

CURRICULUM VITAE

Dev Gurujal, MD, MS
Plastic and Reconstructive Surgery
Align Surgical Associates, San Francisco

BIOGRAPHICAL

Business Address: 2299 Post Street, Suite 207
San Francisco, CA 94115

Business Phone: (415) 592-6307

NPI: 1407180623

EDUCATION

Northwestern University, Segal Design Institute 2008 – 2010
Master of Science, Engineering Design and Innovation
Evanston, IL

Northwestern University, Feinberg School of Medicine 1998 – 2004
Doctor of Medicine
Chicago, IL

Northwestern University 1995 – 1998
Honors Program in Medical Education (7-yr integrated BA/MD)
Bachelor of Arts, Neurobiology with Minor in Cognitive Science
Evanston, IL

University of California, Irvine 1994 – 1995
University Program for High School Scholars
Irvine, CA

University High School 1991 – 1995
Irvine, CA

GRADUATE MEDICAL TRAINING

Clinical Instructorship in Reconstructive Microsurgery 2013 – 2014
Stanford University, School of Medicine
Palo Alto, CA
Division Chief: James Chang, MD

Plastic and Reconstructive Surgery Integrated Residency 2004 – 2013
Northwestern University, Feinberg School of Medicine
Chicago, IL
Division Chief: Gregory A. Dumanian, MD

Research Fellowship 2007 – 2010
Laboratory for Wound Repair and Regenerative Medicine
Northwestern University, Feinberg School of Medicine
Chicago, IL
Division Chief: Thomas A. Mustoe, MD

EMPLOYMENT

Attending Physician, Plastic and Reconstructive Surgery 2019 – present
Align Surgical Associates, San Francisco, CA

Gender Affirmation Surgery (Top and Bottom)
Aesthetic Surgery of Body and Breast

Attending Physician, Plastic and Reconstructive Surgery 2014 – 2019
Kaiser Permanente, San Francisco, CA

Gender Affirmation Surgery (Top and Bottom)
Microsurgery for Breast and Extremity Reconstruction
General Reconstructive Surgery
Aesthetic Surgery of Body and Breast

HOSPITAL APPOINTMENTS

Post Street Surgery Center, San Francisco, CA 2019 - present
St. Francis Hospital, San Francisco, CA 2019 - present
California Pacific Medical Center, San Francisco, CA 2019 - present
Marin General Hospital, Greenbrae, CA 2019 - present
Kaiser Permanente, San Francisco, CA 2014 – 2019
Stanford Hospital, Palo Alto, CA 2013 – 2014
Lucille Packard Children's Hospital, Palo Alto, CA 2013 – 2014

LICENSURE AND CERTIFICATION

Board Certified in Cosmetic and Reconstructive Surgery 2016
Certificate No. 8956, American Board of Plastic Surgery

DEA License, FG4186436 2013
U.S. Department of Justice

HONORS AND AWARDS

2 nd Place, Resident Research Award, “A Novel Breakaway Coupler Device for Improving the Safety and Usability of Medical Tubing” Northwestern Annual Plastic Surgery Research Day Chicago, IL	2013
Winner, Technology Innovation in Plastic Surgery (TIPS) Innovation Challenge, Coinventor of Aura Mesh Suture Plastic Surgery Foundation TIPS Conference San Francisco, CA	2013
Honorable Mention, Anita Roberts Award for Best Paper “Development of a novel, highly quantitative in vivo model for the study of biofilm-impaired cutaneous wound healing” Wound Healing Society Atlanta, GA	2012
1 st Place, Resident Research Award, “Development of a novel three-dimensional integrative suture for the prevention of surgical dehiscence” Northwestern Annual Plastic Surgery Research Day Chicago, IL	2012
Resident Teacher of the Year Award Northwestern Division of Plastic and Reconstructive Surgery Chicago, IL	2011
Best Design Award, Miller Welding Company Designed new touch screen-based user interface for welding machines Appleton, WI	2010
Winner, Intern Suturing Competition Northwestern Department of Surgery Chicago, IL	2004
Alpha Omega Alpha Student Research Scholar Chicago, IL	2000
Lifeline Foundation Student Research Scholar Chicago, IL	1999
Northwestern University Medical Student Research Scholar Chicago, IL	1999
Northwestern University <i>Magna cum laude</i> in Neurobiology, President’s Scholarship, Phi Beta Kappa Honors Society, Dean’s List with Distinction Evanston, IL	1995 – 1998

University High School Salutatorian, National Merit Scholar Finalist, Recipient of the Edison International Scholarship (\$20k), Who's Who Among American High School Students, 6 Best Student Laureate Awards Irvine, CA	1991 – 1995
Committee for Advanced Science Training Scholar University of California, Irvine, Department of Neuroanatomy Irvine, CA	1992
1 st Prize, California State Science Fair Los Angeles, CA	1992
National Science Foundation Young Scholar's Program Long Beach, CA	1991
Rotary Club Americanism in Action Award Claremont, CA	1991

COMMITTEES AND LEADERSHIP POSITIONS

Department Technology Lead Kaiser Permanente, San Francisco	2014 – 2019
Clinical Informatics, Resident Representative Northwestern Memorial Hospital	2012 – 2013

PROFESSIONAL MEMBERSHIPS

Plastic Surgery Research Council, Resident Member	2011 – 2013
American Society of Plastic Surgeons, Resident Member	2004 – 2013
Wound Healing Society, Resident Member	2000 – 2013

RESEARCH EXPERIENCE

Research Fellow, Laboratory for Wound Repair and Regenerative Medicine Northwestern University, Feinberg School of Medicine Chicago, IL Mentor: Thomas A. Mustoe, MD	2007 – 2010, 2002 – 2003
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Developed several animal models for the study of chronic wound healing pathologies, entailing design of multiple novel devices

- *Rabbit ear bacterial biofilm model*
- *Rabbit ear reversible ischemia-reperfusion injury model*
- *Rat magnet cyclical ischemia-reperfusion injury model*
- *Rabbit ear cyclical wound tension model for hypertrophic scar*

Studied mechanism of action of occlusive dressings, and developed unifying hypothesis for epidermal regulation of scar

Studied senescence-related mechanisms for increased susceptibility of aged versus young fibroblasts to free radical injury

Research Fellow, Public Citizen, The Health Research Group
Washington D.C. 2000 – 2001
Mentors: Sidney Wolfe, MD and Peter Lurie, MD

Prepared study on resident-work hours for Occupational Safety and Health Administration (Federal Docket #FHWA-97-2350-82)

Health Policy Intern, American Medical Students Association
Reston, West Virginia 2000

Prepared primer for medical students entitled, "Why is Health Care So Expensive: A Guide to Understanding the Rising Costs of Medicine"

BIODESIGN EXPERIENCE

Graduate School Coursework, Stanford Biodesign Program 2013 – 2014
Worked with Bio-X multidisciplinary team to design a novel hip protection device to minimize fractures
Mentor: Paul Yock, MD

Clinical Fellow, Northwestern Biodesign Fellowship 2010 – 2011
After obtaining Master's Degree during residency, co-founded biodesign program modeled after Stanford Biodesign Innovation Fellowship
Mentor: John Linehan, PhD

Inventor, U.S. Patent Office
• *Surgical suture designed to minimize tissue tear-through via novel stress-distributing shape and tissue integration, now being commercialized* 2012
Mentor: Gregory A. Dumanian, MD

• *Self-sealing breakaway coupler device designed to decrease traumatic removal of medical tubing (surgical drains) from body* 2011

• *Temperature-based early detection device for diabetic foot ulcers* 2010

Inventor, Northwestern University Tech Transfer Office 2010 - 2013
Disclosed multiple inventions, including:

- *Contractile occlusive wound dressing, scarless wound advancement device, positive pressure bedside incentive spirometer, topical anakinra IL-1 blockade for dermal scar reduction*

EDUCATIONAL ACTIVITIES

Founder, Northwestern Plastic Surgery Wiki 2010 – 2013
Created website applying concept of the online wiki to our residency program; all educational resources (procedure/rotation/in-service guides, reading files, teaching conferences) are centralized and editable by residents and faculty, generating dynamic content which improves with each resident class

PUBLICATIONS

1. **Gurjala AN**. Recapitulating the male anatomy: refinements in the aesthetics of female to male transgender top surgery. *Manuscript in preparation*.
2. Shih H, Nazerali R, **Gurjala AN**, Jazayeri L, Lee GK. Massive localized lymphedema of the mons: the pi cut technique. *Manuscript submitted for publication*.
3. Salim A, Metz E, Constant JS, **Gurjala AN**, Yokoo K, Tong WM. Does Previous Breast Reduction Affect the Outcome of Gender-Affirming Subcutaneous Mastectomy? *Ann Plast Surg*. 2018 May; 80(5S Suppl 5):S279-S284.
4. **Gurjala AN**, Nazerali RS, Salim A, Lee GK. World's First Baby Born through Natural Insemination by Father with Total Phalloplasty Reconstruction. *Ann Plast Surg*. 2016 May;76 Suppl 3:S179-83.
5. Souza JM, Dumanian ZP, **Gurjala AN**, Dumanian GA. In vivo evaluation of a novel mesh suture design for abdominal wall closure. *Plast Reconstr Surg*. 2015 Feb ;135(2):322e-30e
6. Paro JA, Nazerali R, Gurjala AN, Berger A, Lee GK. Video-based self-review: comparing Google Glass and GoPro technologies. *Ann Plast. Surg*. 2015 May;74 Suppl 1:S71-4.
7. Souza JM, Dumanian ZP, **Gurjala AN**, Dumanian GA. In vivo evaluation of a novel mesh suture design for abdominal wall closure. *Plast Reconstr Surg*. 2015 Feb;135(2):322E-30E.
8. Steinberg JP, **Gurjala AN**. Evaluating the Effects of Subclinical, Cyclic Ischemia-Reperfusion Injury on Wound Healing Using a Novel Device in the Rabbit Ear. *Annals of Plas Surg*. 2013 Feb 4.
9. Seth AK, Geringer MR, **Gurjala AN**, Abercrombie JA, Chen P, You T, Hong SJ, Galiano RD, Mustoe TA, Leung KP. Understanding the host inflammatory response to wound infection: an in vivo study of Klebsiella pneumoniae in a rabbit ear wound model. *Wound Repair Regen*. 2012 Mar-Apr;20(2):214-25.
10. Seth AK, Geringer MR, **Gurjala AN**, Hong SJ, Galiano RD, Leung KP, Mustoe TA. Treatment of

Pseudomonas aeruginosa biofilm-infected wounds with clinical wound care strategies: a quantitative study using an in vivo rabbit ear model. *Plast Reconstr Surg.* 2012 Feb;129(2):262e-274e.

11. Mustoe TA, **Gurjala AN**. The role of the epidermis and the mechanism of action of occlusive dressings in scarring. *Wound Repair Regen.* 2011 Sep;19 Suppl 1:s16-21.
12. **Gurjala AN**, Geringer MR, Seth AK, Hong SJ, Smeltzer MS, Galiano RD, Leung KP, Mustoe TA. Development of a novel, highly quantitative in vivo model for the study of biofilm-impaired cutaneous wound healing. *Wound Repair Regen.* 2011 May-Jun;19(3):400-10.
13. Said HK, Roy NK, **Gurjala AN**, Mustoe TA. Quantifying tissue level ischemia: hypoxia response element-luciferase transfection in a rabbit ear model. *Wound Repair Regen.* 2009 Jul-Aug;17(4):473-9.
14. **Gurjala AN**, Liu WR, Mogford JE, Procaccini PS, Mustoe TA. Age-dependent response of primary human dermal fibroblasts to oxidative stress: cell survival, pro-survival kinases, and entrance into cellular senescence. *Wound Repair Regen.* 2005 Nov-Dec;13(6):565-75.
15. Morasch MD, **Gurjala AN**, Washington E, Chiou AC, Simonetti OP, Finn JP, Yao JS. Cross-sectional magnetic resonance angiography is accurate in predicting degree of carotid stenosis. *Ann Vasc Surg.* 2002 May;16(3):266-72.

BOOK CHAPTERS

1. Buck II, DW. Review of Plastic Surgery, 2015. (contributing author)
2. Nazerali RS, **Gurjala AN**, Lee GK. The Pedicled Anterolateral Thigh Flap for Total Penis Reconstruction. *Grabb's Encyclopedia of Flaps (Volume II): Upper Extremities, Torso, Pelvis, and Lower Extremities*, 2015.
3. **Gurjala AN**, Schierle CF, Galiano RD, Leung KP, Mustoe TA. Animal Models of Biofilm-Infected Wound Healing., *Wound Healing Society, Advances in Wound Care*, vol 1., 2010.
4. **Gurjala AN** and Howard MA. Wound Dressings. In Kryger ZB and Sisco M (ed.), *Practical Plastic Surgery*, 1st Ed., Landes Bioscience, 2007.
5. **Gurjala AN**. Hair Restoration. In Kryger ZB and Sisco M (ed.), *Practical Plastic Surgery*, 1st Ed., Landes Bioscience, 2007.

PRESENTATIONS AND ABSTRACTS

1. Nazerali RS, **Gurjala AN**, Lee GK. World's First Baby Born through Natural Insemination by Father with Total Phalloplasty Reconstruction. Podium presentation, California Society of Plastic Surgeons, 65th Annual Meeting, Monterey, CA. 2015.
2. **Gurjala AN**, Geringer M, Galiano RD, Mustoe TA. How Many Bacteria Does It Take? The Host Immune Response Fails to Prevent Even Low Numbers of Bacteria from Rapidly

Establishing Biofilm Infection in Wounds. Podium presentation, Midwest Association of Plastic Surgeons, Chicago, IL. April 12, 2012.

3. **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. Podium presentation, Plastic Surgery Research Council, Louisville, KY. April 28, 2011.
4. Seth AK, **Gurjala AN**, Geringer M, Hong SK, Galiano RD, Leung KP, Mustoe TA. Treatment of Pseudomonas aeruginosa Biofilm-infected Wounds with Clinical Wound Care Strategies: a Quantitative Study Using an in vivo Rabbit Ear Model. Poster presentation, The American Association of Plastic Surgeons, 90th Annual Meeting, Boca Raton, FL. April 9, 2011.
5. **Gurjala AN**, Geringer M, Hong SJ, Galiano RD, Leung KP, Mustoe TA. Biofilm-forming Staphylococcus aureus Selectively Impairs Wound Healing in the Rabbit Dermal Ulcer Model. Podium presentation, The Wound Healing Society, Annual Meeting, Orlando, FL. April 17, 2010.
6. **Gurjala AN**, Leung KP, Galiano RD, Mustoe TA. Staphylococcus Aureus And Epidermidis Bacterial Biofilms Delay Wound Healing In A Novel Model In Rabbit. Poster presentation, The Wound Healing Society, Annual Meeting, Dallas, TX. April 26, 2009.
7. **Gurjala AN**, Galiano RD, Mustoe TA. Epidermal Activation State Plays A Key Role In The Pathogenesis Of Hypertrophic Scar. Poster presentation, The Wound Healing Society, Annual Meeting, Dallas, TX. April 26, 2009.
8. **Gurjala AN**, Leung KP, Galiano RD, Mustoe TA. A Novel Paradigm in Chronic Wound Pathogenesis: Bacterial Biofilms Significantly Impair Wound Healing in the Rabbit Dermal Ulcer Model. Podium presentation, Midwest Association of Plastic Surgery, Annual Meeting, Chicago, IL. April 18, 2009.
9. **Gurjala AN**, Fang RC, Galiano RD, Mustoe TA. Repetitive Ischemia/Reperfusion Impairs Cutaneous Wound Healing in a Novel Model in Rabbit. Poster presentation, The Wound Healing Society, Annual Meeting, San Diego, CA. April 24, 2009.
10. Rosenberg DP, Liu LL, **Gurjala AN**, Mustoe TA. Aged Rats Display Increased Ischemia Reperfusion Injury in the in vivo Magnet Model. *Wound Repair Regen.* 2008 12(2) A12.
11. **Gurjala AN**, Procaccini P, Jia SX, Mustoe TA, Mogford J. The Impact of Age and Hypoxia on the Dermal Fibroblast Response to Oxidative Stress. Podium presentation, The Wound Healing Society, 13th Annual Meeting, Seattle, WA. May 4, 2003.
12. **Gurjala AN**, Chiou AC, Finn PJ, Simonetti OP, Morasch M. Evaluation of Carotid Stenosis with Gadolinium Enhanced Magnetic Resonance Angiography: A Comparison of Maximum Intensity Projection and Three Dimensional Volume Rendering Post-processing Methods. Podium presentation, The American Roentgen Ray Society, 100th Annual Meeting, Washington D.C., May 7, 2000.
13. **Gurjala AN**, Chiou AC, Finn PJ, Simonetti OP, Pearce WP. Cross-sectional Magnetic Resonance Angiography Is Accurate in Predicting Degree of Carotid Stenosis. Oral

presentation, Society for Clinical Vascular Surgery, 28th Annual Meeting, Rancho Mirage, CA. 2000.

14. **Gurjala AN**, Washington E, Chiou AC, Finn JP, Simonetti OP, Yao JS. Measurement of Luminal Area to Evaluate Carotid Artery Stenosis: Comparison with Ultrasound Sonography and Conventional Angiography. American Heart Association, 72nd Annual Meeting, Atlanta, GA, November 7, 1999.

HOBBIES AND INTERESTS

Technology, design, neuroscience, automobile repair, mechanics, music, photography