BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITLE
Chang, James MD	Professor of Surgery [Plastic Surgery] &Orthopedic Surgery; Stanford University Medical Center

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
Stanford University	B.A.S.	1987	Biology & Economics
Yale University	M.D.	1993	Medicine

A. POSITIONS AND HONORS

Positions and Employment

1993-96: Stanford University Medical Center, Resident in Surgery
1996-1998: Stanford University Medical Center, Resident in Plastic & Reconstructive Surgery
1998-2000: Assistant Professor of Surgery [Plastic Surgery], Stanford University
1999-2000: Clinical Instructor in Orthopedic Surgery - Hand & Microsurgery Fellow, UCLA Medical Center
1998-2006: Chief, Plastic & Reconstructive Surgery, V.A. Palo Alto Health Care System
2000-2008: Program Director, Stanford Plastic Surgery Residency Program
2002-2006: Associate Professor of Surgery [Plastic Surgery] and Orthopedic Surgery, Stanford University
2006-present: Professor of Surgery [Plastic Surgery] and Orthopedic Surgery, Stanford University
Chief, Division of Plastic & Reconstructive Surgery, Stanford University Medical Center

Other Experience and Professional Memberships

Research Director – American Society for Surgery of the Hand
Director – American Association for Hand Surgery
Associate Editor - Journal of Hand Surgery; Annals of Plastic Surgery; Microsurgery; Hand
Member – Association of Academic Chairmen in Plastic Surgery
Member - American Society of Plastic Surgeons
Member – Plastic Surgery Research Council
Member – California Society of Plastic Surgeons
Fellow - American College of Surgeons

Honors

2006 ASSH Sterling Bunnell Traveling Fellowship
2004 CSPS Meeting Best Resident Paper Award [Dr. Steven Bates]
2003 Royal College of Surgeons Foundation Traveling Lectureship
2001 PSRC Meeting Snyder Plastic Surgery Resident Paper Award [Dr. Matthew Klein]
2000 CSPS Meeting Best Overall Paper Award
1999 PSEF Scholarship Essay Award – First Place
1999 ASSH Meeting Joseph Boyes Best Resident Paper Award [Dr. Yvonne Karanas]
1999 CSPS Meeting Best Resident Paper Award [Dr. Yvonne Karanas]
Alpha Omega Alpha Society - Yale Medical School Chapter
Cum Laude Graduation Honors - Yale Medical School
1993 American College of Surgeons - Connecticut Chapter Award
1991 John Fulton Prize

B. SELECTED PEER-REVIEWED PUBLICATIONS (IN CHRONOLOGICAL ORDER)

(Publications selected from 101 peer-reviewed publications)

- Chang J, Most D, Stelnicki E, et al. Gene Expression of Transforming Growth Factor Beta-1 in Rabbit Zone II Flexor Tendon Wound Healing: Evidence For Dual Mechanisms of Repair. Plastic & Reconstructive Surgery, 100; 937, 1997.

- Chang J, Most D, Mehrera B, et al. Molecular Studies in Flexor Tendon Wound Healing: The Role of Basic Fibroblast Growth Factor. Journal of Hand Surgery, 23A: 1052, 1998.

- Most D, Levine JP, Chang J, et al. Upregulation of Transforming Growth Factor-Beta1 and Basic Fibroblast Growth Factor mRNA Correlates with Posterior Frontal Cranial Suture Fusion in the Rat Model. Plastic & Reconstructive Surgery, 101: 1431, 1998.

- Mehrara B, Most D, Chang J, et al. Basic Fibroblast Growth Factor and Transforming Growth Factor Beta-1 Expression in the Developing Dura Mater Correlates with Calvarial Bone Formation. Plastic & Reconstructive Surgery, 104: 435, 1999.

- Chang J, Most D, Bresnick S, et al. Proliferative Hemangiomas: Analysis of Cytokine Gene Expression and Angiogenesis. Plastic & Reconstructive Surgery, 103: 1, 1999.

- Chang J, Thunder R, Most, D, et al. Studies in Flexor Tendon Wound Healing: Neutralizing Antibody to TGF-Beta 1 Increases Post-operative Range of Motion. Plastic & Reconstructive Surgery, 105: 148, 2000.

- Lorenz HP, Hedrick MH, Chang J, et al. The Impact of Biomolecular Medicine and Tissue Engineering on Plastic Surgery in the 21st Century. Plastic & Reconstructive Surgery, 105: 2467, 2000.

- Ngo MT, Pham H, Longaker M, Chang J. Differential Expression of Transforming Growth Factor-Beta Receptors in a Rabbit Zone II Flexor Tendon Wound Healing Model. Plastic & Reconstructive Surgery, 108: 1260-1267, 2001.

- Klein MB, Yalamanchi N, Pham H, Chang J. Flexor Tendon Wound Healing *In Vitro*: The Effect of Lactate on Tendon Cell Proliferation and Collagen Production. Journal of Hand Surgery, 26A: 847-854, 2001.

- Klein M, Chan P, Chang J. Protective Effects of Superoxide Dismutase Against Ischemia Reperfusion Injury: Development and Application of a Transgenic Model. Plastic & Reconstructive Surgery, 111: 251-255, 2003.

- Zhang A, Pham H, Ho F, Teng K, Longaker MT, Chang J. Inhibition of TGF-Beta-induced Collagen Production in Rabbit Flexor Tendons. Journal of Hand Surgery, 29A: 230-235, 2004.

- Yalamanchi N, Klein MB, Pham H, Longaker MT, Chang J. Flexor Tendon Wound Healing *In Vitro*: Lactate Upregulation of TGF-Beta Expression and Functional Activity. Plastic & Reconstructive Surgery, 113: 625-632, 2004.

- Fong KD, Trindade MC, Wang Z, Nacamuli RP, Pham H, Fang TD, Song HJ, Smith RL, Longaker MT, Chang J. Microarray Analysis of Mechanical Shear Effects on Flexor Tendon Cells. Plastic & Reconstructive Surgery, 116: 1393-1404, 2005.

- Page R and Chang J. Soft Tissue Reconstruction in the Hand and Wrist: Alternatives to the Radial Forearm Fasciocutaneous Flap, Journal of Hand Surgery, 31: 847-856, 2006.

- Chong AK and Chang J. Tissue Engineering for the Hand Surgeon: A Clinical Perspective. Journal of Hand Surgery, 31: 349-358, 2006.

- Lee L, Zhang AY, Chong AK, Pham H, Longaker MT, Chang J. Expression of a Novel Gene, MafB in Dupuytren's Disease. Journal of Hand Surgery, 31: 211-218, 2006.

- Costa MA, Wu C, Pham BV, Chong A, Pham HM, Chang J. Tissue Engineering of Flexor Tendons: Optimization of Tenocyte Proliferation Using Growth Factor Supplementation. Tissue Engineering, 12: 1937-1943, 2006.

- Bates SJ, Morrow E, Zhang AY, Pham H, Longaker MT, Chang J. Mannose-6-Phosphate, An Inhibitor of TGF-Beta, Improves Flexor Tendon Repair. Journal of Bone and Joint Surgery (Am), 88: 2465-72, 2006.

- Satterwhite T, Chong A, Luo J, Pham H, Costa M, Longaker MT, Wyss-Coray T, Chang J. In Vitro Analysis of TGF-β1 Inhibition in Transgenic SBE-luciferase Mice. Annals of Plastic Surgery, 59: 762-6, 2007.

- Chong A, Satterwhite T, Luo J, Pham H, Costa M, Longaker MT, Wyss-Coray T, Chang J. Live Imaging of Smad2/3 Signaling in Mouse Skin Wound Healing. Wound Repair and Regeneration, 15: 762-766, 2007.

- Spain DA, Bellino M, Kopelman A, Chang J, Park J, Gregg DL, Brundage SI. Requests for Transfer to an Academic level I Trauma Center: Implications of the Emergency Medical Treatment and Active Labor Act (EMTALA). Journal of Trauma, 62: 63-68, 2007.

- Kryger G, Chong AK, Costa M, Pham H, Bates SJ, Chang J. A Comparison of Tenocytes and Mesenchymal Stem Cells for Use in Flexor Tendon Tissue Engineering. Journal of Hand Surgery, 32A, 597-605, 2007.

- Nigriny J, Chang J, Karanas YL. The Timing of Microsurgical Reconstruction in Lower Extremity Trauma. Microsurgery, 28: 632-634, 2008.

- Zhang AY, Bates SJ, Morrow E, Pham BV, Pham HM, Chang J. Tissue Engineering of Flexor Tendons: Optimization of Acellularization and Seeding. Journal of Rehabilitation Research & Development, accepted.

- Riboh J, Chong A, Pham H, Longaker M, Jacobs C, Chang J. Cyclic Strain Increases Cell Proliferation and Collagen Production in Candidate Cell Lines for Rabbit Flexor Tendon Engineering. Journal of Hand Surgery, 33A: 1388-1396, 2008.

- Yao J, Korotkova T, Riboh J, Chong A, Chang J, Smith RL. Bioactive Sutures for Tendon Repair: Assessment of a Method of Delivering Pluripotential Embryonic Cells, Journal of Hand Surgery, 33A:1558-1564, 2008.

C. RESEARCH SUPPORT

VA Medical Merit Review Grant - $440,000. – [4/07 – 3/11]
"Tissue Engineered Flexor Tendon Grafts for Extremity Reconstruction"

VA RR&D Merit Review Grant – $330,000. – [10/06 - 9/09]
"Optimization of Bioengineered Tendons Using Bioreactors and Stem Cells"

American Association of Hand Surgery Research Award – [1/06 – 12/06] $5,000. -
"Bioreactors in Flexor Tendon Tissue Engineering"

2005 American Society for Surgery of the Hand Research Award – [1/05 – 12/05] $20,000. –
"Scarless Flexor Tendon Wound Healing: Tissue Engineering of Intrasynovial Tendon Grafts"

VA Merit Review Grant: $360,000. – [4/02 - 4/05] "Modulation of TGF-Beta in Scarless Flexor Tendon Wound Healing"

Stanford OTL Award $25,000. – [9/01 - 8/02] "Tissue Engineered Cartilage Grafts in the Hand"