatic leader in gastroenterology.”

Reviewer B: “Dr. Su is an innovative and respected scientist who has made significant contributions to her field...All together, Dr. Su has been continuously funded since the early 1990’s on various aspects of LPS (lipopolysaccharide) binding protein as it relates to trauma and organ failure, liver responses to injury, and a role for Kupffer cell interactions with LPS binding protein...I can enthusiastically and realistically state that she is one of the experts in her area of research and is extremely well regarded by her colleagues at other institutions.”

Reviewer C: “...Dr. Su has made significant and focused contributions to the field of liver injury which have resulted in over 60 publications in quality journals. The importance and quality of her work is also reflected in the substantial NIH and VA grant support that she has received...She is a skilled physician scientist who has made significant research contributions, a noted teacher and an active clinician.”

Reviewer D: “...her publication record is quite impressive and includes a number of outstanding papers published in high quality journals.”

Reviewer E: “...Dr. Su is a very gifted educator where she has received multiple awards, a busy administrator running the GI division at a VA hospital, and still continued to perform basic research in the areas of LPS and LBP in liver pathology. She is well rounded and essential to the success of her department at the University of Michigan.”

Reviewer F: “...since 2002, when she was last promoted to Associate professor, Dr. Su has proven to be a continuously maturing scholar, with outstanding achievements in all aspects of her academic role and profession, and a highly esteemed authority in her field.”

Reviewer G: “...I have been impressed with Dr. Su’s knowledge and expertise as both a clinician educator and as an investigator focused on issues of significant relevance to the clinical

liver diseases....Her published observations are among a growing body of literature supporting the hypothesis that innate and/or adaptive immune responses may amplify drug induced liver injury...”

Summary of Recommendation:

Dr. Su is a skilled physician scientist with significant research contributions, is an excellent teacher, has important service contributions, and is a stellar clinician. I am delighted to recommend Grace L. Su, M.D. for promotion to professor of internal medicine, with tenure, Department of Internal Medicine, Medical School.

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

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

May 2012