

## CURRICULUM VITAE

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Current Positions: Private Practice  
Assistant Clinical Professor, UCSF

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### EDUCATION

1988-92	Dartmouth College	BA	Government
1993-97	NYU School of Medicine	MD	
1997-98	University of California, San Francisco	Intern	General Surgery
1998-00	University of California, San Francisco	Resident	General Surgery
2000-02	University of California, San Francisco (Principal investigator: Louis Messina, M.D.)	Research Fellow	Angiogenesis
2002-04	University of California, San Francisco	Resident	General Surgery
2004-06	University of California, San Francisco	Resident	Plastic Surgery

### LICENSES, CERTIFICATION

1999	Medical Board of California	Certificate number: A68382
2007	American Board of Plastic Surgery	Certificate number: 7222

### HOSPITAL AFFILIATIONS

California Pacific Medical Center	San Francisco, CA
St Mary's Medical Center	San Francisco, CA
Alta Bates Summit Medical Center	Oakland, CA
Mills Peninsula Medical Center	San Mateo, CA
Good Samaritan Hospital	San Jose, CA

### PRINCIPAL POSITIONS HELD

7/1/2006-1/1/2008	UCSF	Assistant Clinical Professor, step 1
1/2/08-8/16/2009	UCSF	Assistant Professor of Clinical Surgery, step 2
8/15/2009-present	UCSF	Assistant Clinical Professor, volunteer

### SERVICE

2007-2009	UCSF Healthcare Technology Assessment Program
2012-present	Carol Ann Read Breast Health Center, Oakland CA Advisory Board Member
2015-present	Jim Browne Foundation Board Member

**PROFESSIONAL ORGANIZATIONS/SOCIETIES**

2004-present Howard Nafziger Surgical Society  
2006-present American Society of Plastic Surgeons, Member  
2007-present American College of Surgeons, Fellow  
2007-present American Society for Aesthetic Plastic Surgery Candidate  
2009-present San Francisco Surgical Society  
2011-present American Society for Reconstructive Microsurgery

**HONORS AND AWARDS**

1992 Dartmouth College - Cum laude  
1992 New England College Lacrosse All-Star Game

**INVITED PRESENTATIONS**

Northern California Vascular Society, "Therapeutic Angiogenesis for Critical Limb Ischemia." San Francisco, CA 02/21/02

California Pacific Medical Center Surgery Grand Rounds, "Abdominal Compartment Syndrome." San Francisco, CA 01/24/03

UCSF, Dept of Surgery Grand Rounds, "Molecular Therapy for Critical Limb Ischemia." San Francisco, CA 04/09/03

UCSF, Dept of Surgery Intern Lecture, "Wounds: Principles of Healing and Care." San Francisco, CA 10/17/03

UCSF, Division of Plastic Surgery Alumni Meeting, "Implantable Venous Doppler Accurately Predicts Anastomotic Patency of Microvascular Free Flaps for Head & Neck Reconstruction." San Francisco, CA 02/24/06

SFGH Rehabilitation Services Grand Rounds, "Extremity Reconstruction." San Francisco, CA 12/20/06

UCSF Bariatric Support Group, "Plastic Surgery After Massive Weight Loss." San Francisco, CA 04/18/07

UCSF Postgraduate Course in General Surgery, "Advances in Breast Reconstruction." San Francisco, CA 03/27/08

American College of Surgeons Clinical Congress, "Advances in abdominal wall closure." San Francisco, CA 10/14/08

UCSF, Dept of Surgery Grand Rounds, Clinical Case Conference. San Francisco, CA 10/22/08

UCSF 12 Long Nursing Conference, "Microsurgical Reconstruction." San Francisco, CA 11/04/08

UCSF 7<sup>th</sup> Biennial Plastic Surgery Scientific Program, "Abdominal Wall Reconstruction." San Francisco, CA 06/19/09

California School of Podiatric Medicine Alumni and Associates Wound Care Update, "Surgical treatment of lower extremity wounds." Oakland, CA 03/27/10

Carol Ann Reed Breast Health Center, Alta Bates Summit Medical Center, "DIEP Flap for Breast Reconstruction", Oakland, CA 09/21/10

UCSF Resident Teaching Conference "Breast Reconstruction with the DIEP Flap", San Francisco, CA 10/25/10

California Pacific Medical Center "Breast Reconstruction in the BRCA Positive Patient" San Francisco, CA 01/19/2011

UCSF Plastic Surgery Update, "Microsurgical breast reconstruction in the obese patient." San Francisco, CA 06/24/11

7<sup>th</sup> Annual Microsurgical Nursing Symposium CPMC Davies "Signs of Flap Complications" San Francisco, CA 10/4/2012

Cancer Prevention Institute of California 11<sup>th</sup> Annual Allison Taylor Holbrooks/Barbara Jo Johnson Breast Cancer Conference, "The Art of Reconstruction." San Francisco, CA 03/04/12

Cancer Prevention Institute of California 11<sup>th</sup> Annual Allison Taylor Holbrooks/Barbara Jo Johnson Breast Cancer Conference, "Reconstructive Breast Surgery: Flaps." San Francisco, CA 03/02/13

Bay Area Cancer Connections Support Group Meeting, Guest Speaker, Palo Alto, CA 02/27/2014

ABSMC Nursing Skills Lab "Microsurgical Breast Reconstruction" Oakland, CA 09/28/2015

Bay Area Cancer Connections Support Group Meeting, Guest Speaker, Palo Alto, CA 04/21/2014

## **PEER REVIEWED PUBLICATIONS**

1. Waikar SS, Thalhammer JG, Raymond SA, Huang JH, **Chang DS**, Strichartz GR. Mechanoreceptive afferents exhibit functionally-specific activity dependent changes in conduction velocity. *Brain Res* 1996 May 20; 721(1-2):91-100.
2. Rohde DS, McKay WR, **Chang DS**, Abbadie C, Basbaum AI. The contribution of supraspinal, peripheral and intrinsic spinal circuits to the pattern and magnitude of Fos-like immunoreactivity in the lumbar spinal cord of the rat withdrawing from morphine. *Neuroscience* 1997 Sep; 80(2):599-612.
3. **Chang DS**, Rafii M, McGuinness G, Jagirdar JS. Primary multifocal tuberculous osteomyelitis with involvement of the ribs. *Skeletal Radiology* 1998 Nov; 27(11):641-5.

4. Brevetti LS, Sarkar R, **Chang DS**, Ma M, Paek R, Messina LM. Administration of adenoviral vectors induces gangrene in acutely ischemic rat hindlimbs: role of capsid protein-induced inflammation. *J Vasc Surg* 2001 Sept; 34(3):489-96.
5. Paek R, **Chang DS**, Brevetti LS, Rollins M, Brady S, Ursel PC, Hunt TK, Sarkar R, Messina LM. Correlation a simple direct measurement of muscle pO<sub>2</sub> to a clinical ischemia index and histology in a rat model of chronic severe hindlimb ischemia. *J Vasc Surg* 2002 July; 36(1):172-79.
6. Brevetti LS, **Chang DS**, Sarkar R, Messina LM. The effect of adenoviral titer and instillation pressure on gene transfer efficiency to arterial and venous grafts ex-vivo. *J Vasc Surg* 2002 Aug; 36(2):263-70.
7. **Chang DS**, Su H, Tang GL, Brevetti LS, Sarkar R, Wong R, Kan YW, Messina LM. Adeno-associated viral vector-mediated gene transfer of vascular endothelial growth factor normalizes skeletal muscle oxygen tension and induces arteriogenesis in ischemic rat hindlimb. *Mol Ther* 2003 Jan; 7(1):44-51.
8. Brevetti LS, **Chang DS**, Sarkar R, Messina LM. Over-expression of nitric oxide synthase increases skeletal muscle blood flow and oxygenation in severe rat hindlimb ischemia. *J Vasc Surg* 2003 Oct; 38(4):820-6.
9. Tang GL, **Chang DS**, Sarkar R, Wang R, Messina LM. The effect of gradual or acute arterial occlusion on skeletal muscle blood flow, arteriogenesis, and inflammation in rat hindlimb ischemia. *J Vasc Surg*. 2005 Feb;41(2):312-20.
10. **Chang DS**, McGrath MH. Topical scar modification; hype or help? *Aesthetic Surgery Journal*. 2005 May/June 25(3):304-06.
11. Rosenfield LK, **Chang DS**. Flash fires during facial surgery: recommendations for the safe delivery of oxygen. *Plast Reconstr Surg*. 2007 May 119(6):1982.
12. **Chang DS**, McGrath MH. Management of benign tumors of the adolescent breast. *Plast Reconstr Surg*. 2007 July 120(1):13e-19e.
13. Gruber RP, Kryger G, **Chang DS**. The intercartilaginous graft for actual and potential alar retraction. *Plast Reconstr Surg*. 2008 May;121(5):288e-296e.
14. Rosenfield LK, **Chang DS**. The error of omission: a simple checklist approach to improve operating room safety. *Plast Reconstr Surg*. 2009 Jan;123(1):399-402.
15. Mohebbi K, Young DM, Hansen SL, Shano A, Friese CE, **Chang DS**, Maa J, Harris HW. Recurrence rate and complications of open incisional hernia repair at an academic tertiary care medical center. *Arch Surg* 2009 Sept;144(9):848-52.
16. Schecter WP, Hirshberg A, **Chang DS**, Harris HW, Napolitano LM, Wexner SD, Dudrick SJ. Enteric Fistulae: Principles of management. *J Am Coll Surg* 2009 Oct;209(4):484-91.

17. Paydar KZ, Hansen SL, **Chang DS**, Hoffman WY, Leon P. Implantable venous doppler monitoring in head and neck free flap reconstruction increases salvage rate. *Plast Reconstr Surg*. 2010 Apr;125(4):1129-34.
18. Dunn AA, Belek KA, Devcic Z, Rathnayake S, Kuo JH, Kuri M, **Chang DS**, Hansen SL. Surgical treatment options for subacute ischemia of the hand: case report and literature review. *Eplasty*. 2010 Apr 12;10:e30.
19. Cetrullo CL, Leto Barone AA, Jordan K, **Chang DS**, Louie K, Buntic RF, Brooks D. A multi-disciplinary approach to the management of fungal osteomyelitis: current concepts in post-traumatic lower extremity reconstruction: a case report. *Microsurgery* 2012 Feb;32(2):144-7.
20. DM Balkin, Q-Y Duh, GM Kind, **DS Chang**, MD, MH McGrath. Failed Pneumoperitoneum for Laparoscopic Surgery Following Autologous Deep Inferior Epigastric Perforator (DIEP) Flap Breast Reconstruction: A Case Report. *BMC Surgery*. Accepted for publication 3/22/2016.

#### **NON-PEER REVIEWED PUBLICATIONS**

1. Messina LM, Brevetti LS, **Chang DS**, Paek R, Sarkar R. Therapeutic angiogenesis for critical limb ischemia: invited commentary. *Journal of Controlled Release* 2002 Jan 17; 78(1-3):285-94.
2. Chang DS. The Use of Intraoperative Laser Angiography to Assist Decision-Making in Perforator Flap Surgery . *Plastic Surgery News Pulse*. Vol 4, No 2. <http://www.plasticsurgerypulsenews.com>

#### **BOOKS AND CHAPTERS**

1. **Chang DS**. Basics of Microsurgery. In Janis JE (Ed). Essentials of Plastic Surgery. Quality Medical Publishing, St Louis, 2007.
2. **Chang DS**. Hand Anatomy. In Janis JE (Ed). Essentials of Plastic Surgery. Quality Medical Publishing, St Louis, 2007.
3. **Chang DS**. Amputations. In Janis JE (Ed). Essentials of Plastic Surgery. Quality Medical Publishing, St Louis, 2007.
4. Toth BA, **Chang DS**. Embracing the High SMAS for facial rejuvenation. In Eisenmann-Klein M, Neuhann-Lorenz C (Ed). Innovations in Plastic and Aesthetic Surgery. Springer-Verlag, Berlin, 2008.
5. **Chang DS**. Ancillary non-surgical treatments: trunk and abdomen. In Scuderi N and Toth BA (Ed). International Textbook of Aesthetic Surgery, Verduci, Rome, 2012.
6. **Chang DS** and Hoffman WY. Plastic Surgery for Primary Reconstruction. In Ames C, (Ed). Spine and Spinal Cord Tumors: Advanced Management and Operative Techniques. Quality Medical Publishing, St. Louis, Expected publication 2014.

7. **Chang DS** et al. Basics of Microsurgery. In Janis JE (2<sup>nd</sup> Ed). Essentials of Plastic Surgery. Quality Medical Publishing, St Louis, 2014.
8. **Chang DS** et al. Hand Anatomy and Biomechanics. In Janis JE (2<sup>nd</sup> Ed). Essentials of Plastic Surgery. Quality Medical Publishing, St Louis, 2014.
9. **Chang DS** et al. Hand and Finger Amputations. In Janis JE (2<sup>nd</sup> Ed). Essentials of Plastic Surgery. Quality Medical Publishing, St Louis, 2014

## ABSTRACTS AND PRESENTATIONS

1. Raymond SA, Thalhammer, JG, **Chang DS**, Strichartz, GR. Computerized stimulation patterns reveal activity-dependent changes in latency inhibited by sub-blocking concentrations of lidocaine. *Society for Neuroscience Abstracts* 1993; 19.
2. Waikar SS, Thalhammer JG, Raymond SA, **Chang DS**, Strichartz GR. Activity-dependent changes in conduction latency: a probe of modal specificity of mechanosensitive afferents in rats. *Society for Neuroscience Abstracts* 1994; 20.
3. Rohde DS, McKay WR, **Chang DS**, Basbaum AI. Changes in lumbar dorsal horn fos-like immunoreactivity (FLI) during morphine withdrawal: effect of spinal transection, dorsal rhizotomy or neonatal capsaicin treatment. *Society for Neuroscience Abstracts* 1995; 21.
4. **Chang DS**, Brevetti LS, Sarkar R, Messina LM. The efficiency of naked plasmid DNA over cationic lipid mediated gene transfer in an experimental model of hindlimb ischemia. American Association for Vascular Surgery / Society for Vascular Surgery National Meeting, Baltimore, MD, June 2001.
5. Brevetti LS, **Chang DS**, Ma M, Sarkar R, Messina LM. Nitric oxide gene transfer increases skeletal muscle blood flow and oxygen concentration in an experimental model of hindlimb ischemia. American Association for Vascular Surgery / Society for Vascular Surgery National Meeting, Baltimore, MD, June 2001.
6. Brevetti LS, **Chang DS**, Sarkar R, Messina LM. Adenoviral mediated gene transfer in porcine arterial and venous grafts under physiologic pressure. Western Vascular Association Annual Meeting. Santa Fe, NM, September 2001.
7. **Chang DS**, Brevetti LS, Sarkar R, Messina LM. Transfection efficiency of intra-arterial vs. intra-muscular naked plasmid DNA mediated gene transfer in ischemic skeletal muscle. Association of Academic Surgeons 35<sup>th</sup> Annual Meeting. Milwaukee, WI, November 2001.
8. **Chang DS**, Su H, Tang GL, Yee K, Sarkar R, Kan YW, Messina LM. Adeno-associated virus mediated gene transfer of vascular endothelial growth factor increases collateral artery formation and tissue oxygen concentration in rat hindlimb ischemia. American

Association for Vascular Surgery / Society for Vascular Surgery National Meeting, Boston, MA, June 2002.

9. Tang GL, **Chang DS**, Wang R, Messina LM. Effect of gradual versus acute arterial occlusion on skeletal muscle inflammation, oxygen tension, and blood flow in rat hindlimb ischemia. Ninth Annual Western Vascular Resident Forum. Western Vascular Association Annual Meeting. Newport Beach, CA, September 2002.
10. Paydar KZ, Hansen SL, **Chang DS**, Boudreau NJ, Young DM. Decreased Hypoxia Inducible Proteins are Associated with Delayed Wound Healing. Plastic Surgery Research Council Annual Meeting. Las Vegas, NV, April 2003.
11. Paydar KZ, Hansen SL, **Chang DS**, Boudreau NJ, Young DM. Activation of the Hypoxia Inducible Factor-1 Pathway Improves Diabetic Wound Healing. American College of Surgeons Annual Clinical Congress. Chicago, IL, October 2003.
12. Paydar KZ, Hansen S, **Chang DS**, Boudreau N, Young DM. Activation of hypoxia inducible factor-1 pathway improves diabetic wound healing. *Journal of the American College of Surgeons* 2003 Sep; 197(3):S52.
13. Cetrulo CL, **Chang DS**, Brooks D. Lower Extremity Salvage in *Scedosporium inflatum* Osteomyelitis Using a Rectus Abdominis Free Flap, Transport Distraction Osteogenesis and a Novel Antifungal Regimen. California Plastic Surgeons Association Meeting. Napa, California, June 2005.
14. Paydar KZ, Hansen SL, **Chang DS**, Young DM, Foster R, Hoffman WY, Leon P, and Mathes SJ. Implantable Venous Doppler Accurately Predicts Anastomotic Patency of Microvascular Free Flaps For Head and Neck Reconstruction. California Plastic Surgeons Association Meeting. Napa, California, June 2005.
15. **Chang DS**, Kular R, Dosanjh A, Young DM, Hansen SL. Delayed Free Flap Coverage Of Severe Lower Extremity Fractures Does Not Increase Flap Related Complications And Non-union. American Society of Plastic Surgery Senior Residents Conference. Arlington, VA March 2006.
16. **Chang DS**, Dosanjh A, Young DM, Hansen SL. Delayed Free Flap Coverage Of Severe Lower Extremity Fractures Does Not Increase Flap Related Complications And Non-union. California Society of Plastic Surgeons Annual Meeting. Las Vegas, NV June 2006.
17. Dosanjh A, Camberos A, Paydar K, Miranda EP, Kuri M, **Chang DS**, Lee C, Hansen SL. The Genuate Artery is a Reliable Recipient Vessel for Lower Extremity Microvascular Reconstruction. California Society of Plastic Surgeons Annual Meeting. Las Vegas, NV June 2006.
18. Paydar KZ, Hansen SL, **Chang DS**, Young D, Hoffman WY, Leon P. Implantable venous Doppler accurately predicts anastomotic patency of microvascular free flaps for head & neck reconstruction. American Society of Plastic Surgery Senior Residents Conference. Pasadena, CA, January 2007.

19. Paydar KZ, Hansen SL, Eichler CM, Young DM, **Chang DS**. Limb Salvage in Complex Lower Extremity Wounds Treated with Distal Revascularization and Free Flap. California Society of Plastic Surgeons Meeting, San Francisco, CA, May 2007.
20. **Chang DS**, Sen M, Kandemir U, Young DM, Hansen SL. Free Flaps Preserve Limb Length in Traumatic Lower Extremity Amputations. California Society of Plastic Surgeons Meeting, San Francisco, CA, May 2007.
21. Lin AY, **Chang DS**, Hansen SL, Leon P, Hoffman WY. Free flaps provide effective coverage of complete intracranial skull base defects. California Society of Plastic Surgeons Meeting, Dana Point, CA, June 2008.
22. Maa J MD, **Chang DS**, Mohebalı K, Young D. Technical factors contributing to recurrence of incisional hernia after a previous laparoscopic ventral hernia repair. Pacific Coast Surgical Society Annual Meeting, Feb 14, 2009, San Francisco.
23. Mohebalı K, Hansen SL, Maa J, Young DM, Friese C, **Chang DS**, Harris H. Recurrence Rate and Complications of Open Incisional Hernia Repair at an Academic Tertiary Care Medical Center. Pacific Coast Surgical Society Annual Meeting, Feb 16, 2009, San Francisco, CA.
24. Zeidler KR, **Chang DS**, Belek K, Young DM, Hansen S. Admission to a large urban hospital for hand infections: Comparing trained hand surgeons with emergency medicine physicians. American College of Surgeons Clinical Congress, Oct 2009, Chicago, IL.