




## James Chang, MD

Johnson and Johnson Professor of Surgery and Professor, by courtesy, of Orthopaedic Surgery

Surgery - Plastic & Reconstructive Surgery

 NIH Biosketch available Online

 Curriculum Vitae available Online

### CLINICAL OFFICES

- **Hand and Upper Extremity North Campus**

450 Broadway St

Pavilion A 2nd Fl MC 6120

Redwood City, CA 94063

**Tel** (650) 723-5256      **Fax** (650) 721-3422

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- **Pediatric Hand and Upper Extremity Clinic**

730 Welch Rd

MC 5890 1st Fl

Palo Alto, CA 94304

**Tel** (650) 723-4818      **Fax** (650) 497-8891

### ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Angela Sotelo - Administrative Assistant

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### Bio

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#### BIO

Dr. James Chang is currently the Johnson & Johnson Distinguished Professor and Chief of the Division of Plastic and Reconstructive Surgery at Stanford University.

Dr. Chang graduated from Stanford University with a Bachelor of Arts and Sciences with joint degrees in Biology and Economics. He spent a year as a lecturer in English at the Beijing University of Science and Technology in Beijing, People's Republic of China. Following this, he graduated from Yale Medical School with Alpha Omega Alpha and Cum Laude honors. From 1991 to 1993, he was a Sarnoff Laboratory Research Fellow at the University of California, San Francisco Medical Center. He then completed a residency in Plastic and Reconstructive Surgery at Stanford University Medical Center. Dr. Chang was a Clinical Instructor in Orthopedic Surgery and the Hand & Microsurgery Fellow at U.C.L.A. Medical Center from 1999-2000. He is currently Professor of Plastic Surgery and Orthopedic Surgery at Stanford University Medical Center. He is also an Attending Surgeon at Lucile Salter Packard Children's Hospital and the VA Palo Alto Health Care System, where he serves as Director of the Plastic and Hand Surgery Laboratory.

His basic science research interests include modulation of Transforming Growth Factor-Beta in scarless flexor tendon wound healing and tissue engineered flexor tendon grafts for hand reconstruction. He has expertise in molecular biology and tissue engineering techniques and their applications to plastic and hand surgery

research. Dr. Chang is the recipient of numerous grants including two recent multi-year Federal Merit Review Awards on “Tissue Engineered Flexor Tendon Grafts for Extremity Reconstruction” and “Optimization of Bioengineered Tendons Using Bioreactors and Stem Cells”. He has been federally-funded for his research since 1998.

Dr. Chang is the past Editor-in-Chief of the Yearbook of Hand Surgery and an Associate Editor for the journals, Journal of Hand Surgery, Annals of Plastic Surgery, Hand, and Microsurgery. He was the Royal College of Surgeons Foundation traveling fellow and was awarded the 2006 Sterling Bunnell Traveling Fellowship by the American Society for Surgery of the Hand. He was Research Director for the American Society for Surgery of the Hand (ASSH) and managed the grant portfolio and programs of this national organization. He was Treasurer for the ASSH from 2011-2014. Dr. Chang served as President of the ASSH from 2017-18. Dr. Chang was Vice-Chair of the Plastic Surgery Residency Review Committee of the ACGME and the Secretary/Treasurer of the American Board of Plastic Surgery. He was elected to the American Surgical Association in 2010.

Dr. Chang's main surgical interests are in reconstructive surgery of the hand and extremities including microsurgical reconstruction. He also has interest in pediatric hand and microsurgery, post-oncologic head and neck reconstruction, and lower extremity reconstruction.

### **CLINICAL FOCUS**

- Hand and Upper Extremity Surgery
- Plastic and Reconstructive Surgery
- Pediatric Hand Problems
- Peripheral Nerve Injuries
- Facial Nerve Injuries
- Plastic Surgery
- Hand Tumors
- Hand Arthritis
- Carpal Tunnel Syndrome
- Hand Scleroderma
- Microsurgery
- Complex Reconstruction
- Free Flap Reconstruction
- Lower Extremity Reconstruction
- Dupuytren's Disease
- Tendon Transfer
- Thumb Reconstruction
- Facial Paralysis
- Hand Fractures
- Microvascular Hand Surgery
- Hand Deformities

### **ACADEMIC APPOINTMENTS**

- Professor - University Medical Line, Surgery - Plastic & Reconstructive Surgery
- Member, Bio-X

## **ADMINISTRATIVE APPOINTMENTS**

- Associate Editor, Hand, (2006-2020)
- Associate Editor, Microsurgery, (2002-2010)
- Associate Editor, Annals of Plastic Surgery, (2007-2020)
- Associate Editor, Journal of Hand Surgery, (2003-2013)
- Editor, Yearbook of Hand Surgery, (2005-2009)
- Board of Directors, American Association for Hand Surgery, (2007-2009)
- Research Director, American Society for Surgery of the Hand, (2007-2010)
- Program Director, Plastic Surgery, Stanford University Medical Center, (1999-2008)
- Plastic Surgery Residency Review Committee Member, Accreditation Council on Graduate Medical Education, (2010-2017)
- Board Member, American Board of Plastic Surgery, (2010-2017)
- Treasurer, American Society for Surgery of the Hand, (2011-2014)
- Undergraduate Advisor, Stanford University, (2004- present)
- Senior Fellow, Center for Innovation in Global Health, Stanford University, (2015- present)
- Chief, Division of Plastic & Reconstructive Surgery, (2006- present)
- Johnson & Johnson Distinguished Professor of Surgery, Stanford University, (2015- present)
- President, American Society for Surgery of the Hand, (2017-2018)

## **HONORS AND AWARDS**

- Scholarship Essay Award # First Place, Plastic Surgery Educational Foundation (1999)
- Leslie M. Hovey Teacher of the Year Award, Stanford Plastic Surgery (2003)
- Royal College of Surgeons Foundation Traveling Lectureship, Royal College of Surgeons (2003)
- Sterling Bunnell Traveling Fellow, American Society for Surgery of the Hand (2006-07)
- Stanford University Asian-American Faculty Award, Stanford University (2011)
- Andrew J. Weiland Medal for Research Achievement, American Society for Surgery of the Hand (2011)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Vice-Chair, ACGME Residency Review Committee in Plastic Surgery (2010 - 2016)
- President, American Society for Surgery of the Hand (2017 - 2018)
- Secretary/Treasurer, American Board of Plastic Surgery (2010 - 2016)

## **PROFESSIONAL EDUCATION**

- Internship: Stanford University Dept of General Surgery (1994) CA
- Medical Education: Yale School Of Medicine (1993) CT
- Residency: Stanford University Dept of Plastic Surgery (1998) CA
- Fellowship: UCLA Medical Center Fellowship Programs (2000) CA
- Board Certification: Plastic Surgery, American Board of Plastic Surgery (1999)
- Board Certification: Surgery of the Hand, American Board of Plastic Surgery (2002)
- MD, Yale Medical School , Medicine (1993)
- BAS, Stanford University , Biology & Economics (1987)

## COMMUNITY AND INTERNATIONAL WORK

- Resurge International
- Stanford-Cambodia Hand Surgery

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My role in research is to apply novel advances in tissue engineering and microsurgery to the clinical problems of hand trauma, peripheral nerve injuries, and congenital hand problems. I am interested in developing new tissues and techniques that will allow optimal reconstruction of form and function to those patients requiring reconstructive surgery.

## Teaching

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### COURSES

#### 2022-23

- Surgical Anatomy of the Hand: From Rodin to Reconstruction: SURG 70Q (Win)

#### 2021-22

- Surgical Anatomy of the Hand: From Rodin to Reconstruction: SURG 70Q (Win)

#### 2019-20

- Surgical Anatomy of the Hand: From Rodin to Reconstruction: SURG 70Q (Win)

## Publications

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### PUBLICATIONS

- **Biomechanical, Histologic, and Micro-Computed Tomography Characterization of Partial-Width Full-Thickness Supraspinatus Tendon Injury in Rats.** *The Journal of hand surgery*  
Oda, H., Kaizawa, Y., Franklin, A., Rangel, U. S., Min, J. G., Akerman, J., Storaci, H., Wang, Z., Abrams, G. D., Chang, J., Fox, P. M.  
2022
- **A Framework and Blueprint for Building Capacity in Global Orthopaedic Surgical Outreach.** *The Journal of bone and joint surgery. American volume*  
Shapiro, L. M., Welch, J. M., Chatterjee, M., Katarincic, J. A., Leversedge, F. J., Dyer, G. S., Fufa, D. T., Kozin, S. H., Chung, K. C., Fox, P. M., Chang, J., Kamal, R. N.  
2022
- **The Development and Validation of Data Elements and Process Steps for an Electronic Health Record for Hand Surgery Outreach Trips** *JOURNAL OF HAND AND MICROSURGERY*  
Shapiro, L. M., Chang, J., Fox, P. M., Kozin, S., Chung, K. C., Dyer, G. M., Fufa, D., Leversedge, F., Katarincic, J., Kamal, R.  
2022
- **Expansion of Reconstructive Surgical Capacity in Vietnam: Experience from the ReSurge Global Training Program.** *Plastic and reconstructive surgery*  
Luan, A., Hau, L. T., Thom, D. H., Viet, P. Q., Auten, B., Chang, J.  
1800
- **Single Institution's Plastic Surgery Case Trends and Considerations in the Midst of COVID-19.** *Plastic and reconstructive surgery*  
Ma, I. T., Dayani, F., Yesantharao, P., Chang, J., Hawn, M. T., Wald, S., Lee, G. K., Nazerali, R.  
2021
- **Post-surgical wireless monitoring of arterial health progression.** *iScience*  
Ruth, S. R., Kim, M., Oda, H., Wang, Z., Khan, Y., Chang, J., Fox, P. M., Bao, Z.  
2021; 24 (9): 103079

- **Surgical Team Trips to Vietnam: Implementation of a Dedicated Cleft Palate Perioperative Program Improves Fistula Rates.** *Annals of plastic surgery*  
Sue, G. R., Deptula, P. L., Chang, J.  
2021
- **A new model for educational programming in global health emerges during COVID-19.** *Journal of global health*  
Long, C., Meyers, N., Nyoni, T., Sivaraj, D., Muguti, G. I., Chang, J.  
2021; 11: 03034
- **Are We Curing by Cutting? A Call for Long-Term Follow Up and Outcomes Research in Global Surgery Interventions - Perspective.** *International journal of surgery (London, England)*  
Luan, A., Mghase, A. E., Meyers, N., Chang, J.  
2021
- **Proceed with Caution: Mouse Deep Digit Flexor Tendon Injury Model.** *Plastic and reconstructive surgery. Global open*  
Titan, A. L., Fahy, E. n., Chen, K. n., Foster, D. S., Bennett-Kennett, R. n., Dauskardt, R. H., Gurtner, G. C., Chang, J. n., Fox, P. M., Longaker, M. T.  
2021; 9 (1): e3359
- **Analysis of Cell-seeded, Collagen-rich Hydrogel for Wound Healing**  
Sotelo Leon, D., Williams, T., Wang, Z., Leyden, J., Franklin, A., Kaizawa, Y., Chang, J., Fox, P. M.  
LIPPINCOTT WILLIAMS & WILKINS.2020: e3049
- **Topical Antibiotic Elution in a Collagen-Rich Hydrogel is Successful for Inhibiting Bacterial Growth and Biofilm Formation in Vitro.** *Antimicrobial agents and chemotherapy*  
Min, J. G., Sanchez Rangel, U. J., Franklin, A., Oda, H., Wang, Z., Chang, J., Fox, P. M.  
2020
- **Measuring and Improving the Quality of Care During Global Outreach Trips: A Primer for Safe and Sustainable Surgery.** *The Journal of hand surgery*  
Shapiro, L. M., Global-Quest Investigators, Shapiro, L. M., Chang, J., Fox, P. M., Kozin, S. H., Chung, K. C., Dyer, G. S., Fufa, D. T., Leversedge, F. J., Katarincic, J. A., Kamal, R. N.  
2020
- **Homing of Adipose-Derived Stem Cells to a Tendon-Derived Hydrogel: A Potential Mechanism for Improved Tendon-Bone Interface and Tendon Healing.** *The Journal of hand surgery*  
Franklin, A., Gi Min, J., Oda, H., Kaizawa, Y., Leyden, J., Wang, Z., Chang, J., Fox, P. M.  
2020
- **Microvascular Hand Surgery for Digital Ischemia in Scleroderma.** *Journal of scleroderma and related disorders*  
Satteson, E. S., Chung, M. P., Chung, L. S., Chang, J.  
2020; 5 (2): 130-136
- **Global trends of hand and wrist trauma: a systematic analysis of fracture and digit amputation using the Global Burden of Disease 2017 Study.** *Injury prevention : journal of the International Society for Child and Adolescent Injury Prevention*  
Crowe, C. S., Massenburg, B. B., Morrison, S. D., Chang, J., Friedrich, J. B., Abady, G. G., Alahdab, F., Alipour, V., Arabloo, J., Asaad, M., Banach, M., Bijani, A., Borzi, et al  
2020
- **Economic Benefit of Hand Surgical Efforts in Low- and Middle-Income Countries: A Cost-Benefit Analysis.** *Plastic and reconstructive surgery*  
Billig, J. I., Nasser, J. S., Sue, G. R., Chang, J. n., Chung, K. C.  
2020; 145 (2): 471-81
- **Quality Measures to Deliver Safe, High-Quality Care on Hand Surgery Outreach Trips to Low and Middle-Income Countries.** *The Journal of bone and joint surgery. American volume*  
Shapiro, L. M.  
2020; Publish Ahead of Print
- **Use of Social Media to Teach Global Reconstructive Surgery: Initiation of a Secret Facebook Group.** *Plastic and reconstructive surgery. Global open*  
Deptula, P. L., Auten, B. n., Chang, J. n.  
2020; 8 (3): e2676
- **A Human-Derived, Collagen-Rich Hydrogel Augments Wound Healing in a Diabetic Animal Model.** *Annals of plastic surgery*  
Williams, T. n., Sotelo Leon, D. n., Kaizawa, Y. n., Wang, Z. n., Leyden, J. n., Chang, J. n., Fox, P. M.

2020

- **A Survey of Burnout Among Members of the American Society for Surgery of the Hand.** *The Journal of hand surgery*  
Morrell, N. T., Sears, E. D., Desai, M. J., Forseth, M. J., McClelland, W. B., Chang, J. n., Kakar, S. n.  
2020
- **Teaching Hand Surgery in the Developing World: Utilizing Educational Resources in Global Health.** *Hand clinics*  
Deptula, P., Chang, K., Chang, J.  
2019; 35 (4): 411–19
- **A Novel Technology for Free Flap Monitoring: Pilot Study of a Wireless, Biodegradable Sensor.** *Journal of reconstructive microsurgery*  
Oda, H., Beker, L., Kaizawa, Y., Franklin, A., Min, J. G., Leyden, J., Wang, Z., Chang, J., Bao, Z., Fox, P. M.  
2019
- **Upper Extremity Angiographic Patterns in Systemic Sclerosis: Implications for Surgical Treatment** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*  
Leyden, J., Burn, M. B., Wong, V., Leon, D., Kaizawa, Y., Chung, L., Chang, J.  
2019; 44 (11)
- **Human Tendon-Derived Collagen Hydrogel Significantly Improves Biomechanical Properties of the Tendon-Bone Interface in a Chronic Rotator Cuff Injury Model** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*  
Kaizawa, Y., Leyden, J., Behn, A. W., Tulu, U., Franklin, A., Wang, Z., Abrams, G., Chang, J., Fox, P. M.  
2019; 44 (10)
- **Microvascular hand surgery for digital ischemia in scleroderma** *JOURNAL OF SCLERODERMA AND RELATED DISORDERS*  
Satteson, E. S., Chung, M. P., Chung, L. S., Chang, J.  
2019
- **Successful treatment of spindle cell hemangiomas in a patient with Maffucci syndrome and review of literatures** *DERMATOLOGIC THERAPY*  
Lekwuttikarn, R., Chang, J., Teng, J. C.  
2019; 32 (3)
- **Successful Treatment of Spindle Cell Hemangiomas in a Patient with Maffucci Syndrome and Review of literatures.** *Dermatologic therapy*  
Lekwuttikarn, R., Chang, J., Teng, J. M.  
2019; e12919
- **Augmentation of chronic rotator cuff healing using adipose-derived stem cell-seeded human tendon-derived hydrogel** *JOURNAL OF ORTHOPAEDIC RESEARCH*  
Kaizawa, Y., Franklin, A., Leyden, J., Behn, A. W., Tulu, U. S., Leon, D., Wang, Z., Abrams, G. D., Chang, J., Fox, P. M.  
2019; 37 (4): 877–86
- **Upper Extremity Angiographic Patterns in Systemic Sclerosis: Implications for Surgical Treatment.** *The Journal of hand surgery*  
Leyden, J., Burn, M. B., Wong, V., Leon, D. S., Kaizawa, Y., Chung, L., Chang, J.  
2019
- **Augmentation of chronic rotator cuff healing using adipose-derived stem cell-seeded human tendon-derived hydrogel.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*  
Kaizawa, Y., Franklin, A., Leyden, J., Behn, A. W., Tulu, U. S., Leon, D., Wang, Z., Abrams, G. D., Chang, J., Fox, P. M.  
2019
- **Wide Awake Secondary Tendon Reconstruction.** *Hand clinics*  
Gao, L. L., Chang, J.  
2019; 35 (1): 35–41
- **Human Tendon-Derived Collagen Hydrogel Significantly Improves Biomechanical Properties of the Tendon-Bone Interface in a Chronic Rotator Cuff Injury Model.** *The Journal of hand surgery*  
Kaizawa, Y., Leyden, J., Behn, A. W., Tulu, U. S., Franklin, A., Wang, Z., Abrams, G., Chang, J., Fox, P. M.  
2019
- **Cognitive Independence in Plastic Surgery Training: The Value of Professional Development.** *Plastic and reconstructive surgery*  
Sheckter, C. C., Maan, Z. N., Chang, J. n.  
2019; 144 (1): 153e–154e

- **Evaluating the Economic Impact of Plastic and Reconstructive Surgical Efforts in the Developing World: The ReSurge Experience.** *Plastic and reconstructive surgery*  
Nasser, J. S., Billig, J. I., Sue, G. R., Chang, J. n., Gosain, A. K., Chung, K. C.  
2019; 144 (3): 485e–493e
- **Flexor Tendon: Development, Healing, Adhesion Formation, and Contributing Growth Factors.** *Plastic and reconstructive surgery*  
Titan, A. L., Foster, D. S., Chang, J. n., Longaker, M. T.  
2019; 144 (4): 639e–647e
- **Cognitive Independence In Plastic Surgery Training: the Value of Professional Development.** *Plastic and reconstructive surgery*  
Sheckter, C. C., Maan, Z. N., Chang, J. n.  
2019
- **Biodegradable and flexible arterial-pulse sensor for the wireless monitoring of blood flow** *NATURE BIOMEDICAL ENGINEERING*  
Boutry, C. M., Beker, L., Kaizawa, Y., Vassos, C., Tran, H., Hinckley, A. C., Pfattner, R., Niu, S., Li, J., Claverie, J., Wang, Z., Chang, J., Fox, et al  
2019; 3 (1): 47–57
- **Biodegradable and flexible arterial-pulse sensor for the wireless monitoring of blood flow.** *Nature biomedical engineering*  
Boutry, C. M., Beker, L., Kaizawa, Y., Vassos, C., Tran, H., Hinckley, A. C., Pfattner, R., Niu, S., Li, J., Claverie, J., Wang, Z., Chang, J., Fox, et al  
2019; 3 (1): 47-57
- **Cost-Effectiveness Analysis of Humanitarian Hand Surgery Trips According to WHO-CHOICE Thresholds.** *The Journal of hand surgery*  
Qiu, X., Nasser, J. S., Sue, G. R., Chang, J., Chung, K. C.  
2018
- **2018 ASSH Presidential Address: Joy of Hand Surgery.** *The Journal of hand surgery*  
Chang, J.  
2018; 43 (12): 1061–72
- **Ten Tips o Simplify the Spaghetti Wrist** *PLASTIC AND RECONSTRUCTIVE SURGERY-GLOBAL OPEN*  
Meals, C. G., Chang, J.  
2018; 6 (12): e1971
- **The ReSurge Global Training Program: A Model for Surgical Training and Capacity Building in Global Reconstructive Surgery** *ANNALS OF PLASTIC SURGERY*  
Sue, G. R., Covington, W. C., Chang, J.  
2018; 81 (3): 250–56
- **Treating the Proximal Interphalangeal Joint in Swan Neck and Boutonniere Deformities.** *Hand clinics*  
Fox, P. M., Chang, J. n.  
2018; 34 (2): 167–76
- **Creation of Nepal's First Skin Bank: Challenges and Outcomes** *PLASTIC AND RECONSTRUCTIVE SURGERY-GLOBAL OPEN*  
Cai, L., Long, C., Karki, B., Nakarmi, K., Iqbal, A., Casertano, M., Anderson, S., Patell, J., Chang, J., Rai, S.  
2017; 5 (11)
- **Creation of Nepal's First Skin Bank: Challenges and Outcomes.** *Plastic and reconstructive surgery. Global open*  
Cai, L., Long, C., Karki, B., Nakarmi, K., Iqbal, A., Casertano, M., Anderson, S., Patell, J., Chang, J., Rai, S. M.  
2017; 5 (11): e1510
- **The Tissue Engineered Tendon Bone Interface: In Vitro and In Vivo Synergistic Effects of Adipo-Derived Stem Cells, Platelet Rich Plasma and Extracellular Matrix Hydrogel.** *Plastic and reconstructive surgery*  
McGoldrick, R., Chattopadhyay, A., Crowe, C., Chiou, G., Hui, K., Farnebo, S., Davis, C., Le Grand, A., Jacobs, M., Pham, H., Chang, J.  
2017
- **Intratendinous Injection of Hydrogel for Reseeding Decellularized Human Flexor Tendons.** *Plastic and reconstructive surgery*  
Long, C., Galvez, M. G., Legrand, A., Joubert, L., Wang, Z., Chattopadhyay, A., Chang, J., Fox, P. M.  
2017; 139 (6): 1305e-1314e
- **Epitendinous-First Repair of Zone II Flexor Digitorum Profundus Results in Decreased Gliding Resistance.** *journal of hand surgery*

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- Galvez, M. G., Comer, G. C., Chattopadhyay, A., Long, C., Behn, A. W., Chang, J.  
2017
- **Reverse Radial Forearm Flap.** *Plastic and reconstructive surgery. Global open*  
Maan, Z. N., Legrand, A., Long, C., Chang, J. C.  
2017; 5 (4)
  - **Development of International Outcomes Instrument for Hand and Upper Extremity Burn Scar Contracture Release** *JOURNAL OF BURN CARE & RESEARCH*  
Cai, L., Lippi, J., Dumanian, J., Klein, M., Dangol, M. K., Puri, V., Karanas, Y., Rai, S. M., Chang, J.  
2017; 38 (1): E395-E401
  - **Optimized Repopulation of Tendon Hydrogel: Synergistic Effects of Growth Factor Combinations and Adipose-Derived Stem Cells.** *Hand (New York, N.Y.)*  
Farnebo, S., Farnebo, L., Kim, M., Woon, C., Pham, H., Chang, J.  
2017; 12 (1): 68-77
  - **Tendon Tissue Engineering: Mechanism and Effects of Human Tenocyte Coculture With Adipose-Derived Stem Cells.** *The Journal of hand surgery*  
Long, C. n., Wang, Z. n., Legrand, A. n., Chattopadhyay, A. n., Chang, J. n., Fox, P. M.  
2017
  - **Surgical Site Infections after Tissue Flaps Performed in Low and Middle Human Development Index Countries: A Systematic Review.** *Surgical infections*  
Cai, L. Z., Chang, J. n., Weiser, T. G., Forrester, J. D.  
2017
  - **Accuracy of remote burn scar evaluation via live video-conferencing technology.** *Burns*  
Cai, L. Z., Caceres, M., Dangol, M. K., Nakarmi, K., Rai, S. M., Chang, J., Gibran, N. S., Pham, T. N.  
2016
  - **The Stanford-ReSurge Burn Scar Contracture Scale for Neck: Development and Initial Validation for Burn Scar Contracture.** *Plastic and reconstructive surgery*  
Cai, L., Puri, V., Dangol, M. K., Mannan, I. I., Khundkar, S. H., Le Thua, T., Muguti, G., Rai, S. M., Karanas, Y., Chang, J.  
2016; 138 (5): 896e-902e
  - **Flexor Tendon Sheath Engineering Using Decellularized Porcine Pericardium.** *Plastic and reconstructive surgery*  
Megerle, K., Woon, C., Kraus, A., Raghavan, S., Pham, H., Chang, J.  
2016; 138 (4): 630e-41e
  - **Tendon Regeneration with Tendon Hydrogel-Based Cell Delivery: A Comparison of Fibroblasts and Adipose-Derived Stem Cells.** *Plastic and reconstructive surgery*  
Chattopadhyay, A., Galvez, M. G., Bachmann, M., Legrand, A., McGoldrick, R., Lovell, A., Jacobs, M., Crowe, C., Umansky, E., Chang, J.  
2016; 138 (3): 617-626
  - **In Vitro Characteristics of Porcine Tendon Hydrogel for Tendon Regeneration** *ANNALS OF PLASTIC SURGERY*  
Crowe, C. S., Chiou, G., McGoldrick, R., Hui, K., Pham, H., Hollenbeck, E., Chang, J.  
2016; 77 (1): 47-53
  - **Characteristics of Reconstituted Lyophilized Tendon Hydrogel: An Injectable Scaffold for Tendon Regeneration.** *Plastic and reconstructive surgery*  
Crowe, C. S., Chattopadhyay, A., McGoldrick, R., Chiou, G., Pham, H., Chang, J.  
2016; 137 (3): 843-851
  - **Discussion: Unique Assessment of Hand Surgery Knowledge by Specialty.** *Plastic and reconstructive surgery*  
Long, C., Chang, J.  
2016; 137 (3): 925-6
  - **Digital Sympathectomy in Patients With Scleroderma: An Overview of the Practice and Referral Patterns and Perceptions of Rheumatologists.** *Annals of plastic surgery*  
Chiou, G., Crowe, C., Suarez, P., Chung, L., Curtin, C., Chang, J.  
2015; 75 (6): 637-643
  - **Reconstruction of First Web Space Contractures.** *journal of hand surgery*  
Moody, L., Galvez, M. G., Chang, J.



2015; 40 (9): 1892-1895

- **Reconstruction of First Web Space Contractures.** *journal of hand surgery*  
Moody, L., Galvez, M. G., Chang, J.  
2015; 40 (9): 1892-1895
- **Surgical treatment of systemic sclerosis-is it justified to offer peripheral sympathectomy earlier in the disease process?** *Microsurgery*  
Momeni, A., Sorice, S. C., Valenzuela, A., Fiorentino, D. F., Chung, L., Chang, J.  
2015; 35 (6): 441-446
- **Tendon Regeneration with a Novel Tendon Hydrogel: In Vitro Effects of Platelet-Rich Plasma on Rat Adipose-Derived Stem Cells** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Crowe, C. S., Chiou, G., McGoldrick, R., Hui, K., Pham, H., Chang, J.  
2015; 135 (6): 981E-989E
- **Optimization of an Injectable Tendon Hydrogel: The Effects of Platelet-Rich Plasma and Adipose-Derived Stem Cells on Tendon Healing In Vivo** *TISSUE ENGINEERING PART A*  
Chiou, G. J., Crowe, C., McGoldrick, R., Hui, K., Pham, H., Chang, J.  
2015; 21 (9-10): 1579-1586
- **Comparative Effectiveness of Infraclavicular and Supraclavicular Perineural Catheters for Ultrasound-Guided Through-the-Catheter Bolus Anesthesia.** *Journal of ultrasound in medicine*  
Harrison, T. K., Kim, T. E., Howard, S. K., Funck, N., Wagner, M. J., Walters, T. L., Curtin, C., Chang, J., Ganaway, T., Mariano, E. R.  
2015; 34 (2): 333-340
- **Principles of tendon reconstruction following complex trauma of the upper limb.** *Seminars in plastic surgery*  
Chattopadhyay, A., McGoldrick, R., Umansky, E., Chang, J.  
2015; 29 (1): 30-9
- **Principles of Tendon Reconstruction Following Complex Trauma of the Upper Limb** *SEMINARS IN PLASTIC SURGERY*  
Chattopadhyay, A., McGoldrick, R., Umansky, E., Chang, J.  
2015; 29 (1): 30-39
- **Bench to Bedside Integrating Advances in Basic Science into Daily Clinical Practice** *HAND CLINICS*  
McGoldrick, R. B., Hui, K., Chang, J.  
2014; 30 (3): 305-?
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