



Mark Sisco, M.D.

Division of Plastic Surgery
NorthShore University HealthSystem
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FACULTY APPOINTMENTS

- 8/2009-present* **Clinical Assistant Professor**, Department of Surgery
University of Chicago, Pritzker School of Medicine, Chicago, IL.
- 7/2008-6/2009* **Clinical Instructor**, Department of Surgery
Memorial Sloan-Kettering Cancer Center, New York, NY.
- 7/2007-6/2008* **Clinical Instructor**, Department of Surgery
Northwestern University Feinberg School of Medicine, Chicago, IL.

CLINICAL APPOINTMENTS

- 7/2009-present* **Attending Physician**, Division of Plastic Surgery, Department of Surgery
NorthShore University HealthSystem, Evanston, IL.

EDUCATION

- 6/2000* **Doctor of Medicine**, Northwestern University Feinberg School of Medicine
- 5/1996* **Bachelor of Arts**, Columbia College, Columbia University
Concentration in Art History

GRADUATE MEDICAL EDUCATION

- 7/2008-6/2009* **Clinical Fellow in Reconstructive Microsurgery**, Division of Plastic Surgery
Memorial Sloan-Kettering Cancer Center
Program Director: Dr. Peter Cordeiro
- 7/2007-6/2008* **Administrative Chief Resident**, Division of Plastic and Reconstructive Surgery
McGaw Medical Center of Northwestern University
Program Director: Dr. Gregory A. Dumanian
- 7/2005-6/2007* **Resident**, Division of Plastic and Reconstructive Surgery
McGaw Medical Center of Northwestern University
Program Director: Dr. Gregory A. Dumanian

7/2001-6/2004 **Intern and Resident**, Department of Surgery
McGaw Medical Center of Northwestern University
Program Director: Dr. Richard H. Bell

POSTDOCTORAL RESEARCH TRAINING

7/2004-6/2005 **Research Resident**, Wound Healing Research Laboratory
Division of Plastic and Reconstructive Surgery
Northwestern University Feinberg School of Medicine
Studied cutaneous ischemia-reperfusion injury and hypertrophic scarring
Mentor: Dr. Thomas A. Mustoe

1/2000-6/2001 **Research Fellow**, Wound Healing Research Laboratory
Division of Plastic and Reconstructive Surgery
Northwestern University Feinberg School of Medicine
Explored wound-healing response to aging and ischemia
Mentor: Dr. Thomas A. Mustoe

MEDICAL LICENSURE

Illinois license #036-111485
New York license #247380-1
Federal DEA number upon request

COMMITTEE SERVICE

1996-2000 Executive Curriculum Committee
Northwestern University Feinberg School of Medicine

AWARDS, HONORS, DISTINCTIONS

1996 Columbia College, *cum laude* in Art History
2000 *Alpha Omega Alpha* Honor Society
2008 Edelstone-Bendix Chief Resident Research Prize, Northwestern University

PROFESSIONAL SOCIETY MEMBERSHIPS

Active Member, Association for Academic Surgery

PROFESSIONAL and SCIENTIFIC SERVICE

Peer Reviewer, *Wound Repair and Regeneration*

RESEARCH GRANTS/CONTRACTS

2000-2001 **Buehler Center on Aging**, Northwestern University
“A Gene Array Assay of Wound Healing in an Aged Ischemic Model.”
Co-Investigator, \$13,000

2000-2001 **American Society for Aesthetic Plastic Surgery**
“Microarray Gene Expression Analysis of Human Scarring.”

Co-Investigator, \$8,000

1997

Northwestern University Medical School Summer Research Fellowship
“Arterial Base Deficit as a Predictor of Resuscitation in Septic Patients.”
Student Investigator, \$2,500

SCHOLARLY BIBLIOGRAPHY

Original, peer-reviewed research articles

1. Mogford JE, **Sisco M**, Bonomo SR, Robinson AM, and Mustoe TA: “Impact of Aging on Gene Expression in a Rat Model of Ischemic Cutaneous Wound Healing.” *J Surg Res.* 2004;118(2):190-6. (co-first author)
2. **Sisco M**, Liu WR, Kryger ZB, and Mustoe TA: “Reduced Up-Regulation of Cytoprotective Genes in Rat Cutaneous Tissue During the Second Cycle of Ischemia-Reperfusion.” *Wound Repair Regen.* 2007;15(2):203-12.
3. Kryger ZB, **Sisco M**, Roy N, Lu L, Rosenberg D, and Mustoe TA: “The Temporal Expression of the TGF-beta Pathway in the Rabbit Ear Model of Wound Healing and Scarring.” *J Am Coll Surg.* 2007;205(1):78-88.
4. **Sisco M**, Chao JD, Kim I, Mogford JE, Mayadas TN, and Mustoe TA: “Delayed Wound Healing in Mac-1–Deficient Mice Is Associated with Normal Monocyte Recruitment.” *Wound Repair Regen.* 2007;15(4):566-71.
5. Brown RJ, Lee MJ, **Sisco M**, Kim JY, Roy N, and Mustoe TA: “High-dose ultraviolet light exposure reduces scar hypertrophy in a rabbit ear model.” *Plast Recon Surg.* 2008;121(4):1165-72.
6. **Sisco M**, Kryger ZB, O’Shaughnessy KD, Kim PS, Schultz GS, Ding XZ, Roy NK, Dean NM, and Mustoe TA: “Antisense Inhibition of Connective Tissue Growth Factor (CTGF/CCN2) mRNA Limits Hypertrophic Scarring Without Affecting Wound Healing in Vivo.” *Wound Repair Regen.* 2008;16(5):661-73.

Reviews, Chapters, Books

1. **Sisco M** and Mustoe TA: “Animal Models of Ischemic Wound Healing. Toward an Approximation of Human Chronic Cutaneous Ulcers in the Rabbit and Rat.” *Methods Mol Med.* 2003;78:55-65.
2. Kryger ZB and **Sisco M**, Eds.: *Practical Plastic Surgery*. Austin: Landes Bioscience, 2007.
3. **Sisco M** and Bauer BS: “Craniofacial Syndromes and Sequences.” In Bentz ML, Bauer BS, and Zucker R, Eds.: *Principles and Practice of Pediatric Plastic Surgery*. St. Louis: Quality Medical Publishing, 2007.
4. **Sisco M** and Disa JJ: “Mandible Reconstruction.” In Marsh J and Perlyn C, Eds.: *Decision Making in Plastic Surgery*. St. Louis: Quality Medical Publishing, *In Press*.

Case reports, Technical notes, Letters

1. **Sisco M** and Dumanian GA: "A Simple Technique to Anchor Prosthetic Mesh to Bone." *Plast Recon Surg.* 2005;116(7):2059-60.
2. **Sisco M** and Dumanian GA: Invited Discussion of "Salvaging Limbs in Cases of Severe Purpura Fulminans: Advantages of Free Flaps." *Plast Recon Surg.* 2006;118(3):686-7.
3. Erickson BA, Dumanian GA, **Sisco M**, Jang TL, Halverson AL, and Gonzalez CM: "Rectourethral Fistula Associated with Two Short Segment Urethral Strictures in the Anterior and Posterior Urethra: Single-Stage Reconstruction Using Buccal Mucosa and a Radial Forearm Fasciocutaneous Free Flap." *Urology.* 2006;67(1):195-8.
4. **Sisco M** and Dumanian GA: "Anterior Interosseous Nerve Syndrome Following Shoulder Arthroscopy. A Report of Three Cases." *J Bone Joint Surg Am.* 2007;89(2):392-5.
5. **Sisco M** and Dumanian GA: "The Implantable Venous Doppler for Perforator Flap Monitoring: Report of a False-Negative Signal." *Plast Recon Surg.* 2008;121(4):223e-4e.
6. **Sisco M** and Disa JJ: Invited Discussion of "NPWT I: The Paradox of Negative Pressure Wound Therapy." *Plast Recon Surg.* 2009; 123(2):599-600.
7. MacIver RH, Sundaresan S, DeHoyos AL, **Sisco M**, and Blum MG: "Mucosal Tube Technique for Creation of Esophageal Anastomosis after Esophagectomy." *Ann Thorac Surg.* 2009;87(6):1703-7.

Abstracts

1. Zhao Y, **Sisco M**, Mogford J, and Mustoe TA: "Effects of Ischemia on a Model of Non-Contractile Cutaneous Wound Healing in the Rat." Oral Presentation. Wound Healing Society Annual Meeting, Toronto, June 2000.
2. **Sisco M**, Mogford JE, Robinson AM, Zhao Y, and Mustoe TA: "Gene Array Analysis of the Impact of Aging and Ischemia on Wound Healing in Rats." Oral Presentation. Wound Healing Society Annual Meeting, Albuquerque, NM, June 2001.
3. **Sisco M**, Chao J, Kim I, Mayadas-Norton T, Mogford JE, and Mustoe TA: "Delayed Wound Healing in Mac-1 (CD11b/CD18) Integrin Knockout Mice." Oral Presentation. Wound Healing Society Annual Meeting, Albuquerque, NM, June 2001.
4. Cross KJ, **Sisco M**, Mogford J, and Mustoe TA. A Novel Ischemic Wound Healing Model in the Rat: a Bipedicled Back Flap with Internal Controls. Oral Presentation. Wound Healing Society Annual Meeting, June 2002.
5. Kryger ZB, **Sisco M**, Roy NK, and Mustoe TA: "The Temporal mRNA Expression of the TGF-Beta Pathway in the Rabbit Ear Model of Hypertrophic Scarring." Poster Presentation. Plastic Surgery Research Council, Toronto, May 2005.
6. Kryger ZB, **Sisco M**, Lu WR, and Mustoe TA: "Attenuated Stress- and Hypoxia-Driven Gene Expression in a Rat Model of Repetitive Cutaneous Ischemia-Reperfusion Injury" Oral Presentation. American College of Surgeons Clinical Congress, San Francisco, October 2005.

7. **Sisco M**, Kryger ZB, Jia SX, Schultz GS, Dean NM, and Mustoe TA: “Antisense Oligonucleotides Against Transforming Growth Factor-Beta Delay Wound Healing in a Rabbit Ear Model.” Oral Presentation. American College of Surgeons Clinical Congress, San Francisco, October 2005.
8. **Sisco M**, Kryger ZB, Schultz GS, Roy NK, Dean N, and Mustoe TA: “Antisense Inhibition of Connective Tissue Growth Factor Limits Hypertrophic Scarring In Vivo: Evidence for a Specific Target to Reduce Fibrosis.” Oral Presentation. Plastic Surgery Research Council, Dana Point, CA, May 2006.
9. **Sisco M** and Dumanian GA: “The Oblique Rectus Abdominis Myocutaneous Flap for Vaginal Reconstruction.” Oral Presentation. Midwestern Association of Plastic Surgeons, Chicago, May 2007.