

CURRICULUM VITAE

PERSONAL DATA

Melanie G. Urbanchek, B.S., M.S., Ph.D.

EDUCATION

Ph.D.	1977-1986	University of Southern California Los Angeles, California Exercise Physiology
M.S.	1972-1976	California State University, Fullerton Fullerton, California Exercise Physiology
B.S.	1962-1966	Ohio University Athens, Ohio Education

ACADEMIC APPOINTMENTS

1966-1967	Teacher- San Clemente High School, San Clemente, CA
1967-1969	Teacher- Anaheim Union High School District, Anaheim, CA
1976-1980	Teaching Assistant- University of Southern California, Biokinesiology and Physical Therapy, Los Angeles, CA
1980-1981	Assistant Professor- Kinesiology and Physical Education, California State University, Los Angeles, CA
1981-1982	Teaching Assistant- University of Southern California, Biokinesiology and Physical Therapy, Los Angeles, CA
1985-1986	Lecturer- Statistics / Movement Science, University of Southern California, Los Angeles, CA
1986-1989	Research Associate- Psychiatry and Human Behavior, University of California, Irvine Medical Center, Orange, CA
1992-1996	Research Associate- Plastic and Reconstructive Surgery, University of Michigan, Ann Arbor, MI
1996-2008	Research Investigator- Plastic and Reconstructive Surgery, University of Michigan, Ann Arbor, MI
1996-2008	Research Staff, Institute of Gerontology, University of Michigan, Ann Arbor, MI
2008-present	Assistant Research Professor, Plastic and Reconstructive Surgery, University of Michigan, Ann Arbor, MI

SCIENTIFIC TRAINING

1970	Intern, Human Performance - Epidemiology, California State University, Fullerton (Supervisor: PS Fardy, PhD)
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- 1975 Research Assistant, Human Performance Laboratory, California State University, Fullerton (Supervisor: GM Adams, PhD)
- 1976-1978 Research Assistant, Andrus Gerontology Center, Human Performance Laboratory, University of Southern California, Los Angeles, California (Supervisor: HA deVries, PhD)
- 1978-1982 Research Assistant, Human Performance Laboratory, University of Southern California, Los Angeles, California (Supervisors: RA Wiswell, PhD & RN Girandola, PhD)
- 1981 Intern, Los Angeles County Department of Occupation Health, Human Performance Testing, Los Angeles, California (Supervisor: RA Wiswell)
- 1982 – 1985 Research Assistant, Cell Culture Laboratory, Biology Department, University of Southern California, Los Angeles, California (Supervisors: BC Abbott, PhD & MR Ross, PhD)

SERVICE ACTIVITIES

University Community & Professional Societies

- 1996 - 1999. Co-president, Campus Fraternal Alumnae Group
- 1998 - 2002 President, Advisory Board to Women's Fraternity, University of Michigan.
- 2000 Consultant to National Board, Chi Omega Fraternity
- 2001 Advisory Board, University of Michigan Greek Summit
- 2003 - 2007 Safety Committee, Institute of Gerontology, University of Michigan
- 2005 - 2007 Space Planning Committee, Basic Science Research Building, University of Michigan
- 2004 - present Chairperson, Bylaws Committee, American Society for Peripheral Nerve
- 2005 Nominating Committee, American Society for Peripheral Nerve
- 2005 - 2007 Program Committee, American Society for Peripheral Nerve
- 2005 –present Advisory Board, Student Biomedical Research Program
- 2007- present Co-Program Chair, Section of Plastic Surgery, weekly Training Grant Research Seminars.
- 2009 Advisory Committee, Dean's Research Awards for 2009 Medical School Graduates.
- 2009-2012 Member, Advisory Committee on Primary Research Appointments, Promotions, and Titles, University of Michigan.
- 2009 Summer Journal Club Sponsor, Undergraduate Research Opportunities Program, University of Michigan.

Scientific Journal Peer-Reviewer

- Journal of Gerontology: Biological Sciences
Muscle & Nerve, 2006
- Journal of Young Investigators, Professional advisor for Shaun Patel, Associate Editor ,
2006-2007
- Annals of Surgery, 2007
- Tissue Engineering, 2009

Faculty or Peer Reviewer for Research Grant Applications

- 1998-1999 Faculty Reviewer, University of Michigan Medical School, Medical School Student Biomedical Research Program
- 2006, 2009 Faculty Reviewer, Undergraduate Research Opportunities, Summer Biomedical Research Fellowship Program
- 2004-2009 Faculty Reviewer, Department of Surgery Representative and Faculty Reviewer, Committee on Student Biomedical Research, University of Michigan, Medical School Short Term Biomedical Research Training Program for Medical Students funded by NHLBI

Session Chairman or Panel Participant at Scientific Meetings:

- 2005 Member Graduate School Panel, University of Michigan, UROP Biomedical Research Fellowship Graduate School Panel, June 29, 2005
- 2006 Member Graduate School Panel, University of Michigan, UROP Biomedical Research Fellowship Graduate School Panel, July 19, 2006
- 2006 15th Annual Meeting, American Society for Peripheral Nerve, 14-15 January, 2006, Tucson, Arizona, Moderator for Scientific Paper Session.
- 2008 17th Annual Meeting, American Society for Peripheral Nerve, January 11-13, 2008, Beverly Hills, CA, Moderator for Scientific Paper Session.
- 2009 18th Annual Meeting, American Society for Peripheral Nerve, January 9-11, 2009, Maui, HI, Moderator for Scientific Paper Session.
- 2009 University of Michigan, Undergraduate Research Opportunities, Judge for Spring Research Forum and Spring Symposium, April 1, 2009
- 2009 Panelist, Third Annual Special Interdisciplinary Panel, 54th Annual Meeting, Plastic Surgery Research Council, May 27-30, 2009. Pittsburgh, PA.

Scientific Program Committees

- 2004-present Program Committee, Student Biomedical Research, University of Michigan, Medical School
- 2005 Program Committee Member, 14th Annual Meeting, American Society for Peripheral Nerve, 15-16 January, 2005, Fajardo, Puerto Rico
- 2006 Program Committee, 15th Annual Meeting, American Society for Peripheral Nerve, 14-15 January, 2006, Tucson, Arizona
- 2007 Program Committee, 16th Annual Meeting, American Society for Peripheral Nerve, 13-14 January, 2007, San Juan, Puerto Rico

Workshop Panels

- 1996 4th Annual Summer Training Course in Experimental Aging Research, University of Michigan.
- 1999 Mechanotransduction Symposium, University of Michigan, Rackham School of Graduate Studies, Center for Biomedical Engineering Research
- 2001 Big Ten Committee on Institution Cooperation, Summer Research Opportunities Workshop, University of Michigan
- 2006 Undergraduate Research Opportunity Program Faculty Panel for Peer Advisor Training, University of Michigan

Guest Lectures

2009 University of Michigan, Department of Urology Seminar Research Series.
 June 11, 2009.

Grant History

PREVIOUS GRANT SUPPORT (Principal Investigator(s) listed in parentheses):

1993	Research Associate, Student Biomedical Research Program, University of Michigan (PI: R. Kuchipudi)	\$2,200
1993-1994	Research Associate; Plastic Surgery Educational Foundation. <i>Does sciatic function index reflect muscle contractile function after sciatic nerve regeneration in rats?</i> (PI: K. Chung)	\$5,206
1993 -1995	Research Associate. University of Michigan Department of Surgery Research Advisory Committee. <i>Muscle-Nerve-Muscle Neurotization for The Reinnervation of Laryngeal and Somatic Muscle</i> (PI: WM Kuzon Jr)	\$33,584
1994-1995	Research Associate; Plastic Surgery Educational Foundation. <i>Force deficits in skeletal muscles following reinnervation.</i> (PI: WM Kuzon Jr)	\$5,016
1994-1995	Research Associate; American Academy of Otolaryngology and the Plastic Surgery Educational Foundation. <i>Muscle-Nerve-Muscle neurotization in laryngeal and somatic muscles.</i> (PI: WM Kuzon Jr)	\$9,987
1995	Mentor, Student Biomedical Research Program, University of Michigan (Student: L. Liang)	\$2,250
1996-1997	Mentor, <i>Aging Effect on the Number of Intact Motor Neurons.</i> Supplementary Research Funding, Undergraduate Research Opportunities. (Student: Chadwick Stouffer)	\$500
1996-1997	Project Leader, <i>Tenascin C Expression in Skeletal Muscle with Denervation and Aging.</i> Supplementary Research Funding, Undergraduate Research Opportunities. (Student: Lynn Falardeau)	\$500
1996-2002	Research Investigator; NIH-NINDS, Force Deficits in Neurovascular Muscle Transfers. NS34380 (PI: WM Kuzon, Jr)	\$515,230
1996-1997	Research Investigator; United States Fulbright Program in Lithuania. <i>Specific Force Deficit in Skeletal Muscles of Old Rats</i> (V. Macionis)	\$12,110
1996-1997	Research Investigator, University of Michigan, Department of Surgery Large Equipment Competition. <i>Bioquant Image Analysis System.</i> (PI: WM Kuzon Jr).	\$19,450
1997	Research Investigator; Summer University Research Opportunity Program, University of Michigan (Student: E. Pease)	\$2,500
1998- summer	Mentor, <i>Labeling Spinal Cord Neural Cell Bodies Through an Individual Muscle.</i> Office of the Vice President for Research, Minority High School Student Research Apprentice Program, University of Michigan, (Student: Toya Roberson)	\$2,200
1996-1999	Co-Investigator; Department of Veterans Affairs, Merit Review Board, <i>Force Deficit in Reinnervated Muscle</i> (PI: WM Kuzon Jr).	\$260,900
1996-2002	Co-Investigator; National Institutes of Health. <i>Force deficits in neurovascular muscle transfers.</i> R 29 NS34380 (PI: WM Kuzon Jr)	\$515,230
1998-1999	Research Investigator, Plastic Surgery Educational Foundation, <i>The Functional anatomy of Motor Axons Following End-To-Side Neurotization.</i> (PI: PS Cederna)	\$5,000

1998-2003	Co-Investigator; <i>Distraction Osteogenesis: Endogenous Tissue Engineering</i> . NY Medical Center. National Institutes of Health, RO1 HL 60454-01. (PI: Michael Longaker)	\$1,000,000
1999-2000	Research Investigator, Department of Surgery Research Advisory Committee: <i>Structural and Functional Changes in Motor Units From Aging Muscle</i> (PI: P. Cederna)	\$15,495
1999-2000	Co-investigator: Muscle-Nerve-Muscle Neurotization in Laryngeal Musculature., American Laryngological Voice Research and Education Foundation, New York, NY. (PI: Norman D. Hogikyan)	\$20,000
1999-2000	Project Leader, <i>Skeletal muscle force and specific force distribution among the multiple bellies of the rat extensor digitorum longus</i> . Supplementary Research Funding, Undergraduate Research Opportunities. (Student: Nora Kammer)	\$500
1999-2000	Co-Investigator; National Institutes of Health. <i>Supplement to R29 project: Force deficits in neurovascular muscle transfers</i> . (PI: WM Kuzon, Jr)	\$50,00
1999-2000	Research Investigator: AOA Medical Student Research Fellowship. <i>Factors influencing myogenesis in vitro</i> . (PI: N. Watson)	\$20,000
1999-2003	Co-Investigator: Department of Veteran's Affairs. <i>Force Deficits In Reinnervated Skeletal Muscle</i> (PI: WM Kuzon, Jr)	\$332,600
2000-summer	Mentor: <i>Muscle-Nerve-Muscle Neurotization in Skeletal Musculature</i> . University of Michigan, Summer Biomedical Fellowship Program. (PI: Mark Towns)	\$3500
2000	Project leader: <i>Lateral Force Transmitted in a Multi-Tendon Muscle with Single Tendon Rupture</i> . Office of the Vice President for Research, University of Michigan (Student: Nora Kammer)	\$3500
2001-2002	Mentor, <i>MNM reinnervation of a somatic muscle</i> . Supplementary Research Funding, Undergraduate Research Opportunities. (Student: Diana Ganz)	\$500
2000-2002	Research Investigator, National Institutes Health, <i>Training Grant in Trauma, Burn, and Wound Healing Research</i> . (PI: S. Jejurikar)	\$96,900
2001-2002	Research Investigator, Plastic Surgery Educational Foundation Basic Research Grant. <i>Satellite cell apoptosis following skeletal muscle denervation injury</i> . (PI: S. Jejurikar)	\$5,000
2002-2003	Research Investigator, Plastic Surgery Educational Foundation, <i>Satellite cell apoptosis with aging and contraction-induced injury</i> . (S. Jejurikar)	\$5049
2002-2005	Research Investigator, The Prevention and Treatment of Acute Wound Healing Failure. Department of Veteran's Affairs. (PI: Michael G. Franz)	
2003-summer	Senior Mentor: <i>Force and Power Output of Rat Muscle Following Tenotomy and Repair at Altered Muscle Length</i> . Co-mentor with W Kuzon, University of Michigan, Summer Biomedical Fellowship Program. (PI: Daniel Krochmal). NIH T35 HL07690-23.	\$3500
2003-summer	Senior mentor, <i>Prevention and treatment of acute wound failure</i> . Veterans Health Administration Merit Review Grant. (PI: M Franz) Summer support for Winston Choi.	\$3500
2004-2005	Principal Investigator, University of Michigan Department of Surgery Research Advisory Committee, <i>The Biomechanical Pathogenesis of Ventral Hernia</i> (PI: MG Urbanek)	\$24,942
2004-2005	Mentor, Supplemental Research Funding University of Michigan Undergraduate Research Opportunities Program. <i>A comparison of prostheses for use in hernia repair</i> Mentored by M. Urbanek and W. Kuzon. (Student: T. Wolcott)	\$500

2004-2005	Mentor: Supplementary Research Funding, Undergraduate Research Opportunities, <i>Age related abdominal muscle and fascia properties and their effect on ventral hernia</i> . Mentored by M. Urbanckek and W. Kuzon. (Student: Shaun Patel)	\$500
2005-summer	Mentor: Undergraduate Research Opportunity Program, Summer Biomedical Fellowship Program. <i>The biomechanical pathogenesis of ventral hernia</i> . Mentored by M. Urbanckek (Student: Shaun Patel)	\$3,500
2005-2006	Mentor, Supplemental Research Funding University of Michigan Undergraduate Research Opportunities Program. <i>A comparison of prostheses for use in hernia repair</i> . Co-Mentor, WM Kuzon. (Student: Thane E Wolcott, Andrea E Bohl)	\$870
2005-2006	Project leader, <i>Age related abdominal muscle and fascia properties and their effect on the incidence of ventral hernia</i> . Co-Mentor, W Kuzon, Jr. Supplementary Research Funding, Undergraduate Research Opportunities. (Student: Albert K Ma)	\$500
2005-2006	Mentor, <i>The role of collagen gene expression in the biomechanical pathogenesis of ventral hernia</i> . Supplementary Research Funding, Undergraduate Research Opportunities, (Student: Daniel Calderon)	\$500
2006	Project Leader: <i>The Biomechanical Pathogenesis of Ventral Hernia</i> . Co-Mentor, W Kuzon, Jr. UROP Travel Grant, (PI: Shaun P Patel)	\$900
2006-summer	Project leader: <i>Temporary Paralysis Of Select Abdominal Wall Muscles As Prevention Against Incisional Hernia Formation</i> . Co-mentor with W Kuzon, University of Michigan, Summer Biomedical Fellowship Program. (PI: Sam Lien).	\$4,500
2006-summer	Co-Mentor: <i>Evaluation of Levator Veli Palatini Muscle Innervation in Congenitally-Clefted Goat Palate</i> . Co-mentor with PS Cederna, University of Michigan, Summer Biomedical Fellowship Program. (PI: Lynn (Tut) Fuller).	\$4,500
2006-summer	Mentor: American Federation for Aging Research, Summer Fellowship Program. <i>The Effect of Aging and Laparotomy on the Capillarity of Abdominal Musculature</i> . Mentored by M. Urbanckek. (PI: Christina Prabhu)	\$4,500
2006-summer	Project leader: Undergraduate Research Opportunity Program, Summer Biomedical Fellowship Program. <i>Laparotomy and Incisional Hernia Formation Influences On Neuromuscular Junction Remodeling</i> . Mentored by MG Urbanckek. (Student: Albert Ma)	\$4,500
2007-summer	Co-Mentor: Summer Bioengineering Fellowship Program. <i>The Biomechanical Pathogenesis of Ventral Hernia</i> . Co-Mentor, W Kuzon, Jr. (PI: Katie Ewing)	\$3,500
2006-2008	Co-Investigator (15%): <i>The Effects of GDNF on Peripheral Nerve Regeneration</i> . (PI: Susan E MacKinnon) Co-Investigators: Terrance MycKatyn; Paul S Cederna, Melanie G Urbanckek. National Institutes of Health, 1 R01 NS051706-01.	\$42,199
2008-Summer	Co-Mentor: Wayne State Medical School Alumnae Research Scholarship. <i>Growth of Fibroblast into Acellular Tissue for Use as a Novel Prosthesis in Ventral Hernia Repair</i> . Co-Mentor, W Kuzon, Jr. (PI: Joseph Khouri)	\$3500
2008-Fall	Co-Mentor: Women In Engineering Scholarship, University of Michigan. <i>The Biomechanical Pathogenesis of Ventral Hernia</i> . Co-Mentor, W Kuzon, Jr. (PI: Katie Ewing)	\$1,500

CURRENT GRANT SUPPORT: (Principal Investigator(s) listed in parentheses)

Project Funding – Principal Investigator or Project Leader:

Project Funding – Co-Investigator: (Principal Investigator(s) listed in parentheses)

2006-2010	Co-Investigator (5%): <i>Mechanical Failure Induces a Chronic Wound Phenotype in Laparotomy Incisions.</i> (Michael G Franz) Co-Investigators: W Kuzon, C Marcelo, M Urbanek, National Institutes of Health, 5 R01 GM078288-02	\$1,270,866
2006-2011	Research Asst Professor (85%): <i>Bio-Integrating Structural and Neural-Prosthetic Materials.</i> Multidisciplinary University Research Initiative (MURI), sponsored U.S. Army Research Office. (David C Martin) Co-Investigators: Daryl R Kipke, Paul S Cederna, Steven Goldstein) W911NF-06-1-0078	\$1,257,266
2008-2009	Co-Mentor: <i>Development of an Integrated Bioelectrical Interface in Peripheral Nerve.</i> Co-mentor with PS Cederna, Plastic Surgery Research Education Foundation. (PI: Brent E Egeland, MD).	\$5000
2008-2009	Co-Mentor: <i>Tissue Engineering for Incisional Hernia Repair: Using Acellularized Myofascial Constructs Seeded With Autologous Fibroblasts.</i> Co-mentor with WM Kuzon, Jr, Plastic Surgery Research Education Foundation. (PI: Mazen Harake, MD).	\$5000
2008-2009	Co-Mentor, Development of a novel integrated bioelectrical peripheral nerve interface using poly(3,4-ethylenedioxythiophene). Frederick A Collier Surgical Society Research Fellowship Co-Mentor, PS Cederna (PI: Brent Egeland)	\$35,000
2008-2009	Mentor, Supplemental Research Funding University of Michigan Undergraduate Research Opportunities Program. Severed nerve fibers successfully grow across a gap containing an electrically conducting polymer. <i>A comparison of prostheses for use in hernia repair</i> (.Student: Yamini Jadcherla)	\$360
Summer 2009	Mentor, Travel Grant, University of Michigan Undergraduate Research Opportunities Program. Severed nerve fibers successfully grow across a gap containing an electrically conducting polymer. <i>A comparison of prostheses for use in hernia repair</i> (.Student: Yamini Jadcherla)	\$600
2008-2009	Mentor, Supplemental Research Funding University of Michigan Undergraduate Research Opportunities Program. <i>Nerve pathways in interfaces containing injured nerve fibers, muscle cells, and a conductive polymer.</i> (Student: Christopher Front)	\$450
2009-summer	Mentor, Undergraduate Research Opportunity Program, Summer Biomedical Fellowship Program. <i>PEDOT Coating Electrodes Improve the Fidelity and Sensitivity Of In Vivo Skeletal Muscle Electromyography.</i> (Student: Christopher M Frost)	\$3,400

2009-summer Mentor, Undergraduate Research Opportunity Program, Summer Biomedical Fellowship Program. *PEDOT Coating Electrodes Improve the Fidelity and Sensitivity Of In Vivo Skeletal Muscle Electromyography*. (Student: Christopher M Frost) – Supplementary Funds \$400

NIH Training Grant Faculty: (Principal Investigator(s) listed in parentheses)

2004-2009 Faculty, National Institutes of Health, T32 GM008616 *Training Grant in Trauma, Burn, and Wound Healing Research*. (Marcelo CL) \$619,398
2009-2011

Grant Applications under Review: (Principal Investigator(s) listed in parentheses)

2009 *A Living Biosynthetic Peripheral Nerve Interface. Volume I: Technical and Management Proposal*. (PI: PS Cederna. CoPI's: DC Martin, DR Kipke, MG Urbanek) Defense Sciences Office of DARPA, Restorative Biomedical Technologies \$2,000,000

Invention Disclosures under Review: (Principal Investigator(s) listed in parentheses)

File number 3776 Protocol for covalent grafting and polymerization of monolayers of conductive polymers in animal tissues. Peramo A, Martin DC, Cederna PS, Urbanek MG, June 2007

File number 4018 Bio-Artificial Neuro Muscular Interface Device April 2008
Richardson-Burns S, Peramo A, Kipke D, Martin D, Reza M, Hendricks JL, Turer DM, Miriani RM, Daneshvar ED, Cederna PS, Egeland BM, Urbanek MG

2115-004018/USAplication No 12/432,343 *Hybrid Bioelectrical Interface Device*. Kipke Dr, Abidian MR, Egeland BM, Urbanek MG, Cederna PS, Peramo A, Martin DC April 2009

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American College of Sports Medicine
American Society for Peripheral Nerve
Gerontological Society of America
Plastic Surgery Research Council

HONORS and AWARDS

1997 Stouffer C, Kuzon W, Urbanek M. *Aging Effect on the Number of Intact Motor Neurons*. Invited poster presentation, State of Michigan legislature, Spring 1997, Lansing, Michigan.

1997 Watson, N, Kalliainen, L, Urbanek, M, Eguchi, T, Kuzon, W. *Muscle Force Deficit After Antagonist Denervation*. 7th Annual Meeting of the American Society for Peripheral Nerve, June 1997, Williamsburg, VA (Outstanding Poster Award).

- 2000 Nora Kammer, undergraduate, awarded best undergraduate poster at Graduate Society of Women in Engineering Annual Poster Exhibit, University of Michigan, March 2000 (Mentor) MG Urbancheck.
- 2000 MM Johns, MD, awarded outstanding scientific presentation at 12th Annual Dingman Lecture, June 2000, Ann Arbor, MI. (Mentor) MG Urbancheck.
- 2002 DE Ganz, undergraduate oral presentation at the National Undergraduate Research Conference, April 24-26, 2002, University of Wisconsin – Whitewater, Whitewater, WI., (Mentor) MG Urbancheck.
- 2004 MG Urbancheck, JH van der Meulen, MA Aydin, PS Cederna, WM Kuzon, Jr. *Force Deficit in Permeabilized Muscle Fibers from Neurovascularized Muscle Transfers in the Rat.* American Society for Peripheral Nerve, January, 2004, Palm Springs, CA. (Outstanding Nerve Paper) MG Urbancheck.
- 2004 SM McClintic, awarded Guidant Foundation Scholarship in 2003-2004; Also undergraduate selected for an oral presentation at the Plastic Surgery Research Council, June 2004. (Mentor) MG Urbancheck.
- 2004 D Krochmal, M2 student, oral presentation at Moses Gunn 16th Annual Research Conference, 2004. Ann Arbor, MI. (Mentor) MG Urbancheck.
- 2005 EA Henkelman, MD, Fellow, Henkelman EA, Urbancheck MG, Franz MG, and Kuzon, Jr, WM. *Single Muscle Fiber Mechanics of Abdominal Muscle in the Presence of a Ventral Hernia.* Oral presentation at Moses Gunn 17th Annual Research Conference, 2005.
- 2005 Jacobs B, Bishop K, Chan SY, Urbancheck M, Cederna PS. *Immunomodulation with Anti-CD40L monoclonal Antibody (MRI) Enhances Neuroregeneration in the Murine Nerve Allograft Model.* Plastic Surgery Research Council 50th Annual Meeting, June, 2005, Toronto, ON, Crikelar Research Award for best paper presentation by a high school or college student.
- 2005 EA Henkelman, MD, Fellow, *Single Muscle Fiber Mechanics of Abdominal Muscle in the Presence of a Ventral Hernia.* Awarded outstanding scientific presentation at 12th Annual Dingman Lecture, June 2005, Ann Arbor, Michigan. (Mentors) MG Urbancheck & WM Kuzon, Jr.
- 2005 SP Patel, Student Editor, The Journal of Young Investigators (An undergraduate, peer-reviewed science journal). (Mentor) MG Urbancheck.
- 2006 SP Patel, Outstanding Undergraduate Poster at the Midwest Biomedical Engineering Conference, Ann Arbor, Michigan, March 24, 2006. (Mentor) MG Urbancheck.
- 2006 TE Wolcott, oral presentation at the 20th National Conference on Undergraduate Research, University of North Carolina at Asheville, April 6-8, 2006, Asheville, North Carolina. (Mentor) MG Urbancheck.

- 2007 AK Ma , Oral presentation 21st National Conference on Undergraduate Research. Dominican University of California, April 12-14, 2007, San Rafael, CA. (Mentor) MG Urbanek.
- 2007 KE Ewing, “Marian Sarah Parker Scholar”, Women in Science & Engineering Program, University of Michigan, Ann Arbor, Michigan. (Mentor) MG Urbanek.
- 2008 KE Ewing , *The Effect of Pre-Acellularized Tissue Size on Tensile Properties of Acellular Myofascia and Acellular Dermis.*(oral presentation) 22nd National Conference on Undergraduate Research 2008. April 10-12, 2008. Salisbury University, Salisbury, Maryland (Mentor) MG Urbanek
- 2008 AM Tissack, Autogenous Schwann Cell Migration in Peripheral Nerve Allografts Treated with Anti-CD40L Monoclonal Antibody. Honors Thesis, University of Michigan, Letters, Arts, and Sciences Department, Ann Arbor, MI (Mentors: MG Urbanek, PS Cederna, JY Kuwada)
- 2008 Egeland BM, Urbanek MG, Richardson-Burns S, Martin D, Kuzon WM Jr, Cederna PS. In Vivo Electrophysiologic Properties of Poly 3,4-ethylene-dioxythiophene (PEDOT) in a Biosynthetic Nerve Interface. Midwestern Association of Plastic Surgeons, 48th Annual Scientific Meeting, May 3-4, 2008, Chicago, IL (Oral Presentation – Awarded Second Place for Best Scientific Presentation)
- 2008 KA Ewing K, Kuzon WM Jr, Urbanek MG *Engineering an Improved Prosthetic Scaffold from Biological Materials.* University of Michigan –Graduate Engineering Symposium, Ann Arbor, MI, Nov 7, 2008. Second Place – Biomaterials, Biomechanics & Tissue Engineering Poster Award.
- 2009 Egeland BM, Urbanek MG, Richardson-Burns S, Kuzon WM Jr, Martin DC, Kipke DR, Cederna PS. *In Vivo Electrophysiologic Properties of Poly 3,4-ethylene-dioxythiophene (PEDOT) in a Biosynthetic Nerve Interface.* American Society for Peripheral Nerve, Annual Scientific Meeting, Jan 9-11, 2009, Maui, HI. (Oral Presentation – Awarded Best Clinical Paper).
- 2009 Frost CM, Urbanek MG, Egeland BM, Larkin LM, Kuzon WM Jr., Cederna PS. *Development of a Biosynthetic “Living Interface” with Severed Peripheral Nerve.* University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI. (Mentor: MG Urbanek)
- 2009 Egeland BM, Urbanek MG, Richardson-Burns S, Kuzon WM Jr, Kipke DR, Martin D, Cederna PS. *Electrophysiology Following Neural Regeneration through a Conducting, Polymer Lined Hydrogel Conduit.* University of Michigan Department of Surgery Moses University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI,(Outstanding Poster Award); (Mentor: MG Urbanek)
- 2009 Schroeder KA, Urbanek MG, Egeland BM, Ewing KA, Abidian MR, Daneshvar DE, Miriani RM, Kuzon WM Jr, Kipke DR, Cederna PS. Biosynthetic Poly(3,4-ethylenedioxythiophene) (PEDOT) PNS Interfaces Can Deliver Afferent SNAPs With High Efficiency. University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI, (Outstanding Poster Award); (Mentor: MG Urbanek).

- 2009 Jadcherla Y, Urbanchek MG, Abidian MR, Egeland BM, Miriani RM, Schroeder KM, Daneshvar DE, Ewing KA, Kuzon WM Jr, Kipke DR, Cederna PS. *Nerve Regeneration Through an Electrically Conducting Polymer Nerve Graft*. University of Michigan UROP Spring Symposium and Research Forum, April 1, 2008, Ann Arbor, MI. (Outstanding Poster Award); (Mentor: MG Urbanchek).
- 2009 Schroeder KA, Urbanchek MG, Egeland BM, Ewing KA, Abidian MR, Daneshvar DE, Miriani RM, Kuzon WM Jr, Kipke DR, Cederna PS. *Sensory Protection Recovery Follows Nerve Regeneration Through an Electrically Conducting Nerve Graft*. 54th Annual Meeting Plastic Surgery Research Council, May 27-30, 2009. Pittsburgh, PA. (Selected for Plenary Session)
- 2009 Frost CM Urbanchek MG, Egeland BM, Larkin LM, Abidian MR, Daneshvar DE, Miriani RM, Kuzon WM Jr, Kipke DR, Cederna PS. *Development of a Biosynthetic "Living Interface" with Severed Peripheral Nerve*. 54th Annual Meeting Plastic Surgery Research Council, May 27-30, 2009. Pittsburgh, PA. Plenary paper and John F. Crikelair - Research Award presented to the student (H.S., college, or medical) presenting the best paper at the annual meeting of the Plastic Surgery Research Council.
- 2009 Frost CM Urbanchek MG, Egeland BM, Larkin LM, Abidian MR, Daneshvar DE, Miriani RM, Kuzon WM Jr, Kipke DR, Cederna PS. *Development of a Biosynthetic "Living Interface" with Severed Peripheral Nerve*. 1th European Plastic Surgery Research Council, Aug. 19-23, 2009. Hamburg, Germany. Invited guest speaker.

TEACHING ACTIVITIES

Post Doctoral Research Fellows Supervised (University of Michigan):

- 2004-2006 Erika A Henkelman, MD, University of Toronto, Ontario, Canada (Co-supervisor with WM Kuzon, Jr.).
- 2005 Gulden Avci, MD, Visiting Research Fellow, from Kartal Education and Research Hospital, Istanbul, Turkey. (Co-supervisor with WM Kuzon, Jr., MD, PhD).
- 2007-2008 Mazen Harake, MD, Henry Ford Hospital, General Surgery Resident, Ann Arbor, Michigan. (Co-supervisor with William M Kuzon, Jr. MD, PhD).
- 2007-2009 Brent Egeland, MD, University of Michigan, Plastic Surgery Resident, Ann Arbor, Michigan. (Co-supervisor with Paul S Cederna, MD).

Post Doctoral, Research Fellow Teaching:

- 1986-1990 Residents rotating on the Research Unit, Department of Psychiatry and Human Behavior, University of California, Irvine Medical Center, Orange, CA.
- 1992 M Khaled Youssef, MD, Ain Shams University, Cairo, Egypt.
- 1993 Daniel Swartz, MD, University of Michigan, Department of Surgery, Section of Plastic and Reconstructive Surgery.
- 1993-1994 Kevin Chung, MD, Resident, University of Michigan, Department of Surgery, Section of Plastic and Reconstructive Surgery.

- 1993-1994 Hirotaka Asato, MD, University of Tokyo, Tokyo, Japan.
1994-1995 Kotaro Yoshimura, MD, University of Tokyo, Tokyo, Japan.
1996-1997 Tomoaki Eguchi, MD, University of Tokyo, Tokyo, Japan.
1996-1997 Valdas Macionis, MD, Fulbright Scholar, Vilnius University, Vilnius, Lithuania.
1999-2001 Michael M Johns, MD, Research Fellow, University of Michigan, Department of Otolaryngology (Awarded the Outstanding Scientific Presentation, Moses Gunn Annual Research Conference 2001).
2001-2002 M Asim Aydin, MD, Research Fellow, Department of Plastic Surgery, Suleyman Demirel University, Isparta, Turkey.
2002-2003 Jennifer B Lynch, MD, (Cork Co., Ireland) Research Fellow, University of Michigan, Section of Plastic and Reconstructive Surgery
2003-2004 Derek A DuBay, MD, Research Fellow, University of Michigan, Department of Surgery.
2004-2006 Erika A Henkelman, MD, Research Fellow, University of Michigan, Department of Surgery, Section of Plastic and Reconstructive Surgery
2004-2006 Deborah Yu, MD, Research Fellow, University of Michigan, Department of Surgery, Section of Plastic and Reconstructive Surgery
2005 Gulden Avci, MD, Visiting Research Fellow, from Kartal Education and Research Hospital, Istanbul, Turkey. University of Michigan, Department of Surgery, Section of Plastic and Reconstructive Surgery.
2007-2009 Antonio Peramo, Postdoctoral Fellow, University of Michigan, Department of Engineering, Material Sciences Laboratory.
2007 Daniel Krochmal, MD, University of Michigan, General Surgery Intern, Ann Arbor, Michigan.
2007-2009 Brent Egeland, MD, University of Michigan, Plastic Surgery Resident, Ann Arbor, Michigan.
2007-2008 Mazen Harake, MD, Henry Ford Health Sciences, Resident, Detroit, Michigan
2009- present Benjamin Wei, MD, Henry Ford Health Sciences, Resident, Detroit, MI Research Fellow, University of Michigan

Medical School Teaching:

- 1986-1990 Instructor, Medical Students rotating through Clinical Research Unit, Department of Psychiatry and Human Behavior, University of California, Irvine Medical Center, Orange, California.
1996-1998 Instructor, M4 Elective, Microsurgery – Muscle Mechanics, University of Michigan.
2000 Mentor for Mark Towns, University of Michigan, M2, Summer Biomedical Fellowship. Ann Arbor, Michigan.
2000 Mentor, Istvan Miko, University of Michigan M4, Research Rotation
2003-2004 Mentor, for Winston Choi, University of Michigan, M2, Summer research project. Ann Arbor, Michigan.
2003-2006 Mentor, for Daniel Krochmal, University of Michigan, M2, Summer Biomedical Fellowship, Ann Arbor, Michigan.
2006 Summer Mentor, for Lynn Fuller, University of Michigan, M2, Summer Biomedical Fellowship, Ann Arbor, Michigan.
2006-Summer Christina Prabhu, Northeastern Ohio Universities College of Medicine, M2, awarded a Summer American Fellowship Aging Research Training Grant fellowship, Ann Arbor, Michigan.

- 2006-present Mentor, Sam Lien, University of Michigan, M2, Summer Biomedical Fellowship, Ann Arbor, Michigan; continuing through paper publication.
2007-2008 Co-Mentor, Alison Tisack, University of Michigan Honors Program.
2008-Summer Co-mentor, for Joseph S Khouri, Wayne State Medical School, M1, Wayne State Alumni Research Grant, Detroit, Michigan.
2008 University of Michigan School of Medicine, M1, Physiology, Skeletal Muscle discussion leader.

Graduate School Teaching:

- 1980-1981 Assistant Professor: Statistics, Research Design, and Cardio-respiratory assessment, California State University, Los Angeles, CA
1986-1987 Lecturer, Statistics, University of Southern California, Los Angeles, CA

Medical Student and Undergraduate Student Research Fellows Supervised (University of Michigan):

- 1999 Summer Nora Kammer, Research Fellow, Summer Biomedical Research Program, University of Michigan
2003 Summer Daniel Krochmal, Research Fellow, Summer Biomedical Fellowship, University of Michigan Medical School
2005 Summer Shaun P Patel, Research Fellow, Summer Biomedical Research Program, University of Michigan
2005 Summer Daniel Calderon, Research Fellow, Summer Biomedical Research Program, University of Michigan
2006 Summer Albert K Ma, Research Fellow, Summer Biomedical Research Program, University of Michigan
2006 Summer Sam Lien, Research Fellow, Summer Biomedical Fellowship, University of Michigan Medical School
2006-Summer Lynn Fuller, Research Fellow, University of Michigan, M2, Summer Biomedical Fellowship, Ann Arbor, Michigan.
2006-Summer Christina Prabhu, Research Fellow, Northeastern Ohio Universities College of Medicine, M2, awarded a Summer American Fellowship Aging Research Training Grant fellowship, Ann Arbor, Michigan.
2007-Summer Katie Ewing, Research Fellow, awarded a Summer Undergraduate Research Award in Biomedical Engineering, University of Michigan, Ann Arbor, Michigan (co-mentor with William M Kuzon, Jr.).
2007-Summer Thomas Huls, Research Fellow, awarded a Summer Undergraduate Research Award in Biomedical Engineering, University of Michigan, Ann Arbor, Michigan (co-mentor with William M Kuzon, Jr. and Michael G Franz).
2008-2009 Katie Ewing, Research Fellow, awarded Women in Engineering Fellowship, University of Michigan, Ann Arbor, Michigan
2008-present Christopher Frost, Research Fellow, awarded UROP Summer Biomedical Fellowship, University of Michigan, Ann Arbor, MI

Undergraduate Teaching:

- 1966-1969 Faculty, high school and junior high school biology, health, and physical education

- 1980-1981 Faculty, Undergraduate and graduate level exercise physiology, laboratory, tests and measurements, Assistant Professor, California State University at Los Angeles, Los Angeles, California.
- 1976-1981 Instructor, undergraduate activity, laboratory, and research electives in physical education at the University of Southern California, Los Angeles, CA
- 1984-1985 Instructor, research elective, Cell Biology Laboratory, University of Southern California, Los Angeles, CA
- 1986-1990 Instructor, undergraduate research elective, Department of Psychiatry and Human Behavior, University of California, Irvine Medical Center, Orange, California
- 1993-Summer Co- Mentor, Student Biomedical Research Program, University of Michigan (Rama Kuchipudi)
- 1994-Summer Co- Mentor, undergraduate summer research, University of Michigan (Nicolas Watson)
- 1995 Co- Mentor, Student Biomedical Research Program, University of Michigan (Larry Liang)
- 1996-1997 Instructor, for Lynn Falardeau and Chadwick Stouffer, UC280, Undergraduate Research Opportunities Program, University of Michigan, Ann Arbor, Michigan
- 1998 Instructor, for Toya Roberson; Minority High School Student Research Apprentice Program, University of Michigan
- 1998-1999 Instructor, Undergraduate Research Opportunities Program (Nora Kammer), University of Michigan, Ann Arbor, Michigan
- 2000-2001 Instructor, for Diana Ganz, Undergraduate Research Opportunities Program, University of Michigan, Ann Arbor, Michigan
- 2001-2002 Instructor, for Diana Ganz, Developmental Biology 300 (MCDB 300); co-sponsor, Karen Ocorr, PhD, University of Michigan, Ann Arbor, Michigan
- 2001-2002 Instructor, for Steven Rayappa, Undergraduate Research Opportunities Program In Residence, University of Michigan, Ann Arbor, Michigan
- 2002-2003 Faculty, University of Michigan, Ann Arbor, Michigan, Research in Surgery 499 (Diana Ganz)
- 2003-2004 Faculty, Research in Surgery, Surgery 499 (Joshua Hack, Diana Ganz)
- 2004 Instructor for Diana Ganz, Advanced Research Psychology, Psychology 422. Co-Faculty, with Teresa Lee, PhD, University of Michigan, Ann Arbor, Michigan
- 2003-2004 Mentor, Undergraduate Research, through work study (Scott McClintic), University of Michigan, Ann Arbor, Michigan
- 2004-2005 Mentor, Undergraduate Research (Richard Cheng and Thane Wolcott), University of Michigan, Ann Arbor, Michigan
- 2004-2005 Faculty, University of Michigan, Ann Arbor, Michigan, Research in Surgery 499 (Dan Calderon)
- 2004-2005 Mentor, Undergraduate Research Opportunity Program (Shaun Patel, Daniel Calderon, and Thane Wolcott), University of Michigan, Ann Arbor, Michigan
- 2005-Spring Instructor, Thane Wolcott, Honors , University of Michigan, Ann Arbor, Michigan
- 2004-2005 Instructor, University of Michigan, Ann Arbor, Michigan, Research in Surgery, Surgery 499 (Daniel Calderon)
- 2005-summer Instructor, for Thane Wolcott, Biology 200, Co-sponsored by Matthew Chapman, PhD, University of Michigan, Ann Arbor, Michigan

- 2005-Fall Instructor, University of Michigan, Ann Arbor, Michigan, Research in Surgery, Surgery 499 (Shaun Patel)
- 2005-2006 Instructor for Andrea Bohl, Albert Ma, Daniel Calderon, and Thane Wolcott, Undergraduate Research Opportunity Program (UC 280) University of Michigan, Ann Arbor, Michigan
- 2006-Winter Instructor, for Shaun Patel, Biology 200, Co-sponsored by Ronald Nussbaum, PhD, University of Michigan, Ann Arbor, Michigan
- 2006-Winter Instructor, for Shaun Patel, Developmental Biology 300 (MCDB 300), Co-sponsored by Mohammed Akaaboune, PhD, Neurobiology, University of Michigan, Ann Arbor, Michigan
- 2006-Summer Mentor, for Albert Ma, Summer Research Fellow, UROP Summer Biomedical Research Program, University of Michigan
- 2006-Summer Instructor, University of Michigan, Ann Arbor, Michigan, Research in Surgery, Surgery 499 (Thane Wolcott)
- 2007-Summer Instructor, University of Michigan Research in Surgery, Surgery 499, University of Michigan, Ann Arbor, Michigan (Thane Wolcott)
- 2007- 2008 Instructor, for Wendy Shieh, Developmental Biology 400 (MCDB 400), Co-sponsored by Matthew Chapman, PhD, Microbiology, University of Michigan, Ann Arbor, Michigan
- 2007-2008 Instructor, for Alison Tisack, Neural Psychology-Psych 422 and Honors Thesis advisor. University of Michigan, Ann Arbor, Michigan.
- 2007-2008 Katie Ewing, “Marian Sarah Parker Scholar”, Women in Science & Engineering Program, University of Michigan, Ann Arbor, Michigan, *Tissue Engineering an Improved Acellular Prosthesis for Nerve Repair* (co-mentor with William M Kuzon, Jr.).
- 2008-Summer Kirsten Schroeder, *Sensory Protection Tests in the Rat: Development and Application in a Biotic-Abiotic Nerve Interface Model*. Mentor, Summer Researcher from Hope College, Holland, MI
- 2008-2009 Instructor for Yamini Jadhira and Christopher Cross, Undergraduate Research Opportunity Program (UC 280) University of Michigan, Ann Arbor, Michigan
- 2009 Moderator, University of Michigan, UROP Summer Journal Club.

BIBLIOGRAPHY:

Master’s Dissertation:

Urbanchek, MS. *Young Children's Recovery Heart Rate Utilizing a Modified Step Test and Relationships to Factors of Sex, Age, and Perceptual-Motor Measures*, 1976.

Doctoral Dissertation:

Urbanchek, MS. *Phosphofructokinase and Fructose 1-6 diphosphatase Activities in Cardiac Tissue as Effected by Exercise Training*. Dissertation, University of Southern California, 1986

Patents – Disclosures

1. Peramo A, Martin DC, Cederna PS, Urbanchek MG. Protocol for covalent grafting and polymerization of monolayers of conductive polymers in animal tissues. Disclosure, UMott file 3776, June 2007.

2. Martin D, Kipke D, Cederna PS, Richardson-Burns S, Abidian M, Egeland B, Urbancheck MG, Peramo A, Hendricks D, Subbaroyan J, Salas L, Turer D, Miriani R, Daneshvar E, Bio-artificial neuro-muscular interface (BANMI) device.
3. U.S. Provisional Patent Application. Bio-Artificial Neuro-Muscular Interface (BANMI) Device. Inventors: Daryl A Kipke, et al. Serial No 61/049,988 –Filed: May 2, 2009. U of M Ref No 4018. Our Ref. No. 2115-004018/PS1

Completed Publications in Scientific Journals:

Peer Reviewed Publications:

1. Wiswell R, Abbott B, Urbancheck M, Ross M, Girandola R. CPK and LDH Isoenzyme Release Following Exercise in Trained and Untrained Subjects. *Med Sci Sports Exerc*, 13:80, 1981.
2. Potkin, SG, Urbancheck, MS, Kirch, DG, Bunney, WE, Jr. *Evaluation of Optimal Doses of Neuroleptic: Preliminary Results*. *Clin Neuropharmacol* 9:437-439, 1986.
3. Zetin, M, Potkin, SG, Urbancheck, M. *Melatonin in Depression*. *Psychiatr Ann*, 17:10,676-681, 1987.
4. Potkin S.G., Swanson J.M., Urbancheck M., Carreon D, and Bravo G. *Lateralized deficits in covert shifts of visual attention in chronic and never-medicated schizophrenics compared to controls*. *Schizophrenia Research* 2, p. 95, 1989.
5. Reynolds, J, Urbancheck, MS, Asato, H, Kuzon, WM Jr. *Deletion of individual muscles alters rat walking track parameters*. *J Reconstr Microsurg*, 12:461-466, 1996.
6. Kuzon, WM Jr., Urbancheck, MG, McCabe, S. *The seven deadly sins of statistical analysis in plastic surgery research*. *Ann Plast Surg*, 37:265-272, 1996.
7. Kuzon WM Jr. Urbancheck MG. McCabe S. *The seven deadly sins of statistical analysis*. [erratum appears in *Ann Plast Surg* 1997 Jan;38(1):87-8]. [Journal Article] *Annals of Plastic Surgery*. 37(3):265-72, 1996 Sep.
8. van der Meulen JH, Cederna PS, Urbancheck M, Kuzon WM Jr. *Motor unit remodeling in reinnervated EDL muscle of rats*. *Med Sci Sports Exerc*, 30:S205, 1998.
9. Cederna PS, Eguchi T, van der Meulen, JH, Urbancheck MG, Kuzon, WM Jr. *Force deficits in neurovascular muscle transfers*. *Plastic Surgical Forum* 49:1998.
10. Rovak J, Macionis V, Cederna PS, Urbancheck MG, Kuzon, WM Jr. *Axonal anatomy following end-to-side surgical nerve repair*. *J Reconstr Microsurg*, 14:594, 1998.
11. Kalliainen L, Carroll WM, Urbancheck MG, Kuzon, WM Jr. *Muscle-Nerve-Muscle neurotization for reinnervation of laryngeal and somatic muscles*. *J Reconstr Microsurg*, 14:602-605, 1998.

12. Yoshimura K, Asato H, Cederna PS, Urbanek MG, Kuzon, WM Jr. *The effect of reinnervation on force production and power output in skeletal muscle.* J Surg Res, 81:201-208, 1999.
13. Urbanek MS, Chung KC, Asato H, Washington LN, Kuzon, WM Jr. *Rat walking tracks do not reflect maximal muscle force capacity.* J Reconstr Microsurg, 15(2) 143-149, 1999.
14. Rovak J, Cederna P, Macionis V, Urbanek M, van der Meulen J, Kuzon, WM Jr. *Termino-lateral neurorrhaphy: the functional axonal anatomy.* Microsurg 20:6-14, 2000.
15. Cederna PS, Youssef, KMH Asato H, Urbanek MG, Kuzon, WM Jr. *Skeletal muscle reinnervation by reduced axonal numbers results in whole muscle force deficits.* Plast Reconstruct Surg, 105:2003-2009, 2000.
16. van der Meulen JH, Cederna PS, Eguchi T, Urbanek MG, Kuzon WM, Jr. *The effect of hyper-reinnervation on motor unit force and number in the EDL muscle of rats.* Med Sci Sports Exerc, 32:5 S103, 2000.
17. Urbanek MG, Van der Meulen JH, Cederna PS, Eguchi T, Kuzon WM, Jr. *Reinnervated muscle force is related to muscle fiber denervation.* Med Sci Sports Exerc, 32:5 S324, 2000.
18. Cederna PS, Kalliainen LK, Urbanek MG, Rovak JR, Kuzon, Jr. WM, . *"Donor" muscle structure and function following end-to-side neurorrhaphy.* Plast Reconstruct Surg, 107:789-796, 2001.
19. Urbanek MG, Pickens EB, Kalliainen LK, Kuzon, Jr., WM. *The specific force deficit in skeletal muscles of old rats is partially explained by the existence of denervated muscle fibers.* J of Gerontology: Biol Sci, 56A. no. 5, B191-197, 2001.
20. Watson NC, Jejurikar SS, Kalliainen LK, Calderon MS, Urbanek MG, Eguchi T, Kuzon WM. *Range of motion physiotherapy reduces the force deficit in antagonists to denervated rat muscles.* J of Surgical Res 99:156-160, 2001.
21. Hogikyan ND, Johns MM, Kileny PR, Urbanek M, Carroll WR, Kuzon WM. *Motion specific laryngeal reinnervation using muscle-nerve-muscle neurotization.* Ann Otol Rhinol Laryngol, 110:9:801-810, 2001.
22. Johns MM, Urbanek M, Chepeha DB, Kuzon WM, Hogikyan, ND. *Thyroarytenoid muscle maintains normal contractile force in chronic vocal fold immobility.* Laryngoscope. 111(12):2152-2156, 2001.
23. Kalliainen LK, Jejurikar SS, Liang LW, Urbanek MG, Kuzon, Jr WM. *A Specific Force Deficit Exists in Skeletal Muscle After Partial Denervation.* Muscle & Nerve, 25: 31-38, 2002.
24. Yoshimura K, Asato H, Jejurikar SS, Cederna PS, Urbanek MG, Kuzon, Jr. WM. *The effect of two episodes of denervation and reinnervation on skeletal muscle contractile function.* Plast Reconstr Surg, 109:1:212-219, 2002.
25. van der Meulen JH, Urbanek MG, Cederna PS, Eguchi T, Kuzon Jr., WM *Denervated Muscle Fibers Explain the Deficit in Specific Force After Denervation and Reinnervation of the Rat EDL Muscle.* Plast Reconstr Surg 112(5):1336-46, 2003.

26. Urbanek MG, Van der Meulen JH, Aydin MA, Cederna PS, .Kuzon, Jr WM, *Reinnervated Muscle Function is Related to Muscle-Fiber Denervation in the Rat.* J Recon Microsurgery 19(5): 345.
27. Van der Meulen JH, Aydin MA, Urbanek MG, Cederna PS, Eguchi T, .Kuzon, Jr WM, Susceptibility to and Recovery from Contraction-Induced Injury of the Extensor Digitorum Longus Muscle in Rat after Division and Immediate Repair of the Peroneal Nerve. J Recon Microsurgery 19(5): 350.
28. Aydin MA, Urbanek MG, Kuzon, Jr WM. *Improved early muscle recovery using FK506 in a rat nerve repair model.* J Recon Microsurgery, 20(2):183-192, 2004.
29. Urbanek MG, Ganz DE, Aydin MA, van der Meulen JH, Kuzon, Jr WM. *Muscle-Nerve-Muscle neurotization for the reinnervation of denervated somatic muscle.* Neurol Res, 26(4): 388-394, 2004.
30. Johns MM, Urbanek M, Chepeha DB, Kuzon WM, Hogikyan, ND. *Length-tension relationship of the feline thyroarytenoid muscle,* J Voice 18(3):285-291, 2004.
31. Urbanek MG, van der Meulen JH, Cederna PS, Eguchi T, Kuzon Jr., WM *Muscle transfer force deficit is partially explained by a denervated muscle fiber population.* Basic and Appl Myol. 14(3): 179-189, 2004.
32. Jacobs B, Bishop K, Chan SY, Urbanek MG, Cederna PS. *Immunomodulation with Anti-CD40L monoclonal Antibody (MR1) Enhances Neuroregeneration in the Murine Nerve Allograft Model.* J Recon Microsurgery, 21(5) 337, 2005.
33. Urbanek MG, Aydin MA, van der Meulen JH, Kuzon, Jr, WM. *The Effect of Muscle Injury on Neurovascularized Muscle Transfers.* J Recon Microsurgery, 21(5) 330, 2005.
34. Yoshimura K, DeMeester J, Hasan JS, Urbanek MG, Kuzon Jr WM. *Neurovascular transfer does not cause skeletal muscle fiber degeneration.* Plastic and Reconstructive Surgery. 117:5,1455 -1461, 2006.
35. Patel SP, Henkelman EA, Wolcott TE, Avci G, Calderon DR, Franz MG, Kuzon WM, Urbanek MG. *Incisional Hernia Effect on Abdominal Neuromuscular Properties in the Rat.* J Reconstr Microsurg 22: Aug A014, 2006.
36. Urbanek MG, Ganz DE, Kuzon WM. *Functional Status of Rat Facial Muscles Based on Expression Rating Scales.* J Reconstr Microsurg 22: Aug A011, 2006.
37. Urbanek M, Patel S, Ma A, Wolcott T, Henkelman E, Franz M, and Kuzon, Jr W. *Old age and laparotomy adversely affect abdominal muscle mechanical properties.* Journal of the American College of Surgeons (JACS) Vol 203:Issue 3, Supplement 1, Page S18, 2006.
38. DuBay DA, Choi W, Urbanek MG, Wang X, Adamson B, Dennis RG, Kuzon, Jr WM, Franz, MG. *Incisional Herniation Induces Decreased Abdominal wall Compliance via Oblique Muscle Atrophy and Fibrosis.* Annals of Surgery. 245(1):140-146, 2007.
39. Jejurikar SS, Henkelman EA, Cederna PS, Marcelo CL, Urbanek MG, Kuzon WM Jr. *Aging increases the susceptibility of skeletal muscle derived satellite cells to apoptosis.* Experimental Gerontology. 41(9):828-36, 2006.

40. Lien SC, Franz MG, Kuzon WM, Urbanek MG. *Temporary Paralysis of Abdominal Wall Muscles Reduces the Evolvement of Incisional Hernia*. Supplement to Plastic and Reconstructive Surgery, 120(1):53, 2007.
41. Cederna PS, Yu D, Urbanek MG. *Autogenous and Allogenic Schwann Cells in Nerve Allografts Indicate that Anti-CD40 Ligand Costimulatory Blockage Induces a Permissive State*. Supplement to Plastic and Reconstructive Surgery, 120(1):14, 2007.
42. Krochmal DJ, Kuzon, Jr. WM, Urbanek, MG. *Force and Power Following Tendon Repair with Altered Resting Muscle Tension*. Journal of Surgical Research, 146, 81-89, 2008.
43. Peramo A, Urbanek MG, Spanninga SA, Povlich LK, Cederna PS and Martin DC. *In situ polymerization of a conductive polymer in acellular muscle tissue constructs*. Tissue Engineering: Part A, 2008 Mar; 14(3):423-32.
44. Egeland BM, Urbanek MG, Richardson_Burns SM, Martin DC, Kipke D, Kuzon WM, Jr, Cederna PS. *In Vivo Electrophysiologic Properties of Poly 3,4-ethylenedioxythiophene (PEDOT) in a Biosynthetic Nerve Interface*. American Society for Peripheral Nerve Newsletter, Spring, pp9-16, 2008
45. Wolcott TE; Urbanek MG; Kipke DR; Kuzon WM, Jr; Cederna PS. *Nerve Repair with Introduction of a MEMS-Based Electrode-Effects on Reinnervated Muscle Function and Nerve Morphology*. Medicine Science and Sport and Exercise-Supplement, 40:5: S240-241, 2008.
46. Tisack AM, Yu D, Urbanek MG, Nicolaou D, Cederna PS. *Populations of Autogenous Schwann Cells in Nerve Allografts Indicate that Anti-CD40 Ligand Costimulatory Blockade Induces a Permissive State*. Supplement to Plastic Surgery Research 121:65: p 87, 2008.
47. Urbanek MG, Larkin LM, Wellington MS, Egeland BE, Marcelo CL, Martin DC, Kuzon, Jr WM, Cederna PS. *Myoblast Compatibility With A Bio-synthetic Electrically Conductive Material*. Supplement to Plastic Surgery Research 121:65: p 104, 2008.
48. Urbanek MG, Wolcott TE, Egeland BM, Kipke DR, Kuzon, Jr WM, Cederna PS, *Microscale Electrode Implantation during Nerve Repair: Effects on Recovery of Muscle Contractile Function, Nerve Conduction, and Nerve Morphology*. Supplement to Plastic Surgery Research 121:65: p 23, 2008.
49. Egeland B, Urbanek MG, Richardson-Burns S, Peramo A, Martin DC, Kuzon WM, Cederna PS. *In Vivo Electrophysiologic Properties of Poly 3,4-ethylenedioxythiophene (PEDOT) in a Biosynthetic Nerve Interface*. Supplement to Plastic Surgery Research, Nov 2008.
50. Urbanek MG, Wolcott TE, Egeland BM, Kipke DR, Kuzon, Jr WM, Cederna PS, *Microscale Electrode Implantation during Nerve Repair: Effects on Recovery of Muscle Contractile Function, Nerve Conduction, and Nerve Morphology*. Supplement to Plastic Surgery Research, Nov 2008.
51. Urbanek MG, Larkin LM, Goble KM, Egeland BE, Richardson-Burns SM, Martin DC, Kuzon, Jr WM, Cederna PS. *Myoblast and Regenerating Nerve Compatibility on PEDOT, an Intrinsically Conductive Material*. Supplement to Plastic Surgery Research, Nov 2008.
52. Abidian MR, Daneshvar E.D, Miriani R, Turer DM, Wright M, Egeland B, Urbanek M, Cederna P, Kipke DR. *Conductive hydrogel microtubes for peripheral*

- nerve regenerations*, 16th International Conference on Mechanics in Medicine and Biology, Pittsburg, PA, July 2008.
53. Urbanek MG, Abidian MR, Ewing KA, Egeland BM, Schroeder KA, Daneshvar DE, Cederna PS, Kipke DR, Kuzon WM Jr, Miriani RM. *Sensory Protection Recovery Follows Nerve Regeneration through an Electrically Conducting Nerve Graft*. Plastic and Reconstructive Surgery, June 2009 Supplement, Vol. 123, Number 6 (supplement), pg. 40.
54. Frost CM, Urbanek MG, Egeland BM, Larkin LM, Kuzon WM Jr, Martin DM, Cederna PS. *Development of a Biosynthetic "Living Interface" with Severed Peripheral Nerve*. Plastic and Reconstructive Surgery, June 2009 Supplement, Vol. 123, Number 6 (Supplement), 6A, pg.12.
55. Urbanek MG, Egeland BM, Richardson-Burns SM, Kuzon WM, Kipke DR, Martin DC, and Cederna PS. *In Vivo Electrophysiologic Properties of poly(3,4-ethylenedioxythiophene) PEDOT in Peripheral Motor Nerves*. Plastic and Reconstructive Surgery, June 2009 Supplement, Vol. 123, Number 6 (Supplement), 125A, pg. 89.
56. Jadcherla Y, Urbanek MG, Abidian MR, Egeland BM, Miriani RM, Schroeder KM, Daneshvar DE, Ewing KA, Kuzon WM Jr, Kipke DR, Cederna PS. *Nerve Regeneration Through an Electrically Conducting Polymer Nerve Graft*. Plastic and Reconstructive Surgery, June 2009 Supplement, Vol. 123, Number 6 (Supplement), 127A, pg. 90.
57. Ewing KA, Khouri JS, Urbanek, MG, Kuzon Jr WM. *Fibroblast Seeding Of Myofascia for Use as a Tissue Prosthesis*. Plastic and Reconstructive Surgery, June 2009 Supplement, Vol. 123, Number 6 (Supplement), 162B, pg. 113.
58. Harake MS, Urbanek MG, Khouri JS, Xing, L, Ewing KA, Franz MG, Kuzon, Jr WM. *Engineered Tissue for Incisional Hernia Repair in an In Vivo Rat Model*. Plastic and Reconstructive Surgery, June 2009 Supplement, Vol. 123, Number 6 (Supplement), 168B, pg. 116.
59. Egeland BM, Urbanek MG, Abidian MR, Kuzon Jr WM, Cederna PS. *A Tissue-Based Bioelectrical Interface has Reduced Impedance Compared to Copper Wire and Nerve*. Plastic and Reconstructive Surgery, June 2009 Supplement, Vol. 123, Number 6 (Supplement), 127B, pg. 26.

Book Chapters, Conference Proceedings, Published Letters, and Other Non-peer Review Publications

1. Kuzon, WM. Jr; Urbanek, MG.; McCabe S. *The Seven Deadly Sins of Statistical Analysis*. Annals of Plastic Surgery. 37(3):265-272, September 1996.
2. Kuzon, W.M., Urbanek, M.H, McCabe, S., Re: *The Seven Deadly Sins of Statistical Analysis in Plastic Surgery Research* (response to letter). Annals of Plastic Surgery 38(1):87-8, 1997.

Manuscripts Accepted for Publication

Manuscripts Submitted for Publication

1. Yoshimura, M., Urbanek, M., Faulkner, J., Kuzon, W. *Influence of fiber architecture on skeletal muscle contractile properties after tenotomy and repair.* Submitted to: Journal of Hand Surgery, 2005.
2. Egeland BM, Urbanek MG, Peramo A, Richardson-Burns, SM, Martin DC, Kipke DR, Kuzon WM JR, Cederna PS. *A novel Poly(3,4-ethylenedioxythiophene) and tissue based neural interface.* Submitted to: ???? 1-2009.
3. Lien SC, Patel SP, Kuzon, Jr. WM, Urbanek, MG. *Temporary Paralysis of Abdominal wall Muscles Reduces the Evolvement of Incisional Hernia.* JACM, July 2009

Manuscripts in Preparation for Publication

1. Urbanek MG, Kammer NE, Kuzon, Jr., WM. *Skeletal muscle force and specific force distribution among the multiple bellies of the rat extensor digitorum longus.* In preparation for Journal of Morphology.
2. Jejurikar SS, Eguchi T, Urbanek MG, Kuzon Jr, WM. *Reducing the number of innervating axons to neurovascular muscle transfers worsens the contractile dysfunction.*
3. Ganz DE, Kuzon, Jr., WM, Urbanek MG. *Facial Expression Ratings and Facial Muscle Contractile Properties in the Rat.* For submission to: Journal of Reconstructive Microsurgery.
4. Urbanek MG, McClintic SM, Eguchi T, Jejurikar SS, Kuzon, Jr. WM. *Proportion of Mature Axons and Neurovascularized Muscle Transfer Specific Force and Normalized Power Deficits.*

INVITED PRESENTATIONS

Oral Presentations

1. Urbanek, MS. *The importance of exercise in weight control.* Invited Oral Presentation. California Association of Health, Physical Education, and Recreation. May 1981, Monterey, CA.
2. Potkin SG, Swanson JM, Kharazmi M, Urbanek M, Stramek J, Lee, D. *Never-Medicated and Chronic Schizophrenics Have Right Visual Field Deficits in Exploratory Eye Movements.* Abstract presented to Society of Biological Psychiatry Annual Meeting, 1989
3. Potkin SG, Harrera J, Kharazmi M, Stramek J, Urbanek M, Carreon D, Kojima T. *Decreased Eye Movements in Chronic Schizophrenics Compared to Matched Normal Controls.* Abstract presented to Society of Biological Psychiatry Annual Meeting, 1988.

4. Reynolds J, Urbanek, M, Asato H, Kuzon, WM. *Contribution of individual motors to rat walking track parameters*. Plastic Surgery Research Council 39th Annual Meeting June 1994, Ann Arbor, Michigan.
5. Urbanek, M. *Is muscle spindle afferent discharge reduced in aging skeletal muscle?* Proposal presentation, 4th Annual Summer Training Course in Experimental Aging Research, University of Michigan. June, 1996.
6. Watson N, Kalliainen L, Urbanek M, Eguchi T, Kuzon, W. *Muscle Force Deficit After Antagonist Denervation*. Plastic Surgery Research Council 42nd Annual Meeting, February 1997, Galveston, TX
7. Watson N, Kalliainen L, Urbanek M, Eguchi T, Kuzon, Jr. W. *Muscle Force Deficit After Antagonist Denervation*. Plastic Surgery Research Council 42nd Annual Meeting, February 1997, Galveston, TX.
8. Stouffer C, Kuzon W, Urbanek M. *Aging Effect on the Number of Intact Motor Neurons*. Invited poster presentation to the State of Michigan legislature, Spring 1997, Lansing, Michigan.
9. Eguchi T, Urbanek M, Kuzon WM, Jr. *Reducing the Number of Innervating Axons Increases the Mechanical Deficit in Reinnervated Skeletal Muscle*. 7th Annual Meeting of the American Society for Peripheral Nerve, June 1997, Williamsburg, VA.
10. Rovak JM, Macionis V, Cederna PS, Urbanek M, Kuzon WM. *Functional neuroanatomy of motor axons after end-to-side neurorrhaphy*. University of Michigan Medical School 43rd Annual Student Biomedical Research Forum, November 11, 1997. Ann Arbor, MI
11. Rovak JM, Macionis V, Urbanek M, Cederna PS, Kuzon WM. *Termino-lateral neurorrhaphy: the functional axonal anatomy*. Presentation, Plastic Surgery Research Council, April 4-7, 1998. Loma Linda, CA
12. Rovak JM, Macionis V, Cederna PS, Urbanek M, Kuzon WM. *Axonal anatomy following end-to-side surgical nerve repair*. Presentation, American Society for Peripheral Nerve, 8th Annual Meeting, May 22-24, 1998. Vancouver, Canada
13. Van der Meulen JH, Cederna PS, Urbanek M, Eguchi M, Kuzon WM. *Contractile properties of motor units in reinnervated rat EDL muscle*. Presentation, American Society for Peripheral Nerve, 8th Annual Meeting, May 22-24, 1998. Vancouver, Canada
14. Kalliainen L, Carroll W, Urbanek M, Kuzon, Jr. W. *Muscle-nerve-muscle neurotization for the reinnervation of laryngeal and somatic muscles*. Presentation, American Society for Peripheral Nerve, 8th Annual Meeting, May 22-24, 1998. Vancouver, Canada
15. Cederna PS, Eguchi T, van der Meulen, JH, Urbanek MG, Kuzon, Jr. WM. *Force deficits in neurovascular muscle transfers*. Presentation, 84th Clinical Congress of the American College of Surgeons, October 25-30, 1998, Orlando, FL

16. Carroll W, Kalliainen L, Urbanek M, Kuzon, Jr. W. *Muscle-nerve-muscle neurotization for the reinnervation of laryngeal and somatic muscles*. Annual Meeting of American Academy of Otolaryngology – Head and Neck Surgery Foundation, Inc. September 13-16, 1998, San Antonio, TX
17. Kammer NE, Urbanek MG. *Architectural Divisions of the Rat Extensor Digitorum Longus Muscle*. Oral Presentation: UROP Spring Research Symposium 1999, University of Michigan, April 7, 1999, Ann Arbor, MI
18. van der Meulen JH, Cederna PS, Eguchi T, Urbanek, M, Kuzon, Jr., WM *Morphometric analysis of peroneal nerves after reinnervation in rats: Correlation with motor unit properties*. Ninth Annual Meeting of the American Society for Peripheral Nerve, June 19-21, 1999, Los Angeles, CA.
19. Cederna PS, van der Meulen JH, Urbanek MG, Eguchi T, Kuzon, Jr WM. *Hyper-reinnervation in a neurovascular muscle transfer model: single motor unit properties*. American Society of Peripheral Nerve, July 2000, NY, NY.
20. Kammer NE, Urbanek MG. *Divisions of the Extensor Digitorum Longus Muscle Are Not Mechanically Independent of Each Other*. Oral and poster presentation, 45th Annual Meeting, Plastic Surgery Research Council, Seattle, WA, May 17-20, 2000.
21. Johns, MM, *Muscle-Nerve-Muscle neurotization in unilateral vocal fold paralysis*. 24th Annual Frank A. Lamberson Lectureship, June 2000. (Mentor)
22. Johns MM. *Thyroarytenoid muscle maintains normal contractile force in chronic vocal fold immobility following recurrent laryngeal nerve resection*. 12th Annual Dingman Lecture, June 2000, Ann Arbor, MI. Award winning presentation. (Mentor)
23. Van der Meulen JH, Cederna PS, Eguchi T, Urbanek, MS, Kuzon Jr., WM. *The Effect of Hyper-reinnervation of the Peroneal Nerve on Recovery of the EDL Muscle in Rat*. Oral presentation, American Society for Peripheral Nerve, 2001 Annual Meeting, Jan 9, 2001, San Diego, CA.
24. Hogikyan ND, Johns MM, Kileny PR, Urbanek, M, Carroll WR, Kuzon, Jr WM. *Motion specific laryngeal reinnervation using muscle-nerve-muscle neurotization*. Triological Society Annual Meeting, May 2001, Palm Desert, CA.
25. Johns MM, Urbanek M, Chepeha DB, Kuzon WM, Jr, Hogikyan ND. *Thyroarytenoid muscle maintains normal contractile force in chronic vocal fold immobility following recurrent laryngeal nerve resection*. Triological Society Annual Meeting, May 2001, Palm Desert, CA.
26. van der Meulen JH, Claflin D, Urbanek MG, Cederna P, Kuzon, Jr WM *Incomplete Nerve Repair affects both Whole Muscle and Single Fiber Maximal Force*. American Society for Peripheral Nerve, 2002 Annual Meeting, Jan 11, 2002, Cancun, Mexico
27. Urbanek MG, Kileny PR, Johns MM, Hogikyan ND, Kuzon, Jr WM *No donor muscle force deficit after Muscle-Nerve-Muscle neurotization*. American Society for Peripheral Nerve, 2002 Annual Meeting, Jan 11, 2002, Cancun, Mexico.

28. Aydin, MA, Urbanek MG, Kuzon, Jr WM. *FK506 Does Not Enhance EDL Muscle Recovery at 4 Weeks Following Peroneal Nerve Transection and Repair in Rats*. Plastic Surgery Research Council 47th Annual Meeting, April 17, 2002, Boston, MA.
29. Ganz D, Urbanek MG, van der Meulen JH, Aydin, MA, Kuzon, Jr WM. *Muscle Fiber Denervation is Reduced Following Muscle Nerve-Muscle-Neurotization to Denervated Synergistic Somatic Rat Muscle*. Plastic Surgery Research Council 47th Annual Meeting, April 17, 2002, Boston, MA.
30. van der Meulen, Urbanek MG, Cederna PS, Kuzon, Jr WM. *Single permeabilized muscle fiber force deficits following contraction-induced injury of rat EDL muscle*. Plastic Surgery Research Council 47th Annual Meeting, April 17, 2002, Boston, MA.
31. Ganz D, Urbanek MG. *Muscle Fiber Denervation is Reduced Following Muscle Nerve-Muscle-Neurotization to Denervated Synergistic Somatic Rat Muscle*. National Undergraduate Research Conference, April 24-26, 2002, University of Wisconsin – Whitewater, Whitewater, WI.
32. van der Meulen, Aydin MA, Urbanek MG, Cederna PS, Kuzon, Jr WM. *The Susceptibility to and Recovery from Contraction-Induced Injury of the Extensor Digitorum Longus Muscle in Rat after Division and Immediate Repair of the Peroneal Nerve*. American Society for Peripheral Nerve, 2003 Annual Meeting, Jan 12, 2003, Kauai, HA
33. Urbanek MG, Van der Meulen JH, Cederna PS, Aydin MA, Eguchi T, Kuzon, Jr, WM. *Reinnervated Muscle Function Is Related to Muscle Fiber Denervation in the Rat*. American Society for Peripheral Nerve, 2003 Annual Meeting, Jan 12, 2003, Kauai, HA. (Selected as one of two Outstanding Nerve papers.)
34. Johns MM, Urbanek M, Chepeha DB, Kuzon WM, Hogikyan, ND. *Length-tension relationship of the feline thyroarytenoid muscle*. The Voice Foundation's 32nd Annual Symposium: Care of the Professional Voice, 2003.
35. Lynch JB, Cavaliere CM, Borschel GB, Urbanek MG, Kuzon, Jr. WM. *Mandibular distraction osteogenesis and the effects on the rat anterior digastric muscle*. British Association of Plastic Surgery (BAPS) December 3-5, 2003, London, England.
36. Lynch JB, Cavaliere CM, Borschel GH, Urbanek MG, Buchman SR, Kuzon WM. *Mandibular Distraction Osteogenesis Does Not Cause Muscle Damage and Denervation*. 49th Annual Meeting of the Plastic Surgery Research Council, Ann Arbor, MI, USA June 2004.
37. Lynch JB, Cavaliere CM, Borschel GH, Urbanek MG, Kuzon WM. *Mandibular Distraction Osteogenesis and the Effect on Muscles of Mastication*. Irish Association of Plastic Surgery, Cork, May 2004.
38. Lynch JB, Cavaliere CM, Borschel GH, Urbanek MG, Buchman SR, Kuzon WM. *Mandibular Distraction Osteogenesis Does Not Cause Muscle Damage and Denervation*. British Association of Plastic Surgery, Dublin, July 2004.
39. Urbanek MG, van der Meulen JH, Aydin MA, Cederna PS, Kuzon, WM Jr. *Force Deficit in Permeabilized Muscle Fibers from Neurovascularized Muscle*

- Transfers in the Rat*. American Society for Peripheral Nerve, January, 2004, Palm Springs, CA. (Outstanding Nerve Paper).
40. Krochmal DJ, Urbanek MG, Kuzon, WM Jr. *Force and Power Output of Rat Muscle Following Tenotomy and Repair at Altered Muscle Tension*. Moses Gunn 16th Annual Research Conference, University of Michigan, Ann Arbor, April 30, 2004.
 41. DuBay DA; Choi W; Urbanek MG; Wang X; Chung E; Dennis RG, Kuzon, WM Jr; Franz MG. *Chronic Incisional Herniation Induces Decreased Abdominal Wall Compliance Due to Oblique Muscle Atrophy and Fibrosis*. 73rd Annual Mayo Lectureship, Department of Surgery, University of Michigan, Ann Arbor, May 20, 2004
 42. Krochmal DJ, Urbanek MG, Kuzon WM Jr. *Force and Power Output of Rat Muscle Following Tenotomy and Repair at Altered Muscle Tension*. Plastic Surgery Research Council 49th Annual Meeting, June, 2004 Ann Arbor, MI
 43. McClintic SM; Eguchi T; Kuzon WM Jr; Urbanek, MG. *Proportion of Mature Axons Contributes to Neurovascularized Muscle Transfer Specific Force Deficit*. Plastic Surgery Research Council 49th Annual Meeting, June, 2004 Ann Arbor, Michigan.
 44. Jacobs B, Bishop K, Chan SY, Urbanek MG, Cederna PS. *Immunomodulation with Anti-CD40L monoclonal Antibody (MRI) Enhances Neuroregeneration in the Murine Nerve Allograft Model*. American Society for Peripheral Nerve, Annual Meeting, Jan 15-16, 2005. Fajardo, Puerto Rico
 45. Urbanek MG, Aydin MA, van der Meulen JH, Kuzon, Jr, WM. *The Effect of Muscle Injury on Neurovascularized Muscle Transfers*. American Society for Peripheral Nerve, Annual Meeting, Jan 15-16, 2005. Fajardo, Puerto Rico.
 46. Henkelman EA, Urbanek MG, Claflin, D, Franz MG, and Kuzon, Jr, WM. *Single Muscle Fiber Mechanics of Abdominal Muscle After Ventral Hernia Induction*. Moses Gunn 17th Annual Research Conference, University of Michigan, Ann Arbor, April 22, 2005.
 47. Henkelman EA, Urbanek MG, Franz MG, and Kuzon, Jr, WM. *Single Muscle Fiber Mechanics of Abdominal Muscle in the Presence of a Ventral Hernia*. The University of Michigan, Department of Surgery's 74th Annual William J. Mayo Lecture, Monday, May 16, 2005
 48. van der Meulen JH, Eguchi T, Cederna PS, Urbanek MG, Kuzon, Jr., WM. *Response of motor units at varying degrees of nerve repair and its effect on muscle performance*. Plastic Surgery Research Council 50th Annual Meeting, June, 2005 Toronto, ON.
 49. Jacobs B, Bishop K, Chan SY, Urbanek M, Cederna PS. *Immunomodulation with Anti-CD40L monoclonal Antibody (MRI) Enhances Neuroregeneration in the Murine Nerve Allograft Model*. Plastic Surgery Research Council 50th Annual Meeting, June, 2005, Toronto, ON.
 50. Henkelman EA, Urbanek MG, Franz MG, and Kuzon, Jr, WM. *Single Muscle Fiber Mechanics of Abdominal Muscle in the Presence of a Ventral Hernia*. Plastic Surgery Research Council 50th Annual Meeting, June, 2005, Toronto, ON.

51. Henkelman EA, Urbancheck MG, Franz MG, and Kuzon, Jr, WM. *Single Muscle Fiber Mechanics of Abdominal*. Presentation at 74th Annual William J. Mayo Lecture, Monday, May 16, 2005. (Mentor) MG Urbancheck
52. Henkelman EA, Urbancheck MG, Franz MG, and Kuzon, Jr, WM. *Single Muscle Fiber Mechanics of Abdominal*. Presentation at 12th Annual Dingman Lecture, June 2005, Ann Arbor, MI. (Mentor) MG Urbancheck
53. Urbancheck MG, Ganz DE, Kuzon WM Jr. *Functional status of rat facial muscles based on expression rating scales*. American Society for Peripheral Nerve, Annual Meeting, Jan 14-15, 2006, Tucson, Arizona
54. Patel SP; EA Henkelman, TE Wolcott; G Avci; DR Calderon, MG Franz, WM Kuzon, Jr, MG Urbancheck *Incisional Hernia Effect on Abdominal Neuromuscular Properties in the Rat*. American Society for Peripheral Nerve, Annual Meeting, Jan 14-15, 2006.
55. Wolcott TE; Wood SC, Bishop DK, Franz MG, Kuzon, WM, Jr, Urbancheck MG. *Acellularization of Myofascial Grafts and Tests for Immunogenicity*. 20th National Conference on Undergraduate Research, University of North Carolina at Asheville, April 6-8, 2006, Asheville, North Carolina.
56. Henkelman EA, Marcelo CL, Urbancheck MG, Kuzon WM, JR.; Franz MG. *The Role of Tension on Fibroblast Proliferation and Function in Incisional Hernias*. Presentation at 13th Annual Dingman Lecture, June 2006, Ann Arbor, MI.
57. Krochmal DJ, Kuzon WM, JR.; Franz MG, Urbancheck MG. *Separation of Parts for Incisional Hernia: Risk Factors for Recurrence*. Presentation at 13th Annual Dingman Lecture, June 2006, Ann Arbor, MI.
58. Urbancheck MG, Patel SP; Ma AK, Wolcott TE; Henkelman EA, Franz MG, Kuzon, WM, Jr. *Old Age and Laparotomy Adversely Affect Abdominal Muscle Mechanical Properties*. American College of Surgeons 61st Annual Surgical Forum, Annual Meeting, September 2006, Chicago, IL.
59. Ma AK, Patel SP, Franz MG, Kuzon WM, Jr., Urbancheck MG. *Abdominal Muscle Deficits Associated with Incisional Hernia Are Sustained Following Prolonged Recovery*. Frederick A Coller Surgical Society. Oct 18 -22, 2006 Ann Arbor, MI.
60. Ma AK, Patel SP, Franz MG, Kuzon WM, Jr., Urbancheck MG. *Abdominal Muscle Deficits Associated with Incisional Hernia Are Sustained Following Prolonged Recovery*. National Conference on Undergraduate Research. Dominican University of California, April 12-14, 2007, San Rafael, CA.
61. Lien SC, Franz MG, Kuzon WM, Urbancheck MG. *Temporary Paralysis of Abdominal Wall Muscles Reduces the Evolvement of Incisional Hernia*. Presentation at 14th Annual Dingman Lecture, June 9, 2007, Ann Arbor, MI.
62. Lien SC, Franz MG, Kuzon WM, Urbancheck MG. *Temporary Paralysis of Abdominal Wall Muscles Reduces the Evolvement of Incisional Hernia*. 52nd

- Annual Meeting of the Plastic Surgery Research Council. June 20-23, 2007, Stanford, CA. (Oral presentation)
63. Urbanek MG, Wolcott TE, Franz MG, Wood SC, Bishop DK, Kuzon WM, *Tensile Properties of Mouse Abdominal Wall Repaired with Acellular Myofascia Closely Resemble Those of Native Abdominal Wall*. 52nd Annual Meeting of the Plastic Surgery Research Council. June 20-23, 2007, Stanford, CA. (Oral Presentation)
 64. Cederna PS, Yu D, Urbanek MG. *Autogenous and Allogenic Sshwann Cells in Nerve Allografts Indicate that Anti-CD40 Ligand Costimulatory Blockage Induces a Permissive State*. 52nd Annual Meeting of the Plastic Surgery Research Council. June 20-23, 2007, Stanford, CA. (Oral Presentation)
 65. Peramo A, Urbanek MG, Spanninga SA, Povlich LK, Cederna PS and Martin DC. *Chemical Polymerization of the Conductive Polymer Pedot in Acellularized Muscle Tissues*. Biomedical Engineering Symposium (BMES) - Tissue Engineering and Biomaterials, Biomemetic Materials session, September, Los Angeles, CA 2007 (Oral Presentation)
 66. Urbanek MG, Peramo A, Kipke DR, Kuzon, Jr WM, Cederna PS. *Nerve Repair with Introduction of a MEMS-based Neural Electrode is Not Detrimental to Muscle Reinnervation*. American Society for Peripheral Nerve, 2008 Annual Scientific Meeting, January 11-13, 2008. Beverly Hills, CA (Oral Presentation)
 67. Martin DC, Richardson-Burns S, Meznarich N, Urbanek M, and Cederna PS. *In-Situ Polymerization of Conducting Polymers in Living Tissue*. Materials Research Society Spring Meeting, March 2008, San Francisco, CA. (Oral Presentation)
 68. Ewing K, Kuzon, WM Jr., Urbanek MG *Tissue Engineering an Improved Prosthesis for Hernia Repair*. 22nd National Conference on Undergraduate Research 2008. April 10-12, 2008. Salisbury University, Salisbury, Maryland, (Oral Presentation)
 69. Richardson-Burns S, Meier M, Hendricks DM, Meznarich N, Miriani R Ludwig K, Kipke D, Urbanek M, Egeland B, Cederna P, Chikar J, Raphael Y, Martin D. *Conducting Polymers for Interfacing the Nervous System with Prosthetic Devices*. International Society of Electrochemistry, September 7-12, 2008, Seville, Spain. (Oral Presentation)
 70. Egeland BM, Urbanek MG, Richardson-Burns S, Martin D, Kuzon WM Jr, Cederna PS. *In Vivo Electrophysiologic Properties of Poly 3,4-ethylene-dioythiophene (PEDOT) in a Biosynthetic Nerve Interface*. Midwestern Association of Plastic Surgeons, 48th Annual Scientific Meeting, May 3-4, 2008, Chicago, IL (Oral Presentation)
 71. Egeland BM, Urbanek MG, Richardson-Burns S, Martin D, Kuzon WM Jr, Cederna PS. *In Vivo Electrophysiologic Properties of Poly 3,4-ethylene-dioythiophene (PEDOT) in a Biosynthetic Nerve Interface*. University of Michigan Department of Surgery Moses Gunn 20th Annual Research Conference, May 13th, 2008, Ann Arbor, MI. (Oral Presentation)
 72. Harake M, Shanks A, Urbanek MG, Krochmal D, Pressley L, Kuzon WM Jr, Franz MG. *Component Separation Technique with Underlay Acellular Dermal Allograft (AlloDermTM) for the Reconstruction of Complex Abdominal Wall*

- Defects*. University of Michigan Department of Surgery Moses Gunn 20th Annual Research Conference, May 13th, 2008, Ann Arbor, MI. (Oral Presentation)
73. Tisack AM, Yu D, Urbanek MG, Nicolaou D, Cederna PS. *Populations of Autogenous Schwann Cells in Nerve Allografts Indicate that Anti-CD40 Ligand Costimulatory Blockade Induces a Permissive State*. Plastic Surgery Research Council 53rd Annual Meeting, Springfield, IL, May 28-31, 2008. (Oral presentation).
 74. Urbanek MG, Larkin LM, Wellington MS, Egeland BE, Marcelo CL, Martin DC, Kuzon, Jr WM, Cederna PS. *Myoblast Compatibility With A Bio-synthetic Electrically Conductive Material*. Plastic Surgery Research Council 53rd Annual Meeting, Springfield, IL, May 28-31, 2008. (Oral presentation)
 75. Urbanek MG, Wolcott TE, Egeland BM, Kipke DR, Kuzon, Jr WM, Cederna PS, *Microscale Electrode Implantation during Nerve Repair: Effects on Recovery of Muscle Contractile Function, Nerve Conduction, and Nerve Morphology*. Plastic Surgery Research Council 53rd Annual Meeting, Springfield, IL, May 28-31, 2008. (Oral presentation).
 76. Egeland BM, Urbanek MG, Richardson-Burns S, Martin D, Kuzon WM Jr, Cederna PS. *In Vivo Electrophysiologic Properties of Poly 3,4-ethylene-dioxythiophene (PEDOT) in a Biosynthetic Nerve Interface*. 38th Neural Interfaces Conference, Cleveland, OH, June 16-18, 2008.. (Oral Presentation)
 77. Egeland BM, Urbanek MG, Richardson-Burns S, Martin D, Kuzon WM Jr, Cederna PS. *In Vivo Electrophysiologic Properties of Poly 3,4-ethylene-dioxythiophene (PEDOT) in a Biosynthetic Nerve Interface*. 20th Annual Reed O Dingman Research Symposium, Ann Arbor, MI, June 12-13, 2008.. (Oral Presentation)
 78. Harake M, Shanks A, Urbanek MG, Krochmal D, Pressley L, Kuzon WM Jr, Franz MG. *Component Separation Technique with Underlay Acellular Dermal Allograft (AlloDermTM) for the Reconstruction of Complex Abdominal Wall Defects*. 20th Annual Reed O Dingman Research Symposium, Ann Arbor, MI, June 12-13, 2008. (Oral Presentation)
 79. Egeland B, Urbanek MG, Richardson-Burns S, Martin DC, Kuzon WM, Cederna PS. *In Vivo Electrophysiologic Properties of Poly 3,4-ethylenedioxythiophene (PEDOT) in a Biosynthetic Nerve Interface*. Michigan Association of Plastic Surgeons Meeting, Mackinaw, MI, July 21-23, 2008. (Oral Presentation)
 80. Harake MS, Shanks A, Urbanek MG, Krochmal DJ, Pressley L, Kuzon, Jr WM, Franz MG. *Component Separation Technique with Underlay Acellular Dermal Allograft (AlloDermTM) for the Reconstruction of Complex Abdominal Wall Defects*. Michigan Association of Plastic Surgeons Meeting, Mackinaw, MI, July 21-23, 2008. (Oral Presentation)
 81. Egeland B, Urbanek MG, Richardson-Burns S, Peramo A, Martin DC, Kuzon WM, Cederna PS. *In Vivo Electrophysiologic Properties of Poly 3,4-ethylenedioxythiophene (PEDOT) in a Biosynthetic Nerve Interface*. Frederick A. Collier Surgical Society, Annual Meeting, Indianapolis, IN Sept 25-28, 2008. (Oral presentation)
 82. Egeland B, Urbanek MG, Richardson-Burns S, Peramo A, Martin DC, Kuzon WM, Cederna PS. *In Vivo Electrophysiologic Properties of Poly 3,4-*

- ethylenedioxythiophene (PEDOT) in a Biosynthetic Nerve Interface*. American Society of Plastic Surgeons, Annual Meeting, Chicago, IL Oct 31-Nov 5, 2008. (Oral presentation)
83. Tisack AM, Yu D, Urbanchek MG, Nicolaou D, Cederna PS. *Autogenous Schwann Cells in Nerve Allografts Indicate that Anti-CD40 Ligand Costimulatory Blockade Induces a Permissive State*. American Society of Plastic Surgeons, 2008 Annual Meeting, Chicago, IL Oct 31-Nov 5, 2008. (Oral presentation)
84. Harake MS, Shanks A, Urbanchek MG, Krochmal DJ, Pressley L, Kuzon, Jr WM, Franz MG. *Component Separation Technique with Underlay Acellular Dermal Allograft (AlloDerm™) Reconstruction of for Complex Abdominal Wall Defects*. American Society of Plastic Surgeons, 2008 Annual Meeting, Chicago, IL Oct 31-Nov 5, 2008. (Oral presentation)
85. Abidian MR, Daneshvar ED., Miriani R, Turer DM, Wright M, Egeland B, Urbanchek M, Cederna P, Kipke DR.. *Conductive hydrogel microtubes for peripheral nerve regenerations*, 16th International Conference on Mechanics in Medicine and Biology, Pittsburg, PA, July 2008.
86. Abidian MR, Daneshvar ED, Turer DM, Wright M, Egeland B, Urbanchek M, Miriani R, Cederna P, Kipke DR. *Functional bio-artificial neuromuscular implant for peripheral nerve regeneration*, American Society for Peripheral Nerve, January 2009, Maui, HI.
87. Urbanchek MG, Egeland BM, Larkin LM, Kuzon, Jr WM, Martin DC, Cederna PS. *Toward A Biotic-Abiotic Peripheral Nerve Interface*. American Association for Peripheral Nerve. Annual Scientific Meeting, Jan 9-11, 2009, Maui, HI.
88. Egeland B, Urbanchek MG, Richardson-Burns S, Peramo A, Martin DC, Kuzon WM, Cederna PS. *In Vivo Electrophysiologic Properties of poly 3,4-ethylenedioxythiophene (PEDOT) in Peripheral Motor Nerves*. American Association for Peripheral Nerve. Annual Scientific Meeting, Jan 9-11, 2009, Maui, HI.
89. Egeland B, Urbanchek MG, Richardson-Burns S, Kipke DR, Martin DC, Cederna PS. *Poly(3,4-ethylenedioxythiophene) PEDOT Bioengineered Constructs Can Deliver Afferent SNAPs With High Efficiency*. American Association for Peripheral Nerve. Annual Scientific Meeting, Jan 9-11, 2009, Maui, HI.
90. Frost CM, Urbanchek MG, Egeland BM, Larkin LM, Kuzon WM Jr., Cederna PS. *Development of a Biosynthetic "Living Interface" with Severed Peripheral Nerve*. University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI.
91. Egeland B, Urbanchek MG, Abidian M, Kuzon WM Jr, Cederna PS. *Conductive Biomaterials and Implications for Neural Interface Development*. Resident Research Presentation, 78th William J. Mayo Lectureship Conference, May 4, 2009, Ann Arbor, MI
92. Urbanchek MG, Schroeder KA, Egeland BM, Ewing KA, Abidian MR, Kuzon WM Jr, Cederna PS. *Sensation Recovery Follows Nerve Regeneration Through an Electrically Conducting Nerve Graft*. 54th Annual Meeting Plastic Surgery Research Council, May 27-30, 2009. Pittsburgh, PA.

93. Jadcherla Y, Urbanek MG, Abidian MR, Egeland BM, Miriani RM, Schroeder KM, Daneshvar DE, Ewing KA, Kuzon WM Jr, Kipke DR, Cederna PS. *Nerve Regeneration Through an Electrically Conducting Polymer Nerve Graft*. 54th Annual Meeting Plastic Surgery Research Council, May 27-30, 2009. Pittsburgh, PA.
94. Khouri JS, Ewing KA, Urbanek MG, Harake MS, Xing L, Kuzon WM Jr. *Fibroblast Seeding of Myofascia for Use as a Tissue Prosthesis*, 54th Annual Meeting Plastic Surgery Research Council, May 27-30, 2009. Pittsburgh, PA.
95. Schroeder KA, Urbanek MG, Egeland BM, Ewing KA, Abidian MR, Daneshvar DE, Miriani RM, Kuzon WM Jr, Kipke DR, Cederna PS. *Sensory Protection Recovery Follows Nerve Regeneration Through an Electrically Conducting Nerve Graft*. 54th Annual Meeting Plastic Surgery Research Council, May 27-30, 2009. Pittsburgh, PA.
96. Frost CM Urbanek MG, Egeland BM, Larkin LM, Abidian MR, Daneshvar DE, Miriani RM, Kuzon WM Jr, Kipke DR, Cederna PS. *Development of a Biosynthetic "Living Interface" with Severed Peripheral Nerve*. 54th Annual Meeting Plastic Surgery Research Council, May 27-30, 2009. Pittsburgh, PA.
97. Harake MS, Urbanek MG, Khouri JS, Xing L, Ewing K, Franz, MG, Kuzon WM Jr. *Engineered Tissue for Incisional Hernia Repair in an In Vivo Rat Model*. 54th Annual Meeting Plastic Surgery Research Council, May 27-30, 2009. Pittsburgh, PA.
98. Egeland BM, Urbanek MG, Richardson-Burns SM, Kuzon WM Jr, Kipke DR, Martin DC, Cederna PS. *In Vivo Electrophysiologic Properties of poly(3,4-ethylenedioxythiophene) PEDOT in Peripheral Motor Nerves*. 54th Annual Meeting Plastic Surgery Research Council, May 27-30, 2009. Pittsburgh, PA
99. Egeland BM, Urbanek MG, Abidian MR, Kuzon WM Jr, Cederna PS. *A Tissue-Based Bioelectrical Interface has Reduced Impedance Compared to Copper Wire and Nerve*. 54th Annual Meeting Plastic Surgery Research Council, May 27-30, 2009. Pittsburgh, PA
100. Schroeder KA, Urbanek MG, Egeland BM, Ewing KA, Abidian MR, Kuzon WM Jr, Cederna PS. *Sensory Recovery Follows Nerve Regeneration In a Conducting Nerve Graft*. University of Michigan, 21st Reed O. Dingman Research Symposium, June 6, 2009. Ann Arbor, MI
101. Egeland BM, Urbanek MG, Adams A, Larkin LM, Martin DC, Kipke DR, Cederna PS. *Biocompatibility of Tissue Engineered Non-Metallic Conductive Neural Interface*. University of Michigan, 21st Reed O. Dingman Research Symposium, June 6, 2009. Ann Arbor, MI
102. Harake MS, Urbanek MG, Khouri JS, Xing L, Ewing K, Franz, MG, Kuzon WM Jr. *Acellularized Myofascial Scaffolds Seeded with Autologous Fibroblasts in Rat Hernia Repairs*. University of Michigan, 21st Reed O. Dingman Research Symposium, June 6, 2009. Ann Arbor, MI
103. Khouri JS, Ewing KA, Urbanek MG, Harake MS, Xing L, Kuzon WM Jr. *Fibroblast Seeding of Myofascia for Use as a Tissue Prosthesis*, Wayne State Summer Research Symposium, May 2009. Detroit, MI.

Abstracts Accepted for Presentation

1. Egeland BM, Urbancheck MG, Kipke DR, Martin DC, Kipke DR, Kuzon WM Jr, Cederna PS. *Engineering and Development of a Stable, Low Impedance, Bioelectrical Peripheral Nerve Interface*. 54th Annual Meeting Plastic Surgery Research Council, Oct 11-15, 2009. Chicago, IL (oral presentation)
2. Frost CM, Urbancheck MG, Egeland BM, Larkin LM, Kuzon WM Jr., Cederna PS. *Innervation of a Biosynthetic "Living Interface" by Severed Peripheral Nerve*. American Society of Plastic Surgeons, Annual Clinical Conference 2009, Oct 23-27, 2009, Seattle, WA. (oral presentation)
3. Jadcherla Y, Urbancheck MG, Abidian MR, Egeland BM, Miriani RM, Schroeder KM, Daneshvar DE, Ewing KA, Kuzon WM Jr, Kipke DR, Cederna PS. *Nerve Regeneration Through an Electrically Conducting Polymer Nerve Graft, PEDOT*. American Society of Plastic Surgeons, Annual Clinical Conference 2009, Oct 23-27, 2009, Seattle, WA. (oral presentation)
4. Urbancheck MG, Schroeder KA, Egeland BM, Abidian MR, Miriani RM, Ewing KA, Daneshvar DE, Kipke DR, Kuzon WM Jr, Cederna PS. *Sensory Protection Recovery Follows Nerve Regeneration through Nerve Grafts Lined with An Electrically-Conductive Polymer*. American Society of Plastic Surgeons, Annual Clinical Conference 2009, Oct 23-27, 2009, Seattle, WA. (oral presentation)
5. Urbancheck MG, Egeland BM, Larkin LM, Peramo A, Cederna PS. *Decellular Nerve Grafts Support Myoblast Growth in the Presence of PEDOT*. Biomedical Engineering Society. Annual Fall Scientific Meeting, October 7-10, 2009, Pittsburgh, PA. (poster presentation)

Abstracts Submitted for Presentation (Oral or Poster)

1. Urbancheck MG, Baghmanli Z, Egeland BM, Larkin LM, Peramo A, Kuzon Jr WM, Cederna PS. *Decellular Nerves Support Myoblast Cell Expansion in the Presence of PEDOT*. American Society for Peripheral Nerve 2010, Jan 6-12, 2010, Boca Raton, FL
2. Frost CM, Urbancheck MG, Ewing KA, Richardson-Burns S, Wei B, Egeland BM, Cederna PS. *Cyclic Voltammetric and In Vivo Analysis of PEDOT Coated Electrode Fidelity for Use in Neural Prosthetics*. American Society for Peripheral Nerve 2010, Jan 6-12, 2010, Boca Raton, FL
3. Schroeder KA, Urbancheck MG, PhD; Jadcherla Y, Ewing KA, Egeland BM, Abidian MR, Cederna PS. *Sensory Recovery Follows Nerve Regeneration through a Nerve Graft Coated with an Electrically Conductive Polymer*. American Society for Peripheral Nerve 2010, Jan 6-12, 2010, Boca Raton, FL.
4. Egeland BM, Urbancheck MG, Abidian MR, Miriani RM, Schroeder KM, Daneshvar DE, Ewing KA, Jadcherla Y, Kuzon WM Jr, Kipke DR, Cederna PS. *Electrophysiology Following Neural Regeneration Through Conducting Polymer-Lined Hydrogel Conduit*. American Society for Peripheral Nerve 2010, Jan 6-12, 2010, Boca Raton, FL
5. Egeland BM, Urbancheck MG, Abidian MR, Miriani RM, Martin DC, Kipke DR, Kuzon WM Jr, Cederna PS. *Electrical Performance of Bio-Engineered Non-Metallic Nerve Interface*. American Society for Peripheral Nerve 2010, Jan 6-12, 2010, Boca Raton, FL

6. Egeland BM, Urbanek MG, Wei B, Kipke DR, Martin DC, Kuzon WM and Cederna P5 *In Vitro Biocompatibility of Polymer-Biologic Hybrid Nerve Interface*. American Society for Peripheral Nerve 2010, Jan 6-12, 2010, Boca Raton, FL

Poster Presentations

1. Potkin, SG, Swanson, JM, Kharazmi, M, Urbanek, M, Costa, J, Lee, D. *Right Visual Field Deficits in Exploratory Eye Movement in Chronic and Never - Medicated Schizophrenics Compared to Normal Controls*. Poster presented to Annual Neuropsychopharmacology Meeting, 1989, San Diego, CA
2. Reynolds J, Urbanek, M, Asato H, Kuzon, WM. *Contribution of individual motors to rat walking track parameters*. Annual Meeting of the American Society for Peripheral Nerve, June 1994, Rye Brook, New York.
3. Reynolds J, Urbanek, M, Asato H, Kuzon, WM. *Contribution of individual motors to rat walking track parameters*. University of Michigan, Undergraduate Research Opportunities Program Reception, June 1994, Ann Arbor, MI
4. Stouffer C, Urbanek M, Kuzon, W. *Aging Effect on the Number of Intact Motor Neurons*. University of Michigan, UROP Spring Research Symposium, April 1997, Ann Arbor, MI
5. Falardeau L, Urbanek M, Kuzon, Jr. W. *Tenascin C Expression in Skeletal Muscle with Denervation and Aging*. University of Michigan UROP Spring Research Symposium, April 1997, Ann Arbor, MI
6. Macionis V, Urbanek M, Kuzon WM, Jr, Kalliainen, L. *Specific Force Deficit in Soleus and Plantaris Muscles of Old Rats*. 7th Annual Meeting of the American Society for Peripheral Nerve, June 1997, Williamsburg, VA
7. Watson, N, Kalliainen, L, Urbanek, M, Eguchi, T, Kuzon, W. *Muscle Force Deficit After Antagonist Denervation*. 7th Annual Meeting of the American Society for Peripheral Nerve, June 1997, Williamsburg, VA (Outstanding Poster Award)
8. Cederna PS, van der Meulen JH, Urbanek MG, Kuzon, Jr. WM. *Motor unit remodeling in denervated-reinnervated rat EDL muscles*. Poster, Plastic Surgery Research Council, April 4-7, 1998. Loma Linda, CA
9. van der Meulen JH, Cederna PS, Urbanek M, Kuzon WM. *Motor unit remodeling in reinnervated EDL muscle of rats*. American College of Sports Medicine 45th Annual Meeting 1998, Orlando, FL
10. Roberson T & Urbanek M. *Labeling spinal cord neural cell bodies through an individual muscle*. Minority High School Student Research Apprentice Program, University of Michigan, School of Medicine, August 20, 1998.
11. Kammer NE, Urbanek MG. *Force Capacity of the Four Rat Extensor Digitorum Longus Muscle Divisions*. Poster Presentation: 45th Annual Student Biomedical Research Forum, University of Michigan, Nov. 10, 1999.
12. Kammer NE, Urbanek MG. *Divisions of the Extensor Digitorum Longus Muscle Are Not Mechanically Independent of Each Other*. Poster Presentation: Moses Gunn

- Annual Research Conference, University of Michigan, Department of Surgery, March 17, 2000
13. Kammer NE, Urbanek MG. *Divisions of the Extensor Digitorum Longus Muscle Are Not Mechanically Independent of Each Other*. Poster presentation, Graduate Society of Women Engineers Annual Poster Exhibition, College of Engineering, University of Michigan, March 23, 2000. Awarded Best Undergraduate Poster certificate of achievement.
 14. van der Meulen JH, Cederna PS, Eguchi T, Urbanek MG, Kuzon WM, Jr. *The effect of hyper-reinnervation on motor unit force and number in the EDL muscle of rats*. Institute of Gerontology Trainee Poster Presentations, University of Michigan, April 13, 2000.
 15. Kammer NE, Urbanek MG. *Divisions of the Extensor Digitorum Longus Muscle Are Not Mechanically Independent of Each Other*. Poster presentation: Institute of Gerontology Trainee Poster Presentations, University of Michigan, April 13, 2000.
 16. van der Meulen JH, Cederna PS, Eguchi T, Urbanek MG, Kuzon WM, Jr. *The effect of hyper-reinnervation on motor unit force and number in the EDL muscle of rats*. 47th Annual Meeting , American College of Sports Medicine, May 31 – June 3, 2000, Indianapolis, IN.
 17. Urbanek MG, Van der Meulen JH, Cederna PS, Eguchi T, Kuzon WM, Jr. *Reinnervated muscle force is related to muscle fiber denervation*. 47th Annual Meeting , American College of Sports Medicine, May 31 – June 3, 2000, Indianapolis, IN.
 18. Boxer L, van der Meulen JH, Dennis RG, Urbanek MG, Kuzon, Jr. WM, Cederna PS. *The immunogenicity of peripheral nerve allografts is related to the cellular components*. 46th Annual Fall Student Biomedical Research Forum. University of Michigan, November 16, 2000, Ann Arbor, MI.
 19. Ganz D, Urbanek MG, Kuzon WM, Jr. *The reinnervation of denervated muscle fibers through muscle to nerve to muscle neurotization*. University of Michigan, Undergraduate Research Opportunities Program, April 4, 2001.
 20. Ganz D, Urbanek MG, Kuzon WM, Jr. *The reinnervation of denervated muscle fibers through muscle to nerve to muscle neurotization*. University of Michigan, Institute of Gerontology Poster session, April 12, 2001.
 21. Rayappa S, Urbanek MG, Aydin MA, van der Meulen JH, Kuzon Jr, WM. *Rat Walking Track Function Following Pliometric Injury of Reinnervated Muscle Transplants*. University of Michigan, Undergraduate Research In Residence Poster Session, April 3, 2002 and April 11, 2002.
 22. Aydin MA, Urbanek MG, Kuzon, Jr, WM. *FK506 Does Not Enhance EDL Muscle Recovery at 4 Weeks Following Peroneal Nerve Transection and Repair in Rats*. Section of Plastic Surgery, University of Michigan School of Medicine, Institute of Gerontology Poster Session, April 11, 2002.
 23. Rayappa S, Urbanek MG, Aydin MA, van der Meulen JH, Kuzon Jr, WM. *Rat Walking Track Function Following Pliometric Injury of Reinnervated Muscle Transplants*. Section of Plastic and Reconstructive Surgery, University of Michigan School of Medicine, Institute of Gerontology Poster Session, April 11, 2002.

24. Ganz DE, Urbanek MG, Aydin MA, van der Meulen, Kuzon, Jr. WM. *Muscle Fiber Denervation is Reduced Following Muscle Nerve Muscle Neurotization to Denervated Synergistic Somatic Rat Muscle*. Section of Plastic Surgery, University of Michigan School of Medicine. Institute of Gerontology Poster Session, April 11, 2002.
25. van der Meulen, Claflin DR, Urbanek MG, Cederna PS, Kuzon, Jr WM. *Force deficits in permeabilized muscle fibers after contraction-induced injury to whole EDL muscle of the rat*. American College of Sports Medicine 2002. St Louis, MO.
26. Aydin, MA, Urbanek MG, Kuzon, Jr WM. *FK506 Does Not Enhance EDL Muscle Recovery at 4 Weeks Following Peroneal Nerve Transection and Repair in Rats*. Department of Surgery, Moses Gunn 14th Annual Research Conference, May 8, 2002, Ann Arbor, MI
27. Lynch JB, Cavaliere CM, Borschel GH, Urbanek MG, Longaker MT, Kuzon WM. *Mandibular Distraction Osteogenesis and the Effect on Muscles of Mastication*. Department of Surgery, Moses Gunn 14th Annual Research Conference, May 8, 2002, Ann Arbor, MI
28. Ganz, DE, Urbanek MG, van der Meulen JH, Aydin, MA, Kuzon, Jr WM. *Muscle Fiber Denervation is Reduced Following Muscle-Nerve-Muscle Neurotization to Denervated Synergistic Somatic Rat Muscle*. Department of Surgery, Moses Gunn 14th Annual Research Conference, May 8, 2002, Ann Arbor, MI
29. McClintic SM; Eguchi T, Kuzon WM, Urbanek MG. *Proportion of Mature Axons Explains Neurovascularized Muscle Transfer Specific Force Deficit*. Institute of Gerontology, Trainee Poster Session, April 3, 2003, Ann Arbor, MI
30. Ganz, DE, Urbanek MG. *Evaluation of Muscle Function Following Unilateral Facial Denervation*. Institute of Gerontology, Trainee Poster Session, April 3, 2003, Ann Arbor, MI
31. McClintic SM; Eguchi T, Urbanek MG. *Proportion of Mature Axons Explains Neurovascularized Muscle Transfer Specific Force Deficit*. Department of Surgery, Moses Gunn 15th Annual Research Conference, April 15, 2003, Ann Arbor, MI
32. Ganz, DE, Urbanek MG. *Evaluation of Muscle Function Following Unilateral Facial Denervation*. Department of Surgery, Moses Gunn 15th Annual Research Conference, April 15, 2003, Ann Arbor, MI
33. Lynch JB, Cavaliere CM, Borschel GH, Urbanek MG, Longaker MT, Kuzon WM. *Mandibular Distraction Osteogenesis and the Effect on Muscles of Mastication*. Plastic Surgery Research Council 48th Annual Meeting, April 25, 2003, Las Vegas, NV.
34. Krochmal DJ, Urbanek MG. *Force and power output improves when tenotomized muscle is set with tension*. Student Biomedical Research Forum, November 15, 2003, Ann Arbor, MI.
35. W Choi, BS; DA DuBay, MD; MG Urbanek, PhD; X Wang, MD, PhD; E Chung, MD; RG Dennis, PhD; WM Kuzon, Jr, MD; MG Franz, MD. *Chronic Incisional Herniation Results in Oblique Muscle Fibrosis And Decreased Abdominal Wall Elastic Properties*. Moses Gunn 16th Annual research Conference, University of Michigan, Ann Arbor, April 30, 2004.

36. DE Ganz, WM Kuzon Jr., MG Urbanek. *Facial nerve function based on expression ratings and muscle function in the rat*. Moses Gunn 16th Annual Research Conference, University of Michigan, Ann Arbor, April 30, 2004.
37. McClintic SM; Eguchi T; Kuzon WM Jr; Urbanek, MG. *Proportion of Mature Axons Contributes to Neurovascularized Muscle Transfer Specific Force Deficit*. Moses Gunn 16th Annual Research Conference, University of Michigan, Ann Arbor, April 30, 2004.
38. DA DuBay, MD; W Choi, BS; MG Urbanek, PhD; X Wang, MD, PhD; E Chung, MD; RG Dennis, PhD; MG Franz, MD; WM Kuzon, Jr, MD *Abdominal Wall Incisional Herniation Induces Muscle Fiber Disuse Atrophy in a Chronically Unloaded Setting*. Moses Gunn 16th Annual Research Conference, University of Michigan, Ann Arbor, April 30, 2004.
39. Choi W, Dubay DA, Urbanek MG, Kuzon, Jr WM, Franz, MG. *Abdominal wall incisional herniation induces muscle fiber disuse atrophy in a chronically unloaded setting*. Plastic Surgery Research Council 49th Annual Meeting, June, 2004 Ann Arbor, Michigan.
40. Patel SP, Wolcott TE, Henkelman, EA, Avci G, Franz, MG, Kuzon, Jr, WM, and Urbanek MG. *The Effects of Hernias upon Abdominal Muscle Properties*. Undergraduate Research Opportunities Spring Research Symposium, University of Michigan, April 13, 2005.and the Department of Surgery Moses Gunn 17th Annual Research Conference, April 22, 2005, Ann Arbor, Michigan.
41. Wolcott TE, Henkelman, EA, Patel, SP, Kuzon, Jr, WM, and Urbanek MG. *Abdominal Muscle Contractile and Material Properties Following Prostheses Overlay*. Undergraduate Research Opportunities Spring Research Symposium, University of Michigan, April 13, 2005.and the Department of Surgery Moses Gunn 17th Annual Research Conference, April 22, 2005, Ann Arbor, Michigan.
42. Henkelman EA, Urbanek MG, Franz MG, and Kuzon, Jr, WM. *Single Muscle Fiber Mechanics of Abdominal Muscle in the Presence of a Ventral Hernia*. Frederick A Collier Surgical Society 51st Annual Meeting, October, 2005, Santa Barbara, CA.
43. Patel SP, Wolcott TE, Henkelman EA, Franz MG, Kuzon, WM Jr, Urbanek MG. *Abdominal Neuromuscular Properties Following Laparotomy*. Biomedical Research, Fall Forum, Nov 3, 2005. Student University of Michigan, Ann Arbor, Michigan.
44. Calderon DR, Mendias CL, Urbanek MG. *Type I Collagen Content of Abdominal Muscles Following Incisional Herniation*. Student Biomedical Research, Fall Forum, Nov 3, 2005. University of Michigan, Ann Arbor, Michigan.
45. Patel SP, Wolcott TE, Henkelman EA, Franz MG, Kuzon, WM Jr, Urbanek MG. *Abdominal Neuromuscular Properties Following Laparotomy*. Midwest Biomedical Engineering Conference, March 24th, 2006. Ann Arbor, Michigan.
46. Ma AK, MG Franz, WM Kuzon, Jr., MG Urbanek *Abdominal Muscle Deficits Associated with Laparotomy after a Prolonged Recovery*. Undergraduate Research Opportunities Spring Research Symposium, University of Michigan, April 19, 2006 and the Department of Surgery Moses Gunn 18th Annual Research Conference, April 28, 2006, Ann Arbor, MI.

47. Patel SP; Wolcott TE; Henkelman EA, Franz MG, Kuzon, WM Jr, Urbanchek MG. *Incisional Hernia Effect on Abdominal Neuromuscular Properties in the Rat*. Department of Surgery Moses Gunn 18th Annual Research Conference, April 28, 2006, Ann Arbor, MI.
48. Wolcott TE; Wood SC, Bishop DK, Franz MG, Kuzon, WM Jr, Urbanchek MG. *The Process of Acellularization of Myofascial Construct and Tests for Construct Immunogenicity*. Undergraduate Research Opportunities Spring Research Symposium, University of Michigan, April 19, 2006 and the Department of Surgery Moses Gunn 18th Annual Research Conference, April 28, 2006, Ann Arbor, MI.
49. Bohl AL, Urbanchek MG. *The Effects of Laparotomies upon Abdominal Nerves*. Undergraduate Research Opportunities Spring Research Symposium, University of Michigan, April 19, 2006 and the Department of Surgery Moses Gunn 18th Annual Research Conference, April 28, 2006, Ann Arbor, MI.
50. Lien SC, Franz MG, Kuzon WM, Urbanchek MG. *Temporary Paralysis of Abdominal Wall Muscles Reduces the Evolvement of Incisional Hernia*. Student Biomedical Research, Fall Forum, Nov 3, 2006. University of Michigan, Ann Arbor, MI.
51. Fuller L, Weinzweig J, Panter KE, Urbanchek MG, Cederna PS. *Evaluation of the Greater Palatine Nerve in Congenitally-Clefted Goat Palates*. Student Biomedical Research, Fall Forum, Nov 3, 2006. University of Michigan, Ann Arbor, MI.
52. MA AI, Urbanchek MG. *The Effects of Laparotomy and Giant Hernia on Neuromuscular Junction Remodeling*. Student Biomedical Research, Fall Forum, Nov 3, 2006. University of Michigan, Ann Arbor, MI.
53. Lien SC, Franz MG, Kuzon WM, Urbanchek MG. *Temporary Paralysis of Abdominal Wall Muscles Reduces the Evolvement of Incisional Hernia*. Department of Surgery Moses Gunn 19th Annual Research Conference, April 4, 2007, Ann Arbor, MI.
54. Urbanchek MG, Wolcott TE, Franz MG, Wood SC, Bishop DK, Kuzon WM, *Mouse Abdominal Wall Repaired with Acellular Myofascia Develops a More Normal Biomechanical Phenotype*. Department of Surgery Moses Gunn 19th Annual Research Conference, April 4, 2007, Ann Arbor, MI. Plastic and Reconstructive surgery.
55. Richardson-Burns S, Peramo A, Meznarich N, Urbanchek M, Cederna P, Burk C, Hendricks J, McDonald J, Abidian M, Gertz C, Corey J, Martin D. *Conducting polymers to improve and stabilize the electrode-tissue interface for development of biologically-integrated prosthetic devices*. 31st Annual Symposium -Polymers at Interfaces & in Thin Films, October 25, 2007. University of Michigan, Ann Arbor, Michigan.
56. Richardson-Burns S, Dove C, Margul D, Peramo A, Hendricks J, Urbanchek M, Cederna P, Thornton A, Goldstein S, Martin D. *Conducting polymers to improve and stabilize the electrode-tissue interface for development of biologically-integrated prosthetic devices*. Materials Research Society Fall Meeting 2007, Nov 26-30, 2007 Boston, MA

57. Peramo A, Urbanek MG, Spanninga SA, Povlich LK, Cederna PS and Martin DC. *Chemical polymerization of the conductive polymer PEDOT in acellularized muscle tissues*. Biomedical Engineering Society Annual Fall Meeting, Sept. 2007.
58. Urbanek MG, Wellington MS, Larkin LM, Peramo A, Marcelo CL, Kipke DR, Martin DC, Kuzon, Jr WM, Cederna PS. *Compatibility of Myoblast Growth with Bio, Synthetic, and Biosynthetic Materials Used as Components for an Endoprosthetic Nerve Interface*. American Society for Peripheral Nerve, 2008 Annual Scientific Meeting, January 11-13, 2008. Beverly Hills, CA
59. Tisack AM, Urbanek MG, Cederna PS. *Autogenous Schwann Cell Migration in Peripheral Nerve Allografts Treated with Anti-CD40L Monoclonal Antibody*. Honors Thesis, University of Michigan, Letters, Psychology Department Poster Forum, Ann Arbor, April 14, 2008.
60. Urbanek MG, Larkin LM, Goble KM, Egeland BE, Richardson-Burns SM, Martin DC, Kuzon, Jr WM, Cederna PS. *Myoblast and Nerve Growth are Compatible with PEDOT, an Intrinsically Conductive Material*. 20th Annual Moses Gunn Conference, Surgery Department, University of Michigan, Ann Arbor MI, May 14, 2008. (Poster Presentation)
61. Wolcott TE; Urbanek MG; Kipke DR; Kuzon WM, Jr; Cederna PS; *Nerve Repair with Introduction of a MEMS-Based Electrode-Effects on Reinnervated Muscle Function and Nerve Morphology*. 20th Annual Moses Gunn Conference, Surgery Department, University of Michigan, Ann Arbor MI, May 14, 2008. (Poster Presentation)
62. Tisack AM, Yu D, Urbanek MG, Nicolaou D, Cederna PS. *Autogenous Schwann Cells in Nerve Allografts Indicate that Anti-CD40 Ligand Costimulatory Blockade Induces a Permissive State*. 20th Annual Moses Gunn Conference, Surgery Department, University of Michigan, Ann Arbor MI, May 14, 2008. (Poster Presentation)
63. Ewing K, Kuzon WM Jr, Urbanek MG *Tissue Engineering an Improved Prosthesis for Hernia Repair*. 20th Annual Moses Gunn Conference, Surgery Department, University of Michigan, Ann Arbor MI, May 14, 2008. (Poster Presentation)
64. Shieh W, Kuzon WM Jr, Urbanek MG *The Effect of Aging and Laparorrhaphy on Capillarity of Rectus Abdominus Muscle in a Rat Model*. 20th Annual Moses Gunn Conference, Surgery Department, University of Michigan, Ann Arbor MI, May 14, 2008. (Poster Presentation)
65. Harake M, Shanks A, Urbanek MG, Krochmal D, Pressley L, Kuzon WM Jr, Franz MG. *The Effect of Medical Co-Morbidities on Recurrence Using Prosthetic Materials with Component Separation for Complex Ventral Hernia Repair*. University of Michigan Department of Surgery Moses Gunn 20th Annual Research Conference, May 13th, 2008, Ann Arbor, MI. (Poster Presentation)
66. Wolcott TE; Urbanek MG; Kipke DR; Kuzon WM, Jr; Cederna PS; *Nerve Repair with Introduction of a MEMS-Based Electrode-Effects on Reinnervated Muscle Function and Nerve Morphology*. 55th Annual American College of Sports Medicine Meeting, Indianapolis, Indiana, May 28-31, 2008. (Poster presentation)
67. Egeland BM, Urbanek MG, Richardson-Burns S, Martin D, Kuzon WM Jr, Cederna PS. *In Vivo Electrophysiologic Properties of Poly 3,4-ethylene-*

- diocythiophene (PEDOT) in a Biosynthetic Nerve Interface. 38th Neural Interface Conference, June 16-18th, 2008, Cleveland, Ohio. (Poster Presentation)
68. Harake MS, Shanks A, Urbanchek MG, Krochmal DJ, Pressley L, Kuzon, Jr WM, Franz MG. *Component Separation Technique with Underlay Acellular Dermal Allograft (AlloDerm™) for the Reconstruction of Complex Abdominal Wall Defects*. Michigan Association of Plastic Surgeons Meeting, Mackinaw, MI, July 21-23, 2008. (Poster Presentation)
69. Harake MS, Shanks A, Urbanchek MG, Krochmal DJ, Pressley L, Kuzon, Jr WM, Franz MG. *The Effect of Medical Co-Morbidities on Recurrence Using Prosthetic Materials with Component Separation for Complex Ventral Hernia Repair*. American Society of Plastic Surgeons, 2008 Annual Meeting, Chicago, IL Oct 31-Nov 5, 2008. (Poster presentation)
70. Urbanchek MG, Wolcott TE, Egeland BM, Kipke DR, Kuzon, Jr WM, Cederna PS, *Microscale Electrode Implantation during Nerve Repair: Effects on Recovery of Muscle Contractile Function, Nerve Conduction, and Nerve Morphology*. American Society of Plastic Surgeons, 2008 Annual Meeting, Chicago, IL Oct 31-Nov 5, 2008. (Poster presentation)
71. Urbanchek MG, Larkin LM, Goble KM, Egeland BE, Richardson-Burns SM, Martin DC, Kuzon, Jr WM, Cederna PS. *Myoblast and Regenerating Nerve Compatibility on PEDOT, an Intrinsically Conductive Material*. American Society of Plastic Surgeons, 2008 Annual Meeting, Chicago, IL Oct 31-Nov 5, 2008. (E-Poster presentation)
72. Ewing K, Kuzon WM Jr, Urbanchek MG *Tissue Engineering an Improved Prosthesis for Hernia Repair*. Michigan Clinical Research Symposium, Inaugural Symposium 2008, Ann Arbor, MI, Sept 11-13, 2008.
73. Khouri JS, Urbanchek MG, Xing L, Kuzon WM Jr, *Growth of Fibroblasts into Acellular Tissue*. Michigan Clinical Research Symposium, Inaugural Symposium 2008, Ann Arbor, MI, Sept 11-13, 2008.
74. Ewing K, Kuzon WM Jr, Urbanchek MG *Tissue Engineering an Improved Prosthesis for Hernia Repair*. University of Michigan –Student Biomedical Research Forum, Ann Arbor, MI, Nov 5, 2008.
75. Khouri JS, Urbanchek MG, Xing L, Kuzon WM Jr, *Growth of Fibroblasts into Acellular Tissue*. University of Michigan –Student Biomedical Research Forum, Ann Arbor, MI, Nov 5, 2008.
76. Schroeder K, Ewing KA, Egeland B, Cederna PS, Urbanchek MG. *The Functional Test Development for Sensory Protection Evaluation*. University of Michigan – Student Biomedical Research Forum, Ann Arbor, MI, Nov 5, 2008.
77. Ewing K, Kuzon WM Jr, Urbanchek MG *Engineering an Improved Prosthetic Scaffold from Biological Materials*. University of Michigan –Graduate Engineering Symposium, Ann Arbor, MI, Nov 7, 2008. Second Place – Biomaterials, Biomechanics & Tissue Engineering Poster Award.
78. Abidian MR, Daneshvar E.D, Miriani R, Turer DM, Wright M, Egeland B, Urbanchek M, Cederna P, Kipke DR. *Bioartificial neuromuscular implants*. Society for Neuroscience (SFN) meeting 2008, Washington, DC.

79. Abidian MR, Daneshvar E.D, Miriani R, Turer DM, Wright M, Egeland B, Urbanek M, Cederna P, Kipke DR. *Bioactive and Conductive Nerve Conduits for Peripheral Nerve Regenerations*, 38th Annual Neural Interfaces Conference, Cleveland, OH, June 2008.
80. Jadcherla Y, Urbanek MG, Abidian MR, Egeland BM, Miriani RM, Schroeder KM, Daneshvar DE, Ewing KA, Kuzon WM Jr, Kipke DR, Cederna PS. *Nerve Regeneration Through an Electrically Conducting Polymer Nerve Graft*. University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI.
81. Khouri JS, Ewing KA, Urbanek MG, Harake MS, Xing L, Kuzon WM Jr. *Fibroblast Seeding of Myofascia for Use as a Tissue Prosthesis*, University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI.
82. Schroeder KA, Urbanek MG, Egeland BM, Ewing KA, Abidian MR, Daneshvar DE, Miriani RM, Kuzon WM Jr, Kipke DR, Cederna PS. *Sensory Protection Recovery Follows Nerve Regeneration Through an Electrically Conducting Nerve Graft*. University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI.
83. Egeland BM, Urbanek MG, Abidian MR, Kipke DR, Kuzon WM Jr, Cederna PS. *A Tissue-Based Bioelectrical Interface has Reduced Impedance Compared to Copper Wire and Nerve*. University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI.
84. Egeland BM, Urbanek MG, Richardson-Burns SM, Kuzon WM Jr, Kipke DR, Martin DC, Cederna PS. *Biosynthetic Poly(3,4-ethylenedioxythiophene) (PEDOT) PNS Interfaces Can Deliver Afferent SNAPs With High Efficiency*. University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI.
85. Egeland BM, Urbanek MG, Abidian M, Miriani R, Schroeder K, Daneshvar DE, Ewing KA, Kuzon WM Jr, Kipke DR, Cederna PS. *Electrophysiology Following Neural Regeneration through a Conducting, Polymer Lined Hydrogel Conduit*. University of Michigan Department of Surgery Moses University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI.
86. Harake MS, Urbanek MG, Khouri JS, Xing L, Ewing K, Franz, MG, Kuzon WM Jr. *In Vivo Study of Engineered Tissue for Incisional Hernia Repair in a Rat Model*. University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI.
87. Harake MS, Urbanek MG, Khouri JS, Xing L, Ewing K, Franz, MG, Kuzon WM Jr. *Using Acellularized Myofascial Scaffolds Seeded with Autologous Fibroblasts in Rat Incisional Hernia Repair*. University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19th, 2009, Ann Arbor, MI.
88. Ewing KA, Kuzon WM Jr., Urbanek MG, *Tissue Engineering an Improved Prosthetic Scaffold from Biological Materials*. University of Michigan Department of Surgery Moses Gunn 21st Annual Research Conference, March 19, 2009, Ann Arbor, MI.

89. Jadcherla Y, Urbanek MG, Abidian MR, Egeland BM, Miriani RM, Schroeder KM, Daneshvar DE, Ewing KA, Kuzon WM Jr, Kipke DR, Cederna PS. *Nerve Regeneration Through an Electrically Conducting Polymer Nerve Graft*. University of Michigan UROP Spring Symposium and Research Forum, April 1, 2008, Ann Arbor, MI.
90. Frost CM, Urbanek MG, Egeland BM, Larkin LM, Kuzon WM Jr., Cederna PS. *Development of a Biosynthetic "Living Interface" with Severed Peripheral Nerve*. University of Michigan UROP Spring Symposium and Research Forum, April 1, 2008, Ann Arbor, MI.
91. Ewing KA, Urbanek MG, Richard-Burns S, Martin D, Cederna PS. *Application of PEDOT:PSS on Electrodes for Bio-Integration with Neural Prosthetic*. Midwest Biomedical Engineering Conference, April 2009. Ann Arbor, Michigan.