

PROMOTION RECOMMENDATION  
UNIVERSITY OF MICHIGAN  
MEDICAL SCHOOL  
DEPARTMENT OF SURGERY

Approved by the Regents  
May 20, 2010

Paul S. Cederna, 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.	1989	University of Michigan
B.S.E.	1985	University of Michigan

Professional Record:

2005-present	Associate Professor of Surgery, University of Michigan
2001-2009	Research Assistant Professor, Institute of Gerontology, University of Michigan
1999-2005	Assistant Professor of Surgery, University of Michigan

Summary of Evaluation:

Teaching: For the past ten years, Dr. Cederna has been fully devoted to the teaching of undergraduate, Medical School, predoctoral, and postdoctoral students in the clinical and basic science arenas. He has served as the primary research mentor for 17 undergraduate students, 11 medical students, 27 residents, and 12 postdoctoral research fellows. The accomplishments of the students who he has mentored include over 150 presentations at national meetings, over 75 peer review manuscripts, \$94,000 in research funding as the PI, and 24 research awards at national meetings. The awards received by his trainees have included the Outstanding Nerve Paper and Best Clinical Research Awards at the combined meeting of the AAHS/ASPN/ASRM and the Best Basic Science Research Award at the Plastic Surgery Research Council Meeting five separate times. These accomplishments are a direct reflection of his effectiveness as a teacher. Dr. Cederna's role as an educator has contributed to the success of a steady stream of young professionals and has been an important element in the program's success in recruiting talented individuals for the specialty. A number of former students are now prominent academicians. Dr. Cederna has received the Clinical Teaching Award for Plastic Surgery for three consecutive years. This commitment to education has also been recognized nationally through invitations to be a visiting professor at prestigious institutions on multiple occasions.

Research: Dr. Cederna has carried out ground-breaking research in skeletal muscle dysfunction following denervation/reinnervation, peripheral nerve reconstruction, and development of peripheral nerve interfaces for the control of upper extremity prosthesis and remains a national and international leader in these fields. He has published 101 peer-reviewed manuscripts, 14 book chapters, three patents, and has received 38 intramural and extramural grants totaling over \$12-million in direct costs, as principal investigator. Currently, he is the principal investigator on over \$6,600,000 in research funding. Dr. Cederna's significant contributions to the field of plastic surgery research and his standing as an exacting scientist have been instrumental in his invitations to be on the editorial board of the *Journal of Reconstructive Microsurgery*, *Microsurgery*, and *Annals of Plastic Surgery*. He is highly sought after as an invited speaker and, in the past year, he was selected to co-chair both the PSEF Research Fundamentals Workshop and the ASPS/PSEF Stephen Mathes Reconstructive Symposium. Both of these events were high-profile, national events.

Recent and Significant Publications:

Dow DE, Cederna PS, Hassett CA, Dennis RG, Faulkner JA: Electrical stimulation prior to delayed reinnervation does not enhance recovery in muscles of rats. *Restorative Neurology & Neuroscience* 25:5-6, 601-610, 2008.

Mungara AK, Brown DL, Bishop DK, Wood SY, Cederna PS: Anti-CD40L monoclonal antibody induces long-term, tissue specific, immunologic hyporesponsiveness to peripheral nerve allografts. *Journal Reconstructive Microsurgery* 24:3, 189-195, 2008.

Toronto JD, Yu D, Cederna PS: Endoscopic vs. open tissue expander placement: Is less invasive better? *Plastic and Reconstructive Surgery* 119:3, 894-906, 2007.

Borschel GH, Costantino DA, Cederna PS: Individualized implant-based reconstruction of Poland's syndrome breast and soft tissue deformities. *Annals of Plastic Surgery* 59:5, 507-514, 2007.

Brown DL, Bishop DK, Wood SY, Cederna PS: Short-term anti-CD40L co-stimulatory blockade induces tolerance to peripheral nerve allografts, resulting in improved skeletal muscle function. *Plastic and Reconstructive Surgery* 117:7, 2250-2259, 2006.

Service: Dr. Cederna's busy clinical practice focuses on burn reconstruction, minimally invasive surgery, general reconstruction, and cosmetic surgery. He has been listed in "Best Doctors in America", 2003-present; Guide to "America's Top Plastic Surgeons", 2006-present; "Patient's Choice Award", 2008-present; and "America's Top Doctors", 2009. He has been the primary burn reconstruction surgeon at the University of Michigan Health System over the past eight years and is recognized as a national expert in this field, with a very wide referral base. He is also recognized as a national expert in the operative management of chest wall deformities and currently provides care for patients from around the country. He is in the top echelon of clinicians in his field. Nationally, Dr. Cederna has been very successful, holding many high

profile, important national positions, including president-elect, ASPN; member of the Board of Directors, ASPS/PSEF; parliamentarian and secretary-treasurer, Plastic Surgery Research Council; and Oral Board Examiner, ABPS. At the University of Michigan, he currently serves as associate chief of staff and performs all of the duties required of that position. He has spent a substantial amount of time on many information technology committees enhancing patient safety and provider efficiency. In addition, he also holds the position of associate chair for information technology within the Department of Surgery.

External Review:

Reviewer A: "His work has laid an essential foundation for the ongoing evolution of composite tissue transplantation, as well as nerve transplantation for which he is regarded as a significant contributor. He is positioned in the upper echelon of surgeons performing this type of research, leading to both national and international accolades...Dr. Cederna has developed a strong portfolio of education accomplishments based on his clinical interests and performance. Even more importantly, however, is his success as a research mentor and the impact he has had on residents and students. He has been successful at all educational levels, including undergraduate students, medical students and post-doctoral students from the University of Michigan and other institutions."

Reviewer B: "Dr. Cederna's experience with leadership in administration, scholarship, professional service, mentoring and teaching along with his commitment to diversity demonstrates excellence...Dr. Cederna is an exceptionally talented, well respected individual who has established his ability to successfully balance clinical duties with peer reviewed research and commitment to his community."


Reviewer C: "...Dr. Cederna is one of those rare triple threats contributing substantially in research, clinically, educationally, and finally contributions in national societies. He is truly at this stage of his career already a national leader in Plastic Surgery. I am absolutely certain that he would be an automatic to achieve an equivalent rank at our institution and would have qualified several years ago."

Reviewer D: "Paul has distinguished himself as the ideal academic surgeon, completely worthy of emulation by us all. He is an outstanding surgeon, committed educator, and an accomplished researcher well recognized for his many, many research contributions...He is the best example of a 'team player' that I have met in academic Plastic Surgery...I have had the honor of writing letters of recommendation for the rank of Professor of Surgery on many occasions for our accomplished leaders in academic Plastic Surgery. Paul is the most deserving and most qualified for promotion to Professor of any of this committed group of academic Plastic Surgeons by all measures."

Reviewer E: "I can say without question that Dr. Cederna is highly respected as a leader in the field of Plastic Surgery at the national level, especially in the important areas of neuromuscular research and clinical reconstructive plastic surgery. His contributions in these areas are highly regarded within Plastic Surgery and are felt to have great potential for improving treatment in the future...He is an outstanding example of a committed academic plastic surgeon."

Summary of Recommendation:

Dr. Paul S. Cederna is recognized by peers at all levels as one of the most accomplished and productive academic plastic surgeons alive today. He has made enormous contributions in all areas of the academic enterprise. He is a first rate clinician; an inspirational teacher; a world-class researcher; and an important leader both within the University of Michigan and nationally within the field of plastic surgery. It is with great pride that I wholeheartedly recommend his promotion to professor in the Department of Surgery.



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

May 2010