

Franca S. Kraenzlin, MD

Brown University Health; Plastic Hand Surgery, 235 Plain Street, Suite 102, Providence, Rhode Island, 02905

EDUCATION AND TRAINING

University of Maryland Medical Center/R Adams Cowley Shock Trauma Center Hand, Upper Extremity and Microvascular Fellowship	Baltimore, MD August 2023 – July 2024
Johns Hopkins and University of Maryland Combined Program Integrated Plastic Surgery Residency Training Program	Baltimore, MD July 2016 – June 2023
University of Rochester School of Medicine & Dentistry (URSMD) <i>Medical Doctor</i> <i>Elective Pathway: Medical Education Pathway</i>	Rochester, NY August 2012 - May 2016
Johns Hopkins University Bloomberg School of Public Health <i>Master of Health Science: Department of Molecular Microbiology and Immunology</i> <i>Thesis Topic: Rethinking Current Strategies in Treating Bacterial Infections: A Case for Prophylactic Vaccination</i>	Baltimore, MD August 2010 - May 2011
Johns Hopkins University (JHU) <i>Bachelor of Arts: Neuroscience. Minors: Entrepreneurship & Management and German</i>	Baltimore, MD August 2004 - May 2008

LICENSURE AND BOARD CERTIFICATION

Rhode Island State (2024 – Present)
DEA (2018 – Present)
Maryland State (2018 – 2024)
Eligible: American Board of Plastic Surgery

AWARDS AND ACADEMIC HONORS

2024 AASH Annual Meeting Travel Scholarship
2023 ASSH/AFSH Annual Meeting Scholarship
2022 ASSH/AFSH Annual Meeting Scholarship
2021 ASSH/AFSH Annual Meeting Scholarship
2013 Medical Education Summer Research Fellowship. URSMD.
2012 Commendation for placing in top 10% of class in Introduction to Clinical Medicine. URSMD.
2012 Commendation for placing in top 10% of class in Skills in Complete Patient Evaluation. URSMD.
2012 Commendation for placing in top 10% of class in Histology Component of Human Structure and Function. URSMD.
2008 Order of Omega Honors Society.

MEMBERSHIPS

American Society of Surgery of the Hand: Candidate Member (2021 – Present)

American Association of Hand Surgery: Candidate Member (2023 – Present)

PUBLICATIONS

- Wang SM, McKibben N, Azad CL, Njoroge MW, **Kraenzlin F**, O'Hara NN, De Jong T, Hollenbeck ST, Gage MJ, Mundy LR. Returning to Work is Associated with Higher Quality of Life: A LIMB-Q Analysis in Patients with Limb-Threatening Injuries. *J Orthop Trauma*. 2024 Dec 24. doi: 10.1097/BOT.0000000000002951. Epub ahead of print. PMID: 39718380.
- He WY, Pinni SL, Karius A, Chen J, Landford WN, **Kraenzlin F**, Cooney CM, Broderick KP. Evaluating Diversity Promotion on Integrated Plastic Surgery Residency Program Websites and Instagram Accounts. *Ann Plast Surg*. 2023 Dec 1;91(6):644-650. doi: 10.1097/SAP.0000000000003671. Epub 2023 Sep 4. PMID: 37830505.
- Kraenzlin F**, Schaefer EJ, Hawken JB, Sanghavi KK, Chee BW, Giladi AM. Evaluating Language Characteristics and Related Gender Bias in Letters of Recommendation for Hand Surgery Fellowship. *J Hand Surg Am*. 2023 Feb 12;S0363-5023(23)00022-9. doi: 10.1016/j.jhsa.2023.01.003. Epub ahead of print. PMID: 36788050.
- Kraenzlin F**, Habibi M, Aliu O, Cooney D, Rosson G, Manahan M, Sacks J, Broderick K. Infections after mastectomy and tissue expander placement: A multivariate regression analysis. *J Plast Reconstr Aesthet Surg*. 2022 Jul;75(7):2190-2196. doi: 10.1016/j.bjps.2022.01.050. Epub 2022 Jan 31. PMID: 35279422.
- Long C, **Kraenzlin F**, Aravind P, Kokosis G, Yesantharao P, Sacks JM, Rosson GD. Prepectoral breast reconstruction is safe in the setting of post-mastectomy radiation therapy. *J Plast Reconstr Aesthet Surg*. 2022 Sep;75(9):3041-3047. doi: 10.1016/j.bjps.2022.04.030. Epub 2022 Apr 26. PMID: 35599219.
- Lee E, Khavanin N, Xun H, Abousy M, Darrach H, **Kraenzlin F**, Jenny H, Yang R, Sacks JM. Identifying Public Perceptions, Attitudes, and Concerns About Breast Implants and Their Complications: A National Survey with Implications for Practice. *Plast Reconstr Surg*. 2022 Oct 4. doi: 10.1097/PRS.00000000000009820. Epub ahead of print. PMID: 36194058.
- Xun H, Fadavi D, Darrach H, Fischer N, Yesantharao P, **Kraenzlin F**, Nickles Fader A, Segars JH Jr, Sacks JM. Recognizing the Vulnerable: Perspectives, Attitudes, and Interests of Women With Uterine Factor Infertility Towards Uterus Allotransplantation. *Cureus*. 2021 Oct 19;13(10):e18891. doi: 10.7759/cureus.18891. PMID: 34804735; PMCID: PMC8599396.

8. Xun H, He W, Chen J, Long C, **Kraenzlin F**, Lee E, Yesantharao P, Cooney CS, Amalfi A, Huston TL, Broderick K. *A New Decade for Diversity: Trends in Representation of Women at the Northeastern Society of Plastic Surgeons*. *Ann Plast Surg*. 2021 Jul 1;87(1s Suppl 1):S65-S69. doi: 10.1097/SAP.0000000000002956. PMID: 34180867.
9. Khavanin N, Yesantharao P, **Kraenzlin F**, Darrach H, Sacks JM. *Quantifying the Effect of Topical Nitroglycerin on Random Pattern Flap Perfusion in a Rodent Model: An Application of the ViOptix Intra.Ox for Dynamic Flap Perfusion Assessment and Salvage*. *Plast Reconstr Surg*. 2021 Jul 1;148(1):100-107. doi: 10.1097/PRS.0000000000008050. PMID: 34014864.
10. **Kraenzlin F**, Chopra K, Kokosis G, Venturi ML, Mesbahi A, Nahabedian MY. *Revision Breast Reconstruction with Prepectoral Pocket Conversion of Submuscular Breast Implants*. *Plast Reconstr Surg*. 2021 May 1;147(5):743e-748e. PMID: 33890886.
11. Khavanin N, Darrach H, **Kraenzlin F**, Yesantharao PS, Sacks JM. *The Intra.Ox Near-Infrared Spectrometer Measures Variations in Flap Oxygenation That Correlate to Flap Necrosis in a Preclinical Rodent Model*. *Plast Reconstr Surg*. 2021 Apr 7. doi: 10.1097/PRS.0000000000007894. Epub ahead of print. PMID: 33835088.
12. Fischer N, Xun H, Lossie A, Fadavi D, Darrach H, Yesantharao P, **Kraenzlin F**, Singh B, Sacks JM, Segars JH. *Perspectives of 281 patients with Mayer-Rokitansky-Küster-Hausler Syndrome on uterine transplantation*. *Fertil Steril*. 2021 Apr;115(4):1074-1083. doi: 10.1016/j.fertnstert.2020.10.044. Epub 2021 Jan 16. PMID: 33468312.
13. Darrach H, **Kraenzlin FS**, Khavanin N, He W, Lee E, Sacks JM. *Pectoral placement of tissue expanders affects inpatient opioid use*. *Breast J*. 2021 Feb;27(2):126-133. doi: 10.1111/tbj.14149. Epub 2021 Jan 12. PMID: 33438303.
14. **Kraenzlin F**, Darrach H, Khavanin N, Kokosis G, Aliu O, Broderick K, Rosson GD, Manahan MA, Sacks JM. *Tissue Expander-Based Breast Reconstruction in the Prepectoral Versus Subpectoral Plane: An Analysis of Short-Term Outcomes*. *Ann Plast Surg*. 2021 Jan;86(1):19-23. doi: 10.1097/SAP.0000000000002415. PMID: 32568752.
15. Lee E, Khavanin N, He W, Darrach H, **Kraenzlin F**, Jenny H, Yang R, Sacks JM. *Public Perceptions on Breast Implant-Associated Anaplastic Large Cell Lymphoma*. *Plast Reconstr Surg*. 2020 Jul;146(1):30-37. doi: 10.1097/PRS.0000000000006889. PMID: 32590638.
16. **Kraenzlin FS**, Darrach H, Chopra K, Rosson GD, Broderick KP, Sacks JM. *Prepectoral 2-stage Breast Reconstruction with Carbon Dioxide Tissue Expansion*. *Plast Reconstr Surg Glob Open*. 2020 May 27;8(5):e2850. doi:10.1097/GOX.0000000000002850. PMID: 33133906; PMCID: PMC7572224.
17. Fadavi D, He W, **Kraenzlin F**, Darrach H, Shetty P, Xun H, Sacks JM. *Risk and Reward: Public Perception of Gluteal Fat Grafting Safety*. *Aesthetic Plast Surg*. 2020 Oct;44(5):1628-1638. doi: 10.1007/s00266-020-01728-9. Epub 2020 Apr 28. PMID: 32346781.
18. Khavanin N, Almaazmi H, Darrach H, **Kraenzlin F**, Safar B, Sacks JM. *Comparison of the ViOptix Intra.Ox Near Infrared Tissue Spectrometer and Indocyanine Green Angiography in a Porcine Bowel Model*. *J Reconstr Microsurg*. 2020 Feb 23. doi: 10.1055/s-0040-1702163.
19. Fadavi D, Haley A, Khavanin N, **Kraenzlin F**, Bos TJ, Cho BH, Carl HM, Bhat D, Ostrander BT, Manahan MA, Rosson GD, Sacks JM. *Postoperative Free Flap Breast Protocol Optimizing Resources and Patient Safety*. *J Reconstr Microsurg*. 2020 Feb 23.
20. Chopra K, Slavin B, Khavanin N, **Kraenzlin F**, Darrach H, Holton L, Landford WN, Singh DP. *Cost Utility of Breast Tissue Expansion using Carbon Dioxide versus Saline: An Analysis of Infection Risk*. *Plast Reconstr Surg Glob Open*. 2019 Oct 29;7(10):e2501. doi: 10.1097/GOX.0000000000002501. eCollection 2019 Oct.
21. **Kraenzlin FS**, Saunders H, Aliu O, Cooney D, Rosson GD, Sacks JM, Broderick K, Manahan MA. *Classification of breast tissue expander infections: Back to the basics*. *J Surg Oncol*. 2019 Aug;120(2):142-147. doi: 10.1002/jso.25500. Epub 2019 May 18.
22. Lopez CD, **Kraenzlin F**, Frost C, Darrach H, Aravind P, Sacks JM. *Latissimus Denervation: A Review of Evidence*. *J Reconstr Microsurg*. 2019 Oct;35(8):609-615. doi: 10.1055/s-0039-1688748. Epub 2019 May 8.
23. Darrach H, **Kraenzlin F**, Khavanin N, Chopra K, Sacks JM. *The role of fat grafting in prepectoral breast reconstruction*. *Gland Surg*. 2019;8:61-66.
24. Khavanin N, Qiu C, Darrach H, **Kraenzlin F** et al. *Intraoperative perfusion assessment in mastectomy skin flaps: How close are we to preventing complications?*. *J Reconstr Microsurg*. 2019.
25. **Kraenzlin F**, Mushin O, Ayazi S, Loree J, Bell DE. *Epidemiology and Outcomes of Auricular Burn Injuries*. *Journal of Burn Care Research*. May, 2017.
26. Mushin O, **Kraenzlin F**, Fazili A, Ghazi A, Bossert RP. *The Impact of Body Contouring Procedures on Urologic Outcomes in Massive Weight Loss Patients*. *Plastic and Reconstructive Surgery Journal*. May, 2017.
27. Swartz MF, Angona R, Smith K, **Kraenzlin F**, Stypula C, Joshi D, Tchanchalieshvili V, Hicks G, Massey HT. *Costs and outcomes in the care of bi-ventricular support as a bridge to cardiac transplant*. *ASAIO J*. September, 2016.
28. Lau BD, Haider AH, Streiff MB, Lehmann CU, Kraus PS, Hobson DB, **Kraenzlin F**, Zeidan AM, Pronovost PJ, Haut ER. *Eliminating Healthcare Disparities via Mandatory Clinical Decision Support: The Venous Thromboembolism (VTE) Example*. *Medical Care*. January 2015.
29. Haut ER, Lau BD, **Kraenzlin FS**, Hobson DB, Kraus PS, Carolan HT, Haider AH, Holzmueller CG, Efron DT, Pronovost PJ, Streiff MB. *Improved Prophylaxis and Decreased Rates of Preventable Harm with the Use of a Mandatory Computerized Clinical Decision Support Tool for Prophylaxis for Venous Thromboembolism in Trauma*. *Archives of Surgery*. October 2012.
30. Calderon DP, Fremont R, **Kraenzlin F**, Khodakhah K. *The Neural Substrates of Rapid-Onset Dystonia Parkinsonism*. *Nature Neuroscience*. March 2011.

BOOK CHAPTERS

1. **Kraenzlin, F;** Hartline, J; Langhammer, C; Pency, R. Ballistic Injuries of the Upper Extremity. *Humeral Shaft Fractures after Ballistic Injury*.
2. **Kraenzlin F,** Sacks, J. Reconstruction of Oncologic Defects. *Handbook of Lower Extremity Reconstruction*. Pg 67-78, 2020.
3. **Kraenzlin F,** Redett, R. Brachial Plexus Palsy. *The 5-Minute Pediatric Consult*. 9th Edition.

GRAND ROUNDS AND PODIUM PRESENTATIONS

1. **Kraenzlin, F.** Hand Surgery for the Tetraplegic Patient. Brown University Health. Grand Rounds, October, 2024.
2. **Kraenzlin, F.** Hand Surgery for the Tetraplegic Patient. University of Virginia. Grand Rounds, November 2023.
3. **Kraenzlin F,** Chopra K, Kokosis G, Venturi M, Mesbahi A, Nahabedian N. *Revisionary Breast Reconstruction with Prepectoral Pocket Conversion of Submuscular Breast Implants*. Resident Research Day, 2021.
4. **Kraenzlin, F,** *Principles of and Indications for Tendon Transfer*. Johns Hopkins Grand Rounds, 2021.
5. **Kraenzlin, F,** Yesantharao P, Darrach H, Xun H, Aliu O, Cooney D, Rosson G, Manahan M, Sacks J, Broderick K. *A Prospective Investigation of Opioid Use in Prepectoral Breast Reconstruction: Recommendations to Improve Practice*. Resident Research Day, 2020.
6. **Kraenzlin F,** Darrach H, Shetty P, Sacks J. *Perioperative Opioid Refills in Tissue Expander Based Breast Reconstruction: Patient Risk Factors and Prescriber Trends*. Audio Presentation at PSTM, 2020.
7. **Kraenzlin F,** Darrach H, Shetty P, Sacks J. *Perioperative Opioid Refills in Tissue Expander Based Breast Reconstruction: Patient Risk Factors and Prescriber Trends*. Podium Presentation at NESPS 2019.
8. **Kraenzlin F,** Sacks J. *Tissue Expander Based Breast Reconstruction: An Analysis of Short-Term Outcomes*. Resident Research Day, 2019.
9. **Kraenzlin, F.** *Cheek and Lip Reconstruction*. Johns Hopkins. Grand Rounds, 2019.
10. **Kraenzlin, F.** *Burn Management*. Johns Hopkins. Grand Rounds, 2019.
11. **Kraenzlin F,** Habibi M, Cooney D, Rosson G, Aliu O, Manahan M, Sacks J, Broderick M. *Antibiotic Stewardship and Infections after Tissue Expander Placement – A Multivariate Analysis*. Podium Presentation at PSTM, 2019.
12. **Kraenzlin F, Broderick, K.** *Antibiotic Stewardship in Breast Reconstruction and the Prescribing Tendencies at Johns Hopkins*. Resident Research Day, 2018.
13. **Kraenzlin F,** Mushin OP, Khouri J, Bell D. *Epidemiology of and Outcomes Following Auricular Burn Injuries*. Podium presentation at the 42nd Annual Eastern Great Lakes Burn Study Group. Pittsburgh, PA. October 17, 2014.

POSTER ABSTRACT PRESENTATIONS

1. **Kraenzlin, F;** Li, V; Bell, A; Okhuereigbe, D; Lawrence, J; Langhammer, C; Pency, R, MD; Takamura, K; Eglseider, A. *Short-Term Complications of Distal Radial Fractures Treated with Combination External Fixation and Open Reduction Internal Fixation*. E-Poster, ASSH, September 2024.
2. **Kraenzlin F,** Darrach H, Khavanian N, Broderick K, Manahan M, Rosson G, Aliu O, Cooney D, Sacks J. *Prepectoral versus Subpectoral plane Tissue Expander Based Breast Reconstruction: An Analysis of Complications, Outcomes and Cost Utility*. Podium presented by Darrach at AAPS, April 8th, 2019. Poster presentation at PSRC, Saturday May 4th, 2019.
3. **Kraenzlin F,** Broderick K. *Antibiotic Stewardship in Breast Reconstruction*. ePoster at PSRC, May 2019. Poster presentation at NESPS, October 26, 2018 presented by Mastroianni M.
4. **Kraenzlin F,** Toscano N, Bell D. *Conservative Management of Facial Burns with Petroleum Ointment: An Efficacious, Low-Risk, and Cost-Effective Approach*. Poster presentation at the 43rd Annual Eastern Great Lakes Regional Burn Conference. Columbus, Ohio. October 23, 2015. Poster presentation at the American Burn Association Annual Conference. Las Vegas, Nevada. May 5th, 2016.
5. **Kraenzlin F,** Mushin OP, Khouri J, Bell D. *Epidemiology of and Outcomes Following Auricular Burn Injuries*. Poster presentation at the American Burn Association 47th Annual Meeting. Chicago, IL. April 21, 2015.

OTHER WORK EXPERIENCE

Beth Israel Deaconess Medical Center

Clinical Research Assistant: Department of Emergency Medicine

Boston, MA

July 2011 – June 2012

- Responsible for patient enrollment, data collection, specimen collection and processing, as well as patient follow-up for twelve actively enrolling research studies. Lead study coordinator on three multi-site and two in-hospital research projects.

Thomson Reuters

Senior Associate: Corporate Advisory Services – Healthcare Group

New York, NY

June 2008 – May 2010

- Promoted to Senior Associate from Associate in March 2010.
- Provided market surveillance, research, and consulting services to Investor Relations Officers at client firms.
- Client deck included: Affymetrix, Alcon, Genoptix, Hanger, IMS Health, LifePoint, Mentor, Merck, Pantheon, ResMed, Schering-Plough, SXC Health Solutions, Thermo-Fisher, Teva Pharmaceuticals, and Watson.