

CURRICULUM VITAE

NAME: Thomas A. Mustoe, M.D.

DATE OF BIRTH: June 29, 1951

PLACE OF BIRTH: Columbia, Missouri

SOCIAL SECURITY NUMBER: Available upon request

OFFICE ADDRESS: 737 N Michigan Ave #1500
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, New England Hebrew Academy
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
Lucille and Orion Stuteville Professor of Plastic Surgery 2010 present
Chief, Division of Plastic and Reconstructive Surgery, July 1991-2010

HOSPITAL APPOINTMENTS:

Northwestern Memorial Hospital, July 1991 to present; Chief of Plastic Surgery 1991 -
2010
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
Surgical Biology Club III, American College of Surgeons

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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, 1st Edition, 1992, 2nd Edition, 1994, 3d Edition, 1996, 4th
Edition, 1998, 2004, 2006, 2007, 2009, 2011, 2013
The Best Doctors in America: Midwest Region, 1996-2013, 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, 2009,
2010, 2011, 2012, 2013
Guide to Top Doctors 2002 2004, 2006, 2008, 2010, 2012
www.GuideToTopDoctors.org Center for the Study of Services, Washington DC
Guide to America's Top Physicians, Consumers Research Council of America 2003-13

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US News and World Report 2011-12 Guide to Top 1% Physicians in U.S.A. (Plastic Surgery)

America's Top Doctors. The Best in American Medicine. A Castle Connolly Guide 2002,2003, 2004, 2005, 2006,2007, 2008, 2009, 2010, 2011

America's Top Doctors: Ten Straight Years, Castle Connolly.

Chicago Super Doctors 2012

Vitals.Com Top 10 Doctor (awarded to <3% of physicians in USA), 2013

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, 1996-2010

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

Chair, ad hoc Committee for Pulmonary Professor Candidate, 2010

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HOSPITAL:

Northwestern Memorial Hospital

Cancer Committee, Northwestern Memorial Hospital, 1991-1999

Surgical Chiefs and Chairmen, Northwestern Memorial Hospital, 1991-2010

Evanston Hospital

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 2006-2012

Treasurer, American Board of Plastic Surgery 2010-2012

American Board of Medical Specialties, Board of Directors 2010-present

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

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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

Marketing Committee, 1999-2001

Exhibts 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

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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

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 (Amer Soc Aesth Plastic Surgery)

Scientific Research Committee 2002-
Innovative Procedures Committee 2001-2007
Board of Directors, 2010-

American Board of Medical Specialties

Representative to ABMS Assembly 2009
ABMS Board of Directors 2010-2013

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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 Apligraf 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, 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

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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
Aesthetic Surgery Journal
Annals of Surgery
Aesthetic Plastic Surgery

Journal of Pathology

Journal of Investigative Dermatology

Nature and Medicine

Diabetology

Laboratory Investigation

Diabetes

Grant Reviews:

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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

Ad Hoc Reviewer, NIH Surgery Anesthesia Trauma Study Section, January 2009

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

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\$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
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

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\$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

\$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

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\$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
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

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\$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

\$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

JPRAS 60: 64-72, 2007.

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

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

JPRAS 60: 64-72, 2007.

\$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

\$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

JPRAS 60: 64-72, 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, 2007, 2008, 2009

\$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.

JPRAS 60: 64-72, 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

Wellpoint: Compounds in Wound Healing, Scarring: \$40,000 2008

Orthologic : Compounds in Scarring \$30,000

AFIRM: Department of Defense (our portion of the overall: Grant): Rabbit Models for Scarring
80,000/yr 2008-2012

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.
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
4. Mustoe, TA; Sisco M, Kryger Z. Antiscarring properties of CTGF antisense. 2008.
5. U.S. Application No.: 12/906,719
Filed: October 18, 2010
Entitled: METHODS FOR SCAR PREVENTION

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Our Ref: NU28147

Inventors: Thomas Mustoe, Peter Kim, Jason Ko, Xianzhong Ding, Yanan Zhao

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.

JPRAS 60: 64-72, 2007.

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, Monafó 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: TGFβ 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.

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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.
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110. Gurjala AN, O'Shaughnessy K, Schierle C, Mustoe TA. Epidermal activity plays a key role in the pathogenesis of hypertrophic scar. *Wound Repair and Regeneration* 17:A48, 2009.

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115. Xu W, Hong SJ, Jia S, Zhao Y, Galiano RD, Mustoe TA. Application of an *ex vivo* human skin culture in cutaneous wound healing study. *Wound Repair and Regeneration* 19: A60, 2011.
116. Zhao Y, Jia S, Gurja AN, Mustoe TA. The development of ischemia and reperfusion model in a rabbit ear. *Wound Repair and Regeneration*. 19: A62, 2011.
117. Gurjala AN, Geringer M, Galiano RD, Mustoe TA, Leung KP. The host immune response fails to prevent *Klebsiella pneumoniae* from rapidly forming biofilm in the rabbit dermal ulcer wound model. *Plastic and Reconstructive Surgery*. 127 S33, 2011.
118. Hirsch EM, Seth AK, Kim JY, Dumanian GA, Mustoe TA, Fine NA. Outcomes of tissue expander breast reconstruction in patients with pre-reconstruction radiation. *Plastic and Reconstructive Surgery* 127: S35, 2011.
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121. Nguyen KT, Seth AK, Geringer MR, Hong SJ, Leung KP, Mustoe TA, Galiano RD. Biofilm infected diabetic wounds exhibit an aberrant and inefficient upregulation of inflammatory cytokines despite robust neutrophil recruitment. *Wound Repair and Regeneration*. 20: A33, 2012.

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122. Seth AK, Geringer MR, Nguyeh KT, Hong SJ, Leung KP, Mustoe TA, Galiano RD. Low-Frequency ultrasound as an effective therapy against pseudomonas aeruginosa biofilm-infected wounds: an in vivo study using a rabbit ear model. *Wound Repair and Regen.* 20:A38, 2012.
123. Xu W, Hong SJ, Jia S, Galiano RD, Mustoe TA. Identification of genes in response to dehydration during cutaneous wound healing. *Wound Repair and Regen.* 20: A47, 2012.
124. Xu W, Hong SJ, Jia S, Galiano RD, Mustoe Ta. The involvement of cyclooxygenase 2 in hypertrophic scar formation in response to epidermal dehydration. *Wound Repair and Regen.* 20: A47, 2012.

**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.

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

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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 Panel, 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 Medical Association. Chicago, IL, January 1996. Latissimus Dorsi Breast Reconstruction.

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

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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.

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.

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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.

7th 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;
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.

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2nd 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.

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.

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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.

2nd 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 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,

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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.

2nd 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

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

QMP Aesthetic Surgery Symposium (3d Annual), November 30-Dec2, 2007. The Use of Conscious Sedation.

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.

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4. Ohio State, Columbus Ohio; Columbus Society of Plastic Surgeons March 27-28, 2008: Conscious Sedation and Abdominoplasty; The Lateral Approach to the Neck and Modifications of Deep Plane Rhytidectomy; Clinical Implications of New Understanding in Scarring
5. University of Southern California The Lateral Approach to the Neck and Modifications of deep plane rhytidectomy. Conscious Sedation and the Approach to Abdominoplasty and Breast Surgery. May 20, 2008.
6. Orange County Society of Plastic Surgery. May 18, 2008. The Lateral Approach to the Neck and Modifications of deep plane rhytidectomy.
7. U California Irvine May 19, 2008; Conscious Sedation and the Approach to Abdominoplasty and Breast Surgery.

Plenary Speaker, Live Surgery, Wisconsin State Society of Plastic Surgery April 3-4, 2008
Use of Conscious Sedation With Abdominoplasty (Live Surgery and Lecture); A Comprehensive Approach to the Aging Face

Invited Speaker: Chronic Wound Pathogenesis. Medical University of South Carolina, Charleston SC, October 17, 2008 Peng Symposium

Live Surgery Demonstration: Facelift , American Society of Plastic Surgery Annual Meeting Chicago, IL November 1, 2008

Instructional Course: Conscious Sedation. American Society of Plastic Surgery Annual Meeting Chicago, IL November 2, 2008

Visiting Professor, University of Michigan Division of Plastic Surgery. November 5, 2008
Surgical Approaches to Minimize Scarring

Plenary Speaker: The Role of the Epidermis in Scarring. Third International Symposium on Scarring. Montpellier, France September 30- October 2, 2008.

Animal Models of Biofilm Delayed Wound Healing. Montana State Conference on Biofilms, Bozeman, Montana . Feb 5-6, 2009.

QMP Aesthetic Symposium. Chicago Illinois. September, 2008. Avoiding Complications in Abdominoplasty: The use of Conscious Sedation.

Visiting Professor, University of Rochester March 25-27, 2009. The Lateral Approach to the Neck in Facelift; Limited Incision Browlift. Approach to Breast Augmentation and Abdominoplasty with Conscious Sedation: Technical and Anesthetic Considerations.

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Invited Speaker Facial Cosmetic Surgery Symposium, Las Vegas, Nevada, June 3-7, 2009
1. Lateral Approach to Neck in Facelift. 2. Limited Brow Incision Browlift. 3. Conscious Sedation.

Invited Special International Guest Speaker. Face All Tips Facial Aesthetic Symposium. Sao Paulo, Brazil. June 26-27,2009. 1. Lateral Approach To Neck in Facelift. 2. Limited Incision Browlift. 3. Personal Approach to Rhinoplasty. 4. Conscious Sedation.

Visiting Professor, Yale University. January 6-7, 2010 :1. Personal Approach to Rhinoplasty. Applied Principles to Reduce Scarring in Surgery

Invited Speaker, California Oxygen Club. March 17, 2010. Santa Barbara, CA. Ischemic Wound Healing.

Plenary Speaker, Asian Scar Forum, Shanghai China, Oct 29-31, 2010. Guidelines for the Treatment of Scars, and Pathogenesis of Hypertrophic Scarring.

American Society of Plastic Surgery Annual Meeting. Sept 30- Oct 3, Toronto Canada. MOC Instructional Course: Facelift.2011.

16th World Congress of International Confederation for Plastic Reconstructive and Aesthetic Surgery (IPRAS). Vancouver. May 23-27, 2011. Plenary Session, Panel on Facelift (Avoiding the Submental Incision). Master Class: Surgical Approaches to Scarring. Master Class: Safe use of Conscious Sedation

American Society of Plastic Surgery Annual Meeting. October 30- Nov2. Denver Colorado. MOC Instructional Course: Facelift. 2012

4th International Scar Conference Montpellier, France March,. Plenary Speaker: The role of the epidermis in scarring. 2012

SAWC- Wound Healing Society Annual Meeting. Atlanta, Georgia. April. Plenary Speaker. Scarring. 2012

SAWC-Wound Healing Society Annual Meeting, Denver Colorado, April 2013. Plenary Speaker: The role of Biofilm in Chronic Wounds: Animal Models

European Wound Healing Society Copenhagen, Denmark, May 2013. Biofilm treatment with a Silver activated Dressing.

4th Aisian Scar Conference, Bali Indonesia August, 2013. Plenary speaker: Current and Future Perspectives: Evidence –based Scar Management

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Additional talks August 2013 on Scar Pathogenesis and Management: Shanghai, Beijing and Guanzhou, China; Singapore; Semarang Indonesia; and Ho Chi Minh City, Vietnam

American Society of Plastic Surgery Annual Meeting October, 2013, San Diego California. Speaker in Plenary Session on Facelift Techniques: My own technique.

Middle East Conference on Scars and Wounds. March, 2014 Dubai. Plenary speaker: The role of the Epidermis in Scarring.

SUBMITTED ARTICLES

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SILICONE GEL OCCLUSION MODULATES EPIDERMAL GENE ACTIVATION IN A NOVEL MURINE CUTANEOUS WOUND MODEL

Clark F. Schierle MD PhD, Seok Jong Hong, Kristina O'Shaughnessy MD,
Xian Zhong Ding PhD, Shen Xia Jia PhD, Yanan Zhao PhD, Thomas A.
Mustoe MD

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