

## CURRICULUM VITAE

NAME: Thomas A. Mustoe, M.D.

DATE OF BIRTH: June 29, 1951

PLACE OF BIRTH: Columbia, Missouri

MARITAL STATUS: Wife - Kathryn C. Stallcup  
Children - Anthony, born 4/29/87  
Elisabeth, born 5/3/89

SOCIAL SECURITY NUMBER: Available upon request

OFFICE ADDRESS: Northwestern University School of Medicine  
Division of Plastic and Reconstructive Surgery  
675 N. St. Clair, 19-250  
Chicago, Illinois 60611

EDUCATION: New Trier West High School, graduated 1969  
Northfield, Illinois

Harvard College  
Cambridge, Massachusetts  
1969-1973, B.A., cum laude in Biology

Harvard Medical School  
Boston, Massachusetts  
1973-1978, M.D., cum laude

GRADUATE CLINICAL AND RESEARCH EXPERIENCE: Research Associate, Department of Microbiology  
Harvard Medical School  
1976-1977, Research Advisor: Bernard N. Fields, M.D.

INTERNSHIP: Massachusetts General Hospital  
Boston, Massachusetts  
1978-1979, Medicine

RESIDENCIES: Peter Bent Brigham Hospital  
Boston, Massachusetts  
1979-1980, Surgery

Massachusetts Eye and Ear Infirmary  
Boston, Massachusetts  
1980-1983, Otolaryngology; Chief Resident 1982-1983

Brigham and Women's Hospital and Children's Hospital  
Boston, Massachusetts  
1983-1984, Plastic Surgery; Chief Resident, 1984-1985

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PREVIOUS ACADEMIC APPOINTMENTS:

Teacher, High School Biology  
1972-1973 (while a senior at Harvard College)

Washington University School of Medicine  
St. Louis, Missouri  
Assistant Professor of Surgery (Plastic and Reconstructive), 1985-1989  
Associate Professor of Surgery (Plastic and Reconstructive), 1989-1991

CURRENT ACADEMIC APPOINTMENTS:

Northwestern University Medical School  
Professor of Surgery, July 1991 to present  
Chief, Division of Plastic and Reconstructive Surgery, July 1991 to present

HOSPITAL APPOINTMENTS:

Northwestern Memorial Hospital, July 1991 to present; Chief of Plastic Surgery 1991 -  
Evanston Hospital, July 1991 to present; Chief of Plastic Surgery 1996-2000  
Children's Memorial Hospital, February 1992 to present  
Shriners Hospital of Chicago, January 1994 to present

LICENSURE:

Missouri, 1985, R9E43  
Illinois, 1991, 036-08-2162

CERTIFICATION:

American Board of Otolaryngology, 1983  
American Board of Plastic Surgery, 1987

MEDICAL AND ACADEMIC SOCIETIES:

Aesculapian Club, Harvard Medical School  
American Medical Association  
Massachusetts Medical Society, 1983-1990  
Missouri State Medical Society, 1985-1990

American College of Surgeons, Fellow

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Surgical Biology Club III, American College of Surgeons  
American Society of Plastic and Reconstructive Surgery  
Plastic Surgery Research Council  
St. Louis Metropolitan Medical Society, 1985-1991  
St. Louis Surgical Society, 1985-1991  
Sigma Xi, The Scientific Research Society  
Society of Head and Neck Surgeons  
Society of University Surgeons  
Wound Healing Society  
Association of Academic Chairman Plastic Surgery  
Midwest Association of Plastic Surgeons  
Chicago Plastic Surgical Society  
Chicago Surgical Society  
Double Boarded Society  
American Association of Plastic Surgery  
Lipoplasty Society of North America  
European Tissue Repair Society

HONORS AND AWARDS:

Harvard National Scholarship, 1969-1973  
Varsity Letter Basketball, Harvard College, 1970-1973  
Rhodes Scholar Candidate, Harvard College, 1973  
Co-Chairman, Boylston Medical Society, Harvard Medical School, 1977  
Soma Weiss Award, for undergraduate research, Harvard Medical School, 1978  
Co-Chairman, Gordon Research Conference, 1995  
Who's Who in American Medicine and Health Care, 1995-  
The Best Doctors in America, 1<sup>st</sup> Edition, 1992, 2<sup>nd</sup> Edition, 1994, 3<sup>d</sup> Edition, 1996, 4<sup>th</sup>  
Edition, 1998, 2004, 2006, 2007  
The Best Doctors in America: Midwest Region, 1996-, all editions to present  
Who's Who in America, 1996-  
Who's Who in the World 2000-  
Am. Soc. Plastic Surgery Media Spokesperson 1998-  
Top Chicago Doctors, Chicago Magazine: 1998, 2001, 2004, 2006, 2007, 2008  
Guide to Top Doctors 2002, 2004, 2006 [www.GuideToTopDoctors.org](http://www.GuideToTopDoctors.org) Center for the  
Study of Services, Washington DC  
Guide to America's Top Physicians, Consumers Research Council of America 2003-7  
America's Top Doctors. The Best in American Medicine. A Castle Connolly Guide  
2002, 2003, 2004, 2005, 2006, 2007

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Wound Healing Society. Lifetime Achievement Award Awarded, May, 2004.  
Board of Directors, American Board of Plastic Surgery, 2006-2012

COMMITTEE APPOINTMENTS:

UNIVERSITY:

Washington University

Cancer Committee, Barnes Hospital, 1985-1990

Cancer Committee, Jewish Hospital, 1986-1988

Faculty Senate Council, Washington University, 1990

Barnes Hospital Liaison Fellow to the American College of Surgeons Cancer  
Commission, 1985-1987

Clinical Services Committee, Washington University Medical Center Cancer Center;  
Chairman, Clinical Subcommittee, 1987

Northwestern University

Surgery Executive Committee, Northwestern University, 1991-present

Medical School Curriculum Committee Interdisciplinary Teaching Group:  
Mechanisms of Disease, 1991-1992

Medical School Research Space Allocation Committee, 1992-1995

Committee Promotion & Tenure, Department of Surgery, 1994-

Research Committee, Department of Surgery, 1994-

University Committee for External Review, Department of Medicine, 1995

Chairman, Promotion and Tenure Committee, Dept. of Surgery, 1996-present

Medical School LCME, self-study report on Governance / Administrative, 1996.

Medical School Council for Research, 1999-2001

Chair, ad hoc Committee for Surgical Professor Candidate, 1999

Search Committee, Chair of Dermatology, 2000

Chair, ad hoc Committee for Gastroenterology Professor Candidate, 2001

Chair, Search Committee for Chief of Transplantation, 2003

Chair, ad hoc Committee for Infectious Disease Professor Candidate, 2008

HOSPITAL:

Northwestern Memorial Hospital

Cancer Committee, Northwestern Memorial Hospital, 1991-1999

Surgical Chiefs and Chairmen, Northwestern Memorial Hospital, 1991-present

Evanston Hospital

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Operating Room Committee 1996-1998

Northwestern Medical Faculty Foundation

Ambulatory Care Committee, Northwestern Medical Faculty Foundation, 1992

Ad Hoc Compensation Committee, 1993,

At Large Member, Board of Directors, 1993 - 1996

Ad Hoc Compensation Committee, 1995 – 1996, 1998

Risk Management Committee, 1994-1995

Finance Committee, 1995-1996

NATIONAL:

American Board of Plastic Surgery Board Member 2006-

American Society Plastic and Reconstructive Surgery

Research Fund Proposal Committee, Plastic Surgery Education Foundation, 1987-1992

Scientific Program Committee, 1993-1995

Co-Chairman, General Reconstruction Subcommittee, Scientific Program Committee 1995

Plastic Surgery Educational Foundation Maxillofacial Subcommittee Examiner for In-Service Exam, National Board of Medical Examiners, 1988, 1989

Plastic Surgery Device Committee, 1989-1993

Resource Book for Plastic Surgery Residents Committee, 1991-1993

Chairman, Resource Book Committee, 1993-1994

Socioeconomic Committee, 1992-1994

Chairman, Device and Technique Assessment Committee, 1994 - 1996

Domestic Clinical Symposia Committee, Plastic Surgery Educational Foundation, 1992-1995

Educational Technology Committee, 1994 - 1995

Advisory Implant Group, 1994 - 1996

Task Force For Outcomes & Guidelines, 1995 - 1997

Ultrasonic Liposuction Task Force, PSEF Representative, 1995 - 1997

Regulatory Device Committee, 1995 - 1996

Regulatory Evaluation Committee, PSEF DATA Committee Rep., 1995-1997

Guidelines Committee, 1995- 1996

Medical Effectiveness Research Committee, 1994-1998

PRS Publication Committee, 1997,8

Membership Committee, 1997-2000

Instructional Course Committee, 1997, 1998

Task Force on Surgery in General Exam, 1998

Research Fellowship Committee, 1998-2000

Chair, Instructional Course Committee, 1999-2002

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Marketing Committee, 1999-2001

Exhibits Committee, 1999-2001

Scientific Program Committee, 1999-2001

Task Force, Emerging Trends, 1999-

Convention Policy Committee 2000-3

Nominating Committee 2000

2003: Chair

ASPS: Ancillary Program Work Group of the Annual Meeting Council

ASPS: Scientific Program Evaluation Committee

Member

ASPS: Policy and Strategic Development Work Group of the Annual Meeting Council

ASPS: Scientific Program Work Group of the Annual Meeting Council

PSEF: Honors Committee

Vice Chair

ASPS: Scientific Program Committee

2004: Chair, Scientific Program Committee (Program Chair for the Annual Meeting)

Member, Annual Meeting Council

2005-7 Chair, Scientific Program Committee (Program Chair for the Annual Meeting)

2008 Chair, Annual Meeting Council

#### Society of Head and Neck Surgeons

Membership Committee, 1993-1995

#### Plastic Surgery Research Council

Plastic Surgery Research Council Committee on Industrial Relations, 1992

Judge, Plastic Surgery Research Council Snyder and Crikelair Awards, May Meeting, 1991

Plastic Surgery Research Council Representative to the Council of Academic Surgeons 11/91-11/94

Program Committee, Plastic Surgery, Research Council, 1992, 1993, 1995, 1996, 1997

#### Wound Healing Society

Audit Committee, Wound Healing Society, 1992

Program Committee, Wound Healing Society, 1990, 1992, 1994

Board of Directors, Wound Healing Society 1993-2001

Finance Committee, Wound Healing Society, 1994-1996

Chair, Govt Relations Committee, 1996-7

Co-Chair Scientific Program Committee, 1997

President-elect, Wound Healing Society, 1996-1997

President, Wound Healing Society, 1997-9

Vice President, Wound Healing Society, 1999-2001

Board Member, Wound Healing Foundation, 2000-5

Board of Directors Wound Healing Society, 2006-9

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American Association of Plastic Surgery

Research and Education Committee, 1994

Chairman, Research and Education Committee, 1995-1996

Communications Committee, 1997-8

Research and Education Committee, 1998, 2001-3. Co-Chairman, 1999

Local Arrangements Committee: 2003-4

American College of Surgeons

Committee for the Forum on Fundamental Surgical Problems (Plastic and Reconstructive Surgery Representative 1999-2005).

Lipoplasty Society of North America

Lipoplasty Education Research Foundation 1998-2000

Association of Academic Chairmen of Plastic Surgery

Executive Committee 2001-2

Nominating Committee 2003

Aesthetic Society Education and Research Foundation

Scientific Research Committee 2002-

Innovative Procedures Committee 2001-

Other

Special Consultant to the Federal Drug Administration (Division of Biologics), 1994-2007

Consultant to the Dermatologics Advisory Panel Regarding Standards for Wound Healing Protocols and Approval of PDGF for Diabetic Ulcers, July, 1997

Program Committee, 4th Symposium on Advanced Wound Care, 1990

President, Double Boarded Society, 1994-1998

Assoc. Academic Chairman Plastic Surgery: Matching Program and Central Application Service Committee, 1994

Skin Diseases Interagency Coordinating Committee of NIH-FDA Venous Stasis Ulcer Panel 1996-7

Secretary, Chicago Plastic Surgery Society, 1997

Special Consultant to the Federal Drug Administration (Biologics), Scientific Panel on Dermatologics and Ophthalmologics July 14-15, 1997 re PDGF, and Standards for Chronic Wounds

Special Consultant to the FDA (Devices) Scientific Panel on General and Reconstructive Devices RE: Dermagraft for Diabetic Ulcers, and Appligraf Graftskin for Venous Ulcers January, 1999

National Institutes of Health (NCI) Breast Implants Study Scientific Advisory Panel 1998-2003

American Board of Plastic Surgery, Invited Guest Examiner. Oxal Examinations, 1996, 1997,

JPRAS 60: 64-72, 2007.

1998, 1999, Senior Guest Examiner 2000, 2001

American Board of Plastic Surgery, Question Writer, and Nominee to the Board, 1999, 2000

Advisory Council for Plastic and Maxillofacial Surgery 2000-2005

American Board of Plastic Surgery, Question Writer and Nominee to the Board, 2004, 2005

EDITORIAL BOARDS:

Wound Repair and Regeneration 1992 -

Archives of Surgery 1993 -2003

Editorial Review Group Chair, Plastic Surgery; Doody's Health Science Book 1993-2003

Plastic and Reconstructive Surgery 1994 -2000

Video Journal of Plastic Surgery Surgery 1997-1999

Journal of Surgical Research 1997-2006

Recognition for Outstanding Reviewer, 1999

Angiogenesis 1998-

Seminars in Plastic Surgery 2001-2003

Plastic Reconstructive Surgery 2003 -2008

Journal American College of Surgery, 2003-

REVIEWER:

Book Reviews: Plastic and Reconstructive Surgery

Articles: Surgery

Journal of Cardiothoracic Surgery

World Journal of Surgery

American Journal of Pathology

Plastic and Reconstructive Surgery

Archives of Dermatology

New England Journal of Medicine

Laryngoscope

Annals Plastic Surgery

JAMA

Journal Surgical Research

Journal Clinical Investigation

Journal of American College of Surgeons

Cancer

Archives of Surgery

Wound Repair and Regeneration

Proceedings of the National Academy of Science

Journal of Biological Chemistry

Diabetes Care

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Aesthetic Surgery Journal

Annals of Surgery

Aesthetic Plastic Surgery

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Journal of Pathology

Journal of Investigative Dermatology

Nature and Medicine

Diabetology

Laboratory Investigation

Grant Reviews:

Veterans Administration Merit Reviewer, Ad Hoc 1990-2000 (multiple grants)

Special Reviewer: National Institute of Health Program Project

Grant, UCSF Medical School, 1990

March of Dimes, 1990

NIH Surgery Anesthesia Trauma Study Section Ad Hoc Reviewer, 1995

Wellcome Foundation 1995, 1997

Spinal Cord Paralysis Foundation

Jewish Hospital Foundation, Louisville, Kentucky

NIH Surgery Anesthesia Trauma Study Section Ad Hoc Reviewer, 2000;

Smile Train/Plastic Surgery Educational Foundation Cleft Lip/ Palate Grants, 2001

Research Into Aging Foundation; London, England, 2001

Ad Hoc Reviewer: NIH General Medical Sciences Post Doctoral Training Grant, 2002

Ad Hoc Reviewer, NIH Special Study Section on Skin, 2006

Ad Hoc Reviewer, NIH/NIAID Special Emphasis Panel, March 13, 2007: Partnerships to Improve Diagnosis and Treatment of Selected Drug Resistant Healthcare-Associated Infections

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GRANTS: (Direct Costs)

\$15,000 Washington University School of Medicine  
Biomedical Research Support Grant  
1986

\$115,000, Amgen Corporation  
Study of Growth Factors in Wound Healing  
Principal Co-Investigator  
1986-1987

\$96,837 - Genetech Corporation  
Study of Growth Factors in Wound Healing  
Principal Co-Investigator  
1987-1988

\$350,000 - National Institute of Health  
Growth Factors in Surgical Wound Healing  
1989-1994

\$120,000 - Schering Plough Corporation  
Iamin Cream in Leg Ulcers: Clinical  
Principal Investigator  
1990

\$6,500 - Amgen Corporation  
Study of Growth Factors in Wound Healing  
1990

\$10,000 - Dow Corning Wright  
Silicone Gel in Surgical Incisions and Hand Patients  
1990

\$44,000 - Imclone Corporation  
Study of Growth Factors in Wound Healing  
1990

\$16,000 Sherwood Medical

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Study of Yeast Extract in Wound Healing  
1990

\$6,500 - Monsanto Corporation  
Study of Growth Factors in Wound Healing  
Principal Investigator  
1990

\$18,000 - U.S. Surgical Corporation  
Growth Factors in Wound Healing  
1991

\$22,000 - Amgen Corporation  
Growth Factors in Wound Healing  
1991

\$20,000 - Marrow-Tech Corporation  
Fibroblast Dermal Graft in Veinous Leg Ulcers - Clinical  
1991-1992

\$7,660.80 - Genetics Institute  
Growth Factors in Wound Healing  
1992

\$16,524 - Curative Technologies, Inc.  
Growth Factors in Wound Healing  
1992

\$12,600 - Synergen, Inc.  
Growth Factors in Wound Healing  
1992

\$75,000 - U.S. Surgical Corporation  
Growth Factors in Wound Healing  
1992

\$140,000 - Amgen Corporation  
Veinous Leg Ulcer Trial  
1992

\$6,006 - Pro-Neuron, Inc.  
Growth Factors in Wound Healing  
1992

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\$11,600 - Synergen, Inc.  
Growth Factors in Wound Healing  
1993

\$75,000 - U.S. Surgical Corporation  
Growth Factors in Wound Healing  
1993

\$12,912 - Curative Technology, Inc.  
Growth Factors in Wound Healing  
1993

\$52,000 - Pro-Neuron, Inc.  
Nucleotides in Wound Healing  
1993

\$55,000 - Pro-Neuron  
1994

\$80,000 - U.S. Surgical  
1994

\$120,000 - U.S. Surgical  
1995

\$22,000 - Amgen  
Growth Factors in Wound Healing  
1994

\$26,000 - CIBA-Geigy  
TFGB3 in Wound Healing  
1994-1995

\$17,000 - Biosurface Technology  
Membrane Components in Wound Healing  
1994

\$77,599 - Pro-Neuron  
1995

\$299,000 - National Institute of Health  
Growth Factors in Surgical Wound Healing

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1994-1996

\$140,00 - United States Surgical  
Charged Beads in Wound Healing  
1996

\$35,000 - CIBA-Geigy  
TGFB3 in Wound Healing 1995-1996

\$140,000-United States Surgical  
Charged Beads in Wound Healing  
1997

\$7900—Human Genome Science  
KGFII in Ischemic Rabbit Ear, and Scar Model  
1997

\$4800 --Searle—Development of Angiogenesis Model  
1997

\$7500 Buehler Foundation—Fibroblast Migration in Aging, 1997

4900 Plastic Surgery Educational Foundation, Keratinocyte Migration  
in Aging and Hypoxia, 1996

\$5000 Plastic Surgery Educational Foundation, Fibroblast Migration in Aging  
and Hypoxia, 1997

\$5000 Plastic Surgery Educational Foundation, Transgenic Mice and Wound  
Healing, 1997

\$8000—Human Genome Science KGFII in Ischemic Rabbit Ear Model,  
1998

\$13,500—Scios: Basic Fibroblast Growth Factor in Rabbit and Rat Models,  
1998

\$8500 –Sechrist—Hyperbaric Oxygen and Signal transduction in Aging Model  
of Ischemic Wound Healing  
1998

\$135,000—US Surgical: Charged Beads in Wound Healing 1998

JPRAS 60: 64-72, 2007.

\$5000—Glaxo—Use of Zofran to Prevent Nausea in Conscious Sedation Patients  
1998

\$11,000—Selective Genetics: Gene Therapy in Wound Healing  
1999

\$12,000 –Human Genome Sciences: KGFII in Ischemic Rabbit Ear Model  
1998

\$12,000—Genzyme: Antiscarring agents in Wound Healing  
1998

\$18,000—Genzyme: Antiscarring agents in Wound Healing  
1999

\$556,000—NIH RO1—Growth Factors in Wound Healing, Competitive Renewal, August  
1999-2003 Initiation of Funding (4 years)

\$18,000—Thermogenesis: Platelet extracts in Wound Healing,  
1999

\$9500—Cell Therapeutics: Application of Angio-Lipid to Rabbit Ear Dermal Ulcers (Compound CT-1332),  
1999

\$57,411—Baxter, Fibrin as a Wound Healing Agent: in vivo and in vitro studies, 1999-  
2000

\$35,000 –Human Genome Sciences. A Phase 1, Randomized Double-Blinded, Parallel-Group, Placebo-Controlled, Multicenter Study of Single Topical Application of 3 KGFII in Healthy Volunteers Prior to Scheduled Abdominoplasty Patients with Full Thickness Incisional Wounds.

1999-2000

JPRAS 60: 64-72, 2007.

\$13,000—Selective Genetics: Effects of PDGF DNA on Wound Healing, 2000

\$4,800: Aesthetic Society Research Foundation: Mechanisms of Silicone Gel Sheeting in Scar Reduction, 2000

\$5,000: Aesthetic Society Research Foundation: Microchip array analysis of gene expression in keloids and hypertrophic scars, 2000

\$13,000 Buehler Research Grant. Gene array analysis of wound healing in an aged ischemic model. 2000.

\$11,838 Pfizer Limited: Analysis of Antiscarring Compounds. 2001

\$12,000 Fibrogen: Analysis of Antiscarring Compounds. 2000

\$57,920 Chiron Corporation The Effect of Formulation on the ability of basic Fibroblast Growth Factor (FGF-2) to Promote Wound Healing in a rabbit ischemic ear model protocol, 2001

\$10,000 Oxyfast. The Potential Utility of the Oxyfast Device in an Animal Ischemic Wound Healing Model, 2001

\$42,034 NIH R01 GM41303-11S1 Supplemental Award: Impact of Aging, Ischemia and Cytokines on Wound Healing. Administrative Supplement for Microarray Analysis

\$37,905 Transition Therapeutics Inc. Testing Model for the TTD Peptide as an Anti-Scarring Compound. 2001

JPRAS 60: 64-72, 2007.

\$12,197 CuraGen Corporation: Biological Assays with CuraProtein 30664188 and CuraProtein 208458. 2001

\$10,000 Siragusa Foundation Wound Healing. 2001

16,000 Canji, Inc. The Impact of rAd-KGjF02 in a Rabbit Ear Ischemic Wound Healing Model 2001

\$24,000 Geron Corporation. HTERT Testing in Aged Rabbits-Rabbit Ischemic Ear Model for Wound Healing.

\$6,628 Selective Genetics FGF Gene Therapy for Tram Wound Healing, 2001

\$6,479 Selective Genetics. PDGF Gene Therapy for Tendon Wound Healing, 2001

\$11,900 Selective Genetics. Gene Therapy and TRAM ( Project Equipment) 2001

\$7,151 Selective Genetics. Effects of PDGF on Wound Healing in TRAM. 2001

\$10,000 Siragusa Foundation. Wound Healing. 2002

\$6455 Genzyme Corporation Effect of ID11 on Incisional Wound Breaking Strength

JPRAS 60: 64-72, 2007.

\$12,000 Pfizer Corporation: Effect of Pfizer compound on dermal scarring. 2002

\$1,100,000 National Institute of Health. Role of TGF-B in Excessive Scarring: A Cutaneous Model. 2002-2007

\$16,505 Novartis Pharmaceuticals Corporation. Randomised Blinded, Placebo-Controlled Trial on the Effect of a Plant-Based Wound-Healing Cream on Incision and Excision Wounds in Rats and Rabbits Respectively. 2002

\$75,000 Baxter. Fibrin Sealant: Potential Applications for Wound Healing. 2002-3

\$10,000 Siragusa Foundation. Wound Healing 2003.

\$5000 Plastic Surgery Educational Foundation. Effect of Retroviral Delivery of the DANCE Gene in Acute Wound Healing. 2003

\$10,000 Siragusa Foundation. Wound Healing 2004

\$42,800 Glaxco Smith Kline. The effects on an antiscarring compound on the rabbit dermal ulcer model. 2004

\$10,000, Siragusa Foundation. Wound Healing, 2005, 2006

JPRAS 60: 64-72, 2007.

\$39,060, Advanced Bio-Technologies, Inc. Effects of Topically Applied Silicone Gel Sheeting Kelo-cote in the Rabbit Model of Hypertrophic Scarring. 2005, 2006

\$120,000 DARPA: Subcontract To Study Metal-Skin interface in Prostheses 2006

\$45,000 Quark Biotechnology: Use of siRNA in Wound Healing Models to Augment Wound healing and minimize ischemia reperfusion injury in skin. 2006, 2007.

\$80,000 Pfizer: The effects of an antiscarring compound on the rabbit dermal ulcer model. 2006

\$203,850 (total for 1 year, 2006-7) NIH/NIGMS: Epithelial-connective tissue interactions: Influence on scar formation. 2006-2010

15,000 Valeant Pharmaceuticals. Evaluation of Dermatix Silicone Gel in Rabbit Ear Model

12,000 Siragusa Foundation: Aging in Wound Healing 2007

#### PATENTS:

1. Pierce GF, Mustoe TA, Deuel TF. Platelet derived growth factor use to reepithelialize wounds. Filed 1989.
2. Lewis W, Mustoe TA, Porras-Reyes BH. Taspine: A wound healing agent derived from Peruvian tree. October 1990, #585562, Approved.

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3. Cox J, Mustoe TA. Wound healing properties of combination of insulin-like growth factor and insulin-like growth factor binding protein. Patent applied for, 1991

### **PUBLICATIONS**

1. Mustoe TA, Ramig RF, Sharpe AH, Fields BN: A genetic map of reovirus. Assignment of the double-stranded RNA-positive mutant groups A, B, and G to genome segments. *Virology* 85:545, 1978.
2. Mustoe TA, Ramig RF, Sharpe AH, Fields BN: Genetics of reovirus: Identification of the dsRNA segments encoding the polypeptides of the mu and sigma size classes. *Virology* 89:594, 1978.
3. Sharpe AH, Ramig RF, Mustoe TA, Fields BN: A genetic map of reovirus. I. Correlation of genome RNAs between serotypes 1, 2, and 3. *Virology* 84:63, 1978.
4. Ramig RF, Mustoe TA, Sharpe AH, Fields BN: A genetic map of reovirus. II. Assignment of the double-stranded RNA-negative mutant groups C, D, and E to genome segments. *Virology* 85:531, 1978.
5. Weiner HL, Ramig RF, Mustoe TA, Fields BN: Identification of the gene coding for the hemagglutinin of reovirus. *Virology* 86:581, 1978.
6. Mustoe TA, Strome M: Adult epiglottitis. *Am J Otolaryngol* 4:393-399, 1983.
7. Mustoe TA, Fried MP, Goodman ML, Kelly JH, Strome M: Osteosclerotic plasmacytoma of maxillary bone. *J Laryngol Otol* 98:929-939, 1984.
8. Mustoe TA, Upton J, Marcellino V, Tun CJ, Rossier AB, Hackend HJ: Carcinomas in chronic pressure sore: A fulminant disease process. *Plast Reconstr Surg* 77:116-120, 1986.
9. Strome M, Mustoe TA, Kelly JH: Voice rehabilitation following laryngectomy. *Arch Otolaryngol* 112:1168-1171, 1986.
10. Norris CM, Mustoe TA, Ross JS, Goodman ML: Desmoplastic squamous cell carcinoma of the tongue simulating myositis or fasciitis. *Head Neck Surg* 9:51-55, 1986.
11. Mustoe TA, Fried MP, Horwitz Z, Botnick LE, Strome M: Reconstruction of the cervical esophagus by free jejunal flaps transfer: Experimental study in the dog. *Ann Otolaryngol (Paris)* 103:227-233, 1986.

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12. Mustoe TA, Pierce GF, Thomason A, Sporn M, Gramates PH, Deuel TF: Accelerated healing of incisional wounds in rats induced by transforming growth factor-B. *Science* 237:1333-1335, 1987.
13. Mustoe TA, Bartell TH, Garner WL: The effects of rate of tissue expansion on the creation of new tissue. *Surg Forum* 38:595-598, 1987.
14. Mustoe TA, Bartell TH: Biomechanical aspects of animal models of tissue expansion. *Surg Forum* 38:591-593, 1987.
15. Mustoe TA, Kaban L, Mulliken J: Nasal fractures in children. *Eur J Plast Surg* 10:135-138, 1987.
16. Mustoe TA, Lach E, Giffort G: Rapid tissue expansion in the treatment of myelomeningoceles: How fast is too fast? *Ann Plast Surg* 21:70-73, 1988.
17. Mustoe TA, Upton J: Free flaps in the head and neck. *Head Neck Surg* 10:S3-S11, 1988.
18. Pierce GF, Mustoe TA, Senior R, Thomason A, Deuel TG: Platelet derived growth factor (PDGF) stimulation of wound healing. *J Exp Med* 167:974-987, 1988.
19. Bartell TH, Monafu WW, Mustoe TA: Noninvasive in vivo quantification of elastic properties of hypertrophic scar: Hand held elastometry. *J Burn Care Rehabil* 9:657-660, 1988.
20. Ahn ST, Mustoe TA: Ischemia and venous congestion effects of ulcer wound healing: A new model in the rabbit ear. *Surg Forum* 39:610-612, 1988.
21. Fernando B, Musynski C, Mustoe TA: Closure of a sternal defect with the rectus abdominis muscle after sacrifice of both internal mammary arteries. *Ann Plast Surg* 21:468-471, 1988.
22. Pierce GF, Mustoe TM, Deuel TF: TGFB induces increased direct cellular migration and tissue repair in rats. *Prog Clin Biol Res* 266:93-102, 1988.
23. Pierce GF, Mustoe TA, Gramates PH, Lingelbach JM, Deuel TF: Transforming growth factor B reverses the wound healing defect caused by systemic glucocorticoid administration. *PNAS* 86:2229-2233, 1989.
24. Hiatt SW, Shannon MT, Mustoe TA, Schlaroff A: Management of a mandibular high flow vascular malformation. *J Oral Maxillofac Surg* 47:295-299, 1989.

JPRAS 60: 64-72, 2007.

25. Mustoe TA, Bartell TH, Garner WL: Physical, biomechanical, histological and histochemical effects of rapid vs conventional tissue expansion. *Plast Reconstr Surg* 83:687-691, 1989.
26. Rinehart GD, Mustoe TA, Weeks PM: Management of synovial sarcoma of median nerve at the elbow. *Plast Reconstr Surg* 83:528-532, 1989.
27. Bartell TH, Mustoe TA: Animal models of human tissue expansion. *Plast Reconstr Surg* 83:681-686, 1989.
28. Pierce GF, Mustoe TA, Lingelbach JM, Griffin G, Senior RM, Deuel TF: Platelet derived growth factor and transforming growth factor beta induced in vivo and in vitro tissue repair activities by unique mechanisms. *J Cell Biol* 109:429-440, 1989.
29. Ahn ST, Monafo W, Mustoe TA: Topical silicone gel: A new treatment for hypertrophic scars. *Surgery* 106:781-787, 1989.
30. Mustoe TA, Purdy JA, Gramates PH, Pierce GF, Deuel TF: Promotion of wound healing by platelet derived growth factor B in irradiated rats: Requirement of an active bone marrow. *Am J Surg* 158:345-350, 1989.
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#### **INVITED ARTICLES, REVIEWS, AND COMMENTARIES**

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91. Kloeters O, Tandara AA, Roy N, Kim JYS, Mustoe TA. TNF-alpha from Genetically Modified Keratinocytes Reduces Type-I Collagen mRNA Expression by Dermal Fibroblasts in a CoCulture System. *Wound Repair and Regeneration* Vol. 13 A7, 2005.
92. Said HK, Kim JY, Roy N, Mustoe TA. HRE-Luciferase Transfection Quantifies Tissue Level Ischemia in a Rabbit Ear Wound Model. *Wound Repair and Regeneration* Vol. 13 A9, 2005.
93. Kloeters O, Jia S, Roy N, Leinfellner G, Mustoe TA. Exogenous Administration of Smad3 by an Adenoviral Vector Significantly Affects Ischemic Tissue Repair. *Wound Repair and Regeneration* Vol. 13 A10, 2005.
94. Kryger ZB, Sisco M, Roy NK, Mustoe TA. The Temporal Expression of the TGF-beta Pathway in the Rabbit Ear Model of Hypertrophic Scarring. *Wound Repair and Regeneration* Vol. 13 A13, 2005.
95. Roy NK, Jia S, Kloeters O, Sull A, Mustoe TA. Direct Comparison of Adenoviral and Adeno-Associated Viral Vectors for Efficiency of Gene Transfer in Ischemic Wound. *Wound Repair and Regeneration* Vol. 13 A20, 2005.

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96. Kloeters O, Kim JYS, Mustoe TA. Occlusive Dressing Reduces Inflammatory Response and Alters Connexin Expression in a Rat Incisional Model. *Wound Repair and Regeneration* Vol. 13 A26, 2005.
97. Brown RJ, Rosenberg DS, Lu L, Segura T, Houchin T, Shea LD, Mustoe TA. Application of a Novel Crosslinked Glycosaminoglycan Hydrogel Scaffold Improves Healing in a Rabbit Ear Ulcer Model. *Wound Repair and Regeneration* Vol. 13 A32, 2005.
98. Roy NK, Jia S-X, Mustoe TA. Transcriptional changes of cytokines and extracellular matrix genes during remodeling and maturation phases of rabbit hypertrophic scar: a laser capture micro-dissection study. *Wound Repair and Regeneration*. 15:A20, 2007.
99. O'Shaughnessy KD, Kim P, Roy NK, Mustoe TA. Antisense oligonucleotides to TGF-Beta and CTGF decrease hypertrophic scarring in a rabbit ear model. *Wound Repair and Regeneration* 15: A20, 2007.
100. Schierle CF, O'Shaughnessy KO, Ding X Z, Galiano RD, Mustoe TA. Silicone gel occlusion suppresses epidermal hydration in a murine cutaneous wound model. *Wound Repair and Regeneration* 15:A23, 2007.
101. Jia S, Ding X Z, Mustoe TA. Topically applied silicone gel ointment (kelo-cote) can significantly reduce scarring in a rabbit ear model. *Wound Repair and Regeneration*. 15:A50, 2007.
102. O'Shaughnessy KD, Roy NK, Mustoe TA. Occlusion decreases hypertrophic scarring in a rabbit ear model. *Wound Repair and Regeneration* 15:A51, 2007.

**INVITED LECTURES, SYMPOSIA, COURSES AND VISITING PROFESSORSHIPS  
(selected, and the last two years)**

Visiting Professor, Massachusetts, Eye and Ear Infirmary, Boston, Massachusetts, April 1, 1987

.Eriksson, Mustoe, Course at American Society of Plastic and Reconstructive Surgery, Wound Healing II - Difficult Wounds, October 1989 and 1990, 1991.

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Eriksson, Lawrence, Mustoe: Applied Principles of Wound Healing: Course at ASPRS Meeting, October 1991, 1992, 1993.

Post Graduate Course in Surgical Basic Science: Cytokines and Growth Factors: Basic Concepts in Clinical Relevance. American College of Surgeons, New Orleans, October 1992.

Discussant: TGFB for Chronic Wounds. National Institute of Health: Symposium on Chronic Wounds, Bethesda, Maryland, January 1993.

Invited Lecturer: Animal wound healing models for Chronic Wounds. Food and Drug Administration Meeting: Clinical Trial Issues of Topical Wound Healing Conference, Bethesda, Maryland, March 1993

Vice-Chairman, Lecturer: Growth Factor Oxygen Interactions in Wound Healing. Gordon Research Conference, New London, New Hampshire, June 1993.

Panel Moderator: Practical Application of the Biological Principles of Wound Healing for the Practical Surgeon - ACS Mtg - San Francisco - October 1993

Invited Lecturer: Clinical Role of Growth Factors. NIH-Conference, Bethesda, MD, November 1993.

American College of Surgeons, Breast Reconstruction: Postgraduate Course on Breast Surgery. Immediate Breast Reconstruction Current Status. Chicago 10/94.

Invited Lecturer: Head & Neck Anatomy - PSEF Core Curriculum Course  
Chicago 11/93, 11/94, 11/95.

Co-Chairman, Gordon Conference. Growth Factors in Wound Healing. The Role of Hypoxia. July 1995.

Moderator Pannel, Abdominal Wall Reconstruction. American Society Plastic and Reconstructive Surgery, Montreal, Canada, Oct. 1995.

Mustoe, Lawrence. Applied Principles of Wound Healing. Course at ASPRS meeting 1995, 1996, 1997, 1998

Aesthetic Society, Orlando, FL, April 1996. Panelist: Ultrasonic Liposuction.

Visiting Professor, Duke University Medical School, March, 1996

Illinois State Medial Association. Chicago, IL, January 1996. Latissimus Dorsi Breast Reconstruction.

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Moderator, Panel: Emerging Technology in the XXI st Century. American Society Plastic & Reconstructive Surgery. Dallas, Texas, 1996.

Moderator, Panel, Integrated Residencies, Association of Academic Chairmen of Academic Chairmen of Plastic Surgery, Chicago, March 15, 1997.

Visiting Professor, University of Virginia, April 3-5, 1997.

Instructor, Regional Ultrasonic Assisted Liposuction Course, Cleveland, Ohio, Feb 8, 1997

Chair, Regional Ultrasonic Assisted Liposuction Course, Chicago, IL June 7, 1997

Grand Rounds, U Chicago Plastic Surgery, April 15, 1997 Ultrasonic Assisted Liposuction.

Visiting Professor, Washington University, Nov. 15, 1997  
Endoscopic Browlift, Latissimus Dorsi Breast Reconstruction

Visiting Professor, St. Louis University, Nov. 15, 1997

Chair, Core Curriculum in Plastic Surgery, Oct 23-25, Chicago, IL  
Latissimus Dorsi Breast Reconstruction and Implants: Another Perspective Emerging Technologies in Plastic Surgery

American Soc. of Plastic and Reconstr. Surgery, San Francisco Sept 21-24, 1997:  
Panel: Emerging Technologies—Laser Resurfacing Panel: Growth Factors in Wound Healing  
Course: Principles of Wound Healing and Clinical Applications  
Course: The Wound Care Specialist

The Portland Bone Symposium Portland, Oregon August 3-7, 1997: Wound Biology

Ultrasonic Liposuction Regional Course, Dallas Texas Nov 3, 1997.

Western Canada Wound Care Symposium, Winnipeg Canada,  
May 15, 1998 “Why do we need to Study Wound Healing

Royal College of Physicians and Surgeons Speaker, Visiting Professor, University Manitoba, Winnipeg, Canada, May 15, 1998: The Scientific Basis of Wound Healing

Wound Healing Society, Salt Lake City, Utah. June 17-21, 1998  
WOCN- WHS Partnership for the New Millennium.

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Presidential Address: Wound Healing Models: The Spectrum from Chronic Wounds to Scarring—New Insights.

The Core Curriculum Symposium, American Society of Plastic and Reconstructive Surgery, Chicago July 25, 1997. Rhinoplasty and Nasal Reconstruction.

European Tissue Repair Society, Copenhagen, Denmark. August 20-23, 1998. Invited Plenary Speaker: 1) The Current Clinical Treatment of Scarring 2) The Scientific Basis of Wound Healing.

Visiting Professor, Catholic Medical University, Seoul Korea, September 23-25, 1998. 1. Advances in Breast Reconstruction 2. Conscious Sedation. 3. Research in Wound Healing: Clinical Applications. 4. A New Technique for Endoscopic Brow Lift.

Department of Rheumatology Research Seminars, University of Illinois Medical School: The Impact of Aging on Wound Healing—Basic Studies. Feb 9, 1999.

7<sup>th</sup> Forum for Wound Healing. Tokyo, Japan, June 6, 1999. Excessive Scarring: Basic Mechanisms, and Clinical Applications.

Wound Healing Society Meeting: Translational Research. Minneapolis, Minnesota June 20-23, 1999. Physical Devices to Enhance Wound Healing—June 21

Combined Wound Healing Society and European Tissue Repair Society Meeting. Bordeaux, France. August 25-28, 1999. Moderator and Speaker, Symposium on Proteases in Wound Healing.

Northeastern Society of Plastic Surgeons. Burlington, VT., Sept 30- Oct 2, 1999. What is new in Wound Healing—Growth Factors, HBO, New skin substitutes.

Midwestern Association of Plastic Surgery. Chicago, IL April 7, 2000. Panel Discussion and Presentation: Facelifts.

Chicago Society of Dermatology. Chicago, IL April 19, 2000. Clinical Applications of Wound Healing

Plastic Surgery Core Curriculum, PSEF. Chicago, IL July 23, 2000. Facial Rejuvenation.

American Society of Plastic and Reconstructive Surgery. Los Angeles, CA Oct 14-18, 2000. Instructional Courses: Principles of Wound Healing; A Simplified Approach to Conscious Sedation;

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Presentations: The Fleur-de-lis Latissimus Flap Revisited in Breast Reconstruction; A Randomized Prospective Double Blinded Study of Oldantensron for Prevention of Nausea and Vomiting in Conscious Sedation.

American College of Surgeons. Chicago, IL, Oct 20-24, 2000. Instructional Course: New Technologies in Wound Healing: 1. Hydrotherapy, 2. Ion Exchange Dextran Beads; 3. Fibrin glue, cyanoacrylates, Autologous Platelet Gel.

Visiting Professor, Medical College of Wisconsin. Oct 25-26, 2000. Grand Rounds: Mechanisms and Treatment of Scarring.

Geriatrics Educational Conference & Exposition; Chicago, IL Oct 26-28, 2000. Wound Care/Decubiti.

2<sup>nd</sup> European Masterclass: Wounds and Scars; Montpellier, France April 2-3, 2001. 1. Guidelines on Scar Management 2. Surgical Management of Scars: skin grafts, flaps, and scars.

Society for Biomaterials St. Paul, MN April 27, 2001. The Impact of New Technologies on the Modulation of Wound Healing: Lead Speaker

American Association of Plastic Surgery. Charleston, SC. May 16, 2001. Biomechanical and Viscoelastic Properties of Skin, SMAS and Composite Flaps as they pertain to Rhytidectomy. May 14, 2001. The Effects of Silicone Occlusive Therapy in a Rabbit Hypertrophic Scar Model (Saulis, A presenter)

Visiting Professor, University of Wisconsin Medical School; Madison, Wisconsin. September 29-30, 2001. Breast Reconstruction: Changing Concepts; Clinical Applications of Wound Healing Principles.

Grand Rounds, U. Illinois Medical School, Division of Plastic Surgery. Chicago, Illinois. Breast Reconstruction: Changing Techniques. October 18, 2001

Lynn Sage Breast Cancer Symposium, Northwestern University Medical School, Chicago, Illinois. Post Mastectomy Radiation Therapy: The Impact on Breast Reconstruction. October 19, 2001.

Canadian Association for Wound Care. London, Ontario. Research from the Laboratory to the Bedside: A Personal Odyssey. November 1, 2001.

American Society of Plastic Surgery, Orlando Florida. Instructional Courses: Conscious Sedation for Aesthetic Surgery; Basic Principles of Wound Healing. November 2-6, 2001.

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Visiting Professor University Kansas Division of Plastic Surgery, Invited Lecturer Kansas City of Society of Plastic Surgery. New Developments in Facelift; Principles of Conscious Sedation; Latissimus Dorsi Breast Reconstruction. September 17-18, 2002.

Invited Speaker, Symposium on the Role of Oxidants in Wound Healing, Columbus Ohio: The Therapeutic Role of Oxygen in Wound Healing. September 12, 2002.

American Society of Plastic Surgery, San Antonio October 2002. Instructional Courses: Conscious Sedation for Aesthetic Surgery; Basic Principles of Wound Healing. Plenary Session (Saulis, Mustoe, Fine) Outcomes in Patient Satisfaction of Latissimus Dorsi, TRAM, and Tissue Expander Reconstructions.

Invited Speaker, Growth Factors in Wound Healing, American Diabetes Association, New Orleans, June 16, 2003.

Invited Speaker, A New Method of Latissimus Dorsi Breast Reconstruction. International Society of Plastic and Reconstructive Surgery, Sydney, Australia August 16-19, 2003.

American College of Surgeons Chicago October 2003. Course on Wound Healing. Lectures on Hydrotherapy and Gene Therapy for Wound Healing

American Society of Plastic Surgery, San Diego October 2003. Instructional Courses: Advanced Techniques in Wound Healing. Conscious Sedation for Aesthetic Surgery. Panel: The Utility of Basic Research in Improving Clinical Outcomes

Missouri Association of Plastic Surgery. St. Louis, MO. April 3, 2004. Conscious Sedation in Aesthetic Surgery

Wound Healing Society, Atlanta, Georgia, May, 2004. Plenary Speaker: Hypoxic Interactions. Lifetime Achievement Awards: The Search for the Ideal Wound Healing Model.

2<sup>nd</sup> Congress of the World Union of Wound Healing Societies, July 8-13 2004 Paris, France  
Invited Speaker: 1) Clinical Cases: Interactive, Presentation of Scars 2) Fundamental Aspects of Scarring 3) International Guidelines for the Treatment of Scars

American Society of Plastic Surgery, October 2004. Instructional Courses: Advanced Techniques in Wound Healing. Conscious Sedation for Aesthetic Surgery. Panel: Advances in Wound Healing

Tissue Repair Meeting, Institute Louis Pasteur, Paris France, March 17, 2005. Invited Speaker. Recent Advances in Dermatological Wound Healing.

European Tissue Repair Society. Stuttgart, German, Sept 15-17, 2005. Negative Pressure Wound

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Therapy: Evidence Based Approach

American Society of Plastic Surgery, September, 2005. Chicago IL. Plenary Speaker (Panel): Subplatysmal approach in Facelift. Plenary Speaker (Panel): Safety with Conscious Sedation (Panel); Commentary: Facelift on Fresh Faces Panel. Instructional Courses: Deep Plane Rhytidectomy: The Lateral Approach with Technical Refinements.. Conscious Sedation for Aesthetic Surgery

Duke University Visiting Professor, Division of Plastic Surgery. March, 2006

Georgetown University Visiting Professor, Department of Surgery, March 2006

Plenary Speaker, 2nd International Scar Meeting, Montpellier, France April, 2006: Therapeutic Approaches to Scarring

A-0 Symposia on Facial Bony and Soft Tissue Aesthetic Surgery. Lateral Approach to Necklift, Experience with Contour Threads for Facial Rejuvenation. Chicago, IL July, 2006

American Society of Plastic Surgery, San Francisco October, 2006. Moderator, Panel: Lesser Surgical Alternatives to Conventional Facelift. Instructional Courses: 1) Deep Plane Rhytidectomy: The Lateral Approach with Technical Refinements. 2) Conscious Sedation for Aesthetic Surgery

QMP National Symposium on Aesthetic Plastic Surgery, Chicago, IL December, 2006. The Lateral Approach to the Neck in Facial Rejuvenation.

2<sup>nd</sup> Shanghai International Plastic Surgery Conference. April 18-20, 2007 Shanghai China. Current Therapeutic Approaches and Progress in Research on Scarring. (2 lectures). 3) Current Plastic Training Program at Northwestern University

Midwestern Association of Plastic Surgery. May 3, 2007. Conscious Sedation and Local Anesthesia Techniques in Plastic Surgery. Chicago, IL

Gordon Research Conference: Wound Healing July 2007. Invited Speaker: Ischemic Wound Healing Models Colby-Sawyer College, New Hampshire.

James Barrett Brown Visiting Professor, Division of Plastic Surgery. Washington University Medical School.. June 22-23, 2007.

III Simposio Internacional De Cirugia Plastica: Desafios Y Conntroversias En La Cirugia Del Rejuvenecimiento Facial . August 18-20, 2007 1. Lateral Approach to Neck Rejuvenation with application to all techniques of facelift. 2. Conscious Sedation in Facial Aesthetic Surgery 3. The Lateral Brow Lift: An Improved Technique for Lateral Eyelid Rejuvenation Buenos Airies , Argentina

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Annual Meeting American Society of Plastic Surgery, Baltimore MD, October 27-30, 2007. Panel Participant: Advances in Facelift. Course: Approach to the Neck and Deep Plane Rhytidectomy. Course: Conscious Sedation in Aesthetic Surgery

Plastic Surgery Educational Foundation Visiting Professor 2007-2008

1. Albany Medical College, Albany New York. September, 2007. Talks on Facelift, Conscious Sedation, Approaches to Scarring, TRAM Flap
2. University of Cincinnati Medical School October 2007. Talks on Facelift, Approaches to Scarring
3. Florida State Society of Plastic Surgery Annual Meeting, Naples, Florida with Residents from Miami, U. Florida, and University of South Florida. December, 2007 Approaches to the Neck in Facelift.
4. Ohio State, Columbus Ohio, April, 2008
5. University of Southern California, U California Irvine May, 2008

Plenary Speaker, Live Surgery, Wisconsin State Society of Plastic Surgery April, 2008  
Use of Conscious Sedation With Abdominoplasty

#### **SUBMITTED ARTICLES (or in Preparation)**

Roy N, Mogford JE Mustoe TA. Hypoxic Induction of Type I Procollagen Gene is correlated with Simultaneous Induction of Several of Its Known Regulators.

**Mustoe TA .Invited Discussion. The use of Intradermal Sutures. Plastic and Reconstructive Surgery. 2005.**

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Roy N, Jia S-X, Kloeters O, Mustoe TA . Direct Comparison of Adenoviral and Adeno-Associated Viral Vectors for Efficiency of Gene Transfer in Ischemic Wound. J Surg Res. Submitted.

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