

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF INTERNAL MEDICINE

Ellen M. Zimmermann, 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.	1984	University of Wisconsin, Madison
B.S.	1977	University of Wisconsin-Eau Claire

Professional Record:

2001-present	Associate Professor of Internal Medicine, University of Michigan
1993-2001	Assistant Professor of Internal Medicine, University of Michigan
1992-1993	Research Instructor in Medicine, University of North Carolina-Chapel Hill
1990-1992	Clinical Instructor in Medicine, University of North Carolina-Chapel Hill

Summary of Evaluation:

Teaching: Teaching is a significant component of Dr. Zimmermann's responsibilities and is an area that she is very passionate about. 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. Dr. Zimmermann values teaching in a variety of settings, including the classroom, the endoscopy suite, the laboratory and the clinic. Additionally, she has taught individual lectures, developed new courses and mentored a wide variety of trainees. Dr. Zimmermann has served as the medical director of the Crohn's and Colitis Program since its inception in 2006 and concurrently served as gastroenterology fellowship program director until 2010. In addition, she was an associate director of the gastroenterology NIH training grant from 2004-2010. She is recognized as an efficient and experienced clinician who involves students in all aspects of medical care; she is known for creating an atmosphere for open discussion and is passionate about enhancing the students' clinical training which is evident in her teaching scores. She has taught and mentored since 2001 two high school students who both applied for and received the American Gastroenterology Association Summer Research Award, five undergraduates, which several received the American Gastroenterology Association or the Crohn's and Colitis Foundation of America summer research funding award, two Ph.D. candidates, 11 medical students, two masters students in the School of Public Health and nine gastroenterology fellows. She has also mentored 13 house officers during this time. Several of her mentees have gone on to faculty positions at other universities.

Dr. Zimmermann started the Inflammatory Bowel Disease (IBD) college clinic that meets twice monthly and is staffed by UM gastroenterologists, including herself. One of the most significant conferences for the IBD is the IBD Education Day, which involves a half-day physician and parallel patient education program co-sponsored by the UM and the Michigan Chapter of the Crohn's and Colitis Foundation of American (CFFA). Dr. Zimmermann is the course director for the "IBD Update for the Practicing Physician," currently in its 8th year. Locally, she founded the "Research in Inflammation Interest Group," a group of investigators that meets monthly for lectures. The lecture draws investigators from over 20 divisions on campus and is one of the most popular and well attended series of its type. Nationally and internationally Dr. Zimmermann has been acknowledged by numerous visiting professorships and extramural invited presentations.

Research: Dr. Zimmermann's research interests are directed toward the study of inflammatory bowel disease (Crohn's disease and ulcerative colitis), with a focus on understanding the molecular mechanisms. She is applying MRI as a radiographic method to detect fibrosis in Crohn's disease. Dr. Zimmermann is currently the principal investigator on a National Institutes of Health R0 and co-investigator on an R01 and a P20 and just completed an NIH R01 on "Detection of inflammation vs. fibrosis in Crohn's disease." In addition, she has a multitude of research grants with various pharmaceutical companies. Her work is moving the field forward, specifically in developing novel diagnostic and therapeutic tools for the management of inflammatory bowel disease. She has made significant contributions in the field of IBD, which have resulted in 25 peer-reviewed publications in high-quality journals and four book chapters since her last promotion. Her current trajectory is excellent, with 10 peer-reviewed publications in the past two years, including eight as first or senior author. She is also engaged in numerous advisory boards and, most recently, the Blue Care Network regarding the utilization in ulcerative colitis and Crohn's disease.

Recent and Significant Publications:

Rahal K, Schmiedlin-Ren P, Adler J, Dhanani MM, Sultani V, Rittershaus AC, Zhu J, McKenna BJ, Zimmermann EM: Resveratrol has antiinflammatory and antifibrotic effects in the peptidoglycan-polysaccharide rat model of Crohn's disease. *Inflamm Bowel Disease* (in press).

Garcia P, Schmiedlin-Ren P, Mathias JS, Tang H, Christman GM, Zimmermann EM: Resveratrol causes cell cycle arrest, decreased collagen synthesis, and apoptosis in rat intestinal smooth muscle cells. *Am J Physiol* (in press).

Adler J, Punglia D, Dillman JR, Polydorides AD, Dave M, Al-Hawary MM, Platt JF, McKenna GJ, Zimmermann EM: Computerized tomography enterography findings correlate with tissue inflammation in resected small bowel Crohn's disease. *Inflamm Bowel Disease* (in press).

Adler J, Swanson S, Schmiedlin-Ren P, Higgins PDR, Polydorides AD, McKenna B, Verrot T, Zimmermann EM: Magnetization transfer helps detect intestinal fibrosis in an animal model of Crohn disease. *Radiology* 259:127-135, 2011.

Kesisoglou F, Fleisher D, Schmiedlin-Ren P, Zimmermann EM: Adenoviral transduction of enterocytes and M-cells using in vitro models based on caco-2 cells: The coxsackievirus and adenovirus receptor (CAR) mediates both apical and basolateral transduction. *Mol Pharm* 7:619-629, 2010.

Service: Dr. Zimmermann is board certified in gastroenterology and has an active clinical practice focusing on complex patients with Inflammatory Bowel Disease. She sees patients at the University of Michigan Hospital and is strongly committed to providing outstanding patient care. Dr. Zimmermann served as a faculty member of the Academic Skills Workshop of the American Gastroenterological Association (AGA), in which faculty are hand selected based on proven excellence in mentorship and teaching. She served as the director from 2005-2010 for the Gastroenterology Fellowship Training Program, and serves as the medical director for the UM Crohn's and Colitis Program since 2006. Locally, she served on the board of trustees for the Michigan Chapter of Crohn's and Colitis Foundation from 2004-2011 and as chair from 2005-2008. In addition, she started a local support group on campus for UM students with Crohn's and colitis, which is now called the "Crohn's and Colitis Student Initiative." In addition, Dr. Zimmermann serves on the editorial board of the UCB Crohn's Scholarship Selection Committee, is an active reviewer for several top-notch journals and is a current member of several professional societies. This service attests to the significance of her contributions and her national and international stature. In 2011, she was elected to the AGA Council, Imaging and Advanced Technologies Section. This is an elected position which she will hold as vice chair, and then chair, for the next four years allowing significant impact into the future of gastroenterology's major scientific society. Her work has been acknowledged by several Crohn's and Colitis Foundation of American awards most significantly being named honoree at the 34th annual Gala Evening at the Movies, the marquis fundraising event for the CCFA, in November 2011.

External Reviewers:

Reviewer A: "As an educator, Dr. Zimmerman has a long list of lectures that she's given around the country that range from her basic science work to more clinical topics. She has a very long list of trainees who I'm sure are very indebted to her for her mentorship, many of whom have stayed in academia."

Reviewer B: "Ellen is the consummate physician-scientist whose career has been characterized by an intense desire to develop research findings that are directly relevant to the patients she also treats....she has served extensively in the time-consuming role of study section member for the NIH and other bodies, and also as a reviewer for all of the important journals in her field."

Reviewer C: "Ellen is a well known and highly respected investigator in the field of inflammatory bowel diseases and she has made many seminal contributions. It's safe to say that she has both national and international recognition for her work."

Reviewer D: "... I consider Dr. Zimmermann a leader in IBD research and her contributions have been extremely important in advancing research in inflammatory bowel disease. Dr. Zimmermann is also a superb teacher and a great mentor."

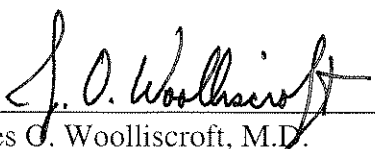
Reviewer E: “Dr. Zimmermann has developed a national reputation for excellence in understanding the basic mechanisms responsible for intestinal fibrosis. The findings are broadly relevant to Crohn’s disease and other disorders of dysregulated intestinal inflammation.”

Reviewer F: “Dr. Zimmermann has maintained an impressive continuity of grant support related to her research foci pertaining to inflammatory bowel disease....I can readily affirm that Dr. Zimmermann is an excellent clinician and role model.”

Reviewer G: “She has published seminal studies pertaining to the field of Crohn’s Disease and ulcerative colitis therapy and detection....Dr. Zimmermann’s extremely high level of scholarship is made readily apparent by her extensive history of research funding, from both the NIH and private organizations.”

Summary of Recommendation:

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



James C. Woolliscroft, M.D.

Dean

Lyle C. Roll Professor of Medicine

May 2012