

JAMIE C. ZAMPELL

EDUCATION

1998 – 2002	<i>Emory University, B.S., Biology, Summa Cum Laude</i>	Atlanta, GA
2002 – 2006	<i>The Ohio State University College of Medicine and Public Health, MD</i>	Columbus, OH

POST-GRADUATE TRAINING

2006 – 2007	<i>NYU Medical Center; Department of Surgery Internship, General Surgery</i>	New York, NY
2007 – 2009	<i>NYU Medical Center; Department of Surgery Residency, General Surgery</i>	New York, NY
2009 – 2012	<i>Memorial Sloan-Kettering Cancer Center; Department of Surgery Division of Plastic and Reconstructive Surgery Research Fellowship; Laboratory of Babak Mehrara, MD, FACS</i>	New York, NY
2012 – 2015	<i>NYU Medical Center; Department of Plastic and Reconstructive Surgery Residency, Plastic Surgery</i>	New York, NY
2015 – 2016	<i>UCLA Medical Center; Department of Surgery Division of Plastic and Reconstructive Surgery Fellowship, Microsurgery</i>	Los Angeles, CA

WORK EXPERIENCE

2016 – 2018	<i>Kaiser Permanente San Diego, Southern California Permanente Medical Group Department of Plastic Surgery Staff Physician</i>	San Diego, CA
2018 – 2020	<i>Ochsner Medical Center, Baptist Hospital LSU Health Sciences, Assistant Clinical Professor Microsurgery Program Director</i>	New Orleans, LA
2020 - present	<i>Zampell Plastic Surgery; Center for Breast Reconstruction Co-Founder</i>	Los Angeles, CA

HONORS/AWARDS

1998 – 2002	Georgia Governor's Scholarship
2001	Summer Undergraduate Research Fellowship Award, Emory University
2001	Phi Sigma Honors Society
2002	Summa Cum Laude, Emory University
2003	NIH Summer Research Fellowship, National Institute of Allergy and Infectious Disease
2006	Alpha Omega Alpha Honor Society, Ohio State University
2009	Outstanding consult resident award, NYU General Surgery
2010	Plastic Surgery Education Foundation Research Fellowship Grant
2011	Department of Defense Research Fellowship for Breast Cancer Research
2013	Blair Rogers Basic Science Resident Research Award, NYU Plastic & Reconstructive Surgery
2014	Blair Rogers Basic Science Resident Research Award, NYU Plastic & Reconstructive Surgery
2018	"10 Best" Plastic Surgeons in CA for Patient Satisfaction, Amer Inst of Plastic Surgeons

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PEER-REVIEWED PUBLICATIONS

1. Poloso N, Nagarajan S, Bumgarner G, **Zampell JC**, Selvaraj P. Designer cancer vaccines made easy: protein transfer of immunostimulatory molecules for use in therapeutic tumor vaccines. *Front Biosci* 2001; 6:D760-775.
2. Bumgarner G, **Zampell JC**, Nagarajan S, Poloso N, Dorn A, D'Souza M, Selvaraj P. Modified cell ELISA to determine the solubilization of cell surface proteins: Applications in GPI-anchored protein purification. *J Biochem Biophys Methods* 2005; 64:99-109.
3. Rescigno J, **Zampell JC**, Axelrod D. Patterns of axillary surgical care for breast cancer in the era of sentinel lymph node biopsy. *Ann Surg Oncol* 2009; 16:687-696.
4. Avraham T, Yan A, **Zampell JC**, Daluvoy SV, Haimovitz-Friedman A, Cordeiro AP, Mehrara BJ. Radiation therapy causes loss of dermal lymphatic vessels and interferes with lymphatic function by TGF-beta1-mediated tissue fibrosis. *Amer J Physiol-Cell* 2010; 299(3): C589-605.
5. Mehrara BJ, Avraham T, Soares M, Fernandez JG, Yan A, **Zampell JC**, Andrade VP, Cordeiro AP, Sorrento CM. P21cip/WAF is a key regulator of long-term radiation damage in mesenchyme-derived tissues. *FASEB J* 2010; 24: 10-155762.
6. Avraham T, Daluvoy S, **Zampell JC**, Yan A, Haviv YS, Rockson SD, Mehrara BJ. Blockade of TGF-B1 accelerates lymphatic regeneration during wound repair. *Am J Pathol* 2010; 177: 3202-3214
7. **Zampell JC**, Yan A, Avraham T, Andrade V, Malliaris S, Aschen S, Rockson SG, and Mehrara BJ. Temporal and spatial expression patterns of endogenous danger signal expression after wound healing and in response to lymphedema. *Amer J Physiol-Cell* 2011; 300(5): C1107-21.
8. Yan, A, Avraham T, **Zampell JC**, and Mehrara BJ. Mechanisms of lymphatic regeneration after tissue transfer. *PLoS One* 2011; 6(2) e17201
9. **Zampell JC**, Avraham T, Yoder N, Fort N, Yan A, Weitman ES, and Mehrara BJ. Lymphatic function is regulated by coordinated expression of lymphangiogenic and anti-lymphangiogenic cytokines. *Amer J Physiol-Cell* 2011; 302(2):C392-404. PMID 21940662.
10. Mehrara BJ, **Zampell JC**, Suami H, and Chang D. Surgical management of lymphedema: Past, present, and future. *Lymph Res Biol* 2011; 9(3)159-67.
11. Yan A, Avraham T, **Zampell JC**, Haviv Y, Weitman ES, and Mehrara BJ. Adipose derived stem cells promote lymphangiogenesis in response to VEGF-C stimulation or TGF-B1 inhibition. *Future Oncology* 2011; Dec;7(12):1457-73.
12. **Zampell JC**, Elhadad S, Avraham T, Weitman ES, Aschen S, and Mehrara BJ. Toll-like receptor deficiency worsens inflammation and lymphedema after lymphatic injury. *Amer J Physiol-Cell* 2012; 302(4): C709-19.
13. **Zampell JC**, Aschen S, Weitman ES, Yan A, Elhadad S, Andrade M, and Mehrara BJ. Regulation of adipogenesis by lymphatic fluid stasis Part I: Adipogenesis, fibrosis, and inflammation. *Plast Reconstr Surg* 2012; 129(4):825-34. PMID 22456354.
14. Aschen S, **Zampell JC**, Elhadad S, Weitman ES, Andrade M, and Mehrara BJ. Regulation of adipogenesis by lymphatic fluid stasis Part II: Expression of adipose differentiation genes. *Plast Reconstr Surg* 2012; 129(4):838-847. PMID 22456356.
15. **Zampell JC**, Yan A, Avraham T, Daluvoy S, and Mehrara BJ. HIF-1 α regulates lymphatic regeneration during wound healing and in response to inflammation. *FASEB J* 2012; 26(3): 1027-39.
16. **Zampell JC**, Yan A, Elhadad S, Avraham T, Weitman E, and Mehrara BJ. CD4+ cells regulate fibrosis and lymphangiogenesis in response to lymphatic fluid stasis. *PLoS One* 2012; 7(11). PMID: 23185491.
17. Avraham TA, **Zampell JC**, Yan A, Elhadad S, Wietman E, Rockson SG, Bromberg J, and Mehrara BJ. Th2 differentiation is necessary for soft tissue fibrosis and lymphatic dysfunction resulting from lymphedema. *FASEB J* 2013; 27(3): 1114-26 2012. PMID: 23193171.

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18. Weitman, E, Aschen S, Farias-Eisner G, Albano N, Cuzzone DA, Ghanta S, **Zampell JC**, Thorek D, and Mehrara BJ. Obesity Impairs Lymphatic Fluid Transport and Dendritic Cell Migration to Lymph Nodes. *PLoS One* 2013. PMID: 23950984.
19. Ghanta S, Cuzzone D, Torrisi J, Albano N, Joseph W, Savetsky I, Gardenier J, Chang D, **Zampell JC**, and Mehrara BJ. Regulation of inflammation and fibrosis by macrophages in lymphedema. *Am J Physiol Heart Circ Physiol*. 2015. PMID: 23193171.
20. Gardenier JC, Hespe GE, Kataru RP, Savetsky IL, Torrisi JS, Nores GD, Dayan JJ, Chang D, **Zampell J**, Martinez-Corral I, Ortega S, and Mehrara BJ. Diphtheria toxin-mediated ablation of lymphatic endothelial cells results in progressive lymphedema. *JCI Insight* 2016; 1(15):e84095. PMID: 27699240.
21. Cleveland, EC, **Zampell J**, Avraham T, Lee ZH, Hirsch D, Levine JP. Reconstruction of congenital mandibular hypoplasia with microvascular free fibula flaps in the pediatric population: a paradigm shift. *J Craniofac Surg* 2017; 28(1):79-83. PMID 27875515.
22. Rockson, SG, Tian W, Jiang X, Kuznetsova T, Haddad F, **Zampell J**, Mehrara B, Sampson JP, Roche L, Kim J, Nicolls MR. Pilot studies demonstrate the potential benefits of anti-inflammatory therapy in human lymphedema. *JCI Insight*. 2018 Oct 18;3(20). PMID: 30333315.
23. Patterson C, Stalder M, St Hilaire H, **Zampell J**, Allen RJ. DIEP Breast Reconstruction in the Obese Population: Assessing the Complication Risk of Your Patient. *Manuscript under review. Plast Reconstr Surg*. 2019.
24. Maddox, S, **Zampell J**, St Hilaire H, Allen RJ. Surgical delay or the SIEA flap for autologous breast reconstruction improves flap reliability and reduces morbidity. *Manuscript in preparation*. 2019.

PRESENTATIONS & POSTERS

1. Nagarajan S, Horton L, **Zampell J**, Selvaraj P. Expression and regulation of immunostimulatory molecules in human breast cancer cell lines after IFN-gamma treatment [Poster]. In: Federation of American Societies for Experimental Biology (FASEB) Research Conference: 2001 July 7-12; Orlando, FL.
2. **Zampell J**, Palanaswamy P, Nagarajan N, Poloso N, Selvaraj P. Effect of expressing IL-2 as a cell surface molecule on antitumor immune response in mice [Poster]. In: Proceedings of the 94th Annual Meeting of the American Association for Cancer Research: 2003 July 11-14; Washington D.C. Vol 44, 2nd ed, Abstract No. 108638.
3. **Zampell J**, Daluvoy S, Avraham T, Yan A, Kueberuwa E, Mehrara B. Hif-1 α regulates VEGF-C expression and is required for lymphangiogenesis [Poster]. In: Society of Surgical Oncology 63rd Annual Cancer Symposium: 2010 March 3-7; St. Louis, MO.
4. Avraham T, **Zampell J**, Daluvoy S, Yan A, Kueberuwa E, Mehrara B. IL-4 inhibition is a potential treatment for lymphedema that acts by blocking the pro-fibrotic inflammatory effects of lymphatic stasis [Poster]. Society of Surgical Oncology 63rd Annual Cancer Symposium: 2010 March 3-7; St. Louis, MO.
5. **Zampell J**, Daluvoy S, Avraham T, Yan A, and Mehrara BJ. HIF-1 α regulates VEGF-C expression and is required for lymphangiogenesis during wound healing [Plenary paper presentation]. In: Plastic Surgery Research Council 55th Annual Meeting: 2010 May 23-27; San Francisco, CA.
6. Avraham, T, **Zampell J**, Yan A, Daluvoy S, Kueberuwa E, and Mehrara BJ. Lymphedema is a fibroproliferative condition associated with a pro-fibrotic chronic inflammatory response [Plenary presentation]. In: Plastic Surgery Research Council 55th Annual Meeting: 2010 May 23-27; San Francisco, CA.
7. **Zampell JC**, Daluvoy S, Avraham T, Yan A, Kueberuwa E, Mehrara BJ. HIF-1 α regulates VEGF-C expression and is required for lymphangiogenesis [Presentation]. In: American College of Surgeons 96th Clinical Congress: 2010 October 3-7; Washington DC.
8. Avraham T, **Zampell JC**, Marc Soares, Alan Yan, Sanjay Daluvoy, and Babak Mehrara. p21^{cip/WAF} is a key regulator of radiation damage in mesenchymal derived tissues [Presentation]. In: American College

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of Surgeons 96th Clinical Congress: 2010 October 3-7; Washington DC.

9. Avraham T, **Zampell JC**, Yan A, Daluvoy S, Keubrerewa E, Mehrara BJ. Inhibition of IL-4 function decreases fibrosis and lymphatic dysfunction in a mouse model of lymphedema [Presentation]. In: American College of Surgeons 96th Clinical Congress: 2010 October 3-7; Washington DC.
10. **Zampell JC**, Avraham T, Yan A, Mehrara, BJ. Alarmin expression is induced by acute lymphedema and is necessary for early lymphangiogenesis [Presentation]. In: Northeastern Society of Plastic Surgeons 27th Annual Meeting: 2010 Oct 28-31; Washington, DC.
11. Yan A, Avraham T, **Zampell JC**, Clavin NW, Mehrara BJ. Spontaneous re-anastomosis of cutaneous capillary lymphatic vessels after tissue transfer [Presentation]. In: Northeastern Society of Plastic Surgeons 27th Annual Meeting: 2010 Oct 28-31; Washington, DC.
12. Avraham T, **Zampell J**, MD, Yan A, Daluvoy SV, Kueberuwa E, Mehrara BJ. Targeted inhibition of T-cell inflammation can prevent and treat lymphedema by reducing fibrosis [Presentation]. In: Northeastern Society of Plastic Surgeons 27th Annual Meeting: 2010 Oct 28-31; Washington, DC.
13. **Zampell J**, Daluvoy S, Avraham T, Yan A, Aschen S, Mehrara B. HIF-1 α regulates lymphatic vessel regeneration through modulation of VEGF-A and VEGF-C [Presentation in Cancer Forum]. In: Society of Surgical Oncology 64th Annual Cancer Symposium: 2010 March 3-7; St. Louis, MO.
14. Malliaris, S, **Zampell JC**, Avraham T, Yan A, Mehrara B. Human lymphedema is characterized by CD4+ infiltrate and Th2 phenotype inflammation [Poster]. In: Society of Surgical Oncology 64th Annual Cancer Symposium: 2010 March 3-7; St. Louis, MO. Vol 18 supplement 1, 1-144.
15. **Zampell J**, Yan A, Avraham T, Daluvoy S, Aschen S, Mehrara BJ. HIF-1 α modulates lymphatic vessel regeneration and is stabilized during chronic lymphedema [Plenary presentation]. In: Plastic Surgery Research Council 56th Annual Meeting: 2011 April 28-30; Louisville, KY.
16. **Zampell J**, Yan A, Avraham T, Yoder N, Fort N, and Mehrara BJ. T-cell deficiency is associated with accelerated lymphatic regeneration [Presentation]. In: Northeastern Society of Plastic Surgeons 28th Annual Meeting: 2011 October 20-23; Amelia Island, FL.
17. **Zampell JC**, Avraham T, Yan A, Malliaris S, and Mehrara BJ. Th2 cell-mediated inflammation mediates fibrosis and lymphatic dysfunction in chronic lymphedema. [Presentation]. In: Northeastern Society of Plastic Surgeons 28th Annual Meeting: 2011 Oct 20-23; Amelia Isl, FL.
18. **Zampell JC**, Avraham T, Daluvoy S, Yan A, and Mehrara BJ. HIF-1 α Regulates Lymphangiogenic Cytokine Expression In Chronic Sterile Inflammation. [Presentation]. In: American College of Surgeons 96th Clinical Congress: 2011 October 25-28; San Francisco, CA.
19. **Zampell JC**, Avraham T, Yan A, Weitman, Elhadad S, and Mehrara BJ. Hypoxia and lymphatic fluid stasis regulate HIF-1 α expression in chronic sterile inflammation. [Poster]. In: Molecular Mechanisms in Lymphatic Function and Disease: 2012 March 4-9; Ventura Beach, CA.
20. **Zampell JC**, Avraham T, Yan A, Weitman, Elhadad S, and Mehrara BJ. Hypoxia and lymphatic fluid stasis regulate HIF-1 α expression in chronic sterile inflammation. [Poster]. In: Gordon Research Conference: Molecular Mechanisms in Lymphatic Function and Disease: 2012 March 4-9; Ventura Beach, CA.
21. Weitman ES, **Zampell JC**, Avraham T, Yan A, Elhadad S, Rockson S, Mehrara BJ. The Role of IL-4 and IL-13 blockade in the Treatment of Lymphedema [Poster]. In: Gordon Research Conference: Molecular Mechanisms in Lymphatic Function and Disease: 2012 March 4-9; Ventura Beach, CA.
22. Mehrara, BJ, **Zampell JC**, Yan A, Avraham T, Elhadad S, Avraham T, and Weitman ES. Toll-like receptor signaling prevents fibrosis and lymphatic dysfunction following tissue injury and lymphatic disruption. [Poster]. In: Gordon Research Conference: Molecular Mechanisms in Lymphatic Function and Disease: 2012 March 4-9; Ventura Beach, CA.
23. Elhadad S, **Zampell JC**, Avraham T, Weitman ES, Yan A, and Mehrara BJ. T cell Deficiency is associated with accelerated lymphatic regeneration [Poster]. In: Gordon Research Conference: Molecular Mechanisms in Lymphatic Function and Disease: 2012 March 4-9; Ventura Beach, CA.

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24. **Zampell JC**, Yan A, Avraham T, Weitman E, Del Vecchio S, and Mehrara BJ. IL-13 blockade reduces tissue fibrosis and improves lymphatic function in the progression of chronic lymphedema [Presentation]. In: Society of Surgical Oncology 65th Annual Cancer Symposium: 2012 March 20-23; Orlando FL. *Annals of Surgical Oncology* 2012; 19(Suppl 1): S45.
25. **Zampell JC**, Elhadad S, Weitman E, Avraham T, Yan A, and Mehrara BJ. Toll-like receptor signaling promotes lymphatic repair following tissue injury and lymphatic disruption. [Poster]. In: Society of Surgical Oncology 65th Annual Cancer Symposium: 2012 March 20-23; Orlando FL. *Annals of Surgical Oncology* 2012; 19(Suppl 1): S45.
26. Weitman ES, Aschen S, **Zampell JC**, Elhadad S, DeBrot M, Mehrara BJ. Lymphatic Stasis Activates Expression of Fat Differentiation Genes [Poster]. In: Society of Surgical Oncology: 65th Annual Cancer Symposium. 2012 March 21-24, Orlando, FL.
27. **Zampell JC**, Yan A, Malliaris S, Avraham T, Weitman ES, Elhadad S, and Mehrara BJ. Targeted Th2 immune modulation blocks chronic lymphedema progression. [Plenary Presentation]. In: Plastic Surgery Research Council 57th Annual Meeting: 2012 June 12-15; Ann Arbor, MI.
28. Weitman ES, **Zampell JC**, Elhadad S, Aschen S, and Mehrara BJ. Regulation of Adipogenesis in Lymphedema [Presentation]. In: Plastic Surgery Research Council 57th Annual Meeting: 2012 June 12-15; Ann Arbor, MI.
29. Elhadad S, **Zampell JC**, Yan A, Weitman E, Avraham T, and Mehrara BJ. CD4+ T cell infiltration is responsible for chronic inflammation in experimental lymphedema [Presentation]. In: Plastic Surgery Research Council 57th Annual Meeting: 2012 June 12-15; Ann Arbor, MI.
30. **Zampell, JC**, Yan A, Avraham T, Weitman ES, and Mehrara BJ. CD4+ Inflammation is Necessary for Pathologic Changes Associated with Sustained Lymphatic Fluid Stasis [Presentation]. In: American College of Surgeons 97th Clinical Congress: 2012 Sept 30-Oct 4. Chicago, IL.
31. Weitman ES, **Zampell, JC**, Elhadad S, Aschen, S, and Mehrara, BJ. Obesity as an Initiator of Lymphatic Dysfunction [Poster]. In: American College of Surgeons 97th Clinical Congress: 2012 Sept 30-Oct 4. Chicago, IL.
32. **Zampell JC**, Elhadad S, Weitman E, Avraham T, and Mehrara, BJ Lymphedema induces a highly specific pathologic inflammatory response [Presentation]. In: Northeastern Society of Plastic Surgeons 29th. Annual Meeting: 2012 September 27-29; Ann Arbor, MI.
33. Weitman E, **Zampell, JC**, Aschen SZ, Farias-Eisner GT, Albano N, Cuzzzone D, Ghanta S, Mehrara BJ. IL-6 as a Biomarker for Lymphedema [Poster]. In: Society of Surgical Oncology 66nd Annual Cancer Symposium: 2013 March 6-9, National Harbor, MD.
34. Weitman E, **Zampell, JC**, Aschen SZ, Farias-Eisner GT, Albano N, Cuzzzone D, Ghanta S, Elhadad S, Mehrara BJ. Diet-Induced Obesity Impairs Lymphatic Transport and Function [Presentation]. In: Plastic Surgery Research Council 58th Annual Meeting: 2013 May 2-4, Santa Monica, CA.
35. Albano NJ, Ghanta S, **Zampell JC**, Weitman ES, Cuzzzone DA, Aschen SZ, Farias-Eisner GT, Yan A, Mehrara BJ. Lymphedema is associated with a marked increase of tissue T-regulatory cells. In: Plastic Surgery Research Council 58th Annual Meeting: 2013 May 2-4, Santa Monica, CA.
36. Cuzzzone DA, **Zampell JC**, Weitman E, Aschen S, Farias-Eisner G, Ghanta S, Albano N, Mehrara BJ. IL-6 as a serum marker for lymphedema [Presentation]. In: Plastic Surgery Research Council 58th Annual Meeting: 2013 May 2-4, Santa Monica, CA.
37. **Zampell JC** and Allen RJ Sr. Breast-Sharing Technique for Post-Mastectomy Breast Reconstruction [Presentation]. In: Breast Reconstruction: State of the Art: 2014 November 21-22, New York, NY.
38. **Zampell JC**, Sinno S, and Mehrara BJ. Development of lymphatic reporter and conditional lymphatic knockout mice for the study of local and systemic lymphatic deletion [Presentation]. In: The New York Regional Society of Plastic Surgeons: 2015 March 9, New York, NY.
39. Lee ZH, Cleveland EC, **Zampell J**, Avraham T, Hirsch D, Levine JP. Reconstruction of Congenital Mandibular Hypoplasia with Microvascular Free Fibula Flaps in the Pediatric Population: A Paradigm

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- Shift [Presentation]. In: American Society of Plastic Surgeons Annual Meeting: 2015 October 16-20, Boston, MA. *Plast Reconstr Surg*. 2015 Oct; 136 (4 Suppl): 45-6
40. Farias-Eisner G, Yoon A, Martins D, Kao K, **Zampell J**, Rahman S, Gassman A, Festekjian J. Liposomal Bupivacaine Reduces Postoperative Narcotic Use in Patients Undergoing Abdominal-Based Autologous and Implant-Based Breast Reconstruction [Presentation]. In: American Society of Plastic Surgeons Annual Meeting: 2016 September 23-27, Los Angeles, CA. *Plast Reconstr Surg*. 2016 Oct; 4(9 Suppl): 136. **Outstanding paper Presentation Award.**
 41. **Zampell J**, Allen, RJ. Autogenous Mommy Makeover: Establishing A Program. [Presentation] In: Group for the Advancement of Microsurgical Breast Reconstruction Annual Meeting: 2018 August 16-19, Oslo, Norway.
 42. **Zampell J**, Allen, RJ. Establishing a Lymphedema Microsurgery Program. [Presentation] In: Group for the Advancement of Microsurgical Breast Reconstruction Meeting: 2018 Aug 16-19, Oslo, Norway.
 43. **Zampell J**, St. Hilaire, Allen RJ. Vertical Profunda Artery Perforator Flap Design. [Presentation] In: Group for the Advancement of Microsurgical Breast Reconstruction Annual Meeting: 2018 August 16-19, Oslo, Norway.
 44. **Zampell J**. Post-Mastectomy Lymphedema: Surgical Management. [Presentation] In: New Orleans Breast Symposium: 2018 September 13, New Orleans, LA.
 45. Artz, J, **Zampell J**, St. Hilaire, Allen RJ. Use of the Vertically Oriented Profunda Artery Perforator Flap to Capture the Dominant Profunda Artery Perforator. [Poster] *Accepted*: American Society of Reconstructive Microsurgery: 2020 Fort Lauderdale, FL.
 46. Maddox, S, **Zampell J**, St. Hilaire, Allen RJ. Surgical Delay of the SIEA Flap to Improve Reliability in Autologous Breast Reconstruction. [Poster] *Accepted*: American Society of Reconstructive Microsurgery: 2020 Fort Lauderdale, FL.

BOOK CHAPTERS

Urbinielli L, **Zampell JC**, and Warren SM. Mandibular Distraction Osteogenesis. Chapter 22. Atlas of Operative Craniofacial Surgery. 2018

Zampell JC, St. Hilaire H, and Allen RJ. Breast Reconstruction with the Profunda Artery Perforator Flap. *Springer Publishing, Chapter in press*. 2019.

RESEARCH EXPERIENCE

- | | |
|-------------|---|
| 1998 – 1999 | Investigation of genetic markers predisposing to ADHD ; Laboratory of Dr. Irwin Waldman, Dept of Genetics, Emory University, Atlanta, GA. |
| 1999 – 2002 | Role of co-stimulatory molecule over-expression in the induction of anti-tumor immune responses ; Laboratory of Dr. Periasamy Selvaraj, Dept of Immunology, Emory University. |
| 2003 | Role of GATA-3 and Gfi-1 in T helper type 2 (Th2) differentiation ; Laboratory of Dr. William E. Paul, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD. |
| 2009 – 2012 | Mechanisms regulating lymphedema pathophysiology ; Laboratory of Dr. Babak J. Mehrara, Memorial Sloan-Kettering Cancer Center, Dept of Surgery, Division of Plastic and Reconstructive Surgery, New York, NY. |
| 2014 – 2015 | Prospective analysis of patients undergoing lymph node transfer and lymphaticovenous bypass for the treatment of lymphedema ; Investigation under direction of Dr. Mihye Choi, New York University Medical Center; Department of Reconstructive Plastic Surgery, New York, NY. |
| 2017 – 2020 | Prospective analysis of surgical prevention and treatment of lymphedema ; Ochsner Baptist Medical Center & LSU Health Sciences, New Orleans, LA. |

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FUNDING

2003	<p>NIH, National Institute of Allergy and Infectious Disease Medical Student Summer Research Fellowship Grant Title: Defining the role of Gfi-1 and GATA-3 in Th2 differentiation. Award: \$5,000. PI: Jamie Zampell. Mentor: William E. Paul, MD (NIAID).</p>
2009 – 2010	<p>Plastic Surgery Education Foundation Research Fellowship Title: Mechanisms regulating fibrosis in chronic lymphedema. Award: \$50,000 PI: Jamie Zampell. 100% Effort. Mentor: Babak J. Mehrara, MD</p>
2011 – 2012	<p>Department of Defense Congressionally Directed Breast Cancer Research Fellowship #BC103619 Title: Adaptive immune responses regulate the pathophysiology of lymphedema. Award (Direct costs): \$100,000 PI: Jamie Zampell. 100% Effort. Mentor: Babak J. Mehrara, MD</p>

LICENSURE & CERTIFICATION

American Board of Plastic Surgery, Diplomate
 NY Medical License # 253694
 CA Medical License # 134892
 LA Medical License # 308241

ORGANIZATIONS

American Society of Plastic Surgeons, Member
 American Society for Reconstructive Microsurgery, Member
 Group for the Advancement of Breast Reconstruction, Member
 Women in Microsurgery, Member
 SmileTrain; Races for Faces Annual Charity Event
 Women & Housewives in Plastic Surgery, New York Chapter
 Team Ronald McDonald House Charity

COURSES

2012 - 2014	The Cutting Edge Aesthetic Surgery Symposium	NY, NY
2014	14 th International Course on Perforator Flaps	NY, NY
2015	State of the Art: Facial Reconstruction and Transplantation Course	NY, NY

ACTIVITIES

Marathon running; 17 marathons, 5 Boston qualifiers, 1 Boston marathon
 Studio art