

Curriculum Vitae

Louis Messina, MD
Professor and Chief, Division of Vascular and Endovascular Surgery
UMass Memorial Health Care – University Campus
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Education

1965-1969 Brooklyn Preparatory High School, Brooklyn, New York
1969-1973 Fordham University, Bronx, New York; B.A. (Philosophy, Biology)
1974-1978 State University of New York, Downstate Medical Center, Brooklyn, New York, M.D.,
Summa Cum Laude
1978-1981 University of California, San Francisco, California (Surgery Residency)
1981-1983 Cardiovascular Research Institute, San Francisco, California (Laboratory of J.I.E.
Hoffman, Senior Member)
1983-1985 University of California, San Francisco, California (Surgery Residency)
1985-1986 University of California, San Francisco, California (Vascular Surgery Fellowship)

Employment History: Academic Appointments

1985-1986 Instructor, Department of Surgery, University of California, San Francisco, School of
Medicine
1986-1993 Assistant Professor, Department of Surgery, University of Michigan Medical School
1993-1995 Associate Professor, Department of Surgery, University of Michigan Medical School
1995-1996 Professor, Division of Vascular Surgery, Department of Surgery, University of
California, San Francisco
1995-1996 Chief, Division of Vascular Surgery, University of California, San Francisco
1997-2006 Edwin J. Wylie Chair in Vascular Surgery, University of California, San Francisco
2001-2006 Vice Chair, Department of Surgery, University of California, San Francisco
2006- Chief, Division of Vascular Surgery, UMass Memorial Hospital-University Campus,
Worcester, Massachusetts
2006- Vice Chair, Department of Surgery

Employment History: Hospital Appointments

1986-1995 Attending Surgeon, Department of Surgery, University Hospital, Ann Arbor, Michigan
1986-1995 Staff Surgeon, Department of Surgery, Veterans Administration Medical Center, Ann
Arbor, Michigan
1987-1995 Director, Diagnostic Vascular Unit, Ann Arbor Veterans Administration Medical Center,
Ann Arbor, Michigan
1988-1995 Co-Chief, Vascular Surgery Service, Ann Arbor Veterans Administration Medical
Center, Ann Arbor, Michigan
1988-1991 Co-Director, Diagnostic Vascular Unit, University of Michigan Medical Center, Ann
Arbor, Michigan
1988-1991 Director, Surgical Intensive Care Unit, Ann Arbor Veterans Administration Medical
Center, Ann Arbor, Michigan
1991-1995 Director, Diagnostic Vascular Unit, University of Michigan Medical Center, Ann Arbor,
Michigan
1995-2006 Attending Surgeon, University of California Hospitals, San Francisco, California
1995-2006 Staff Surgeon, Department of Surgery, Veterans Administration Medical Center, San
Francisco, California
1995-2006 Director, Vascular Laboratory, University of California, San Francisco, California
1997-2006 Attending Courtesy Surgeon, San Francisco General Hospital, San Francisco,

	California
2001-2006	Medical Staff, Marin General Hospital
2003-2006	Medical Staff, California Pacific Medical Center
2003-2006	Physician Director, UCSF heart and Vascular Center
2006-	Attending Surgeon, UMass Memorial Health Care, Worcester, Massachusetts

Certification And Licensure

Medical License, Massachusetts 2007	#230288
Diplomat, National Board of Medical Examiners	#193265
Medical License, California, 1979	#G40324
Medical License, Michigan, 1986	#050174
American Board of Surgery Certificate, 1986	#31514
American Board of Surgery, Added Qualifications in General Vascular Surgery, 1988	#100011
Fellow, American College of Surgeons, 1988	#2989777
American Board of Surgery, Added Qualifications in Surgical Critical Care, 1989	#449
American Board of Surgery, Added Qualifications in General Vascular Surgery, 1998	#041905

Honors And Awards

1975	Engel Scholar, State University of New York, New York City
1978	Summa Cum Laude, State University of New York, New York City
1982-1984	American Heart Association Research Fellowship
1991	Department of Veterans Affairs, Certificate of Appreciation
1993	Pacific Vascular Research Foundation Visiting Professor, University of California, San Francisco, California
1996-2003	Listed in "The Best Doctors in America"
1997	Selected in the "San Francisco Focus" Magazine's special health issue (March 1997) as one of the "Best Doctors in the Bay Area"
1997	Visiting Professor, Division of Vascular Surgery, May Medical Center
1998	Visiting Professor, Division of Vascular Surgery, University of Utah Medical Center, Salt Lake City, Utah
1998	Listed in the "Who's Who in Medicine and Healthcare"
1999	Listed in "San Francisco Top 425 Doctors in the Bay Area"
1999-2000	Excellence in Teaching, University of California San Francisco, Surgery Chief Residents, San Francisco, California
2000	Visiting Professor, Division of Vascular Surgery, University of Florida, Gainesville
2001	Distinguished Reviewer, Journal of Vascular Surgery
2002	Visiting Professor, Division of Vascular Surgery, The Western Pennsylvania Hospital, Temple University School of Medicine, Pittsburgh, Pennsylvania
2002-2003	Listed in the "Guide to America's Top Surgeons"
2003-2004	Listed in "Who's Who in America"
2003	Listed in San Francisco Focus Magazine as one of "The Bay Area's Best Doctors"
2003	Listed in "Who's Who in American Education"
2003	Dedicated Service to the University of California San Francisco School of Medicine Longitudinal Clinical Experience
2003	Listed in the "Guide to America's Top Physicians"
2003	Excellence in Teaching, University of California San Francisco, Surgery Chief Residents, San Francisco, California
2003	Visiting Professor, Department of Surgery, University of Kansas School of Medicine, Wichita, Kansas
2003-2004	Listed in "Best Doctors"
2004	Visiting Professor, Division of Vascular Surgery, The Feinberg School of Medicine, Northwestern University, Chicago, Illinois

2004 Listed in "Guide to America's Top Surgeons"
 2004 Listed in "Who's Who in Science and Engineering"
 2004 Listed in "59th Edition of Who's Who in America"
 2004 Listed in "Who's Who in Medical Sciences Education"
 2004 Listed in "San Francisco Top 425 Doctors in the Bay Area"
 2004 Visiting Professor, Wake Forest University Health Sciences, Winston-Salem, North Carolina
 2005 Visiting Professor, Division of Vascular Surgery, Dartmouth Medical School, Dartmouth College, Hanover, New Hampshire
 2005 Listed in "Who's Who in Science and Engineering" 8th Edition, 2005-2006
 2007 Listed in "Who's Who in Science and Engineering" 10th Edition, 2007-2008
 2007 Listed in "Who's Who in American Education"
 2007 Listed in "Best Doctors", 2007-2008
 2007 Listed in "Guide to America's Top Surgeons"
 2007 Center for Devices and Radiological Health's Special Recognition Award, Medical Device Epidemiology Group
 2008

Grant Support: External Sponsored Peer-Reviewed Research Funding

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
 SPONSOR: National Institutes of Health
 GRANT TITLE: Overexpression of eNOS in Critical Limb Ischemia
 ADMINISTERING UNIT: Surgery
 OUTCOME: Funded
 DIRECT COSTS: \$1,250,000
 DATE OF ENTIRE PROPOSED PROJECT PERIOD: 1/1/04-12/31/09

FACULTY SPONSOR: Louis M. Messina, MD
 FELLOW: Jeffry Cardneau, MD
 SPONSOR: William J. von Liebig Foundation
 TITLE: Endovascular Fellowship
 ADMINISTERING UNIT: Surgery
 OUTCOME: Funded
 DIRECT COSTS: \$50,000
 DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/03-6/30/04

FACULTY SPONSOR: Deborah A. Dean, MD, MPH
 KEY INVESTIGATOR: Louis M. Messina, MD
 SPONSOR: Doris Duke Clinical Interfaces Award 2003
 TITLE: Chlamydia Pneumoniae Infection and Genetic Factors in Carotid Atherosclerosis and Stroke
 OUTCOME: Funded
 DIRECT COSTS: \$50,000
 DATE OF ENTIRE PROPOSED PROJECT PERIOD: 1/01-6/04

FACULTY SPONSOR: Louis M. Messina, MD
 FELLOW: Thomas K. Curry, MD
 SPONSOR: William J. von Liebig Foundation

TITLE: Endovascular Fellowship
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$50,000
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/02-6/30/03

FACULTY SPONSOR: Louis M. Messina, MD
FELLOW: Gale Tang, MD
SPONSOR: National Institutes of Health
TITLE: Effect of Nitric Oxide Synthase on Limb Ischemia
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$70,464
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/01-6/30/03

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
FELLOW: David Charo, MD
SPONSOR: Lifeline Foundation
TITLE: The Role of MCP-1 on the Initiation of Arteriogenesis in a Mic
Mouse Hind Limb
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$3,000
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 4/02-4/03

FACULTY SPONSOR: Louis M. Messina, MD
FELLOW: Cherrie Abraham, MD
SPONSOR: William J. von Liebig Foundation
TITLE: Endovascular Fellowship
ADMINISTERING UNIT: Surgery
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/7/01-6/30/02

FACULTY SPONSOR: Louis M. Messina, MD
FELLOW: David Chang, MD
SPONSOR: William J. von Liebig Foundation
TITLE: Basic Science Fellowship
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$100,000
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/00-6/30/02

FACULTY SPONSOR: Louis M. Messina, MD
FELLOW: Kevin C. Yee, MD
SPONSOR: Lifeline Foundation
TITLE: Effect of IL-2 on Skeletal Muscle Necrosis after Acute Limb
Ischemia
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$3,000
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/01

FACULTY SPONSOR: Louis M. Messina, MD
FELLOW: Darren B. Schneider, MD
SPONSOR: William J. von Liebig Foundation
TITLE: Endovascular Fellowship
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$50,000

DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/00-6/30/01

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
SPONSOR: National Institutes of Health, R01-HL51184-01
TITLE: Transplantation of Transduced Endothelium into Capillaries
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$428,509
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 4/9/97-7/31/01

FACULTY SPONSOR: Louis M. Messina, MD
FELLOW: Lucy Brevetti, MD
SPONSOR: William J. von Liebig Foundation
TITLE: Basic Science Fellowship
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$100,000
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/98-6/30/01

FACULTY SPONSOR: Louis M. Messina, MD
FELLOW: Lucy Brevetti, MD
SPONSOR: National Institute of Health
TITLE: ICP 47 Effect on Vascular Allograft Rejection
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/99-6/30/01

FACULTY SPONSOR: Louis M. Messina, MD
FELLOW: Laura Pak, MD
SPONSOR: William J. von Liebig Foundation
TITLE: Endovascular Fellowship
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$50,000
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/99-6/30/00

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
SPONSOR: Pacific Vascular Research Foundation
GRANT TITLE: Inflammation and Infection in Carotid Atherosclerosis
ADMINISTERING UNIT: Neurology
OUTCOME: Funded
DIRECT COSTS: \$49,300
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/97-6/30/99

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
SPONSOR: Veterans Administration Cooperative Study Program #379
GRANT TITLE: Aneurysm Detection and Management Trial
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$529,326
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/92-6/30/99

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
SPONSOR: VA Cooperative Study Program #417
GRANT TITLE: Natural History of Large Aortic Aneurysms (NHLA)
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: Reimbursement per patient contact

DATE OF ENTIRE PROPOSED PROJECT PERIOD: 2/1/95-2/30/99

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
SPONSOR: National Institutes of Health, R01-HL51184-01
TITLE: Transplantation of Transduced Endothelium into Capillaries
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$428,509
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 4/9/94-3/31/97

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
SPONSOR: VA Merit Review
TITLE: Gene Transfer and Expression in Capillary Endothelium
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$192,000
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 10/1/93-9/30/96

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
SPONSOR: Veterans Administration Cooperative Study Program #309
GRANT TITLE: Role of Carotid Endarterectomy in Symptomatic Patients
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/88-6/30/91

PRINCIPLE INVESTIGATOR: John F. Faulkner, PhD
SPONSOR: National Institutes of Health
GRANT TITLE: Functional Deficits in Standard and Vascularized Grafts
ADMINISTERING UNIT: Physiology
POSITION: Co-Investigator
OUTCOME: Funded
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 4/1/89-3/31/90

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
SPONSOR: American Heart Association of Michigan
GRANT TITLE: Capillary Perfusion After Skeletal Muscle Ischemia
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/88-6/30/89

PRINCIPLE INVESTIGATOR: Robert Raffai, Ph.D.
NAME OF FACULTY SPONSOR/ COLLABORATOR: Louis M. Messina, MD
SPONSOR: National Institutes of Health
TITLE: Development and Regression of Peripheral Atherosclerosis
ADMINISTERING UNIT: Surgery
OUTCOME: Pending
DIRECT COSTS: Pending

External Non Peer-Reviewed Research Funding

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
SPONSOR: Novartis Pharmaceuticals Corporation
GRANT TITLE: Diovan Study: "Coronary Flow in Congestive Heart Failure"
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 8/1/99-8/1/01

PRINCIPLE INVESTIGATOR: Louis M. Messina, MD
SPONSOR: Fusion Medical Technologies
GRANT TITLE: Evaluation of Fusion Matrix, a Novel Hemostatic Agent for
Stopping Intraoperative Bleeding
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/98-5/31/00

PRINCIPLE INVESTIGATORS: Louis M. Messina, MD/Joseph H. Rapp, MD
SPONSOR: Meadox Medicals, Inc.
GRANT TITLE: A comparative Assessment of the Meadox
HEMASHIELD VANTAGE Vascular Graft vs the Gore-Tex
ePTFE Vascular Graft for the Peripheral Application
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: Open
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 3/98-2/99

PRINCIPLE INVESTIGATOR: James C. Stanley, MD
CO-INVESTIGATOR: Louis M. Messina, MD
SPONSOR: W.L. Gore & Associates, Inc.
GRANT TITLE: Seeding of Vascular Prostheses: A Clinical Test of a Kit
Designed for Convenient, Reliable Harvesting of Autologous
Endothelial Cells
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DIRECT COSTS: \$254,420
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 1990-1993

PRINCIPLE INVESTIGATOR: James K. Richardson, MD
SPONSOR: Biomedical Research Council
GRANT TITLE: The Effect of Rocker Soled Shoes on Walking Distance and
Biomechanics in Patients with Calf Claudication
ADMINISTERING UNIT: Department of Physical Medicine and Rehabilitation
OUTCOME: Funded
DIRECT COSTS: \$25,000
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 1/31/91-12/31/91

PRINCIPLE INVESTIGATORS: Louis M. Messina, MD/James C. Stanley, MD
SPONSOR: Berlex Laboratories
GRANT TITLE: Multicenter Placebo Controlled Study of Iloprost in Patients with
Severe Atherosclerotic Peripheral Arterial Disease and Ischemic
Ulcers
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/88-6/30/90

Internal Peer-Reviewed Research Funding

PRINCIPLE INVESTIGATOR: Deborah A. Dean, MD, MPH
SPONSOR: American Heart Association
GRANT TITLE: Infection and Inflammation in Carotid Atheromas
ADMINISTERING UNIT: Francis I. Proctor Foundation
OUTCOME: Funded
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 1/1/98-12/31/00

External Peer-Reviewed Grants

FACULTY SPONSOR: Louis M. Messina, MD
FELLOW: Kevin C. Yee, MD
SPONSOR: Genetech Foundation Research Fellowship
ADMINISTERING UNIT: Surgery
OUTCOME: Funded
DATE OF ENTIRE PROPOSED PROJECT PERIOD: 7/1/01

Research Interests:

The long-term goal of my research is to identify mechanisms regulating collateral artery enlargement development in the ischemic hind limb. Through these efforts, we hope to develop molecular therapies to increase collateral artery enlargement in humans with critical limb ischemia. We have developed unique methods to assess perfusion of the ischemic limb: direct measurement of tissue oxygen tension, microspheres, and laser Doppler. Tissue oxygen tension drives the molecular response to tissue ischemia. We have shown that over-expression of endothelial nitric oxide synthase normalizes tissue oxygen and blood flow in a rat model of critical limb ischemia. This work documented a significant increase in collateral artery enlargement.

Currently, we are characterizing the role of eNOS in collateral artery enlargement showing its importance throughout the early and late phases of collateral artery enlargement. We are studying the role of bone marrow derived stem cells on the revascularization of the ischemic limb. All of these models are being extended to clinically relevant models of Type I and II diabetes and hypercholesterolemia.

We have developed the first model of gradual arterial occlusion in the mouse and have shown that the rate of collateral artery formation and the degree of recovery is less than that in a model of acute occlusion. This goes against the widely held view that a gradual onset ischemia would induce the opposite: a more complete recovery of blood flow through better collateral artery development. We will explore these differences through a comparative analysis of inflammatory cytokine and peptide growth factor expression. Using qRT-PCR we have documented two distinct patterns of gene expression after induction of acute and chronic ischemia. We have developed collaboration with Robert Rafaii, PhD who has the first true model of atherosclerotic peripheral vascular disease. This will allow us the best current model of the human form of the disease in which to test our hypothesis and new therapies.

Most recently we are studying the effect of oxidative stress induced by diabetes and hypercholesterolemia on bone marrow.

We were recently awarded a five-year NIH grant to fund our work in this area.

Memberships And Professional Societies:

1985 HC Naffziger Surgical Society
1986 Michigan Vascular Society
1987 Association of Academic Surgery
1989-1992 American College of Angiology

1989	Academy of Surgical Research
1989	American College of Surgeons
1989	Society of Vascular Technology
1989	Frederick A. Collier Surgical Society
1990	Midwestern Vascular Surgical Society
1991	Central Surgical Association
1991	American Association of Vascular Surgery (Formerly International Society for Cardiovascular Surgery, North American Chapter)
1992	Western Surgical Association
1993	American Venous Forum
1994	Society of University Surgeons
1995	Society for Vascular Surgery
1995	North American Vascular Biology Organization
1995	Association of Program Directors in Vascular Surgery
1995	American Association for the Advancement of Science
1997	American Medical Association
1997	Pacific Coast Surgical Association
1997	San Francisco Surgical Society
1997	Western Vascular Society
1997	Society for Clinical Vascular Surgery
1998	Association of Pacific Surgeons
1999	American Surgical Association
2000	Fellow of the American Surgical Association
2000	Northern California Vascular Surgical Society
2002	Surgical Biology Club III
2004	American Vascular Association, Secretary
2004	American College of Surgeons Web Portal, Community Editor for Vascular Surgery
2007	New England Society for Vascular Surgery

Public Service

1986	Ad Hoc Reviewer, Surgery
1994	Ad Hoc Reviewer, Journal of Vascular Surgery
1987-1991	Executive Committee, Veterans Administration Cooperative Study Program #309: The Role of Carotid Endarterectomy in Preventing Stroke from Symptomatic Carotid Stenosis
1991-1992	Planning Committee, Veterans Administration Cooperative Trial: Aneurysm Detection and Management Trial
1992	Executive Committee, Veterans Administration Cooperative Study Program #379: Aneurysm Detection and Management Trial
1993-1995	Program Committee, International Society of Cardiovascular Surgery
1994	NIH Study Section Clinical Science ZRG4ECS (Ad Hoc)
1994-1998	Editorial Board, Journal of Cell Transplantation
1994-2001	Editorial Board, Journal of Investigative Surgery
1995	NIH Study Section Surgery and Bioengineering (Ad Hoc)
1996-2000	VA Merit Reviewer (Ad Hoc)
1996-2000	Member, NIH Study Section Surgery and Bioengineering
1998	Ad Hoc Reviewer, Journal of Critical Illness
1998-2002	Examiner, American Board of Surgery Certifying Examination
1998	NIH Special Study Section SRB-3 Reviewer
1999	Ad Hoc Reviewer, Veterans Affairs Cooperative Studies Program
2000-2003	Lifeline Foundation, Research and Education Committee
2001	Chair, Research Initiatives Program, Scientific Session, Bethesda, MD, February
2001	Chair, Lifeline Research Forum, Scientific Session, Society for Vascular Surgery, New Orleans, LA, June
2001	Ad Hoc Reviewer, Journal of Cardiovascular Surgery
2001	Editorial Board, Journal of Vascular Surgery

2001 Reviewer of the Abstracts submitted for the Charles C. Guthrie Award
2002 Executive Council, Western Vascular Society, 2002 Member of the Evidence-Based Care Committee, The American Association for Vascular Surgery
2002 Reviewer, Midwestern Vascular Surgical Society, Charles C. Guthrie Award
2002 Ad Hoc Reviewer, Journal of Medicine
2002 Ad Hoc Reviewer, Circulation
2002 Co-Director, UCSF-Stanford Vascular Symposium, San Francisco, California, April 4-6, 2002
2003 Secretary/Treasurer, Lifeline Foundation

2003 Consultant/Representative, The Western Vascular Society to the American Board of Vascular Surgery
2003 Reviewer, Charles C. Guthrie Award, Midwestern Vascular Society
2003 Member, Ad Hoc Joint Committee on Fundraising, Lifeline Foundation and American Vascular Association
2003 Ad Hoc Reviewer, Journal of Molecular Therapy
2003 Abstract Reviewer, American Heart Association
2003 Co-Director, UCSF-Stanford Vascular Symposium, May 1-3, 2003
2003 Associate Examiner, American Board of Vascular Surgery Certifying Examination
2003 Physician Director, Heart and Vascular Center, University of California, San Francisco
2003 Reviewer, The American Journal of Medicine
2004 Ad Hoc Reviewer, Journal of Cardiovascular Surgery
2004 Ad Hoc Reviewer, Journal of the American College of Surgeons
2004 Co-Director, UCSF-Stanford Vascular Symposium, San Francisco, California, April 22-24, 2004
2004 Ad Hoc Reviewer, Arteriosclerosis, Thrombosis and Vascular Biology
2004 NIH Ad Hoc Study Section, ZRG1SBIB-G02M
2004 Ad Hoc Reviewer, Journal of Surgical Research

University Service – University Of Michigan:

1987-1989 Transfusion Committee, Ann Arbor Veterans Administration Medical Center
1987-1989 Surgical Case Review Committee, Ann Arbor Veterans Administration Medical Center
1987-1995 Member, Research Advisory Committee, Department of Surgery, University of Michigan
1988-1991 Chairperson, Critical Care Committee, Veterans Administration Medical Center
1988-1995 Member, Medical Student Admissions Committee, University of Michigan Medical School
1989-1992 Executive Committee Medical Student Admissions, University of Michigan Medical School
1989-1995 Member, Computer Advisory Committee, Department of Surgery, University of Michigan
1991-1995 Research Coordinator, Section of Vascular Surgery, University of Michigan
1993-1995 Biomedical Research Council, School of Medicine, University of Michigan

University Service – University Of California, San Francisco, Medical School:

1995 Member, Academic Senate, San Francisco Division, University of California
1995 Member, Search Committee for Associate Chief of Staff for Research, Veterans Administration Medical Center, San Francisco, California
1995 Member, Radiation Vascular Investigative Protocol Group (RVIPG)
1995 Member, Operating Room Committee, Mofitt-Long Hospital, University of California
1995 Member, Search Committee ICC Nurse Manager, University of California
1996 Chair, Ad Hoc, Merits and Promotion Committee, School of Medicine, University of California

1996-1998 Member, Emergency Room Protocol Committee, University of California
1997 Member, Operating Room Committee
1997 Member, Search Committee for Chair, Department of Surgery, University of California
1997-2001 Member, Credentials Committee, Medical Center at the University of California

1998 Five-Year Review, Department of Orthopedics, Mt. Zion/UCSF Medical Center, San Francisco, California
1999 Member, Search Committee, Chief of Orthopedics, Mt. Zion/UCSF Medical Center, San Francisco, California
2000-2001 Co-Chair, Search Committee, Pacific Vascular Research Laboratory Director, University of California
2000-2002 Member, Brown and Toland Work Group, University of California
2000-2002 Co-Chair, UCSF Medical Group Contracting Committee
2001-2002 Co-Chair, Contracting & Billing Committee, University of California
2002 Member, School of Medicine Space Committee, University of California
2002 Member, Clinical Program Development Committee, University of California
2002 Adult Cardiovascular Business Planning Steering Committee
2002 Parnassus Heights Leadership Council, University of California
2003 Member, Ad Hoc, Promotion Committee Review No. 2002-144, Medical Center at the University of California, San Francisco, California
2006 Member, Capital Budget Planning Committee

University Service – University Of California, San Francisco, Department Of Surgery:

1995-1997 Member, Research Committee, Department of Surgery, University of California
1995-1999 Member, Merits and Promotions Committee, Department of Surgery, University of California
1996 Member, Compensation Committee, Department of Surgery, University of California
1997 Member, Vascular Surgeon Search, Department of Surgery, University of California
1998-1999 Member, Clinical Faculty Committee, Department of Surgery, University of California
1999 Chair, Merits and Promotion Committee, Department of Surgery, University of California
2000-2001 Chair, Search Committee, Chief Division of General Surgery, University of California
2001 Member, Program Committee, The Postgraduate Course in General Surgery, "Current Cancer Management: An Interdisciplinary Approach", The Department of Surgery, University of California School of Medicine
2001 Vice Chair, Department of Surgery, University of California
2001 Chair, Program Committee, UCSF-Stanford Postgraduate Course in Vascular Surgery
2002 Member, Search Committee, Department of Surgery Chief Administrative Officer
2003 Member, Search Committee, Associate Director, Clinical Affairs

University Service – UMass Memorial Medical Center, Worcester, Massachusetts:

2006 Chief, Division of Vascular Surgery, UMass Memorial Medical Center
2006 Program Director, Vascular Surgery Fellowship, UMass Memorial Medical Center, University of Massachusetts Medical School
2006 Graduate Medical Education Committee, UMass Medical School
2006 Executive Committee Member, Heart and Vascular Center of Excellence, UMass Memorial Medical Center
2006 Clinical Care Strategic Subcommittee, Workgroup of the UMass Academic Health Center Joint Strategic Planning Task Force
2007 Director, Stem Cell Research Committee, UMass Medical School
2007 Faculty Compensation Committee, UMass Memorial Health Care
2007 Research Work Group, UMass Memorial Health Care

Teaching Experience – University Of Michigan Medical School:

1986-1995 Technical Training of Medical Students and Residents in Surgical Techniques
 1986-1995 Lectures in Surgery Clerkship for Third-Year Medical Students
 1986-1995 Lectures in Vascular Surgery for Residents, Third- and Fourth-Year Medical Students
 1987-1995 Seminars in Vascular Disease, Third- and Fourth-Year Medical Students, VA Hospital
 1987-1995 Lectures in “Non-Invasive Diagnosis of Vascular Disease”, Vascular Technologies
 1990-1991 Introduction to Clinical Medicine, Second-Year Medical Students

Teaching Responsibilities – University Of California, San Francisco:

TYPE	ACTIVITY	SETTING	#/TYPE OF TRAINEES	2003-2004	2004-2005	2005-2006
Clinical	Surgery 110: Clinical Clerkship, General Surgery	Hospital	40 Students	320	0	0
Clinical	140.01D Advanced General Surgery (Vascular)	Hospital	2 Residents	400	400	400
Clinical	Surgery 400: Clinical Surgery-Grand Rounds, M&M Conferences	Hospital	4 G.S. Residents 2 Vasc Residents	100	100	100
Clinical	Surgery 450: Clinical Vascular Surgery, Clinics, Operating Room, Presentations, Seminars	Hospital	4 Residents (UC) 8 Residents (VA) 8 Med Students	900	900	900
Didactic	Title of Conference					
Laboratory	Surgery 150.01: Research in Surgery	HSW 16	1 Surgical Resident 2 PhD Post Doctoral Fellows 1 Post Baccalaureate Student	208	208	260
TOTAL				1928	1608	1660

Mentoring Responsibilities – University Of California, San Francisco:

TYPE	ACTIVITY	SETTING	#/TYPE OF TRAINEES	2003-2004	2004-2005	2005-2006
Mentoring	Precepting Fellows	Hospital	2 Clinical Fellows	10	10	10
Mentoring	Research Fellows	Lab	2	10	10	10
Mentoring	Junior Faculty	Hospital Lab	3 2	10	10	10
Mentoring	Graduate Students	Lab	2	10	10	10
TOTAL				40	40	40

Total Teaching Hours Per Year: **2003-2004 1,968**
 2004-2005 1,648

2005-2006 1,700

Teaching Experience – Umass Memorial Medical Center, Worcester, Massachusetts:

2007 18th Annual Frontiers in Critical Care Nursing, Lecture: “Management of Aortic Aneurysms”
2007 Third Annual Symposium: Cardiology for Primary Care “Diagnosis and Management of Peripheral Arterial Disease”
2008 Clinical and Scientific Surgery Course: Vascular Surgery III, Aneurysmal Disease

Postgraduate Courses Sponsored By Ucsf:

1995 Naffziger Postgraduate Course Lecture
1996 Postgraduate Course in Radiology
1998 Postgraduate Course in General Surgery
1998 Postgraduate Course in Cardiology
2002 Postgraduate Course in General Surgery
2002 Postgraduate Course in Vascular Surgery
2003 Postgraduate Course in Vascular Surgery
2004 Postgraduate Course in Vascular Surgery

Postdoctoral Research Fellows Supervised:

1986-1987 Thomas E. Brothers, MD, University of South Carolina
1987-1988 Timothy Kresowik, MD, University of Iowa
1989-1990 Thomas A. Whitehill, MD, University of Colorado
1989-1990 Rachel M. Prodrzik, MD
1991-1992 Thomas S. Huber, MD, University of Florida, Gainesville
1992-1993 Mohammed M. Moursi, MD, University of Arkansas
1992-1994 Rajabrata Sarkar, MD, PhD, University of California, San Francisco
1994-1995 Charles J. Stanley, MD
1995-1997 Louise K. Furukawa, MD
1998-2000 Robert Paek, MD
1998-2001 Lucy Brevetti, MD
2000-2002 David Chang, MD
2001 Gale Tang, MD
2001 Lal Yilmaz, MD
2002 Jinglian Yan, PhD
2004 Yagai Yang, PhD
2004-2005 Jinsong Wang, MD
2006-2008 Brian Park, MD
2007 Hossein Bagshahi

Visiting Clinical Fellow

10/2004-4/2005 Chiara Medini, MD, University of Ferrara, Italy

Medical Students Clinical Mentor (22 Weeks):

2001-2002 Vanja Douglas
2002-2003 Andrew Vardanian

Graduate Students Supervised:

1993-1995	Theodore H. Welling
1994-1995	Jennifer A. Zelenock
2001-2002	C. Yee
2002	David Charo
2003	Ari Hoffman

Clinical Vascular Surgery Fellows Supervised:

1988-1989	Thomas E. Brothers, MD
1990-1991	Timothy Kresowik, MD
1991-1992	Rachel M. Podrazik, MD
1992-1993	Thomas A. Whitehill, MD
1993-1994	Thomas S. Huber, MD
1994-1995	Mohammed M. Moursi, MD
1995-1996	Paul DiMuzio, MD
1996-1997	Jessie Jean Claude, MD
1997-1998	Rishad Faruqi, MD
1998-1999	Gregory L. Lukaszewicz, MD
1999-2000	Craig A. Miller, MD
1999-2001	Laura K. Pak, MD
2000-2002	Darren B. Schneider, MD
2003	Thomas Curry, MD
2002-2004	Jeffrey Cardneau, MD
2003	Jade Hiramoto, MD
2004	Nayan Sivamurthy, MD

Most Recent Significant Publications:

1. Brevetti LS, Paek R, Brady SE, Hoffman JIE, Sarkar R, **Messina LM**. Exercise-Induced Hyperemia Unmasks Regional Blood Flow Deficit in Experimental Hind Limb Ischemia. *J Surgical Research*, 98(1): 21-6, June 2001.
2. Paek, R, Brevetti LS, Chang DS, Rollins M, Brady SE, Ursell PC, Hunt TK, Sarkar R, **Messina LM**. Correlation of Direct Measurement of Muscle pO₂, Clinical Ischemia Index and Capillary Density in a Rat Model of Chronic Hind Limb Ischemia. *J Vasc Surg*, 36(1): 172-9, July 2002.
3. Brevetti LS, Chang DS, Sarkar R, **Messina LM**. The Effect of Adenoviral Titer and Instillation Pressure on Gene Transfer Efficiency to Arterial and Venous Grafts Ex-vivo. *J Vasc Surg*, 36(2): 263-70, Aug 2002.
4. Chang DS, Su H, Tang G, Brevetti LS, Sarkar R, Wang R, Kan YW, **Messina LM**. Adeno-associated Viral Vector-mediated Gene Transfer of VEGF Normalizes Skeletal Muscle Oxygen Tension and Induces Arteriogenesis in Ischemic Rat Hind Limb. *Molecular Therapy*, Vol. 7(1): 44-51, Jan 2003.
5. Brevetti LS, Chang DS, Tang GL, Sarkar R, **Messina LM**. Overexpression of Endothelial Nitric Oxide Synthase Increases Skeletal Muscle Blood Flow and Oxygenation in Severe Rat Hind Limb Ischemia. *J Vasc Surg*, 38(4): 820-826, 2003.

My role in these articles was principle investigator. I developed the overall conceptual framework of the studies and was involved at all levels including experimental design, interpretation of results, and manuscript writing and editing.

Invited Lectures:

1. Hanley FL, Grattan MI, **Messina LM**, Hoffman JIE. Coronary pressure-flow relations and resistance. *FASEB*. 1983.

2. **Messina LM**, Hanley FL, Hoffman JIE. Comparison of left main and circumflex coronary artery pressure-flow relations. FASEB. 1983.
3. **Messina LM**. Transfusion practices. The Paul A. Ebert Postgraduate Course in General Surgery. San Francisco, California. April 17-19, 1986.
4. Azakie A, Raymond RB, Thompson RW, **Messina LM**. Surgical management of subclavian vein effort thrombosis secondary to thoracic outlet compression. 10th Annual American Venous Forum, Lake Buena Vista, Florida. February 1995.
5. **Messina LM**. Gene Therapy Strategies for Treatment of Intimal Hyperplasia. International Union of Angiology. Tokyo, Japan. September 16, 1998.
6. **Messina LM**. Pararenal Aortic Aneurysms: The Future of Open Aortic Repair. NAISCVS. San Diego, California. June 1998.
7. **Messina LM**, Reilly LM, Goldstone J, Ehrenfeld WK, Stoney RJ. Middle aortic syndrome: Effectiveness and durability of complex revascularization techniques. American Surgical Association. Hot Springs, Virginia. 1986.
8. **Messina LM**. Middle aortic syndrome: Effectiveness and durability of complex revascularization techniques. Invited Lecture: Bay Area Vascular Society. 1986.
9. **Messina LM**. Recent trends in renal and mesenteric revascularization. Postgraduate Course. Vascular Surgery, American College of Surgeons. Atlanta, Georgia. 1989.
10. **Messina LM**. Renal endarterectomy through the transected aorta: A new technique for combined aortorenal atherosclerosis – A preliminary report. Society for Vascular Surgery. New York, New York, 1989.
11. **Messina LM**. Arteriolar reactivity and pattern of revascularization within regenerating microcirculation of the anterior tibialis of the hamster. First Annual Department of Surgery Research Conference. University of Michigan Towsley Center. Ann Arbor, Michigan. 1989.
12. **Messina LM**. In vivo assessment of microvascular injury after reperfusion of ischemic tibialis anterior of the hamster. American Heart Association of Michigan. 1989.
13. **Messina LM**. In vivo assessment of microvascular injury after reperfusion of ischemic tibialis anterior of the hamster. Association for Academic Surgery. Louisville, Kentucky. 1989.
14. Williams DM, Andrews JC, **Messina LM**. Mesenteric ischemia in aortic dissection: A new mechanism. American Roentgen Ray Society 1989 Annual Meeting. New Orleans, Louisiana. 1989.
15. Sarpa MS, Greenfield LJ, **Messina LM**. Significance of a negative duplex scan in patients suspected of having acute deep venous thrombosis of the lower extremity. Society of Vascular Technology. New York, New York. 1989.
16. **Messina LM**, Zelenock GB, Yao KA, Stanley JC. Renal revascularization for recurrent pulmonary edema in patients with poorly controlled hypertension and azotemia: A distinct subgroup of patients with renal artery occlusive disease. Read before the 39th Annual Meeting of the International Society for Cardiovascular Surgery. Boston, Massachusetts. 1991.
17. Mulholland MW, Sarpa MS, DeValle J, **Messina LM**. Splanchnic and cerebral vasodilatory effects of calcitonin gene-related peptide 1 in humans. Read before the American Surgical Association. Boca Raton, Florida. 1991.
18. Whitehill TA, Podrazik RM, Ekhterae D, **Messina LM**, Stanley JC. Retroviral-mediated human tPA gene transfer in canine endothelial cells: Comparative effects of protamine and polybrene on cellular transduction and gene expression. American College of Surgeons, Forum Session. New Orleans, Louisiana. 1992.
19. **Messina LM**, Greenfield LJ. Natural history of free-floating thrombi. Invited Lecture: Non-Invasive Vascular Diagnosis Symposium. San Diego, California. 1992.
20. **Messina LM**, Greenfield LJ. Significance of a negative venous duplex scan. Invited Lecture: Non-Invasive Vascular Diagnosis Symposium. San Diego, California. 1992.
21. **Messina LM**, Podrazik RM, Whitehill TA, Ekhterae D, Wilson JM, Burkel WE, Stanley JC. Spontaneous adhesion and incorporation of lac-Z transduced endothelial cells into the intact capillary wall in the rat. Michigan Vascular Society. Livonia, Michigan. 1992.
22. **Messina LM**, Stanley JC. Potential usefulness of genetically modified vascular cells. Invited Lecture: Cardiovascular Science and Technology Conference (Association for the Advancement of Medical Instrumentation and the National Heart, Lung and Blood Institute, National Institutes of Health). Bethesda, Maryland. 1992.
23. **Messina LM**, Stanley, JC. Renal revascularization for recurrent pulmonary edema in poorly controlled hypertensive anemia patients. Invited Lecture: Annual Symposium on Current Critical

- Problems and New Horizons in Vascular Surgery (Albert Einstein College of Medicine). New York, New York. 1992.
24. Podrazik RM, Whitehill TA, Ekhterae D, Williams WD, **Messina LM**, Stanley JC. High-level expression of recombinant human tPA in cultivated canine endothelial cells under varying conditions of retroviral gene transfer. Read before the American Surgical Association. Palm Springs, California. 1992.
 25. **Messina LM**. Carotid endarterectomy. Invited commentary on Carotid Disease: When and How to Investigate and Treat. Consultant, Cliggot Publishing. 1993.
 26. **Messina LM**. Current status of carotid endarterectomy. St. Joseph Mercy Hospital. Ann Arbor, Michigan. 1993.
 27. **Messina LM**. Current Status of Noninvasive Diagnosis of Cerebrovascular Disease. Invited Lecture: Holy Cross Hospital Vascular Symposium. Detroit, Michigan. 1993.
 28. **Messina LM**. Intensive Care Medicine, 2nd Edition. Invited Commentary, J Vasc Surg 18:145. 1993.
 29. **Messina LM**. Risk factors for the neurological complications associated with aortic aneurysms. Invited Commentary, J Vasc Surg 18:1085-1086. 1993.
 30. Podrazik RM, Whitehill TA, Komorowski TA, Karo H, **Messina LM**, Stanley JC. In vivo fate of lac-Z transduced endothelial cells seeded onto ePTFE thoracoabdominal vascular prosthesis in dogs. Surgical Forum, American College of Surgery. San Francisco, California. 1993.
 31. **Messina LM**. Thrombus regression in deep venous thrombosis. Invited Commentary, J Vasc Surg 18:1085.1993.
 32. Welling TH, **Messina LM**, Stanley JC. Exogenous human recombinant tissue plasminogen activator increases canine endothelial cell proliferation in vitro. Moses Gunn Annual Research Conference. University of Michigan. Ann Arbor, Michigan. 1993.
 33. **Messina LM**. Clinical significance of routine imaging of iliac and calf veins by color flow duplex scanning in patients suspected of having acute deep vein thrombosis. Abstract, Yearbook of Ultrasound (4) US 34. 1994.
 34. Moursi MM, Beebe HG, **Messina LM**, Welling TH, Stanley JC. Inhibition of aortic aneurysm development in blotchy mice by beta-adrenergic blockade independent of altered lysyl oxidase activity. Presented at the 18th Annual meeting of the Midwestern Vascular Surgical Society. Cincinnati, Ohio. September 23, 1994.
 35. Sarkar R, Webb RC, **Messina LM**, Stanley JC. Intracellular mechanism and cell cycle effects of nitric oxide inhibition of vascular smooth muscle mitogenesis. Read before the Surgical Forum of the American College of Surgeons. Chicago, Illinois. October 15, 1994.
 36. **Messina LM**, Stanley JC, Prince MW. Magnetic resonance angiography of the renal arteries. Northwestern University Postgraduate Course in Vascular Surgery. Chicago, Illinois. December 1995.
 37. Welling T, Davidson B, Gordon D, Roessler B, Stanley J, **Messina LM**. Pharmacologic serum levels of IL-1 receptor antagonist using adenoviral gene transfer to isolated skeletal muscle microcirculation in rats. Invited Presentation University of Michigan Department of Surgery Research Day. Ann Arbor, Michigan. May, 1995.
 38. Welling T, Davidson B, Gordon D, Roessler B, Stanley JC, **Messina LM**. Pharmacologic serum levels of IL-1 receptor antagonist using adenoviral gene transfer to isolated skeletal muscle microcirculation in rats. Poster FASEB. Atlanta, Georgia. April 11, 1995.
 39. Welling TH, Jin C, Zelenock JA, Sarkar R, Stanley CJ, Roessler BJ, Jones TR, **Messina LM**. Retroviral-mediated transfer of the H-CMV US11 gene down – regulates constitutive MHC Class-1 expression on human endothelial cells. Read before the Association of Academic Surgery. Dearborn, Michigan. November 1995.
 40. Zelenock J, Welling T, Sarkar R, **Messina LM**. Improved retroviral transduction efficiency of vascular cells using increased viral titers by centrifugation. Poster FASEB. Atlanta, Georgia. April 10, 1995.
 41. **Messina LM**. Endothelial cells for systemic and local gene therapy. Research Initiatives in Vascular Disease. Vascular Gene Transfer: Models of Disease and Therapy. Bethesda, Maryland. March 7, 1996.
 42. Mith WS, **Messina LM**. Medical and surgical approaches to carotid artery disease. Presented at the Annual Review in Family Medicine: Controversies and Challenges in Primary Care. San Francisco, California. March 20-22, 1996.

43. **Messina LM.** Endovascular repair of abdominal aortic aneurysms. Postgraduate Course in General Surgery. University of California, San Francisco School of Medicine, San Francisco, California. April 25-27, 1996.
44. **Messina LM.** An alternative approach for the management of infected aortic graft. Discussant at the Joint Annual Meeting of the Society for Vascular Surgery and the International Society for Cardiovascular Surgery. Chicago, Illinois. June 9-12, 1996.
45. **Messina LM.** Current concepts in abdominal aneurysms. Grand Rounds. John Muir Hospital, Walnut Creek, California. September 20, 1996.
46. **Messina LM.** Cerebrovascular Disease: Surgical perspective. Vascular Ultrasound: State of the Art Postgraduate Course. University of California, San Francisco, Department of Radiology. October 5, 1996.
47. **Messina LM.** Gene therapy targeted to the vessels. 82nd Annual Clinical Congress of the American College of Surgeons Postgraduate Course. San Francisco, California. October 7, 1996.
48. **Messina LM.** Anatomic and Functional Studies of Renal Artery Disease and Panel Discussion Moderator. Postgraduate Course: Contemporary Management of Renal Artery Occlusive Disease. Boston, Massachusetts. December 2-4, 1996.
49. **Messina LM.** Is renal revascularization indicated for the preservation of renal function? Progress in angioscopy 1996: Endovascular surgery and interventional techniques. Harvard Medical School, Boston, Massachusetts. December 2-4, 1996.
50. Azakie A, Raven RB, Thompson RW, **Messina LM**, Stoney RJ. Surgical management of subclavian vein effort thrombosis secondary to thoracic outlet compression. 10th Annual Meeting, The American Venous Forum. February 18-21, 1997.
51. Furukawa L, **Messina LM.** Effect of ICP-47 on Inducible and Constitutive Class I Expression on Northern California Vascular Surgery Society Meeting at FASEB Vascular Biology's Meeting. New Orleans, Louisiana. April 1997.

52. **Messina LM.** Current Management of Carotid Artery Stenosis. Salinas Valley Memorial Hospital, Salinas, California. April 29, 1997.
53. **Messina LM.** Diagnosis and Management of Renal Artery Disease. CME Lecture. Queen of the Valley Hospital, Napa, California. October 3, 1997.
54. **Messina LM.** Postgraduate Course: "Gadolinium-Enhanced Magnetic Resonance Angiography." American College of Surgeons 83rd Annual Clinical Congress. Chicago, Illinois. October 12-17, 1997.
55. **Messina LM.** Gene Therapy for Vascular Disease. San Francisco Surgical Society, San Francisco, California. November 1997.
56. Stoney RJ, Chuter TAM, **Messina LM.** Reduced access (Aortoport) facilitates less invasive aortic reconstruction. Montefiore Medical Center Annual Postgraduate Course in Vascular Surgery. New York, New York. November 1997.
57. **Messina LM.** Overview of Vascular Surgery. California College of Podiatric Medicine. San Francisco, California. November 17 & 21, 1997.
58. **Messina LM.** Technical Aids and Exposure in the Proximal Abdominal Aorta. Northwestern University, Chicago, Illinois. December 1997.
59. Mitsui H, Furukawa LK, **Messina LM**, Ramos TK. Site-Specific Adenovirus-Mediated Gene Transfer into the Mouse Carotid Artery. The Society of University Surgeons 59th Annual Meeting. February 12-14, 1998.
60. **Messina LM.** Diagnosis and Management of Renal Artery Disease. Grand Rounds. St. Helena Hospital of Deer Park, Deer Park, California. February 26, 1998.
61. Azakie A, McElhinney DB, **Messina LM**, Stoney RJ. Three Decades of Progress with Innominate Artery Revascularization. American Surgical Association. April 15-17, 1998.
62. Azakie A, Raymond RB, Thompson RW, **Messina LM.** Surgical Management of Subclavian Vein Effort Thrombosis Secondary to Thoracic Outlet Compression. 10th Annual American Venous Forum. Lake Buena Vista, Florida. February 1998.
63. **Messina LM.** "Deep Vein Thrombosis: When to Use Inferior Vena Cava Filters." In Consultant 38:9: 8079. September 1998.
64. **Messina LM.** Chronic Mesenteric Ischemia: 1998 Postgraduate Course in General Surgery. University of California, San Francisco, California. April 23-25, 1998.

65. Jean-Claude JM, Reilly LM, Stoney RJ, **Messina LM**. Pararenal Aortic Aneurysms: The Future of Open Aortic Repair. NAISCVS, San Diego, California. June 1998.
66. Azakie A, McElhinney DB, **Messina LM**, Stoney RJ. Innominate Artery Revascularization, NA-ISCVS/SVS. San Diego, California. June 1998.
67. **Messina LM**. Mesenteric/Renal Revascularization. Vascular Surgery Update. University of California, San Francisco, California. August 4, 1999.
68. Schneider DB, Nelken NA, **Messina LM**, Ehrenfeld WK. Isolated inferior mesenteric artery revascularization for chronic visceral ischemia. Western Vascular Society's 13th Annual Meeting. Whistler, British Columbia. September 10-13, 1998.
69. **Messina LM**. Gene Therapy Strategies for Treatment of Intimal Hyperplasia. International Union of Angiology. Tokyo, Japan. September 16, 1998.
70. **Messina LM**. Peripheral Vascular Disease, Update in Cardiology: A Board Course Review. University of California, San Francisco, California. September 18, 1998.
71. **Messina LM**. Overview of Vascular Surgery. California College of Podiatric Medicine, San Francisco, California. November 9 & 13, 1998.
72. **Messina LM**. Peripheral Vascular Disease, Diabetes Update: Advances in Endocrinology and Metabolism: A Board Course Review. University of California, San Francisco, California. March 1999.
73. **Messina LM**. Percutaneous transluminal revascularization for renal stenosis. Seattle VAMC Experience. Western Vascular Society. Principle Discussant. Lake Tahoe, California. September 1999.

74. **Messina LM**. Pararenal Abdominal Aortic Aneurysms: The Future of Open Repair. ACS 85th Annual Clinical Congress. San Francisco, California. October 11, 1999.
75. Weaver FA, Zatina M, Payner T, Mehmet CO, **Messina LM**, et al. Gelatin thrombin-based hemostatic sealant (FloSeal Matrix) for troublesome intraoperative bleeding: A prospective, randomized, multicenter study. ACS 85th Annual Clinical Congress. San Francisco, California. October 12, 1999.
76. **Messina LM**. Gene Therapy for Critical Limb Ischemia. University of Utah. March 15, 2000.
77. **Messina LM**. Conservative Management of Renal Artery Stenosis: Is there a role? 22nd Annual Northern California Vascular Society Symposium. San Francisco, California. May 12, 2000.
78. **Messina LM**. Moderator for Arterial Graft Infection. The Society of Vascular Surgery. Toronto, Ontario, Canada. June 10, 2000.
79. **Messina LM**. Pararenal Aortic Aneurysms: The Future of Open Repair. 2nd Mayo Vascular Symposium. Rochester, Minnesota. September 8, 2000.
80. **Messina LM**. Current Concepts in Management of Abdominal Aortic Aneurysms. Fresno Medical Education Program. University of California, San Francisco, California. September 13, 2000.
81. Sarkar R, Paek R, Brevetti L, Brady SM, **Messina LM**. Gene transfer and expression of nitric oxide synthase in experimental hind limb ischemia. The Frederick A. Collier Surgical Society's Annual Meeting. Ann Arbor, Michigan. October 19-22, 2000.
82. **Messina LM**. Peripheral Vascular Occlusive Disease. California College of Podiatric Medicine. San Francisco, California. November 20, 2000.
83. Brevetti LS, Sarkar R, Chang, DS, Paek R, **Messina LM**. William J. von Leibig Foundation Award Paper: Administration of Adenoviral Vectors Induces Gangrene in Acutely Ischemic Rat Hind limbs: Role of Caspid Protein-Induced Inflammation. The Southern Association for Vascular Surgery's 25th Annual Meeting. Rio Grande, Puerto Rico. January 24-27, 2001.
84. **Messina LM**. Therapeutic Angiogenesis for Limb Ischemia. 10th International Symposium on Recent Advances in Drug Delivery Systems. Salt Lake City, Utah. February 20, 2001.
85. Wilson SE, Lederle FA, Johnson GR, Acher GW, Littooy FN, **Messina LM**. Predictive Factors for Mortality, Morbidity and Long-Term Survival After Abdominal Aortic Aneurysm Repair. American Surgical Association 121st Annual Meeting. Colorado Springs, Colorado. April 26, 2001.
86. **Messina LM**. Renal Artery Aneurysms: A 35-year clinical experience with 252 aneurysms in 168 patients. Invited Discussant. American Surgical Association 121st Annual Meeting. Colorado Springs, Colorado. April 26-28, 2001.
87. Brevetti LS, Chang DS, Ma M, Sarkar R, **Messina LM**. Nitric oxide gene transfer increases skeletal muscle blood flow and oxygen concentration in an experimental model of rat hind limb

- ischemia. Society for Vascular Surgery/American Association for Vascular Surgery. 2001 Joint Annual Meeting. Baltimore, Maryland. June 9-13, 2001.
88. Caps MT, Zierler ER, Cantwell-Gab K, Polissar NL, Bergelin RO, Strandness, Jr. ED, **Messina LM**. The risk of end-stage renal disease associated with atherosclerotic renal artery stenosis. Invited Commentary. Western Vascular Surgical Society's 16th Annual Meeting. Sante Fe, New Mexico. September 23-26, 2001.
 89. **Messina LM**. The risk of end-stage renal disease associated with atherosclerotic renal artery stenosis. Invited Discussant. Western Vascular Surgical Society 16th Annual Meeting. Sante Fe, New Mexico. September 23-26, 2001.
 90. Schneider DB, Lin SC, LaBerge JM, Okuhn SP, Eichler CM, Flachsbart K, **Messina LM**, Grey DP. Combined Carotid Endarterectomy and Coronary Bypass: A contemporary Analysis. Western Vascular Surgical Society 16th Annual Meeting. Sante Fe, New Mexico. September 23-26, 2001.
 91. **Messina LM**. Nitric oxide synthase inhibition in vitro is associated with increased nuclear factor- κ B activity in rat aortic smooth muscle cells. Invited Discussant. American College of Surgeons 87th Annual Clinical Congress. New Orleans, Louisiana. October 7-12, 2001.
 92. **Messina LM**. The future of tissue and fluid bioengineering. Health Technology Expert Panel Member. Hosted by Interaction Associates. San Francisco, California. November 30-December 1, 2001.
 93. **Messina LM**. Supraclavicular Repair for Thoracic Outlet Syndrome. Invited Presentation. Northwestern University Medical School Vascular Surgery 2001. December 13-15, 2001.
 94. **Messina LM**. Gene Therapy for Critical Limb Ischemia. The Western Pennsylvania Hospital's Department of Surgery Grand Rounds. February 6, 2002.
 95. Chang DS, Su H, Tang G, Yee KC, Sarkar R, Kan YW, **Messina LM**. Adeno-Associated Virus-Mediated Gene Transfer of Vascular Endothelial Growth Factor Increases Collateral Artery Formation and Tissue Oxygen Concentration in Rat Hind limb Ischemia. University of California San Francisco Department of Surgery's 15th Annual Resident Research Symposium. March 7, 2002.
 96. **Messina LM**. Moderator. Advances in Cerebrovascular Disease. University of California San Francisco-Stanford Vascular Symposium. April 4, 2002.
 97. **Messina LM**. Moderator. Advances in Vascular Surgery and Training. Jack Wylie: A Commitment to Excellence. The Wylie Symposium.
 98. **Messina LM**. Advances in Vascular Surgery and Training, The Pararenal Aortic Aneurysm Remains a Surgical Lesion, Training the Vascular Surgeon/Interventionist for the Future. The University of California San Francisco Paradigm. The University of California San Francisco-Stanford Vascular Symposium. San Francisco, California. April 4-6, 2002.
 99. **Messina LM**. A New Training Paradigm in Vascular Surgery. University of California San Francisco Postgraduate Course in General Surgery. San Francisco, California. April 13, 2002.
 100. **Messina LM**. Overall Moderator. Therapeutic Angiogenesis for Limb Ischemia. Research Initiatives Conference in Vascular Disease. Bethesda, Maryland. April 18-19, 2002.
 101. **Messina LM**. "eNos Overexpression Induces Arteriogenesis and Normalizes Blood Flow in Rat Model of Critical Limb Ischemia." 2002 Joan L. & Julius H. Jacobson Research Initiatives in Vascular Disease Conference. Bethesda, Maryland. April 18-19, 2002.
 102. **Messina LM**. Overall Moderator. Therapeutic Angiogenesis for Limb Ischemia. Research Initiatives Conference in Vascular Disease. Bethesda, Maryland. April 18-19, 2002.
 103. **Messina LM**. Thoracoabdominal aneurysm repair: results with 337 operations performed over a 15-year interval. 122nd Annual Meeting of the American Surgical Association. Invited Commentary. Hot Springs, Virginia. April 25-27, 2002.
 104. **Messina LM**. Gene Therapy for Cardiovascular Disease. Surgery for the 21st Century: A Symposium Honoring Dr. Lazar Greenfield. University of Michigan Medical School. Ann Arbor, Michigan. May 2, 2002.
 105. **Messina LM**. Integrated Fellowship in Vascular Surgery and Interventional Radiology: A New Paradigm in Vascular Surgery Training. 122nd Annual Meeting of the American Surgical Association. Hot Springs, Virginia. April 25-27, 2002.
 106. Chang DS, Hua S, Tang G, Yee KC, Sarkar R, Kan YW, **Messina LM**. Adeno-associated virus-mediated gene transfer of vascular endothelial growth factor increases collateral artery formation and tissue oxygen concentration in rat hind limb ischemia. 2002 Joint Annual Meeting of The American Association for Vascular Surgery and The Society for Vascular Surgery. Boston, Massachusetts. June 9-12, 2002.

107. **Messina LM.** Nitric oxide gene transfer increases blood flow and muscle oxygen in experimental hind limb ischemia. Berlex Laboratories. Richmond, California. August 26, 2002.
108. Tang GL, Chang DS, Wang R, **Messina LM.** Effect of Gradual Versus Acute Arterial Occlusion on Skeletal Muscle Inflammation, Oxygen Tension, and Blood Flow in Rat Hind Limb Ischemia. 17th Annual Meeting of the Western Vascular Society. Newport Beach, California. September 22-25, 2002.
109. Abraham CZ, Reilly LM, Curry TC, Chuter TAM, Schneider DB, **Messina LM.** Is cross-femoral bypass a disadvantage of aortomonoiliac endovascular aortic aneurysm repair? Invited Commentary. 17th Annual Meeting of the Western Vascular Society. Newport Beach, California. September 22-25, 2002.
110. **Messina LM.** What does it really cost: endovascular versus open AAA repair? Invited Commentary. 17th Annual Meeting of the Western Vascular Society. Newport Beach, California. September 22-25, 2002.
111. **Messina LM** (Invited Discussant), Curi MA, Huang W, Woo DH, Skelly C, Roizman B, Weichselbaum R, Glagov S, Schwartz L. Brief Intraluminal Exposure to Attenuated Herpes Simplex Virus 1 Alters Arterial Remodeling Response to Extremely Low Shear Stress. Invited Commentary. The American College of Surgeons' 88th Clinical Congress. San Francisco, California. October 6-10, 2002.
112. **Messina LM.** Juxtarenal and Paravisceral Aortic Aneurysms. The American College of Surgeons' 88th Clinical Congress. San Francisco, California. October 6-10, 2002.
113. **Messina LM.** Technical Tips that Enhance Surgical and Endovascular Outcomes. Invited Commentary. The American College of Surgeons' 88th Clinical Congress. San Francisco, California. October 6-10, 2002.
114. **Messina LM.** Skin and Wound Update: Surgical Management of Diabetic Foot Infections. Nursing Education Department, University of California San Francisco. October 18, 2002.
115. **Messina LM.** Analysis of 185 Iliac Vessel Injuries: Risk Factors and Predictors of Outcome. Invited Discussant. 74th Annual Meeting of the Pacific Coast Surgical Association. Monterey, California. February 18, 2003.
116. **Messina LM.** Moderator. Section on Angiogenesis. Joan L. and Julius H. Jacobson Lifeline Foundation Research Initiatives in Vascular Disease Conference. Bethesda, Maryland. April 3, 2003.
117. **Messina LM.** Molecular Therapy for Critical Limb Ischemia. Grand Rounds. Department of Surgery, University of California San Francisco, California. April 9, 2003.
118. **Messina LM.** Combined Percutaneous and Open Rx for Venous TOS: Technique and Results. University of California San Francisco-Stanford Vascular Symposium. San Francisco, California. May 2, 2003.
119. Charo DN, Tang G, Wang R, Charo IF, **Messina LM.** CCR2^{-/-} Mice Revascularize Normally in Response to Severe Hind Limb Ischemia. Presented at Annual Conference on Arteriosclerosis, Thrombosis and Vascular Biology. Washington, DC. May 8, 2003.
120. **Messina LM.** "The Effect of Endovascular AAA Repair and the Future of Vascular Surgery" and "Vascular Case Presentations." Invited Presentation. University of Kansas Medical Center, School of Medicine. Wichita, Kansas. September 9-10, 2003.
121. **Messina LM.** "Delayed Restoration of Perfusion and Muscle Regeneration in MCP-1 ^{-/-} Mice" by Paula K. Shireman, MD, FACS. Invited Discussant. American College of Surgeons 89th Annual Clinical Congress. October 22, 2003.
122. **Messina LM.** "Results of Surgical Treatment of Pararenal Aortic Aneurysm." Invited Presentation. Trends in Vascular Surgery. Chicago, Illinois. December 10-11, 2003.
123. **Messina LM.** "Impact of Endovascular AAA Repair on the Future of Vascular Surgery." Invited Lecture. University of Texas, Houston Medical School, Houston, Texas. December 18-19, 2003.
124. **Messina LM.** "Molecular Therapy for Critical Limb Ischemia." Invited Lecture. Northwestern University Vascular Conference. Chicago, Illinois. February 8-10, 2004.
125. **Messina LM.** "New Safe and Non-Invasive: Repairing Aortic Aneurysms." Wellness Lecture Series. University of California San Francisco, California. February 11, 2004.
126. **Messina LM.** "Molecular Therapy for Critical Limb Ischemia." "Management of Para Renal Aneurysm: Open and Endovascular Repair." Invited Lecture. Orange County Surgical Symposium. Orange County. February 19-20, 2004.

127. **Messina LM.** "Hostile Aorta." "Complications Requiring Reoperation in Vascular Surgery." Keynote Speaker. Convegno Internazionale, Il Reintervento in Chirurgia Vascolare. Ferrara, Italy. June 10-12, 2004.
128. **Messina LM.** "Current Management of Complex Aortic Disease." Visiting Professor. Wake Forest University, Winston-Salem, North Carolina. November 2-4, 2004.
129. **Messina LM.** "Current Management of Complex Aortic Disease." Visiting Professor. Dartmouth Medical School, Hanover, New Hampshire. February 23, 2005.
130. **Messina LM, Schneider DB.** "Current Management of Carotid Disease." Invited Lecture. Cardiology Grand Rounds. University of California San Francisco, California. March 2, 2005.
131. **Messina LM.** "Update on Peripheral Arterial Occlusive Disease." Invited Lecture. Harrington Hospital, Southbridge, Massachusetts. December 21, 2006.
132. **Messina LM.** "Delayed NF-kappaB Inhibition Still Provides Cardioprotection from Myocardial Ischemia and Reperfusion." Invited Participant. 93rd Annual ACS Clinical Congress – Multidisciplinary Session IV: Targeted Therapies. October 10, 2007.
133. **Messina LM** "Clinical Life and Choosing a Field" MD/PhD Annual Retreat. UMass Medical School, March 28, 2008.
134. **Messina LM** "Issues in Reviewing Basic Science Articles" 2008 Vascular Annual Meeting, San Diego, California

PEER-REVIEWED PUBLICATIONS

1. Lavigne JE, **Messina LM**, Golding MR, Kerr JC, Hobson RW, Simon KG. Fistula size and hemodynamic events within and about canine femoral arteriovenous fistulas. *J Thorac Cardiovasc Surg.* 1972; 74:551-556.
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PEER-REVIEWED PUBLICATIONS – IN PRESS:

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