

PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF SURGERY

Andrew C. Chang 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.	1993	Johns Hopkins University
B.S.	1988	Massachusetts Institute of Technology

Professional Record:

2011-Present	Associate of Surgery, University of Michigan
2004-2011	Assistant Professor of Surgery, University of Michigan
2003-2004	Lecturer of Surgery, University of Michigan

Summary of Evaluation:

Teaching: Dr. Chang is a dedicated educator. He is the program director for the Thoracic Surgery Integrated and Independent Residency Programs. As the prior associate program director, he was instrumental in developing and implementing the integrated residency program in which medical students match directly into thoracic surgery for their six-year residency. In addition to his program administrative responsibilities which involve candidate selection, resident, faculty and program evaluation, and liaison with the ACGME residency review committee, he developed components of the curriculum including journal club, mock oral board examinations, and revisions to the didactic lecture series. Dr. Chang has participated regularly in the Medical School Boot Camp Anatomy Lab as a demonstrator for fourth year medical students who have matched into surgical residencies. He serves as a procedures-based care branch advisor for third and fourth year medical students and is also a facilitator for the Transition to Clerkships small group curriculum. Dr. Chang has mentored 22 medical students, seven residents, one undergraduate student and three visiting scholars. In recognition for his teaching effort, he was a recipient of the resident and fellow-designated Mark B. Orringer Teaching Award this year.

Research: Dr. Chang has published 125 peer-reviewed articles, including 64 since his promotion to associate professor. His major focus has been the pathogenesis of esophageal and lung cancer. His research has utilized genomic and proteomic approaches for identifying potential markers of chemoresistance in esophageal adenocarcinoma. Dr. Chang recently was awarded a competitive intramural grant to identify and target tumor-based proteins (neoantigens) in the treatment of non-small lung cancer, awarded to foster international collaboration.

Recent and Significant Publications

Chang AC, Kosinski AS, Raymond DP, Magee MJ, DeCamp MM, Farjah F, Grogan EL, Seder CW, Allen MS, Blasberg JD, Blackmon SH, Burfeind WR, Cassivi SD, Park BJ, Shahian DM, Wormuth DW, Han JM, Wright CD, Fernandez FG, Kozower BD: The Society of Thoracic

Surgeons Composite Score for Evaluating Esophagectomy for Esophageal Cancer. *Ann Thorac Surg* 103(5): 1661-1667, 2017.

Low DE, Alderson D, Ceconello I, Chang AC, Darling GE, D'Journo XB, Griffin SM, Holscher AH, Hofstetter WL, Jobe BA, Kitagawa Y, Kucharczuk JC, Law SY, Lerut TE, Maynard N, Pera M, Peters JH, Pramesh CS, Reynolds JV, Smithers BM, van Lanschot JJ: International consensus on standardization of data collection for complications associated with esophagectomy: Esophagectomy Complications Consensus Group (ECCG). *Ann Surg* 262(2): 286-294, 2015.

Myers AL, Lin L, Nancarrow DJ, Wang Z, Ferrer-Torres D, Thomas DG, Orringer MB, Lin J, Reddy RM, Beer DG, Chang AC: IGFBP2 modulates the chemoresistant phenotype in esophageal adenocarcinoma. *Oncotarget* 6(28): 25897-25916, 2015.

Ohtsuka T, Flaherty KR, Lin J, Lama VN, Reddy RM, Orringer MB, Chan KM, Chang AC: Preoperative pulmonary artery pressure and mortality after lung transplantation. *Asian Cardiovasc Thorac Ann* 21(3): 326-330, 2013.

Sheetz KH, Zhao L, Holcombe SA, Wang SC, Reddy RM, Lin J, Orringer MB, Chang AC: Decreased core muscle size is associated with worse patient survival following esophagectomy for cancer. *Dis Esoph* 26(7): 716-22, 2013.

Service: Since his promotion to associate professor, Dr. Chang has been section head and the John Alexander Distinguished Professor of Thoracic Surgery, in the Department of Surgery. Since 2011, he has had more than 20 invited presentations at local, national or international meetings and institutions, and has developed research and clinical collaborations in Taiwan, China and globally, demonstrating international recognition for his contributions to esophageal and lung cancer care. Dr. Chang has been a regularly-invited ad hoc member of study sections for the Department of Defense Congressionally Directed Medical Research Programs. He provides service institutionally, having served on the Rogel Cancer Center Data Safety Management Committee, and has been elected by his peers to serve on the Medical School Advisory Committee for Appointments, Promotion and Tenure, which he also chaired. Dr. Chang is a gifted technical thoracic surgeon with excellent clinical judgment and patient outcomes. He has worked to expand thoracic surgery services statewide through his commitment to helping develop programs at our institutional partners, specifically MidMichigan Medical Center in Midland and MetroHealth Medical Center in Wyoming, Michigan. Dr. Chang operates at both the University of Michigan Medical Center and the Ann Arbor Veterans Administration Hospital.

External Reviewers:

Reviewer A: "As I read his curriculum vitae and review his credentials, I am impressed by the distinguished career that he has had at your institution and his accomplishments within all three pillars of academic medicine, including teaching, scholarly pursuits, and service activities. We have a similar track at my institution for academically accomplished clinicians and Dr. Chang would easily meet criteria for promotion to Full Professor at my institution based on his accomplishments since becoming Associate Professor in 2011."

Reviewer B: “Dr. Chang has a very high quantity of works. His works involve heart and lung transplantation, thoracic oncology (especially esophageal cancer) and thoracic surgery...I think Dr. Chang is among the top levels [of peers working in the same field]...Dr. Chang has made significant service contributions to the discipline...”

Reviewer C: “Throughout his career Dr. Chang has made significant contributions to the treatment and outcomes in patients with esophageal cancer thus significantly adding to the University of Michigan’s world class reputation as a pioneering and innovating institution in this field...Dr. Chang’s service contributions have been equally outstanding...He is regarded as a clinical and research expert in both esophageal and lung cancer as well as lung transplantation and he is on par with other leaders in these fields.”

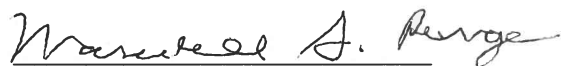
Reviewer D: “Dr. Chang is a true triple threat in cardiothoracic surgery with a strong clinical foundation, administrative leadership, educational accomplishments and translational research activities, which are unique among cardiothoracic surgeons.”

Reviewer E: “Throughout his career, Dr. Chang has distinguished himself as the model academic thoracic surgeon. His entire body of work reflects the highest tier in terms of quality, quantity, focus, and impact. His scholarly contributions are recognized by many in our field as being seminal and paradigm changing. He is in elite company as a key individual in shaping modern thoracic surgery, nationally and internationally.”

Reviewer F: “...Andrew Chang is an outstanding contributor nationally and internationally who is emerging as a major figure in thoracic surgery – his emphases mainly the areas of esophageal cancer treatment, guidelines and quality of care measures in thoracic surgery and thoracic oncology, and thoracic surgical education. The quality and quantity of his work would, in my opinion, place him in the top 5-6 academic thoracic surgeons in his peer group nationally.”

Summary

Dr. Chang is a renowned thoracic surgeon in the field of esophageal cancer treatment. He is an effective educator, successful researcher, and outstanding clinician here and abroad. I am pleased, therefore, to recommend Andrew C. Chang, 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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