Approved by the Regents
May 18, 2017

PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF SURGERY
DEPARTMENT OF INTERNAL MEDICINE
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF NUTRITIONAL SCIENCES

Darleen A. Sandoval, Ph.D., assistant professor of surgery, Department of Surgery, assistant professor of internal medicine, Department of Internal Medicine, Medical School, and assistant professor of nutritional sciences, Department of Nutritional Sciences, School of Public Health, is recommended for promotion to associate professor of surgery, with tenure, Department of Surgery, associate professor of internal medicine, without tenure, Department of Internal Medicine, Medical School, and associate professor of nutritional sciences, without tenure, Department of Nutritional Sciences, School of Public Health.

Academic Degrees:

Ph.D.	2000	Arizona State University
M.S.	1996	Central Washington University
B.S.	1993	University of New Mexico

Professional Record:

2015- present	Assistant Professor of Nutritional Sciences, University of Michigan
2015-present	Assistant Professor of Internal Medicine, University of Michigan
2014-present	Assistant Professor of Surgery, University of Michigan
2010-2014	Assistant Professor of Internal Medicine, University of Cincinnati
2005-2009	Research Assistant Professor in Psychiatry, University of Cincinnati

Summary of Evaluation:
Teaching: Although she has regularly given one to two lectures per year since appointment to a tenure track position, Dr. Sandoval's primary teaching experience is focused on research mentorship to pre- and post-doctoral fellows, including as a recently appointed faculty member of the Neuroscience Graduate Program. Dr. Sandoval is currently on one dissertation committee at UM and previously served on four dissertation and four qualifying exam committees. She has also recently accepted a graduate student from Nutritional Sciences into her laboratory starting in fall 2016. Dr. Sandoval has also mentored medical students in the NIDDK Medical Student Research Program, including one student who will be doing her medical school capstone project in Dr. Sandoval's laboratory next year. Importantly, many of her previous mentees have gone on to independent scientific leadership roles in academic or industry settings.

Research: Dr. Sandoval does preclinical translational research focused on understanding the role of the gastrointestinal (GI) tract in the regulation of glucose and lipid homeostasis. This work involves understanding the impact of surgical (weight loss surgery) and genetic (using novel genetic mouse models) manipulation of the GI tract or of peptides it secretes in physiological and pathophysiological states including obesity and type 2 diabetes. Her overall goal is to leverage this towards development of novel treatments of obesity and type 2 diabetes mellitus. Dr. Sandoval has had great success with this work. She has been continuously funded, by the NIH and/or pharmaceutical resources. She

recently received a 7th percentile score on an NIH-R01 application. Dr. Sandoval has had 49 original research publications and eight of these were as senior author. She has additionally had 21 review articles and six invited commentaries. Highlighting her national and international status, she has had 10 national and 14 international speaker invitations since being appointed to a tenure-track faculty position.

Recent and Significant Publications:

Mul JD, Begg DP, Haller AM, Pressler JW, Sorrell J, Woods SC, Farese RV Jr, Seeley RJ, Sandoval DA: MGAT2 deficiency and vertical sleeve gastrectomy have independent metabolic effects in the mouse. *Am J Physiol Endocrinol Metab* 307:E1065-1072, 2014.

Pressler JW, Haller A, Sorrell J, Wang F, Seeley RJ, Tso P, Sandoval DA: Vertical sleeve gastrectomy restores glucose homeostasis in apolipoprotein A-IV KO mice. *Diabetes* 64:498-507, 2014.

Sisley S, Gutierrez-Aguilar R, Scott M, D'Alessio DA, Sandoval DA, Seeley RJ: Neuronal GLP-1R mediates anorectic but not glucose-lowering, effects of liraglutide. *J Clin Invest* 124:2456-2463, 2014.

Arble DM, Pressler JW, Sorrell JE, Wevrick R, Sandoval DA: Sleeve gastrectomy leads to weight loss in Magel2 knockout mouse. *Surgery and Obesity Related Diseases.* DOI: http://dx.doi.org/10.1016/j.soard.2016.04.023 Publication stage: In Press Uncorrected proof published online, April 26, 2016.

Sisley SR, Arble DM, Chambers AP, Gutierrez-Aguilar R, He Y, Xu Y, Gardner D, Moore DD, Seeley RJ, Sandoval DA: Hypothalamic vitamin D improves glucose homeostasis and reduces weight. diabetes, 2016 May 23. pii: db160309. [Epub ahead of print].

Service: Dr. Sandoval has established an excellent national and international reputation, which has led to her participation in a variety of peer-review boards, including the editorial board of *Molecular Metabolism* and *Endocrinology*. She also served on the national grant review board of the American Diabetes Association, and is a regular member of the NIH Integrative Physiology of Obesity and Diabetes review panel. Additionally, Dr. Sandoval serves on the organizing committee for the annual scientific meeting for the American Diabetes Association. Dr. Sandoval also has service responsibilities to the institution including as a member of the Strategic Planning Committee for the Department of Nutritional Sciences.

External Reviewers:

Reviewer A: "Having recently sat on our college promotions committee for several years, I can state with some confidence that Dr. Sandoval's work would meet the requirements for promotion and tenure at [my institution]. She has obtained significant extramural funding in what is arguably one of the most challenging funding environments ever for biomedical research. Dr. Sandoval has published prolifically in highly regarded journals within the field and the number of publications would be considered exceptional for an assistant professor seeking promotion to associate professor."

Reviewer B: "She has long since shed the perception of a member of Dr. Seeley's laboratory. She is viewed rather as an independent colleague. Her work on the gut-brain axis in control of feeding and metabolism will further solidify her role as a leader in the field. She has used models of bariatric surgery as tools to study signals from gut to brain. Dr. Sandoval consistently publishes in high impact journals and is often invited to give research seminars."

Reviewer C: "[Dr. Sandoval] has been productive at every career stage. Her record as a graduate student was outstanding with 18 publications and she was the first author on almost all of these. She joined a very productive group as a postdoctoral fellow at the University of Cincinnati and maintains a number of those collaborative relationships as a faculty member at the University of Michigan. She has a total of 69 peer reviewed publications and, by my count; her H-index is 29. This is excellent for someone at this career stage."

Reviewer D: "Her publications are well-regarded and highly cited, and she has earned my respect as well as the respect of others working in the fields of obesity and diabetes. In evidence of this, Dr. Sandoval was nominated for the 2013 'Helmholtz Young Investigator Diabetes Award,' in recognition of her early career contributions to diabetes-related research. This honor reflects the recognized impact and promise of her research accomplishments and future promise, as judged by the scientific peers who know her best."

Reviewer E: "Dr. Sandoval has an international reputation in the area of CNS regulation of metabolism and is one of the leading experts in this area. Her outstanding productivity greatly exceeds that of most scientists at her rank. She is highly respected for her meticulous experimental designs and the rigor with which she interprets data."

Reviewer F: "Darleen has maintained an excellent profile for service to the field. In addition to the usual journal reviewing duties, she contributes editorial service to Endocrinology and Molecular Metabolism, two of the leading journals in the field. Darlene's [sic] biggest service contribution is her membership of the IPOD study section. This responsibility reflects her high standing within the field."

Summary of Recommendation:
Dr. Sandoval is well respected by her colleagues as a researcher, leader, and dedicated teacher. We are pleased to recommend Darleen A. Sandoval, Ph.D. for promotion to associate professor of surgery, with tenure, Department of Surgery, associate professor of internal medicine, without tenure, Department of Internal Medicine, Medical School, and associate professor of nutritional sciences, without tenure, Department of Nutritional Sciences, School of Public Health.

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

Martin A. Philbert, Ph.D.
Dean, School of Public Health

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