

AKHIL K. SETH

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EDUCATION

- M.D., Johns Hopkins School of Medicine, Baltimore, MD
September 2003 – May 2007
- B.S., Johns Hopkins University, Baltimore, MD
Major: Biomedical Engineering, Minor: Computer Science
September 1999 – May 2003

GRADUATE MEDICAL EDUCATION

- Memorial Sloan Kettering Cancer Center
Plastic and Reconstructive Surgery/Microsurgery Fellowship (New York, NY)
July, 2017-June, 2018
- Harvard Medical School, Brigham and Women's Hospital
Plastic Surgery Residency (Boston, MA)
July, 2014-June, 2017
- McGaw Medical Center, Northwestern University, Feinberg School of Medicine
General Surgery Residency (Chicago, IL)
July, 2007-June, 2010; July 2012-June, 2014

POSTDOCTORAL RESEARCH TRAINING

- Physician-Scientist Training Program, Northwestern University
Research Fellow, Division of Plastic Surgery, Department of Surgery (Chicago, IL)
July, 2010- June, 2012

BOARD CERTIFICATION

- American Board of Surgery, 2014
- American Board of Plastic Surgery, 2019 (board eligible)

MEDICAL LICENSURE

- Illinois, 2014, 036-126825
- New York, 2016, 286596-1

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor
Department of Surgery, University of Chicago, Pritzker School of Medicine, Chicago, IL
8/13/2018-present
- Clinical Instructor
Plastic and Reconstructive Surgery Service, Memorial Sloan Kettering Cancer Center,
New York, NY
7/1/2017-6/30/2018
- Clinical Instructor
Division of Plastic and Reconstructive Surgery, Harvard Medical School, Boston, MA
7/1/2016-6/30/2017

- Clinical Instructor
Department of Surgery, Northwestern University, Feinberg School of Medicine, Chicago, IL
7/1/2013-6/30/2014

HOSPITAL APPOINTMENT

- Attending Physician
Division of Plastic Surgery, Department of Surgery, NorthShore University HealthSystem, Evanston, IL
8/13/2018-present

PROFESSIONAL MEMBERSHIPS

- National Society of Collegiate Scholars
- Golden Key International Honors Society for Undergraduate Students
- Alpha Epsilon Delta National Honorary Society for Premedical Students
- Alpha Eta Mu Beta National Honorary Society in Biomedical Engineering
- Tau Beta Pi National Honorary Society in Engineering
- American Medical Association
- American Medical Student Association
- American College of Surgeons, Resident Member
- Plastic Surgery Research Council, Resident Member
- Association for Academic Surgery, Resident Member
- American Society of Plastic Surgeons, Resident Member

PROFESSIONAL EXPERIENCE

- Reviewer – *Annals of Surgical Oncology*
- Reviewer – *PloS ONE*
- Reviewer – *Journal of Reconstructive Microsurgery*
- Resident Representative – Autologous Breast Reconstruction Performance Measures Work Group, American Society of Plastic Surgeons, 2017
- Committee Member – American Society of Plastic Surgeons Program and Instructional Course Committee, 2017-2019
- Committee Member – American Society of Plastic Surgeons Healthcare Delivery Subcommittee, 2018-2019

WORK EXPERIENCE

- Johns Hopkins University Admissions Counselor, December 2002 – May 2003
- Kaplan Test Preparation MCAT Teacher, December 2002 – May 2003
- Johns Hopkins University Undergraduate Student Tutor, 2000-2002

HONORS/AWARDS

- Residency:
 - Outstanding Paper Presentation, American Society of Plastic Surgeons Annual Meeting, Los Angeles, CA (2016)
 - General Surgery Resident as Teacher Award (2014)
 - Administrative Chief Resident, General Surgery (2013-2014)
 - Kanaval Surgical Scholar Award, General Surgery (2013-2014)

- Goldberg Family Trust Award, Northwestern Memorial Foundation (12/2011)
- Goldberg Family Trust Award, Northwestern Memorial Foundation (9/2011)
- Northwestern University Physician-Scientist Training Program Scholar (2011)
- Scientific Presentation Award, Best Presentation by a Resident or Fellow, American Society of Breast Surgeons Annual Meeting, Washington, DC (2011)
- Goldberg Family Trust Award, Northwestern Memorial Foundation (3/2011)
- Wound Biotechnology Foundation Award, Wound Healing Society (2011)
- Goldberg Family Trust Award, Northwestern Memorial Foundation (9/2010)
- General Surgery Resident as Teacher Award (2010)
- Northwestern Memorial Hospital SICU Partner in Care Award (2010)
- Northwestern Memorial Hospital SICU Partner in Care Award (2009)
- Medical School:
 - Medical Student Society Class Representative (2003-2004)
 - Medical School Curriculum Committee Member (2003-2007)
 - Education Policy Committee Member (2003-2004)
- Undergraduate:
 - Graduated with Departmental and University Honors
 - Richard J. Johns Outstanding Achievement in Biomedical Engineering Award (2002)
 - Johns Hopkins University Provost Fall Research Award (2002)
 - Howard Hughes Summer Research Fellowship (2002)
 - Biomedical Engineering Summer Intern Research Program, NIH (2001)

CURRENT RESEARCH

- Left vs. right coupler size in microvascular breast reconstruction using the internal mammary veins, PI: Eric G. Halvorson, MD
- Autologous breast reconstruction with stacked abdominal and lumbar artery perforator flaps, PI: David T. Greenspun, MD
- Characterization of, and surgical therapy for, lymphedema, PI: Joseph Dayan, MD; Babak Mehrara, MD

RESEARCH/PUBLICATIONS

- Journal Articles
 1. Brooks HL, Ageloff S, Kwon TH, Brandt W, Terris JM, **Seth A**, Michea L, Nielsen S, Fenton R, Knepper MA. cDNA array identification of genes regulated in rat renal medulla in response to vasopressin infusion. *Am J Physiol Renal Physiol*. 2003;284(1):F218-28.
 2. Geocadin RG, Malhotra AD, Tong S, **Seth A**, Moriwaki G, Hanley DF, Thakor NV. Effect of acute hypoxic preconditioning on qEEG and functional recovery after cardiac arrest in rats. *Brain Res*. 2005;1064(1-2):146-54.
 3. Williams JA, Bansal AK, Kim BJ, Nwakanma LU, Patel ND, **Seth AK**, Alejo DE, Gott VL, Vricella LA, Baumgartner WA, Cameron DE. Two thousand Blalock-Taussig shunts: a six decade experience. *Ann Thorac Surg*. 2007;84(6):2070-5.
 4. **Seth AK**, Argani P, Campbell KA, Cameron JL, Pawlik TM, Schulick RD, Choti MA, Wolfgang CL. Acinar cell carcinoma of the pancreas: an institutional series of resected patients and review of the current literature. *J Gastrointest Surg*. 2008;12(6):1061-7.
 5. **Seth AK**, Argani P, Campbell KA. Angiosarcoma of the pancreas: discussion of a rare epithelioid neoplasm. *Pancreas*. 2008;37(2):230-1.
 6. Nathan H, Cameron JL, Goodwin CR, **Seth AK**, Edil BH, Wolfgang CL, Pawlik TM, Schulick, Choti MA. Risk factors for pancreatic leak after distal pancreatectomy. *Ann Surg*. 2009;250(2):277-81.

7. **Seth AK**, Kim JY. Acute symptomatic hematoma with defined etiology seven years after breast reconstruction: case report and review of the literature. *Can J Plast Surg*. 2010;18(2):e27-e29.
8. 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;19(3):400-10.
9. **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;129(2):262e-74e.
10. **Seth AK**, Hirsch EM, Fine NA, Dumanian GD, Mustoe TA, Galiano RD, Hansen NM, Kim JY. Additive risk of tumescent technique in patients undergoing mastectomy with immediate reconstruction. *Ann Surg Oncol*. 2011;18(11):3041-6.
11. Hirsch EM, **Seth AK**, Dumanian GD, Kim JY, Mustoe TA, Galiano RD, Fine NA. Outcomes of tissue expander/implant breast reconstruction in the setting of pre-reconstruction radiation. *Plast Reconstr Surg*. 2012;129(2):354-61.
12. **Seth AK**, Hirsch EM, Kim JY, Dumanian GD, Mustoe TA, Galiano RD, Fine NA. Hematoma after mastectomy with immediate reconstruction: An analysis of risk factors in 883 patients. *Ann Plast Surg*. 2013;71(1):20-23.
13. **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;20(2):214-225.
14. Hirsch EM, **Seth AK**, Fine NA. Capsular contracture after breast reconstruction: A modified classification system incorporating the effects of radiation. *Plast Reconstr Surg*. 2012;129(5):870e-1e.
15. **Seth AK**, Persing S, Connor CM, Davila A, Hirsch EM, Fine NA, Kim JYS. A Comparative analysis of cryopreserved versus pre-hydrated human acellular dermal matrices in tissue expander breast reconstruction. *Ann Plast Surg*. 2013;70(6):632-635.
16. **Seth AK**, Hirsch EM, Fine NA, Kim JYS. Utility of acellular dermis-assisted breast reconstruction in the setting of radiation: A long-term comparative analysis. *Plast Reconstr Surg*. 2012;130(4):750-758.
17. Hirsch EM, **Seth AK**, Dumanian GD, Kim JY, Mustoe TA, Galiano RD, Fine NA. Outcomes of immediate tissue expander breast reconstruction followed by reconstruction of choice in the setting of post mastectomy radiation therapy. *Ann Plast Surg*. 2014;72(3):274-278.
18. Hirsch EM, **Seth AK**, Fine NA. Reconstruction of the Inframammary Fold Using Barbed Suture. *Ann Plast Surg*. 2014;72(4):388-390.
19. **Seth AK**, Geringer MR, Galiano RD, Leung KP, Mustoe TA, Hong SJ. Quantitative comparison and analysis of species-specific wound biofilm virulence using an *in vivo*, rabbit ear model. *J Am Coll Surg*. 2012;215(3):388-399.
20. **Seth AK**, Geringer MR, Hong SJ, Galiano RD, Leung KP, Mustoe TA, Galiano RD. *In vivo* modeling of biofilm-infected wounds: A review. *J Surg Res*. 2012;178(1):330-338.
21. **Seth AK**, Hirsch EM, Kim JYS, Fine NA. Long-term outcomes following fat grafting in prosthetic breast reconstruction: A comparative analysis. *Plast Reconstr Surg*. 2012;215(3):388-399.
22. **Seth AK**, Galiano RD. Discussion: Histologic and biomechanical evaluation of biologic meshes following colonization with *Pseudomonas aeruginosa*. *J Surg Res*. 2013;182(2):210-211.
23. **Seth AK**, Hirsch EM, Kim JYS, Bethke KP, Hansen NM, Fine NA. Two surgeons, one patient: The impact of surgeon-surgeon familiarity on patient outcomes following mastectomy with immediate reconstruction. *Breast*. 2013;22(5):914-918.
24. **Seth AK**, Nguyen KT, Geringer MR, Hong SJ, Leung KP, Mustoe TA, Galiano RD. Noncontact, low frequency ultrasound as an effective therapy against *Pseudomonas aeruginosa*-infected biofilm wounds. *Wound Repair Regen*. 2013;21(2):266-274.

25. **Seth AK**, Geringer MR, Galiano RD, Leung KP, Mustoe TA, Hong SJ. Comparative analysis of single-species and polybacterial wound biofilms using a quantitative, *in vivo*, rabbit ear model. PLoS ONE. 2012;7(8):e42897.
26. Hanwright PJ, Hirsch EM, **Seth AK**, Chow GS, Smetona J, McNichols C, Gaido JA, Fine NA, Bilimoria KY, Kim JYS. A multi-institutional perspective of complication rates for elective non-reconstructive breast surgery: An analysis of NSQIP data from 2006-2010. Aesth Surg J. 2013;33(3):378-386.
27. **Seth AK**, Geringer MR, Nguyen K, Agnew SP, Dumanian Z, Hong SJ, Galiano RD, Leung KP, Mustoe TA. Bacteriophage therapy for *Staphylococcus aureus* biofilm-infected wounds: A new approach to chronic wound care. Plast Reconstr Surg. 2013;131(2):225-234.
28. Davila AA, **Seth AK**, Hanwright P, Bilimoria K, Fine N, Kim JYS. Human acellular dermis versus submuscular tissue expander breast reconstruction: A multivariate comparative analysis of short-term complications. Arch Plast Surg. 2013;40(1):19-27.
29. Nguyen KT, Hanwright PJ, Smetona JT, Hirsch EM, **Seth AK**, Kim JY. Body mass index as a continuous predictor of outcomes after expander-implant breast reconstruction. Ann Plast Surg. 2014;73(1):19-24.
30. Mioton LM, Smetona JT, Hanwright PJ, **Seth AK**, Wang E, Bilimoria K, Gaido J, Fine NA, Kim JY. Comparing thirty-day outcomes in prosthetic and autologous breast reconstruction: A multivariate analysis of 13,082 patients. J Plast Reconstr Aesthet Surg. 2013;66(7):917-925.
31. **Seth AK**, De la Garza M, Fang RC, Hong SJ, Galiano RD. Excisional wound healing is delayed in a murine model of chronic kidney disease. PLoS ONE. 2013;8(3):e59979.
32. Nguyen KT, Mioton LM, Smetona JT, **Seth AK**, Kim JY. Esthetic outcomes of ADM-assisted expander-implant breast reconstruction. Eplasty. 2012;12:e58.
33. Mioton LM, **Seth AK**, Gaido JA, Fine NA, Kim JY. Tracking the aesthetic outcomes of prosthetic breast reconstruction that have complications. Plast Surg (Oakv). 2014;22(2):70-74.
34. Nguyen KT, **Seth AK**, Hong SJ, Geringer MR, Xie P, Leung KP, Mustoe TA, Galiano RD. Deficient cytokine expression and neutrophil oxidative burst contribute to impaired cutaneous wound healing in diabetic, biofilm-containing chronic wounds. Wound Repair Regen. 2013;21(6):833-841. (Winner of Wound Healing Society Anita Roberts Award – Best research article of the year)
35. Chen P, **Seth AK**, Abercrombie J, Mustoe TA, Leung KP. Activity of imipenem against *Klebsiella pneumoniae* biofilms in vitro and in vivo. Antimicrob Agents Chemother. 2014;58(2):1208-1213.
36. Leung KP, D'Arpa P, **Seth AK**, Geringer MR, Jett M, Xu W, Hong SJ, Galiano RD, Chen T, Mustoe TA. Dermal wound transcriptomic responses to infection with *Pseudomonas aeruginosa* versus *Klebsiella pneumoniae*. BMC Clinical Pathology. 2014;2:14-20.
37. **Seth AK**, Silver HR, Hirsch EM, Kim JY, Fine NA. Comparison of delayed and immediate tissue expander breast reconstruction in the setting of post-mastectomy radiation therapy. Ann Plast Surg. 2014;75(5):503-507.
38. Hirsch EM, **Seth AK**, Kim JY, Dumanian GA, Mustoe TA, Galiano RD, Fine NA. Analysis of risk factors for complications in expander/implant breast reconstruction by stage of reconstruction. Plast Reconstr Surg. 2014;134(5):692e-699e.
39. **Seth AK**, Zhong A, Nguyen KT, Hong SJ, Leung KP, Galiano RD, Mustoe TA. Impact of a novel, anti-microbial dressing on *in vivo*, *Pseudomonas aeruginosa* wound biofilm: Quantitative comparative analysis using a rabbit ear model. Wound Repair Regen. 2014;22(6):712-719.
40. Sarwark JP, McCarthy DM, Pearce C, **Seth AK**, Issa N. Leg and abdominal impalement with rebar: A case report and review of the literature. Am J Emerg Med. 2015;33(8):1110.e1-2.
41. Park E, Long SA, **Seth AK**, Geringer M, Xu W, Chavez-Munoz C, Leung K, Hong SJ, Galiano RD, Mustoe TA. The use of desiccation to treat staphylococcus aureus biofilm infected wounds. Wound Repair Regen. 2016;24(2):394-401.

42. Hirsch EM, **Seth AK**, Dumanian GD, Kim JY, Mustoe TA, Galiano RD, Fine NA. Outcomes of immediate tissue expander breast reconstruction followed by reconstruction of choice in the setting of post mastectomy radiation therapy: reply. *Ann Plast Surg.* 2015;74(2):271-272.
43. **Seth AK**, Fine NA. Comparison of delayed and immediate tissue expander breast reconstruction in the setting of post-mastectomy radiation therapy: Reply. *Ann Plast Surg.* 2015;75(2):246-247.
44. **Seth AK**, Vargas CR, Chuang DJ, Lee BT. Readability assessment of patient information about lymphedema and its treatment. *Plast Reconstr Surg.* 2016;137:287e-295e.
45. **Seth AK**, Hirsch EM, Kim JY, Fine NA. Outcomes following elevation of serratus anterior fascia during prosthetic breast reconstruction. *Ann Plast Surg.* 2017;78(6):641-645.
46. **Seth AK**, Iorio ML. Super-thin and suprafascial anterolateral thigh perforator flaps for extremity reconstruction. *J Reconstr Microsurg.* 2017;33(7):466-473.
47. **Seth AK**, Lin AM, Austen Jr WG, Gilman RH, Gallico III GG, Colwell AS. Impact of technique and patient subtype on abdominoplasty outcomes: A 12-year Massachusetts General Hospital experience. *Plast Reconstr Surg.* 2017;140(5):899-908.
48. **Seth AK**, Diamond S, Iorio ML. Outcomes of an early protocol for dependent conditioning in lower extremity microsurgical free flaps. *J Reconstr Microsurg.* 2017;33(9):670-678.
49. **Seth AK**, Friedstat JS, Orgill DP, Pribaz JJ, Halvorson EG. Microsurgery: Timing and indications in burn patients. *Clin Plast Surg.* 2017;44(4):823-832.
50. Diamond S, **Seth AK**, Chattha AS, Iorio ML. Outcomes of subfascial, suprafascial, and super-thin anterolateral thigh flaps: Tailoring thickness without added morbidity. *J Reconstr Microsurg.* *J Reconstr Microsurg.* 2018;34(3):176-184.
51. **Seth AK**, Koolen PGL, Sultan SM, Lee BT, Erhard HA, Greenspun DT. Unilateral autologous breast reconstruction with bi-pedicled, conjoined deep inferior epigastric perforator (DIEP) flaps. *J Reconstr Microsurg.* In press.
52. Mitchell SL, **Seth AK**, Matros E, Cordeiro PG. Maxillary reconstruction using a gullwing fibula osteofascial flap and flexor hallucis long muscle. *Plast Reconstr Surg.* In press.
53. **Seth AK**, Ratanshi I, Dayan JH, Disa JJ, Mehrara BJ. Nasal reconstruction using the Integra® dermal regeneration template. *Plast Reconstr Surg.* Submitted.
54. **Seth AK**, Allen Jr, RJ. Modern techniques and alternative flaps in microsurgical breast reconstruction. *J Surg Onc.* In Press.

- Book Chapters

1. Bonde P, **Seth A**, Yuh DD. Surgical Management of Hypertrophic Obstructive Cardiomyopathy. In *Johns Hopkins Manual of Cardiothoracic Surgery*, edited by Yuh DD, Vricella LA, Baumgartner WA, 805-814. New York, NY: McGraw-Hill Companies, 2007.

- Published Abstracts

1. **Seth AK**, Hirsch EM, Kim JY, Dumanian GA, Mustoe TM, Fine NF. Hematoma rate with and without tumescent solution in patients undergoing mastectomy with immediate tissue expander reconstruction. *J Am Coll Surg.* 2010;211(3):S89-S90.
2. **Seth AK**, Hirsch EM, Fine NA, Dumanian GA, Mustoe TM, Kim JY. Outcomes following mastectomy with immediate tissue expander reconstruction with and without the use of tumescent solution. *Ann Surg Onc.* 2011;18:S156.
3. Hirsch EM, **Seth AK**, Kim JY, Dumanian GA, Mustoe TM, Fine NF. Outcomes of tissue expander breast reconstruction in patients with pre-reconstruction radiation. *Plast Reconstr Surg.* 2011;127:35.

4. **Seth AK**, Gurjala AN, Geringer MR, 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*. 2011;127:75.
5. **Seth AK**, Geringer MR, Gurjala AN, Hong SJ, Galiano RD, Leung KP, Mustoe TA. Quantitative analysis and comparison of *in vivo Klebsiella pneumoniae* and *Pseudomonas aeruginosa* biofilms: A study of virulence using a rabbit ear model. *Wound Repair Regen*. 2011;19(2):A50.
6. **Seth AK**, Hirsch EM, Fine NA. Comparative Analysis of Adjustable Implant and Tissue Expander Reconstruction Following Mastectomy: Evaluating the Potential for Single-Stage Breast Reconstruction. *Plast Reconstr Surg*. 2011;128(4S):3.
7. Hirsch EM, **Seth AK**, Kim JY, Dumanian GA, Mustoe TM, Galiano RD, Fine NF. Outcomes of immediate tissue expander breast reconstruction followed by reconstruction of choice in the setting of post-mastectomy radiation therapy. *Plast Reconstr Surg*. 2011;128(4S):6.
8. **Seth AK**, Hirsch EM, Fine NF, Dumanian GA, Mustoe TM, Kim JY. Tissue Expander Breast Reconstruction Using Different Techniques for Implant Coverage: A Comparative Analysis. *J Am Coll Surg*. 2011;213(3):S93.
9. **Seth AK**, Hirsch EM, Fine NA. Impact of breast cancer stage on complication rates following mastectomy with immediate reconstruction: The importance of the mastectomy skin flap. *J Surg Res*. 2012;172(2):342.
10. **Seth AK**, Hirsch EM, Hansen NM, Fine NA. Complication rates following mastectomy with reconstruction in malignant and prophylactic breasts: A matched cohort study. *Ann Surg Onc*. 2012;19:P56.
11. **Seth AK**, Hirsch EM, Hansen NM, Fine NA. Impact of breast cancer stage on outcomes following mastectomy with reconstruction. *Ann Surg Onc*. 2012;19:S15.
12. **Seth AK**, Geringer MR, Nguyen KT, Hong SJ, Leung KP, Mustoe TA, Galiano RD. Low-frequency ultrasound as an effective therapy against *Pseudomonas aeruginosa* biofilm-infected wounds: An *in vivo* study using a rabbit ear model. *Wound Repair Regen*. 2012;20(2):A38.
13. **Seth AK**, Geringer MR, Galiano RD, Leung KP, Mustoe TA, Hong SJ. Comparative analysis of single-species and polybacterial wound biofilms using a quantitative, *in vivo*, rabbit ear model. *Wound Repair Regen*. 2012;20(2):A38.
14. Nguyen KT, **Seth AK**, Geringer MR, Hong SJ, Leung KP, Mustoe TA, Galiano RD. Biofilm-infected diabetic wounds exhibit an aberrant and inefficient upregulation of inflammatory cytokines despite robust neutrophil recruitment. *Wound Repair Regen*. 2012;20(2):A33.
15. **Seth AK**, Hirsch EM, Fine NA. Comparison of delayed and immediate tissue expander breast reconstruction in the setting of post-mastectomy radiation therapy. *Plast Reconstr Surg*. 2012;130(1S):63.
16. **Seth AK**, Geringer MR, Nguyen KT, Hong SJ, Leung KP, Mustoe TA, Galiano RD. Low-frequency ultrasound as an effective therapy against *Pseudomonas aeruginosa* biofilm-infected wounds: An *in vivo* study using a rabbit ear model. *Plast Reconstr Surg*. 2012;130(1S):92.
17. Nguyen KT, **Seth AK**, Geringer MR, Hong SJ, Leung KP, Mustoe TA, Galiano RD. Biofilm-infected diabetic wounds exhibit an aberrant and inefficient upregulation of inflammatory cytokines despite robust neutrophil recruitment. *Plast Reconstr Surg*. 2012;130(1S):34.
18. Davila AA, **Seth AK**, Wang E, Hanwright PJ, Bilimoria KY, Fine NA, Kim JYS. Human acellular dermis versus submuscular tissue expander breast reconstruction: A multivariate comparative analysis of short-term complications based on the National Surgical Quality Improvement Program (NSQIP) database. *Plast Reconstr Surg*. 2013;131(5S):118.
19. **Seth AK**, Hirsch EM, Kim JYS, Fine NA. Outcomes following elevation of serratus anterior fascia during prosthetic breast reconstruction. *Ann Surg Onc*. 2014;21:107.

20. Park E, Long SA, **Seth AK**, Geringer M, Xu W, Chavez-Munoz C, Leung K, Hong SJ, Galiano RD, Mustoe TA. The role of dessication in the treatment of Staphylococcus aureus biofilm infected wounds. *Plast Reconstr Surg*. 2015;135(5S):143-144.
 21. **Seth AK**, Lin AM, Austen WG Jr, Gilman RH, Gallico III G, Colwell AS. Impact of technique and patient subtype on abdominoplasty outcomes: A 12-year Massachusetts General Hospital experience. *Plast Reconstr Surg Glob Open*. 2016;4(9 Suppl):31.
- Invited Lectures
 1. **Seth AK**. Non-contact, low frequency ultrasound – The impact on biofilm. Desert Foot – Annual High Risk Diabetic Foot Conference, Phoenix, AZ, November 14th, 2012.
 - Presentations
 1. Brooks HL, Ageloff S, Kwon TH, Brandt W, Terris JM, **Seth A**, Michea L, Nielsen S, Fenton R, Knepper MA. cDNA array identification of genes regulated in rat renal medulla in response to vasopressin infusion. National Institutes of Health Summer Intern Research Conference, Bethesda, Maryland, August 16, 2001.
 2. **Seth A**, Rougee L, Yang N, Thakor NV. Significance of nitric oxide in chronic neuronal preconditioning against cardiac arrest. Howard Hughes Summer Research Fellowship Conference, Baltimore, Maryland, August 9, 2002.
 3. **Seth AK**, Barreiro CJ, Bonde P, Williams JA, Alejo DE, Baumgartner WA, Gott VL, Conte JV. Clinical outcomes following mitral valve and redo-CAB procedures via a thoracotomy incision. American Medical Association Medical Student Section Interim Meeting, Atlanta, Georgia, December 3, 2004.
 4. **Seth AK**, Argani P, Campbell KA, Cameron JL, Pawlik TM, Schulick RD, Choti MA, Wolfgang CL. Acinar cell carcinoma of the pancreas: an institutional series of resected patients and review of the current literature. Pancreas Club, Inc, Washington, DC, May 20, 2007. (poster format)
 5. Reddy S, **Seth AK**, Cameron JL, Leach SD, Wolfgang CL. Targeting lipid mediators of pancreatic cancer growth. Pancreas Club, Inc, Washington, DC, May 20, 2007.
 6. **Seth AK**, Hirsch EM, Kim JY, Dumanian GA, Mustoe TM, Fine NF. Hematoma rate with and without tumescent solution in patients undergoing mastectomy with immediate tissue expander reconstruction. Midwestern Association of Plastic Surgeons Annual Meeting, Chicago, IL, May 15, 2010.
 7. Hirsch EM, **Seth AK**, Kim JY, Dumanian GA, Mustoe TM, Fine NF. Outcomes following tissue expander breast reconstruction patients with pre-reconstruction radiation. Midwestern Association of Plastic Surgeons Annual Meeting, Chicago, IL, May 15, 2010.
 8. **Seth AK**, Hirsch EM, Kim JY, Dumanian GA, Mustoe TM, Fine NF. Hematoma rate with and without tumescent solution in patients undergoing mastectomy with immediate tissue expander reconstruction. American College of Surgeons Clinical Congress, Washington, DC, October 7, 2010.
 9. **Seth AK**, Gurjala AN, Geringer MR, 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. American Association of Plastic Surgeons Annual Meeting, Boca Raton, FL, April 10th, 2011. (poster format)
 10. **Seth AK**, Geringer MR, Gurjala AN, Hong SJ, Galiano RD, Leung KP, Mustoe TA. Quantitative analysis and comparison of *in vivo Klebsiella pneumoniae* and *Pseudomonas aeruginosa* biofilms: A study of virulence using a rabbit ear model. Wound Healing Society Annual Meeting, Dallas, TX, April 17th, 2011.
 11. Hirsch EM, **Seth AK**, Kim JY, Dumanian GA, Mustoe TM, Fine NF. Outcomes of tissue expander breast reconstruction in patients with pre-reconstruction radiation. Plastic Surgery Research Council Annual Meeting, Louisville, KY, April 28th, 2011.

12. **Seth AK**, Gurjala AN, Geringer MR, 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. Plastic Surgery Research Council Annual Meeting, Louisville, KY, April 29th, 2011.
13. **Seth AK**, Hirsch EM, Fine NF, Dumanian GA, Mustoe TM, Kim JY. Outcomes following mastectomy with immediate tissue expander reconstruction with and without the use of tumescent solution. American Society of Breast Surgeons Annual Meeting, Washington, DC, April 30th, 2011. (*Awarded Scientific Presentation Award for best presentation by resident or fellow)
14. **Seth AK**, Geringer MR, Gurjala AN, Hong SJ, Galiano RD, Leung KP, Mustoe TA. Quantitative analysis and comparison of *in vivo Klebsiella pneumoniae* and *Pseudomonas aeruginosa* biofilms: A study of virulence using a rabbit ear model. Midwestern Association of Plastic Surgeons Annual Meeting, Chicago, IL, May 14, 2011.
15. **Seth AK**, Hirsch EM, Fine NA, Dumanian GD, Mustoe TA, Galiano RD, Hansen NM, Kim JY. Additive risk of tumescent technique in patients undergoing mastectomy with immediate reconstruction. Northwestern Division of Plastic and Reconstructive Surgery Research Day, Chicago, IL, June 10, 2011.
16. **Seth AK**, Hirsch EM, Fine NA. Comparative Analysis of Adjustable Implant and Tissue Expander Reconstruction Following Mastectomy: Evaluating the Potential for Single-Stage Breast Reconstruction. American Society of Plastic Surgeons Annual Meeting, Denver, CO, September 24, 2011.
17. Hirsch EM, **Seth AK**, Kim JY, Dumanian GA, Mustoe TM, Galiano RD, Fine NF. Outcomes of immediate tissue expander breast reconstruction followed by reconstruction of choice in the setting of post-mastectomy radiation therapy. American Society of Plastic Surgeons Annual Meeting, Denver, CO, September 24, 2011. (*Awarded Outstanding Paper Presentation)
18. **Seth AK**, Hirsch EM, Fine NA, Dumanian GA, Mustoe TM, Kim JY. Tissue Expander Breast Reconstruction Using Different Techniques for Implant Coverage: A Comparative Analysis. American College of Surgeons Clinical Congress, San Francisco, CA, October 26, 2011.
19. **Seth AK**, Hirsch EM, Fine NA. Long-term outcomes following fat grafting in implant-based breast reconstruction: a comparative analysis. International Federation for Adipose Therapeutics and Science Annual Meeting, Miami, FL, November 4, 2011.
20. **Seth AK**, Hirsch EM, Fine NA. Impact Of Breast Cancer Stage On Complication Rates Following Mastectomy With Immediate Reconstruction: The Importance Of The Mastectomy Skin Flap. Academic Surgical Congress, Las Vegas, NV, February 16, 2012. (short oral presentation format)
21. **Seth AK**, Hirsch EM, Hansen NM, Fine NA. Complication rates following mastectomy with reconstruction in malignant and prophylactic breasts: A matched cohort study. Society of Surgical Oncology Annual Cancer Symposium, Orlando, FL, March 22, 2012. (poster format)
22. **Seth AK**, Hirsch EM, Hansen NM, Fine NA. Impact of breast cancer stage on outcomes following mastectomy with reconstruction. Society of Surgical Oncology Annual Cancer Symposium, Orlando, FL, March 23, 2012.
23. **Seth AK**, Geringer MR, Nguyen K, Agnew SP, Dumanian Z, Hong SJ, Galiano RD, Leung KP, Mustoe TA. Bacteriophage therapy for *Staphylococcus aureus* biofilm-infected wounds: A new approach to chronic wound care. American Association of Plastic Surgeons Annual Meeting, San Francisco, CA, April 15th, 2012. (poster format)
24. **Seth AK**, Hirsch EM, Kim JY, Dumanian GA, Mustoe TM, Galiano RD, Fine NF. Two-stage, prosthetic breast reconstruction following mastectomy: Understanding the risk of complications. American Association of Plastic Surgeons Annual Meeting, San Francisco, CA, April 15th, 2012. (poster format)
25. **Seth AK**, Geringer MR, Nguyen KT, Hong SJ, Leung KP, Mustoe TA, Galiano RD. Low-frequency ultrasound as an effective therapy against *Pseudomonas aeruginosa* biofilm-infected wounds: An *in vivo* study using a rabbit ear model. Wound Healing Society Annual Meeting, Atlanta, GA, April 21st, 2012. (oral poster presentation format)

26. **Seth AK**, Geringer MR, Galiano RD, Leung KP, Mustoe TA, Hong SJ. Comparative analysis of single-species and polybacterial wound biofilms using a quantitative, *in vivo*, rabbit ear model. Wound Healing Society Annual Meeting, Atlanta, GA, April 21st, 2012.
27. Nguyen KT, **Seth AK**, Geringer MR, Hong SJ, Leung KP, Mustoe TA, Galiano RD. Biofilm-infected diabetic wounds exhibit an aberrant and inefficient upregulation of inflammatory cytokines despite robust neutrophil recruitment. Wound Healing Society Annual Meeting, Atlanta, GA, April 21st, 2012. (oral poster presentation format)
28. Silver HR, **Seth AK**, Hirsch EM, Fine NA. Comparison of delayed and immediate tissue expander breast reconstruction in the setting of post-mastectomy radiation therapy. Midwestern Association of Plastic Surgeons Annual Meeting, Chicago, IL, April 21, 2012.
29. **Seth AK**, Hirsch EM, Fine NA. Two surgeons, one patient: The impact of surgeon-surgeon familiarity on patient outcomes following mastectomy with immediate reconstruction. American Society of Breast Surgery Annual Meeting, Phoenix, AZ, May 4, 2012. (poster format)
30. Nguyen KT, **Seth AK**, Geringer MR, Hong SJ, Leung KP, Mustoe TA, Galiano RD. Biofilm-infected diabetic wounds exhibit an aberrant and inefficient upregulation of inflammatory cytokines despite robust neutrophil recruitment. Plastic Surgery Research Council Annual Meeting, Ann Arbor, MI, June 15, 2012.
31. **Seth AK**, Geringer MR, Nguyen KT, Hong SJ, Leung KP, Mustoe TA, Galiano RD. Low-frequency ultrasound as an effective therapy against *Pseudomonas aeruginosa* biofilm-infected wounds: An *in vivo* study using a rabbit ear model. Plastic Surgery Research Council Annual Meeting, Ann Arbor, MI, June 15, 2012. (poster format)
32. **Seth AK**, Silver HR, Hirsch EM, Fine NA. Comparison of delayed and immediate tissue expander breast reconstruction in the setting of post-mastectomy radiation therapy. Plastic Surgery Research Council Annual Meeting, Ann Arbor, MI, June 16, 2012.
33. **Seth AK**, Geringer MR, Nguyen K, Agnew SP, Dumanian Z, Hong SJ, Galiano RD, Leung KP, Mustoe TA. Bacteriophage therapy for *Staphylococcus aureus* biofilm-infected wounds: A new approach to chronic wound care. Northwestern Division of Plastic and Reconstructive Surgery Research Day, Chicago, IL, June 22, 2012.
34. Chow G, Hanwright P, McNichols CH, Connor C, Rawlani V, **Seth AK**, Hirsch EM, Fine NA, Kim JY. Tissue expander versus single-stage implant breast reconstruction: A comparison of short-term complications. American Society of Plastic Surgeons Annual Meeting, New Orleans, LA, October 28, 2012.
35. Davila AA, **Seth AK**, Wang E, Hanwright PJ, Bilimoria KY, Fine NA, Kim JYS. Human acellular dermis versus submuscular tissue expander breast reconstruction: A multivariate comparative analysis of short-term complications based on the National Surgical Quality Improvement Program (NSQIP) database. Plastic Surgery Research Council Annual Meeting, Santa Monica, CA, May 2, 2013.
36. Mioton LM, Smetona JT, Hanwright PJ, **Seth AK**, Wang E, Bilimoria KY, Gaido J, Fine NA, Kim JYS. A retrospective study comparing thirty-day morbidity outcomes in prosthetic and autologous tissue breast reconstruction: A multivariate analysis of 13,082 patients. National Predoctoral Programs Meeting, Rochester, MN, May 6, 2013.
37. **Seth AK**, Hirsch EM, Kim JY, Fine NA. Outcomes following elevation of serratus anterior fascia during prosthetic breast reconstruction. American Society of Breast Surgeons Annual Meeting, Las Vegas, NV, May 2, 2014. (poster format)
38. Park E, Long SA, **Seth AK**, Geringer M, Xu W, Chavez-Munoz C, Leung K, Hong SJ, Galiano RD, Mustoe TA. The use of dessication as a treatment modality for *Staphylococcus aureus* biofilm infected wounds. Wound Healing Society Annual Meeting, San Antonio, TX, May 1, 2015.
39. Park E, Long SA, **Seth AK**, Geringer M, Xu W, Chavez-Munoz C, Leung K, Hong SJ, Galiano RD, Mustoe TA. The role of dessication in the treatment of *Staphylococcus aureus* biofilm infected wounds. Plastic Surgery Research Council Annual Meeting, Seattle, WA, May 15, 2015. (poster format)

40. **Seth AK**, Clarke-Pearson EM, Dayan E, Halvorson EG. Left versus right coupler size in microvascular breast reconstruction using the internal mammary veins. Harvard Surgery Research Day Annual Meeting, Boston, MA, May 7, 2016.
41. **Seth AK**, Lin AM, Austen WG Jr, Gilman RH, Gallico III G, Colwell AS. Impact of technique and patient subtype on abdominoplasty outcomes: A 12-year Massachusetts General Hospital experience. American Society of Plastic Surgeons Annual Meeting, Los Angeles, CA, September 24, 2016. (*Awarded Outstanding Paper Presentation)
42. **Seth AK**, Lin AM, Austen WG Jr, Gilman RH, Gallico III G, Colwell AS. Impact of technique and patient subtype on abdominoplasty outcomes: A 12-year Massachusetts General Hospital experience. Northeastern Society of Plastic Surgeons Annual Meeting, Baltimore, MD. October 14, 2016. (poster format)
43. **Seth AK**, Lee BT, Iorio ML. Extremity reconstruction with super-thin and suprafascial anterolateral thigh perforator flaps. Northeastern Society of Plastic Surgeons Annual Meeting, Baltimore, MD. October 15, 2016.
44. Eberlin KR, **Seth AK**, Salinas HM, Bojovic B. End-stage, lower-extremity oncologic defect salvage using staged free-tissue transfer with a 60-cm arterio-venous loop: A case report. Mayo Clinic-Chang Gung Reconstructive Surgery Symposium, Munich, Germany. October 21, 2016.
45. **Seth AK**, Iorio ML. Outcomes following a standardized lower extremity free flap postoperative pathway and dangle protocol. American Society of Reconstructive Microsurgeons Annual Meeting, Waikoloa, HI. January 16, 2017.
46. **Seth AK**, Erhard HA, Greenspun DT. Unilateral autologous breast reconstruction with bi-pedicled, conjoined deep inferior epigastric perforator (DIEP) flaps. Mountain West Society of Plastic Surgeons Annual Meeting, Park City, UT. March 17, 2017.
47. Diamond S, **Seth AK**, Chattha AS, Kamali P, Lee BT, Lin SJ, Iorio ML. Aggressive limb salvage for wound coverage in the presence of vasculopathy: Thinning flaps does not affect functional recovery. New England Society of Plastic and Reconstructive Surgeons Annual Meeting, Falmouth, MA. June 3, 2017.
48. Diamond S, **Seth AK**, Chattha AS, Kamali P, Lee BT, Lin SJ, Iorio ML. Elevation of the anterolateral thigh flap in the suprascarpal plane: Primary flap thinning does not affect flap outcomes. New England Society of Plastic and Reconstructive Surgeons Annual Meeting, North Falmouth, MA. June 4, 2017.
49. **Seth AK**, Diamond S, Lee BT, Iorio ML. Extremity reconstruction with super-thin and suprafascial anterolateral thigh perforator flaps. 9th Congress of World Society of Reconstructive Microsurgery, Seoul, South Korea. June 14, 2017. (poster format)
50. **Seth AK**, Diamond S, Iorio ML. Outcomes following a standardized lower extremity free flap postoperative pathway and dangle protocol. 9th Congress of World Society of Reconstructive Microsurgery, Seoul, South Korea. June 14, 2017. (poster format)
51. **Seth AK**, Erhard HA, Greenspun DT. Bilateral autologous breast reconstruction with extended, conjoined deep inferior epigastric perforator (DIEP) flaps. 9th Congress of World Society of Reconstructive Microsurgery, Seoul, South Korea. June 15, 2017.
52. **Seth AK**, Greenspun DT. Autologous breast reconstruction using lumbar artery perforator flaps. 9th Congress of World Society of Reconstructive Microsurgery, Seoul, South Korea. June 15, 2017.
53. Diamond S, **Seth AK**, Chattha AS, Kamali P, Lee BT, Lin SJ, Iorio ML. Aggressive limb salvage for wound coverage in the presence of vasculopathy: Thinning flaps does not affect functional recovery. 9th Congress of World Society of Reconstructive Microsurgery, Seoul, South Korea. June 15, 2017.
54. **Seth AK**, Erhard HA, Greenspun DT. Bilateral autologous breast reconstruction with extended, conjoined deep inferior epigastric perforator (DIEP) flaps. Northeastern Society of Plastic Surgeons Annual Meeting, Newport, RI. September 8, 2017.
55. **Seth AK**, Greenspun DT. Autologous breast reconstruction using lumbar artery perforator flaps. Northeastern Society of Plastic Surgeons Annual Meeting, Newport, RI. September 8, 2017.
56. Sultan SM, **Seth AK**, Greenspun DT, Erhard HA. Stacked deep inferior epigastric perforator flaps for unilateral breast reconstruction in overweight and obese patients: Do

- the benefits outweigh the risks? Northeastern Society of Plastic Surgeons Annual Meeting, Newport, RI. September 8, 2017.
57. Diamond S, **Seth AK**, Chattha AS, Ruan QZ, Iorio ML. Dual venous drainage does not improve perforator flap performance in lower extremity reconstruction. Northeastern Society of Plastic Surgeons Annual Meeting, Newport, RI. September 8, 2017.
 58. **Seth AK**, Erhard HA, Greenspun DT. Bilateral autologous breast reconstruction with extended, conjoined deep inferior epigastric perforator (DIEP) flaps. American Society of Reconstructive Microsurgery Annual Meeting. Scottsdale, AZ. January 14, 2018. (poster format)
 59. **Seth AK**, Greenspun DT. Autologous breast reconstruction using lumbar artery perforator flaps. American Society of Reconstructive Microsurgery Annual Meeting. Scottsdale, AZ. January 15, 2018.
 60. **Seth AK**, Erhard HA, Greenspun DT. Unilateral autologous breast reconstruction with bi-pedicled, conjoined deep inferior epigastric perforator (DIEP) flaps. American Society of Reconstructive Microsurgery Annual Meeting. January 14, 2018. (poster format)
 61. Sultan SM, **Seth AK**, Greenspun DT, Erhard HA. Stacked DIEP flaps for unilateral breast reconstruction: Assessing the safety of advanced microsurgical techniques in overweight and obese patients. American Society of Reconstructive Microsurgery Annual Meeting. January 14, 2018. (poster format)
 62. Ratanshi I, **Seth AK**, Mehrara BJ, Dayan JH. How to assess a new lymphedema consult: Considerations for lymphaticovenular bypass and lymph node transfers. Canadian Society of Plastic Surgeons Annual Meeting. June 20, 2018.

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