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Education

Executive Leadership in Academic Medicine (ELAM) Fellowship	2010-2011
Residency, The Ohio State University, Division of Plastic Surgery, Columbus, OH	1997-1999
Post-doctoral research fellowship, The Ohio State University, Division of Transplantation, Columbus, OH	1994-1997
Residency, The Ohio State University, General Surgery, Columbus, OH	1990-1994
M.D. The Ohio State University, College of Medicine, Columbus, OH	1986-1990
B.A. Psychology, Stanford University, Stanford, CA	1980-1984

Appointments

Medical Director Wound Services – OSU Wexner Medical Center	2012- present
Associate Professor, OSU Medical Center, Department of Plastic Surgery	2009-Present
Director of Clinical Research, Comprehensive Wound Center, OSU Medical Center	2005-Present
Burn Unit Director, OSU Medical Center, Columbus, OH	2005
Director Hemangioma and Vascular Malformation Clinic, Nationwide Children’s Hospital, Columbus, Ohio	2003-Present
Assistant Professor, OSU Medical Center, Division of Plastic Surgery, Columbus, OH	1999-2009

Other Positions and Employment

Scientific Advisory Board, O2 Insights, Inc.	2011-present
Biologist, National Institute of Dental Research, Bethesda, MD	1987-1988
Biochemist, Project HEAR, Palo Alto, CA	1984-1986

Certification and Licensure

Advanced Cardiac Life Support certification	2014
American Board of Plastic Surgery re-certification	2010
Advanced Burn Life Support certification	2008-2014
Diplomate American Board of Plastic Surgery	2000
State of Ohio License # 35-06-9976-G	1996- present
Diplomate National Board of Medical Examiners	1991

Professional Memberships and Activities

American Society of Gene & Cell Therapy – member	2015
International Society for the Study of vascular Anomalies – member	2014-present

American Association of Plastic Surgeons	2008-present
Wound Healing Society	2007-present
Grant Reviewer - 3M Fellowship award	2013
Pressure Ulcer Guidelines Committee - Chair	2012-present
WHS annual meeting - co-director pre-conference symposium	2012
Wound Healing Society Board of Directors	2011-2014
Government Relations Committee	2007-2009
American College of Surgeons - Fellow	2003-Present
Plastic Surgery Advisory Council - member	2011-2014
American Society of Plastic Surgeons/ Plastic Surgery Foundation	2002-Present
PSF Grant Application Mentoring Session, at ASPS Annual Meeting	2013-2014
PSF Research Development Committee – Chairman	2013- 2015
PSF representative to American Academy of Otolaryngology- Head and Neck Surgery basic science study section	2011
PSF Basic and Translational Research Committee, Chairman	2011
ASPS Nominating Committee	2010
ASPS Research Coordinating Council	2008-Present
PSF Basic and Translational Research Committee, Vice-chairman	2008-2010
Applied Research Committee – ASPS	2006-2007
Research Oversight Committee, ASPS	2006-Present
Research Strategic Planning Task Force, ASPS	2006-Present
PSF Basic and Translational Research Study Section	2005-2011
Plastic Surgery Research Council	2001-Present
PSRC representative to American College of Surgeons Plastic Surgery Advisory Council	2011-2014
Program Committee	2010
American Burn Association - member	2000-2009
American College of Surgeons - Candidate member	1994-2003

Honors and Awards

Outstanding Faculty Achievement Award – OSU College of Medicine	2015
Plastic Surgery Foundation Visiting Professor- Oregon Health Sciences University, Lehigh University Lehigh Valley Hospitals, University of Texas Medical Branch at Galveston, Kansas University Medical Center	2013-2014
Michigan State University 12 th Annual Pediatric Research Day Visiting Professor	2013
Best paper presentation, American Society of Plastic Surgeons, Denver, CO	2011
Keynote Speaker, SIU Wound Symposium, Memorial Wound Center, Springfield, IL	2011
Oxygen Club of California – Best translational research poster	2010
University Healthsystems Consortium – Pressure Ulcer Benchmarking Study Better Performer (institutional PI) awarded to top 2 of 33 participating institutions	2009
Visiting Professor – University of Michigan Division of Plastic Surgery	2006
American Society of Clinical Investigators – Travel Grant recipient	2005
Excellence in Patient Health Education – Interdisciplinary team award as member of the SICU Burn Care team, The Ohio State University Medical Center	2001
Columbus Surgical Society – 2 nd place basic science	1998
Landacre Society Student Research Competition - 2 nd place	1987
Cancer Education Grant	1987

Lange Publications Community Service Award	1987
Roessler Research Scholarship	1986-1988

Committee Assignments and Administrative Services

OSU Secondary Surgeon task force – Chair	2014
NIH BTSS (Bioengineering, Technology, and Surgical Sciences) study section - standing member	2013-present
NIH NIAMS Clinical Trial Outcome Development study section ZAR1 XZ (M1) - ad hoc reviewer	2013
Medical Staff Officers Group , OSU Wexner Medical Center	2013-present
Medical Staff Affairs Committee, OSU Wexner Medical Center	2013-present
Department of Plastic Surgery Education Committee	2013-present
Department of Plastic Surgery Promotion and Tenure Committee – Chairman	2012-present
Vice-Chair of Research Department of Plastic Surgery	2012-present
OSU Wexner Medical Center Infection Prevention Committee	2012-2013
OSU Leadership Council for Clinical Quality Safety & Service – LCCQSS	2012-present
NIH ad hoc reviewer for study section BTSS (Bioengineering, Technology, and Surgical Sciences)	2012-2013
OSU Physician Faculty Engagement Committee	2012-2015
OSU Emergency Medicine Chair search committee	2012
Integrated Biomedical Graduate Program, Admissions Committee	2012
OSU Vice-dean of Education search committee	2011-2012
OSU Medical Student Research Program Faculty Advisory Council	2010-2011
OSU College of Medicine Mentorship Working Group	2010-2011
NIH ad hoc reviewer for study section ZRG1 MOSS-B (03)	2010
OSU Food Innovation Center – grant reviewer	2010
OSU Center for Clinical and Translational Science (NIH UL1RR025755) – Pilot Grant reviewer	2010-2012
OSU Roessler Award– grant reviewer	2010
Urology Promotion and Tenure Committee	2008-2012
OSU Surgery LLC Board of Managers – member at large	2008-2010
Columbus Society of Plastic Surgeons, Vice-President	2007-2009
Davis Heart Lung Research Institute, space committee	2005-2011
Ophthalmology Chair Search Committee	2001
Task Force on Women’s Issues, OSU College of Medicine	2000-2001
Research Committee, OSU Department of Surgery	1999-2009
ACGME Residency Review Committee , Plastic Surgery, (1 st) resident representative	1997-2000
Ethics Committee, The Ohio State University Medical Center	1996-1997

Research

Grants and Contracts

Current Awards

Source and ID	Project Title (\$direct/total)	Project Period	Role & % Effort
R01 NIH/NINR	Wound healing endpoint and recurrence (PI: Sen \$1,749,999/2,694,999)	2015-2020	Co-PI 10%

R01 GM108014 NIH/NIGMS	Novel Regulators of Wound Angiogenesis (PI: Sen \$1,250,000/1,925,000)	2015-2018	Co-PI 5%
ODM201441 Ohio Dept of Medicaid	Topical oxygen therapy for diabetic foot ulcers (PI: Sen \$450,000/ \$500,000)	2014-2016	Co-PI 2%
R01 GM077185 NIH/NIGMS	Tissue oxygenation and wound healing (PI: Sen \$1,000,000/1,525,250)	2013 -2017	Co-PI 5%
Univ of Michigan (NIH Prime: 1R01CA152192)	Mastectomy reconstruction outcomes consortium study (PI: Wilkins \$171,930/361,958)	2011-2016	Co-PI 3%
NIH/NIGMS R01 GM095657	Mechanisms regulating hemangioendothelioma: A plastic surgeon's challenge (\$1.25M/1,906,250)	2011-2015	PI 20%

Past Awards

Source and ID	Project Title (\$direct/total)	Project Period	Role & % Effort
NIH/NIDDK R01 DK0756566	Mechanisms underlying impaired diabetic wound healing (PI: Roy \$1.25M/1,906,250)	2008-2014	Co-PI 5%
Ohio Willowood (VA prime: VA 118-12-C-0038)	Synthetic improvements for transfemoral amputee prosthetic sockets (PI: Sen \$381,473/480,139)	2012-2014	Co-I 5%
NIH/NIBIB R21EB016189	A handheld scanner for clinical oximetry (PI: Kuppusamy \$378,680/523,055)	2012-2013	Co-PI 2%
Dept. of Defense W81XWH-11-2- 0142	Alginate Oligomers to treat infectious microbial biofilms (PI: Sen \$932,681/1,398,000)	2011-2013	Co-I 2.5%
Academy Health 20022065	ARRA data integration and knowledge management in CER (PI: Payne \$15,000/15,000)	2011-2012	Co-PI 1%
NIH/ ARRA UL 1 RR025755	Comparison of diabetic foot ulcer limb salvage rates in patients receiving specialized wound care verses standard care (\$25,000/37,494)	2010-2011	PI 5%
K08 NIH / NIGMS K08 GM066964	Macrophage-derived oxidants promote Hemangioma growth (\$586,150/633,042)	2004-2009	PI 75%
OSU Davis/Bremer Research Grant	Macrophage-derived oxidants promote hemangioma growth (\$50,000/\$50,000)	2004-2006	PI 0%

OSU Comprehensive Cancer Center	Hemangioendothelioma treatment with blueberry extract (American Cancer Society) (\$25,000)	2003-2004	PI 0%
Fresh Start Surgical Scholarship/PSEF	Defining the Role of MCP-1 in Hemangioma Proliferation (\$30,000)	2001-2002	PI 0%
OSU Department of Surgery	Identification of oxidation-reduction events in response to hyperbaric oxygen therapy (\$25,000)	2001-2002	PI 0%
NIH / NHLBI 1F32HL009459-01A1	National Research Service Award: Development of a Model of Transplant Vascular Sclerosis	1996-1997	PI 100%
PSEF (Plastic Surgery Education Foundation)	The Role of PDGF in the Development of Transplant Vascular Sclerosis (\$5,000/5,000)	1995-1996	PI 0%
Department of Surgery	Development of an Experimental Model of Chronic Rejection in Murine Cardiac Transplants (\$ = 50% salary support)	1995-1996	PI 50%

Current Contracts

Source and ID	Project Title (\$direct/total)	Project Period	Role & % Effort
Immun'Age Study Osato International	Nutritional regulation of wound inflammation: Part III (PI: Roy \$/25,000)	2014-2015	Co-PI 1%
TOWN study GWR Medical LLP 90043964	Topical oxygen in chronic wound care (TOWN) trial (Part A) (PI: Sen \$25,000)	2014- 2016	Co-PI 5%
Natreon, Inc. 60040693	PrimaVie and exercise training on human skeletal muscle adaptation (PI: Roy \$45,000/45,000)	2013-2015	Co-PI 1%
Carotech Vitamin E study 60017371	Efficacy of natural Vitamin E Tocotrienol on the treatment of scars (PI: Sen \$522,000/600,000)	2008-2016	Co-PI 1%

Past Contracts

Source and ID	Project Title (\$direct/total)	Project Period	Role & % Effort
Smith & Nephew	A phase 2 exploratory pharmacodynamics study of HP802-24 in venous leg ulcers (\$1.58M/\$2M)	2014-2015	Co-PI 1%
Osato International	Nutritional regulation of wound inflammation	2012-2014	Co-PI 0%

(PI: Roy \$10,000/10,000)

SAN07-DERM01	Use of dermaPACE device in conjunction with standard of care in the treatment of diabetic foot ulcers (\$54,061/73,056)	2009-2011	PI 1%
KCI USA	A Multicenter Randomized Controlled Trial Examining Cellular and Tissue Oxygenation Levels Related to Various Wound Healing Therapies (\$93,658/124,878)	2007- 2011	PI 1%
Intercytex	A Prospective, Multi-center, double blind randomized, placebo controlled trial to evaluate the safety and efficacy of ICXP007 in a FDA Phase III Trial for the treatment of non-infected Skin leg ulcers, due to venous insufficiency (\$74,592/100,800)	2007-2009	PI 1%
GWR Medical, LLP	Biochemical mechanisms underlying oxygen therapy of human wounds (PI: Sen \$50,00/62,500)	2001-2005	Co-I 1%

Editorial Work

Journal of Surgical Research – ad hoc reviewer	2013
Advances in Wound Care – ad hoc reviewer	2013
Aesthetic Plastic Surgery – ad hoc reviewer	2012
Wound Repair and Regeneration – ad hoc reviewer	2012-13
Canadian Journal of Physiology – ad hoc reviewer	2011
Antioxidants and Redox Signaling – ad hoc reviewer	2011
Free Radical Research – ad hoc reviewer	2011
American Journal of Physiology (Heart) – ad hoc reviewer	2006
Plastic and Reconstructive Surgery – ad hoc reviewer	2005-2007
Editorial Review Board, Annals of Plastic Surgery	2000-2003

Abstracts and Presentations**Oral Presentations National/International** († = invited, *= mentored student/resident)

† Is there Evidence to Support the use of Topical Oxygen in a Hyperbaric World, Symposium on Advanced Wound Care Fall Meeting, Las Vegas, NV	Sep 2015
† How to Address a Reviewer, Plastic Surgery Research Council, Seattle, WA	May 2015
*MicroRNA 126 is a Biomarker for Benign Infantile Hemangioma American Association of Plastic Surgeons, Scottsdale, AZ	Apr 2015
† The Public Health Significance of Chronic Wounds – Wound Healing	Mar 2015

“Big Data” Summit, NIH, Bethesda, MD	
†Symposium on Chronic Wound Care, Peerless Hospital, Kolkata, India Wound Care Guidelines in the US New Developments in the Wound Clinic The OSU Comprehensive Wound Center Approach to Wound Care and Limb Salvage Diabetic foot ulcer clinic	Jan 2015
† All India Institute of Medical Sciences (AIIMS) A Comprehensive Approach to Delivery of Wound Care Services, Delhi, India	Jan 2015
† AIIMS/OSU Health 3C Conference, A Comprehensive Approach to Delivery of Wound Care Services, Mumbai, India	Jan 2015
†Conversion from Acute to Chronic Wounds, Wound Healing Society Orlando, FL	Apr 2014
MicroRNA Regulates Hemangi endothelioma Growth by Targeting the Nox-4/MCP-1 Pathway. International Society for the Study of Vascular Anomalies, Melbourne, Australia.	Apr 2014
Plastic Surgery Research Council, New York, NY	Mar 2014
†WISE™: Automated Wound Documentation Using a Novel Wound Image Characterization Software. Lecture, Translational to Clinical (T2C) Regenerative Medicine Wound Care Conference, The Ohio State University, Columbus, OH	Mar 2014
†Panelist – Optimizing Wound Care Using Technology, ASPS Scientific Panel, San Diego, CA	Oct 2013
†Wound Healing Society Guideline Updates: First Glance Symposium on Advanced Wound Care, Las Vegas, NV	Sept 2013
†Wound Healing Society Guideline Updates: First Glance, Moderator, Symposium on Advanced Wound Care, Denver, Colorado	May 2013
†“Management of Diabetic Foot Ulcers” at Global Diabetes Summit Columbus, Ohio	Nov 2012
†“Humans as a Pre-clinical Model: Paradigm and Pitfalls” at Wound Healing Society pre-conference symposium, Atlanta, GA	Apr 2012
†“The Benefits of Standardized Care” at 5 th annual T2C Conference for the OSU Comprehensive Wound Center, Columbus, OH	Mar 2012
†Reconstruction After Electrical Injury; AES Webinar to international offices “Industrial Burn & Electrical Injury Management” Workshop, Columbus, OH	Nov 2011
† “When to Use Flaps or Grafts”, Society for Advanced Wound Care annual fall meeting, Las Vegas, NV	Oct 2011

Wound Closure Rate Over Time in a Prospective, Randomized, Double-Blinded, Sham-Controlled, Multicenter Study of Shockwave Technology for the Treatment of Non-Healing Diabetic Foot Ulcers. American Society of Plastic Surgeons, Denver, CO	Sept. 2011
†Comparative Effectiveness research to evaluate limb salvage for patients with diabetic foot ulcers, and CER practical tips; Conference on Comparative Effectiveness Research: Methodology, Translation and Policy, Columbus, OH	May 2011
†Topical Oxygen Therapy. University of Illinois at Chicago Center for Wound Healing & Tissue Regeneration	May 2010
†Topical Oxygen Therapy. Society for Advanced Wound Care, Orlando, FL	Apr. 2010
†Micronutrients and Wound Healing: What's New to Heal, American Society of Parenteral and Enteral Nutrition, Las Vegas, NV	Feb. 2010
†Pressure Ulcer Prevention at The Ohio State University Medical Center: A Comprehensive Approach. University Health System Consortium, Chicago, IL	Feb. 2010
NADPH Oxidase Regulates Monocyte Chemoattractant Protein-1 Expression Required for Angiogenesis - Wound Healing Society, Dallas, TX	Apr. 2009
†Pressure Ulcer Prevention at The Ohio State University Medical Center: a comprehensive Approach. University Healthsystem Consortium; UHC Analyst Café Webcast	Apr. 2009
†Pressure Sores: What you and Your Institution Can Do to Comply with the New Regulations – The OSU Experience. American College of Surgeons, Chicago, IL	Oct. 2009
†Topical Oxygen Improves Wound Healing – International Society on Oxygen Transport to Tissue, Cleveland, OH	July 2009
† Getting a K08 Award, and Writing the Background and Significance Plastic Surgery Education Foundation Research Grant Writing Workshop, Pittsburgh, PA	May 2009
†Human Models for Personalized Health Care in Wound Healing, Wound Healing Society, Dallas, TX	Apr. 2009
†Development of a Comprehensive Wound Center. American Association of Plastic Surgeons, Rancho Mirage, CA	Mar. 2009
†Pressure Ulcer Prevention at The Ohio State University Medical Center: A Comprehensive Approach. University Health system Consortium (UHC) Pressure Ulcer Benchmarking Knowledge Transfer Meeting, Oak Brook, IL	Feb. 2009
†Topical Oxygen Therapy. American College of Surgeons, San Francisco, CA	Oct. 2008

Surgical Expansion of the Chest in Patients with Thoracic Dystrophy, European Association of Plastic Surgeons Madeira, Portugal	May 2008
†Wound Tissue Oxygenation, Society for Advanced Wound Care, San Diego, CA	Apr. 2008
Dietary Treatment of Hemangioendothelioma, American Association of Plastic Surgeons, Boston, MA	Apr. 2008
Regulation of Angiogenesis Using Dietary Blueberry Extract Wound Healing Society, Tampa, FL	Apr. 2007
†OSU Comprehensive Wound Center Research Update, National Healing Institute Tampa, FL	Apr. 2007
San Antonio, TX.	Apr. 2006
Implementation of Burn Fluid Resuscitation Guidelines Reduces Morbidity and Mortality. American Burn Association. Chicago, IL.*	May 2005
Redox Regulation of TNF-alpha Inducible Expression in EOMA cells Plastic Surgery Research Council. Las Vegas, NV.	Apr. 2003
Wound Healing Oxygen and Emerging Therapeutics. Columbus, OH.	Sep. 2002
†The Role of MCP-1 in Hemangioma Proliferation, Plastic Surgery Educational Foundation: Aesthetic facial reconstruction in Adults and children symposium. Phoenix, AZ.	Feb. 2003
†The Role of MCP-1 in Hemangioma Proliferation American Society of Plastic Surgeons. San Antonio, TX.	Nov. 2002
Infectious Morbidity Associated with the Integration of a Free Standing Burn Unit into the Surgical Intensive Care Unit, Association for Professionals in Infection Control and Epidemiology, Memphis, TN.*	May 2002
Redox Regulation of Inducible MCP-1 Expression in EOMA Cells – American College of Surgeons Surgical Forum, New Orleans, LA.	Oct. 2001
Development of a Biosynthetic Tympanic Membrane Prosthesis – American Academy of Otolaryngology-Head and Neck Surgery, Washington D.C.	Sep.1988
Development of a Full Thickness Oral Mucosa Equivalent Suitable for Intraoral Grafting Plastic Surgery Research Council, San Francisco, CA	May 1988
National Student Research Forum, Galveston, TX	Apr 1988
Oral Presentations Regional/Local († = invited, *= mentored student/resident)	
†Wound Healing for the Surgeon – OSU 58 th Annual Postgraduate Symposium in Ophthalmology, Columbus, OH	Mar 2015
†Using Nanotechnology to Treat Endothelial Cell Tumors, OSU Center for	Aug 2014

Regenerative Medicine Retreat, Mohican State Park, OH	
†"Wound Care Update & the Basics Every Hospitalist Should Know," OSU Department of Internal Medicine, Division of Hospital Medicine, Grand Rounds	Oct 2013
†"Translating Investigator Initiated Research: how to cross the valley of No" 2nd Annual Retreat, OSU Center for Regenerative Medicine and Cell Based Therapies	July 2013
†*Hemangiomas From Strawberries to Blueberries: The Search for Better Treatment Options for Hemangiomas", Michigan State University, 12 th Annual Pediatric Research Day	March 2013
†Wounds: The Threshold for Human Applications of Regenerative Medicine, Center for Regenerative Medicine and Cell Based Therapies (CRMCBT), First Annual Retreat, Mohican State Park Lodge	Aug. 2012
† From Strawberries to Blueberries: Translational Approaches to Hemangioma Management. Bench to Outcomes Seminar Series. Nationwide Children's Hospital Columbus, OH.	Aug. 2011
†Oxygen Therapy as an Adjunct to Treat Complex Wounds, Southern Illinois University, Springfield, Illinois	May 2011
†Comparative Effectiveness research to evaluate limb salvage for patients with diabetic foot ulcers; Second Annual Center for Clinical and Translational Science Scientific Meeting, Columbus, OH.	May 2011
†Clinical Implications of Wound Healing Basic Science in the Management of Diabetic Foot Ulcers. HEAL Ohio, Rootstown, OH	Oct. 2010
†Comparative Effectiveness Research in the Comprehensive Wound Center, Comparative Effectiveness Research: Opportunities at The Ohio State University Symposium, Center for Clinical and Translational Science, Columbus, OH	Feb. 2010
†Topical Oxygen Therapy. HEAL Ohio, Akron Ohio	Oct. 2008
†Endothelial Cell Tumor Translational Research Program Wisconsin Surgical Society	May 2008
†Tissue Oxygenation, OSU Comprehensive Wound Center Conference: Wound Care and Hyperbaric Update, Columbus, OH	Apr 2008
Breast Reduction Scars: How Demographics and Pre-op Education Influence Scar Expectations, Ohio Valley Society of Plastic and Reconstructive Surgery	Jun. 2006
†Molecular Carcinogenesis and Chemoprevention Section - Blueberry Extract Inhibits Hemangioendothelioma Growth In Vivo. OSU Comprehensive Cancer Center	May 2006
†Oxygen Therapy as an Adjunct to Treat Complex Wounds. American Podiatric	Mar. 2006

Assoc. Great Lakes Regional meeting, Cleveland, OH

†Update on Translational Research in Wound Healing, OSU Davis Heart and Lung Research Institute, Columbus, OH Apr. 2007

†Molecular Carcinogenesis Chemoprevention-Antioxidant Based Approaches to Regulate Endothelial Cell Tumor Growth, OSU Comprehensive Cancer Center Mar. 2007

Research in Progress-Antioxidant Based Approaches to Regulate Endothelial Cell Tumor Growth, OSU Davis Heart and Lung Research Institute Retreat Feb. 2007

† Lessons in Angiogenesis from Hemangioendotheliomas EPR 2005 Comprehensive Wound Center Inaugural Conference, Columbus, OH Sep. 2005

† Oxygen Therapy in Clinical Practice. Comprehensive Wound Center Inaugural Conference, Columbus, OH Sep. 2005

Control of MCP-1 Expression in EOMA cells Grand Rounds OSU Davis Heart Lung Research Institute Nov. 2001

† “Translational Models of Angiogenesis” Research In Progress Seminar, OSU Davis Heart Lung Research Institute Aug. 2003

†The Comprehensive Wound Center: Creating the infrastructure to support translational research OSU Davis Heart Lung Research Institute retreat Apr. 2006

†Topical Oxygen in Wound Healing - Wound Healing Oxygen and Emerging Therapeutics. Columbus, OH Sep. 2002

Gene Delivery and Expression in Skeletal and Cardiac Muscle Using an Adeno-Associated Virus Vector - Columbus Surgical Society, Columbus, OH Jan. 1998

Gene Therapy in Murine Graft Recipients – Columbus Surgical Society, Columbus, OH Jan. 1996

Development of a Full Thickness Oral Mucosa Equivalent Suitable for Intraoral Grafting Landacre Student Research Competition, Columbus, OH Apr. 1987

Posters - National/International Meetings

MicroRNA is Required for In Vivo Angiogenesis. Wound Healing Society Denver, CO Apr 2013

Hemangioma Growth is Nox-4 Dependent. Oxygen Club of California, Santa Barbara, CA Mar. 2010

Development of a Chronic Wound Tissue Bank - Wound Healing Society, San Diego, CA Apr. 2008

Dietary Blueberry in Hemangioendothelioma Therapeutics, Society for Free Nov. 2006

Radical Biology and Medicine. Denver, CO.

Macrophages are required for Endothelial Cell Neoplasm To Develop, Apr. 2005
American Society of Clinical Investigators, Chicago, IL.

Development and Initiation of Computer Generated Documentation for Burn Apr. 2001
Patient Care – American Burn Association, Boston, MA.*

Consequences of Plasmid-Associated LPS in Experimental Models of Apr. 1997
Transplantation, Keystone Symposia on Gene Therapy, Snowbird, UT

IL-4 Gene Therapy in Murine Cardiac Graft Recipients: Plasmid Aug. 1996
Contamination with LPS Confounds Analysis - XVI International Congress
of the Transplantation, Barcelona, Spain

Effects of Non-steroidal Anti- inflammatory agents on Tenorrhaphy - American Jan.1986
Society for Surgery of the Hand, Las Vegas, NV

Publications

Peer-reviewed – Abstracts

Biswas A, Shiels WE, Khanna S, Kirschner R, Pearson GD, Roy S, Sen CK, **Gordillo GM**.
MicroRNA 126 is a Biomarker for Benign Infantile Hemangioma, Plastic and Reconstructive
Surgery; 135(4):1204.

Fauzi M, Khansa I, Catignani K, **Gordillo G**, Sen CK, Gurcan M. " Segmentation and automated
measurement of chronic wound images: probability map approach ", *Proc. SPIE* 9035, Medical
Imaging 2014: Computer-Aided Diagnosis, 903507 (March 24, 2014); doi:10.1117/12.2043791;
<http://dx.doi.org/10.1117/12.2043791>

Gordillo GM, Biswas A, Khanna S, Roy S, Pan X, Sinha M, Sen CK. MicroRNA Regulates
Hemangioendothelioma Growth by Targeting the Nox-4/MCP-1 Pathway. Plastic and
Reconstructive Surgery 2014 March;133(S3):84-85.

Bass LS, Galiano R, **Gordillo GM**. Changes in Wound Closure Rate over Time in a
Prospective, Randomized, Double-Blinded, Sham-Controlled, Multicenter Study of Shockwave
Technology for the Treatment of Non-Healing Diabetic Foot Ulcers. Plastic and Reconstructive
Surgery, 2011 Nov;128(4S):46.

Dhaval R, Buskirk J, Backer J, Sen CK, **Gordillo G**, Kamal J. Leveraging an information
warehouse to create a translational research environment for wound care center. AMIA Annual
Symp Proc. 2007 Oct 11: 939. PMID:18694039

Gordillo G, Atalay M, Roy S, Sen C: Redox Regulation Of Inducible MCP-1 Expression in
EOMA Cells. Surgical Forum 2001

Gordillo G, Luck E: Development of a Biosynthetic Tympanic Membrane Prosthesis.
Otolaryngology Head and Neck Surgery 97(2): 146, 1987

Peer-reviewed – Journal Articles (* = mentored student/resident)

Biswas A, Khanna S, Roy S, Pan X, Sen CK, **Gordillo GM**. Endothelial cell tumor growth is Ape/ref-1 dependent. *Am J Physiol Cell Physiol*. 2015 Sep 1;309(5):C296-307. PMID: 26108661, PMCID: PMC4556895

Ghatak PD, Schlanger R, Ganesh K, Lambert L, Gordillo GM, Martinsek P, Roy S. A Wireless Electroceutical Dressing Lowers Cost of Negative Pressure Wound therapy. *Adv Wound Care*, 2015 May 1;4(5):302-311. PMID: 26005596, PMCID: PMC4432941

Kim JY, Willard JJ, Supp DM, Roy S, Gordillo GM, Sen CK, Powell HM. Burn scar biomechanics after pressure garment therapy. *Plast Reconstr Surg*, 2015 Sep;136(3):572-81; PMID: 25989300, PMCID: PMC4552574

Ahmad Fauzi MF, Khansa I, Catignani K, Gordillo G, Sen CK, Gurcan MN. Computerized Segmentation and Measurement of chronic wound images. *Comput Biol Med*. 2015 May; 60:74-85. PMID: 25756704

R, Banerjee J, Rauckhorst A, Pfeiffer DR, **Gordillo GM**, Khanna S, Osei K, Roy S. Does oral supplementation of a fermented papaya preparation correct respiratory burst function of innate immune cells in type 2 diabetes mellitus patients? *Antioxidants and Redox Signal*. 2015 Feb 1; 22(4): 399-45. PMID: 25268638, PMCID: PMC4298154

Zhang S, Gnyawali S, Huang J, Ren W, **Gordillo G**, Sen CK, Xu R; Multimodal imaging of cutaneous wound tissue. *J Biomed Opt*, 2015 Jan; 20(1):16016. PMID: 25604545. PMCID: PMC34300315

Roy S, Elharably H, Sinha M, Ganesh K, Chaney S, Mann E, Miller C, Khanna S, Bergdall VK, Powell HM, Cook CH, **Gordillo GM**, Wozniak DJ, Sen CK. Mixed-species biofilm compromises wound healing by disrupting epithelial barrier function. *J Pathol*. 2014 Aug; 233(4):331-343. MID: 24771509, PMCID: PMC4380277

Jones LM, Coffey R, Khandelwal S, Atway S, **Gordillo G**, Murphy C, Fries JA, Dungan K; A clinician's guide to the treatment of foot burns occurring in diabetic patients. *Burns* 2014 Dec;40(8):1696-1701. PMID: 24656951

Gordillo GM, Biswas A, Khanna S, Pan X, Sinha M, Roy S, Sen CK. Dicer knockdown inhibits endothelial cell tumor growth via microRNA 21a-3pTargeting of Nox-4. *J Biol Chem*, 2014 Mar 28;289(13). PMID: 24497637. PMCID: PMC3979401

Hopf HW, **Gordillo G**. Intraoperative management and pressure ulcers: not where the problem lies? *Crit Care Med*. 2014 Jan;42(1):199-200. PMID: 24346524.

Elgharably H, Mann E, Awad H, Ganesh K, Ghatak PD, **Gordillo G**, Sai-Sukhakar CV, Roy S, Wozniak DJ, Sen CK. First evidence of sternal wound biofilm following cardiac surgery. *PLoS One*, 2013 Aug, 1;8(8):e70360. PMID: 23936415. PMCID: PMC3731358

Embi PJ, Hebert C, **Gordillo G**, Kelleher K, Payne PR. Knowledge management and informatics considerations for comparative effectiveness research: a case-driven exploration. *Med Care*. 2013 Aug;51(8Suppl 3): S38-44. PMID: 23793050. PMCID: PMC3914140

Gordillo GM, Bernatchez SF, Diegelmann R, DiPietro LA, Eriksson E, Hinz B, Hopf HW, Kirsner R, Liu P, Parnell LKS, Sandusky GE, Sen CK, Tomic-Canic M, Volk SW, Baird A. Preclinical models of wound healing: Is man the model? *Adv Wound Care* . 2013 Feb; 2(1):1-4. PMID: 24527316. PMCID: PMC3840478

Ganesh K, Das A, Khanna S, Parinandi NL, **Gordillo GM**, Sen CK, Roy S. Prostaglandin E² induces oncostatin M expression in human chronic wound macrophages through Axl receptor tyrosine kinase pathway. *J Immunol* 2012 Sept 1;189(5):2563-2573. PMID: 22844123. PMCID: 3438225

Dickerson R, Deshpande B, Gnyawali U, Lynch D, **Gordillo GM**, Schuster D, Osei K, Roy S. Correction of aberrant NADPH oxidase activity in blood-derived mononuclear cells from type II diabetes mellitus patients by a naturally fermented papaya preparation; *Antioxid Redox Signal* 2012 August 1;17(3):485-491. PMID: 22369197. PMCID: PMC3365356

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Completed Works in Progress

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Gutowksi KA, Gordillo GM, Mericli AF, Morgan RF; Chapter 7: Plastic Surgery, American College of Surgeons Quality and Safety Manual (in press)

Gould L, Stuntz M, Giovannelli M, Ahmad A, Aslam R, Fortino-Mullen M, Whitney JD, Calhoun J, Kirsner R, **Gordillo GM**. WHS Pressure Ulcer Treatment Guidelines: What's New in 6 Years? *Wound Repair and Regeneration* (in press)

Gould L, Stuntz M, Giovannelli M, Ahmad A, Aslam R, Fortino-Mullen M, Whitney JD, Calhoun J, **Gordillo GM**. Wound Healing Society Guidelines for the Treatment of Pressure Ulcers. *Wound Repair and Regeneration* (in press)

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Gordillo G, Sen CK. Revisiting the essential role of oxygen in wound healing. *Am J Surg* 2003 Sep; 186(3):259-63. PMID: 12946829

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Editorials

Gordillo GM, Hunt TK, Sen CK, Significance of oxygen therapeutics, *Wound Repair Regen.* 2003 Sep-Oct;11(5):393. PMID: 12950645

Educational Activities

<i>Clinical Teaching</i>	Activity	Year
Plastic Surgery Residents	Department of Plastic Surgery Chief's Conference Weekly conference designed to have residents discuss unknown cases	1999-2015
Plastic Surgery Residents	Department of Plastic Surgery Corequest Conference Weekly conference that focuses on specific topics of core curriculum	1999-2015
Plastic Surgery Residents	Division of Plastic Surgery Mock Oral Board Examinations	1999-2005

<i>Lectures</i>	Activity (Topic)	Year
SUCCESS OSU	Summer Undergraduate Course Creating Excellence in Scientific Study - Analyzing Research Data	2012-2013
Davis Heart Lung Research Institute	Early Career Development seminar - Grant Writing for the Physician Scientist	2012
OSU College of Medicine	The realities of surviving as a minority in your profession	2010
OSU College of Medicine	Women In Medicine Panel	2010
OSU Alpha Epsilon Delta Pre-Med Honor Society	Plastic Surgery as a Career	2010
Women of Color Foundation (Conference Panelist)	The Impact of Mentoring	2010
Alpha Epsilon Delta Pre- Med Honor Society, OSU	Plastic Surgery as a Career	2009
Ohio Diversity Latino Talent and Leadership Conference	Panelist – Discussion on Diversity Mentoring & Leadership	2009
OSU College of Medicine Admissions Office	My experience as an OSU Medical Student	2009
Nationwide Children's Hospital	Building a Culture of Research: Making Transitional Research Work for Your Research Institute	2008
OSU Alpha Epsilon Delta Pre-Med honor Society,	Plastic Surgery as a Career	2008

It's All About Health (local radio show)	Wound healing research at the OSU Comprehensive Wound Center	2008
Department of Surgery Faculty Meeting	Endothelial Cell Tumor Translational Research Program	2008
Local Radio Show (It's All About Health)	Wound healing research at the OSU Comprehensive Wound Center	2008
OSU Department of Surgery Faculty Meeting	Endothelial Cell Tumor Translational Research Program	2008
OSU College of Medicine Surgery Interest Group	Plastic Surgery as a Career	2007
OSU Dept. of Statistics	The OSU Comprehensive Wound Center	2006
Nationwide Children's Surgery Center	New Frontiers in the Treatment of Hemangiomas and Vascular Tumors	2006
Comprehensive Wound Center Conference	Oxygen Therapy in Clinical Practice	2005
CWC Training for Clinical Trials/ Translational Research	Lecture and wet lab tutorial instructing regional directors and senior management staff for NHC in translational research protocol at local wound centers	2005
CWC Training for Clinical Trials/ Translational Research	Lecture and wet lab tutorial instructing physicians and nurse managers for NHC in translational research protocol at local wound centers	2005
National Healing Institute Wound Training Course	Normal Wound Healing	2005
OSU Alpha Epsilon Delta Pre-Med Honor Society,	Family and Medicine	2005
Nationwide Children's Dept. of Pediatrics	Hemangiomas and Vascular Malformations	2005
Columbus Medical Society	Hemangiomas and Vascular Malformations	2005
OSU Dept. of Emergency Medicine Grand Rounds	Burn Fluid Resuscitation	2004
Nationwide Children's Trauma Grand Rounds	Management of Facial, Skeletal and Soft Tissue	2004
GWR Medical National Sales Force Training	Use of Topical Oxygen Therapy in Clinical Practice	2004

Children's Hospital Dept. Of Genetics	Hemangiomas and Vascular Malformations at Children's Hospital	2004
Children's Hospital Div. of Pediatric Surgery	Hemangiomas and Vascular Malformations	2003
OSU Alpha Epsilon Delta Pre-Med Honor Society	Plastic Surgery as a Career	2003
OSU SICU Burn Nurse Orientation	Normal Wound Healing	2003
OSU Mini-Med School	Life as a Researcher	2002
OSU Family Practice	Oxygen and Wound Healing	2002
OSU College of Medicine	My experience as an OSU Medical Student	2001
OSU Alpha Epsilon Delta Pre-Med Honor Society	Applying to medical school and surgical careers	2000

Graduate students

Integrated Biomedical Graduate Program (IBGP) Signature Program Translational Science Curriculum Course, 8800.03, "Wound Healing and Regenerative Medicine, OSU College of Medicine		2011-14
Biomedical engineering grad student seminar- Clinical Wound Oximetry		2007
IBGP graduate seminar: Translational Research in Wound Healing		2007 2006
Mathematical Bioscience Institute grad student seminar Translational Research in Wound Healing		2006
Anatomy grad student seminar – Anatomic Basis of Breast Reconstruction		2001

Medical Students

Med IV Medical Therapeutics elective: Evaluation and Management of Chronic Wounds		2004-2015
Med IV (Doc 1 and Doc 4) Pilot - Advanced Management of Hospital Based Care Pressure Ulcers: Evaluation and Management		2012
Med III Surgery Core Clerkship Course – Burns		2009
Med I Patient Centered Research Education – Privacy and Confidentiality		2007

in Clinical Research

Med III Surgery Core Clerkship Course – Burns (5 Lectures)	2006-2007
Med II Musculoskeletal course – Wound Healing Basic Mechanisms and Basic Management	2005-2008
Med III Surgery Core Clerkship Course- Plastic Surgery (4 Lectures)	2002-2007
Med I Anatomy - Anatomic Basis of Breast Reconstruction	2001–2008

General Surgery Residents

Department of Surgery Professor Rounds: “Wound Healing”	2009
Department of Surgery Professor Rounds: “Wound Healing”	2002
Department of Surgery Professor Rounds: “Wound Healing”	2001

Pediatric Surgery Residents

Pediatric Surgery Residents and Fellows: “Clinical Aspects of Wound Healing”	2005
Pediatric Surgery Residents and Fellows: “Clinical Aspects of Wound Healing”	2003
Division of Pediatric Surgery Lecture: “Z-plasty, Flaps, and Tissue Expanders”	2000

Dermatology Residents

Evaluation and Management of Wounds	2009
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Mentoring**High School**

Lauren Falkenberg – shadowing. Enrolled in pre-med honors program at OSU	2008
Katherine Carruthers– shadowing for senior honors thesis proposal. OSU Honors program graduate starting MPH program at University of Toledo fall 2011	2006
Ashley Kennedy – shadowing	2003

Undergraduate

Emma Clark- OSU undergraduate pre-med	2014-2015
Evan Schrader – OSU Nutrition Sciences undergraduate Honors research thesis on effects of blueberries on hemangioendothelioma growth recipient: OSU Research Scholars Award; 2nd Place OSU Denman	2014-2015

Undergraduate Research Forum (out of 140 students)

Gautam Rangavajla – biomedical engineering student, Georgia Tech Clinical and research shadowing	2012
Alex Vasko – biomedical engineering student, Rose-Hulman Institute of Technology, Terre Haute, IN, worked in the lab analyzing human wound imaging data	2012
Molly Fike – pre-med Appalachian State University, North Carolina, shadowing	2012
Kelly Schlotman – pre-med student at Purdue University worked as a research assistant in the lab. Accepted at Indiana University Medical School in 2014.	2011
Elizabeth Gomez – pre-med student at Miami University, shadowing.	2009
Melanie Friess – undergraduate pre-med at OSU worked as a student in the lab for course credit.	2008
Gwynn Frambach – shadowing and career counseling. Enrolled in osteopathic medical school in 2005 at Ohio University, in Athens, Ohio.	2004
Anne Scott – research volunteer in the lab. Matriculated Northwestern University Feinberg School of Medicine 2005.	2003-2005
J. Daniel Mullen – undergraduate research volunteer in the lab. Matriculated St. Louis University Medical School 2004	2001
Samir Parikh – research volunteer in the lab. Graduated from University of Cincinnati Medical School in June 2005. Currently Assistant Professor of Medicine (nephrology) at The Ohio State University.	1999-2000

Post-baccalaureate minority mentoring

Taonga Ziba – supervised employee supporting research in the lab and clinical setting specifically supporting the chronic wound tissue banking project. Matriculated medical school at University of Medicine and Health Sciences – St. Kitts (UMHS) in May, 2008.	2007-2008
Jenni Bigback – shadowing by Medpath student enrolled in a program to prepare minority applicants for medical school.	2000
Myla Bennett – shadowing by Medpath student enrolled in a program to Prepare minority applicants for medical school.	2000

Graduate Students

Amitava Das – thesis committee; PhD candidate in nutrition	2015
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Post-doctoral

Ayan, Biswas, PhD – mechanisms regulating hemangioendothelioma growth (ongoing)	2012-2015
Duygu Onat, Ph.D. – left the lab to take a post-doc position at Columbia University in New York.	2002
Mustafa Atalay, M.D., Ph.D. – left the lab to take a teaching position at the University of Kuopio in Finland.	2000-2001

Medical Students

Shequella Martin Med II – shadowing in OR and office hours	2012
Teresa Cunningham Med III– aspiring plastic surgery resident developing manuscript on case series of Girdlestone arthroplasty patients.	2011
Daniel Torrance Med II-III– shadowing and career advice	2007-2009
Meredith Collins Med III-IV – career guidance and supervision of clinical research project on the incidence of malnutrition in hospitalized patients chronic wounds. Matched in the plastic surgery Mt. Sinai Medical Center, NY.	2008
Abishek Julka Med III – career counseling	2007
Justin Harper Med II-IV – clinical shadowing, mentor for his Roessler Research Scholarship to support work in my lab, career counseling, matched in plastic surgery at OSU.	2007-2009
Jason Richardson Med IV – one month translational research elective under my direct supervision	2005
Sarah Hostetler Med II –III – supervision on a clinical research project to evaluate resource utilization for patients with acute wounds, matched in dermatology at OSU.	2005-2006
Andrea Holinga Med IV- supervised clinical research project on breast augmentation.	2005-2006
David Crawford, Med II – mentor for his Roessler Research Scholarship. He graduated from OSU in 2005 and entered military service.	2004
Melissa Lubbers Med III – supervised clinical research project on large volume breast reduction, matched in Plastic Surgery at the University of Southern California.	2004-2005
Randy Kraft – supervised clinical research project on burn dressings and provided career guidance, matched in plastic surgery at the	2002-2003

University of Arizona.

Suneeta Senapati – supervised her work in the hospital Quality Assurance program looking at compliance with the burn fluid resuscitation guidelines	2003
Katie Garrelts– clinical mentor and career advice	2003
Myla Bennett –career advice, research support placed her in the lab of my wound healing research partner who served as mentor for her Roessler Research Scholarship. Completed Plastic Surgery residency at OSU.	2001-2005
Laura White – Supervised her Roessler Research Scholarship, shadowing, and career counseling, matched in Plastic Surgery at OSU.	2001-2003
Lori Reyna – Supervised her Roessler research scholarship.	2000-2001

Residents

Francesca Ruccia, MD – PGY 2 plastic surgery resident, University of Foggia Medical School, Foggia Italy, did a 1 month rotation at OSU	2012
Allison McAnney, M.D. – PGY5 plastic surgery resident	2007-2012
Myla Bennett, M.D. – plastic surgery resident, completed program in 2011 presently an ASAPs sponsored aesthetic surgery fellow at OSU	2006-2007
K. Roxanne Grawe, M.D. – plastic surgery resident, private practice Columbus, OH	2005-2008
Kevin Delaney, M.D. – general surgery resident, supervised clinical research project on use of the VAC with exposed vascular prosthesis. He completed his plastic surgery residency at OSU in 2010 and is now faculty at Medical University of South Carolina.	2005
Laura White, M.D. – plastic surgery resident, private practice Erie, PA	2004-2007
Patti Sandholm, M.D. – plastic surgery resident, supervised her clinical research project on burn pain management, clinical faculty at University of Oregon.	2003-2006
Maya Spaeth, M.D. – plastic surgery resident, supervised clinical research project on burn fluid resuscitation. Fellowship trained hand surgeon now faculty at OSU.	2004-2005
Jason Lichten, M.D. – plastic surgery resident supervised his clinical research on the use of occlusive dressings in burn patients, private practice Lancaster, OH.	2004-2005
Sarah Nargi, M.D. – plastic surgery resident, private practice Whitefish, MT	2001-2004
Brian Dorner, M.D. – plastic surgery resident, supervised his clinical	2001-2002

research project on burn infections, private practice Columbus, OH

Jonathon Heistein, M.D. – plastic surgery resident, supervised his clinical research project, "Development and Initiation of Computerized Documentation for Burn Patient Care," private practice Fort Worth, TX 2000-2002

Dan Kapp, M.D. – plastic surgery resident, supervised his clinical research project on the influence of legislation and the demographic profile of breast reconstruction patients at OSUMC. 2000-2004

Greg Pearson, M.D. – plastic surgery resident, supervised his research project on the expression of AC133 in angiogenic neonatal tumors. Fellowship trained pediatric plastic surgeon now faculty at OSU. 2000-2004

Sarah Cowgill, M.D. – plastic surgery resident who switched to general surgery training. 2000-2002

Kathy Chang, M.D. – plastic surgery resident who changed career paths and went into neurosurgery. 1999-2001

Peers/Colleagues

Ergun Kocak, MD – Mentor regarding research and career path and Assist him in obtaining position with PSF study section. 2010-2013

Brian Porshinsky, MD – Mentor with frequent meetings and provide feedback from other clinicians regarding burns and wounds, reviewed burn morbidity and mortality cases. 2011-2012

CME

Location	Activity	Year
Our Lady of Bellefonte Hospital Ashland, KY	Hemangiomas and Vascular Malformations"	Sep 2013
Southern Illinois Univ. Springfield, IL	Overview of Pressure Ulcers	2011
Bethesda Hospital Zanesville, OH	Overview of Hemangiomas and Vascular Malformations	2011
National Healing Institute, Columbus, OH	Pressure Ulcers: Evaluation and Management lecture given monthly for wound center trainees	2010-2012
MATCH (Multidisciplinary Advances in Treatment of Critically Ill Hospitalized	Pressure Ulcers: Evaluation, Management and Strategies for Prevention"	2010

Patients) Columbus, OH

OSU MedNet 21	Webcast, Pressure Ulcers Evaluation & Management	2010
OSU Rehabilitation Services Grand Rounds	Evaluation and Management of Chronic Wounds: A Summary of Wound Healing Society Guidelines	2007
Children's Surgery Center	New Frontiers in the Treatment of Hemangiomas and Vascular Tumors	2006
OSU MedNet 21	Evaluation and Management of Chronic Wounds	2006
Columbus Medical Society	"Hemangiomas and Vascular Malformations"	2005
Nationwide Children's Hospital Grand Rounds	New Frontiers in the Treatment of Hemangiomas and Vascular Tumors	2005
Children's Hospital Dept. of Pediatrics Lounge & Learn	Hemangiomas and Vascular Malformations	2005
OSU Dept. of Physical Medicine Grand Rounds	Pressure Ulcers	2005
First Inaugural Comprehensive Wound Center Conference	Oxygen Therapy in Clinical Practice	2005
OSU Dept. of Surgery Grand Rounds	Wound Healing: Understanding the Essential Role of Oxygen	2005
National Healing Institute Wound Training Course	Normal Wound Healing	2005
Children's Hospital Department of Genetics	Hemangiomas and Vascular Malformations at Children's' Hospital	2004
OSU Midwest Regional Wound Healing Research Conference	The OSU Comprehensive Wound Center	2004
Pediatric Surgery Trauma Grand Rounds	Management of Facial, Skeletal and Soft Tissue Trauma	2004
Emergency Medicine Grand Rounds	Burn Fluid Resuscitation	2004
National Healing Institute Wound Training Course	Oxygen and Wound Healing	2003
SICU Burn Nurses Orientation	Normal Wound Healing	2003
Div of Pediatric Surgery	Hemangiomas and Vascular Malformations at	2003

	Children's Hospital	
OSU Med Net 21	Wound Healing	2003
OSU Dept. Emergency Medicine Grand Rounds	Burn Fluid Resuscitation: Practice Guidelines	2003
Doctors Hospital, Massillon, Ohio	Topical Oxygen and Wound Healing Research at OSU	2003
Critical Care and Medical Surgical Nursing	Oxygen and Wound Healing Quest for Excellence	2003
Dept. of Emergency Medicine Grand Rounds	Burn Fluid Resuscitation	2003
Children's Hospital Medical Grand Rounds	Management of Hemangiomas and Vascular Anomalies	2003
NHC (National Healing Corporation) Wound Care and Hyperbaric Training	Oxygen and Wound Healing	2003
OSU Family Practice	Oxygen and Wound Healing	2002
OSU Dept of Surgery Grand Rounds	Breast Reconstruction	2002
Ohio Medical Education Network	Management of the Difficult Wound	2001
Dept. of Surgery Grand Rounds	Oxygen Therapy and Wound Healing	2001
OSU Dept. of Surgery Grand Rounds	Update on Management of Thermal and Electrical Injury	2000

Course / Curriculum Development

Organization	Topic	Year
OSU Clinical Practice Guidelines	Management of foot burns in diabetic patients	2012
AACPS-Plastic Surgery Core Curriculum	Venous Leg ulcers	2010
National Healing Institute Wound Training Course	Pressure Ulcers – course given monthly	2005-2012

OSU Clinical Practice Guidelines	Burn Fluid Resuscitation	2004
OSU Clinical Practice Guidelines	Burn Pain Management	2004
OSU Clinical Practice Guidelines	Evaluation of Chronic Wounds	2004 & 2013
<i>Educational Committees</i>		
American Board of Plastic Surgery – oral board examiner		2006-present
ACGME Residency Review Committee, Plastic Surgery, resident representative		1997-2000