

## Zachary Michael Borab

### Education

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The University of North Carolina at Chapel Hill Bachelor of Arts, Biology with Highest Honors, Chapel Hill, NC	07/2008-05/2011
Drexel University College of Medicine Doctor of Medicine, Philadelphia, PA	07/2012-05/2017
New York University, Hansjörg Wyss Department of Plastic and Reconstructive Surgery Research Fellowship, New York, NY	05/2016-06/2017
New York University, Hansjörg Wyss Department of Plastic and Reconstructive Surgery Residency, Plastic Surgery, New York , NY	07/2017-06/2023
Dallas Plastic Surgery Institute Aesthetic Surgery Fellowship, Dallas, TX	07/2023-Present

### Licensure

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USMLE Step 1- Pass	06/2014
USMLE Step II CS- Pass	04/2015
USMLE Step II CK – Pass	07/2015
USMLE Step III – Pass	02/2019
ABPS Written Boards- Pass	05/2023

### Appointments and Positions

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Research Fellow Hansjörg Wyss Department of Plastic Surgery Basic Science Laboratory, New York University Principal Investigator: Daniel J. Ceradini, MD	2016-2017
Research Fellow Penn Plastic Surgery Research Group, University of Pennsylvania Principal Investigator: John P. Fischer, MD, MPH	4/2016-6/2016
Research Fellow Department of Cell and Molecular Physiology, University of North Carolina at Chapel Hill Principal Investigators: Carol Otey, PhD, Hon Jin Kim, MD	2009-2011

### Honors and Awards

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<b>Best Overall Poster</b> New York Regional Society of Plastic Surgeons, Residents Symposium	03/2017
<b>Alpha Omega Alpha</b> Honor Society, Delta Zeta Chapter	09/2015
<b>Best Clinical Poster Award</b> New Jersey Society of Plastic Surgeons, 2015 Annual Meeting, New Brunswick, NJ	05/2015
<b>Tau Sigma</b> National Honor Society	01/2009

### Peer-Reviewed Publications

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1. Fisher SM, **Borab ZM**, Rohrich RJ. Isolated Fibrous Dysplasia of the Bilateral Nasal Bones: Complex Management of the Bony Vault. *Plast Reconstr Surg Glob Open*. 2024

2. **Borab ZM**, Fisher SM, Rohrich RJ. The Seven Step Neck Lift Z-Plasty. *Plast Reconstr Surg*. 2024
3. Fisher SM, **Borab ZM**, Weir D, Rohrich RJ. The emerging role of biostimulators as an adjunct in facial rejuvenation: A systematic review. *J Plast Reconstr Aesthet Surg*. 2024
4. **Borab ZM**, Fisher SM, Gimenez A, Raskin P, Valek T, Rohrich RJ. Emerging Role of Semaglutide and GLP-1 Agonist Medications in Plastic Surgery: A Note of Caution. *Plast Reconstr Surg*. 2024
5. Nasr HY, Boyd CJ, **Borab ZM**, Vranis NM, Cassidy MF, Gursky AK, Gober R, Zide BZ, Ceradini DC. Productivity and Efficiency of a Department Resident Aesthetic Plastic Surgery Clinic. *Aesthet Surg J Open Forum*. 2022; Dec 6(4).
6. Yu JW, Rifkin WJ, Lee Z, **Borab ZM**, Alfonso AR, Thanik VD, Levine JP. Does Laterality of Lower Extremity Donor Site Affect Outcomes in Microvascular Soft Tissue Lower Extremity Reconstruction. *J Reconstr Microsurg*. 2020; May 36(4):289-293
7. Diaz-Siso JR, **Borab ZM**, Plana NM, Parent B, Stranix JT, Rodriguez ED. Vascularized Composite Allotransplantation: Alternatives and Catch-22s. *Plast Reconstr Surg*. 2018;142(5):1320-1326
8. Kowzun MJ, Rifkin WJ, **Borab ZM**, Ellison T, Soaes MA, Lotfi P, Bandekar A, Sofou S, Ceradini DJ. Topical Inhibition of PUMA Signaling Mitigates Radiation Injury. *Wound Repair and Regen*. 2018;26(6):413-425
9. Conte MP, Superti F, Moio M, Ammendolia MG, Longhi C, Aleandri M, Marazzato M, Goldoni P, Parisi P, **Borab Z**, Palamara AT, Carlesimo B. Bacterial Biofilm Associated with a Case of Capsular Contracture. *New Microbiol*. 2018;41(3):238-241
10. Stranix, JT, **Borab ZM**, Rifkin WJ, Jacoby A, Lee ZH, Anzai L, Ceradini DJ, Thanik V, Saadeh PB, Levine JP. Proximal Versus Distal Recipient Vessels in Lower Extremity Reconstruction: A retrospective Series and Systematic Review. *J Reconsr Microsurg*. 2018;34(5):334-340
11. Adriani E, Moio M, Di Paola B, Salustri W, Alfieri A, Parisi P, Ruggiero M, **Borab Z**, Carlesimo B. Percutaneous Fat Transfer to Treat Knee Osteoarthritis: Preliminary Results. *Joints*. 2017;5(2):89-92
12. Rabbani PS, Zhou A, **Borab ZM**, Frezzo JA, Srivastava N, More HT, Rifkin WJ, David JA, Berens SJ, Chen R, Hameedi S, Junejo MH, Kim C, Sartor RA, Liu CF, Saadeh PB, Montclare JK, Ceradini DJ. Novel Lipoproteoplex Delivers Keap1 siRNA Based Gene Therapy to Accelerate Diabetic Wound Healing. *Biomaterials*. 2017;132:1-15
13. Mirmanesh M, **Borab ZM**, Gantz M, Maguina P. Peri-Procedure Laser Scar Therapy Protocol: A Survey of Plastic Surgeons' Practices. *Aesthetic Plast Surg*. 2017;41(3):689-694
14. Lo Torto F, Ruggiero M, Parisi P, **Borab ZM**, Sergi M, Carlesimo B. The Effectiveness of Negative Pressure Therapy on Infected Wound: Preliminary Results. *International Wound Journal*. 2017;14(6):909-914. DOI:10.1111/iwj.12725
15. **Borab ZM**, Lanni M, Tecce M, Pannucci C, Fischer J. Use of clinical decision support systems to prevent venous thromboembolism in surgical patients: A meta-analysis. *JAMA Surgery*. 2017;152(7):683-645
16. **Borab ZM**, Mirmanesh M, Gantz M, Cusano A, Pu L. Systematic Review of Hyperbaric Oxygen Therapy for the Treatment of Radiation-Induced Skin Necrosis. *J Plast Reconstr Aesthet Surg*. 2017;70(4):529-538. DOI: 10.1016/j.bjps.2016.11.024
17. **Borab ZM**, Shakir S, Lanni M, Tecce M, MacDonald J, Hope W, Fischer J. Does Prophylactic Mesh Placement in Elective Midline Laparotomy Reduce the Incidence of Incisional Hernia? A Systematic Review and Meta-analysis. *SURGERY*. 2017;161(4):1149-1163. DOI: 10.1016/j.surg.2016.09.036
18. **Borab ZM**, Godek C. Tissue Liquefaction Liposuction for Body Contouring and Autologous Fat Transfer. Retrospective Review Over Three Years. *ePlasty*. 2016;16: e36
19. Mirmanesh M, Mazzaferro D, **Borab ZM**, Pu L. Posterior, Extended, Pedicled Latissimus Dorsi Flap for the Reconstruction of a Large Complicated Lower Back Wound. *ePlasty*. 2016;16: ic32
20. **Borab ZM**, Gantz M, Mirmanesh M, Lin H. Hair Braiding-Induced Scalp Necrosis: A Case Report. *ePlasty*. 2016;16:ic14

21. Greenwald L, Shaikh M, **Borab ZM**, Lind D, et al. A 5 Year Review of Feedback From the Philadelphia Area Mock ABS Certifying Examination. *Journal of Surgical Education*. 2014; 71(6): e11-e17.

## Oral Presentations

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### National

1. **Borab ZM**, Payton J, Rohrich R, Fisher SM, Rohrich RJ. Dead Space- The final frontier in rhinoplasty: review and 10 key recommendations. The Aesthetic Meeting 2024. Vancouver, Canada
2. **Borab ZM**, Payton J, Rohrich R, Fisher SM, Rohrich RJ. Dead Space- The final frontier in rhinoplasty: review and 10 key recommendations. The Rhinoplasty Symposium 2024. Vancouver, Canada
3. Nasr HY, Boyd CJ, **Borab ZM**, Vranis NM, Cassidy MF, Gursky AK, Gober R, Zide BZ, Ceradini DC. Productivity and Efficiency of a Department Resident Aesthetic Plastic Surgery Clinic. The Aesthetic Meeting 2023, Miami, FL
4. **Rifkin WJ**, Stranix JT, Borab ZM, Jacoby A, Lee Z, Anzai L, Ceradini DJ, Thanik V, Saadeh PB, Levine JP. Proximal Versus Distal Recipient Vessels in Lower Extremity Microvascular Reconstruction: A 37-Year Retrospective Series. 97th Annual Meeting of the American Association of Plastic Surgeons; 2018 Apr 7-10; Seattle, WA
5. **Borab Z**, Rifkin W, David J, Zhou A, Frezzo J, Hameedi S, Montclare J, Rabbani P, Ceradini D. Nanoparticle delivery of Keap1 siRNA accelerates diabetic wound healing. Plastic Surgery Research Council. Durham, NC. May 2017
6. **David J**, Rifkin W, Borab Z, Hameedi S, Rabbani P, Ceradini D. Keap1/Nrf2 dysfunction impairs wound healing in diabetics. Plastic Surgery Research Council. Durham, NC. May 2017
7. Borab Z, Shakir S, Lanni M, Tecce M, MacDonald J, Hope W, Weissler JM, **Carney MJ**, Fischer J. The role of Prophylactic Mesh Augmentation in Preventing Incisional Hernia: A Systematic Review and Meta-Analysis. American Hernia Society. Cancun, Mexico. March 2017
8. Borab Z, Shakir S, Lanni M, Tecce M, MacDonald J, Hope W, Weissler JM, **Carney MJ**, Fischer J. Incisional Hernia Risk after Prophylactic Mesh Augmentation: A systematic Review and Meta-Analysis. Academic Surgical Congress. Las Vegas, NV, February 2017
9. **Mirmanesh M**, Borab Z, Boudreault D, Longo C. Limited Incision Mastopexy with Dermal Suspension Technique. The Aesthetic Meeting 2015- American Society for Aesthetic Plastic Surgery; Montreal, QC. May 2015
10. **Mirmanesh M**, Borab Z, Maguina P. Peri-Operative Laser Scar Therapy Protocol: A National Survey. The Annual Meeting 2015- American Society for Plastic Surgeons; Boston, MA. October 2015

### Regional

11. **Borab Z**, Lanni M, Tecce M, Fischer J. Systematic Review of the Utilization of Clinical Decision Support Systems in Surgery. Northeastern Society of Plastic Surgeons Meeting. Baltimore, MD. October 2016
12. Borab Z, Shakir S, Lanni M, Tecce M, **Fischer J**. Does Prophylactic Mesh Placement in Elective, Midline Laparotomy Reduce the Incidence of Incisional Hernia? Northeastern Society of Plastic Surgeons Meeting. Baltimore, MD. October 2016

### Local

13. **Mirmanesh M**, Borab Z, Maguina P. Peri-Operative Laser Scar Therapy Protocol: A National Survey. University of California at Davis Department of Plastic Surgery 26<sup>th</sup> Annual Research Symposium. Sacramento, CA. September 2015
14. **Mirmanesh M**, Borab Z, Boudreault D, Longo C. Limited Incision Mastopexy with Dermal Suspension Technique. Greater Sacramento Society of Plastic Surgeons Meeting. Sacramento, CA. June 2015
15. **Borab Z**, Otey C. Characterization of Biomolecules Involved in the Cellular Plasticity of Pancreatic Cancer. Spring Undergraduate Research Symposium. Chapel Hill, NC. April 2011

## Poster Presentations

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1. Borab Z, **Rifkin W**, **David J**, Zhou A, Frezzo J, Hameedi S, Montclare JK, Rabbani P, Ceradini D. Nanoparticle Delivery of Keap1 siRNA Accelerates Diabetic Wound Healing. The New York Regional Society of Plastic Surgeons Residents' Night. New York, NY. March 2017, **Winner, Best Poster Award**
2. **Godek C**, Godek M, Borab Z. Autologous Fat Transfer Utilizing Tissue Liquefaction Technology: Safety, Efficacy, and Long-term Results. International Federation of Adipose Therapeutics and Science Meeting, San Diego, CA. November 2016
3. **Borab Z**, Godek C. Liposuction and Autologous Fat Transfer Using Tissue Liquefaction Technology. New Jersey Society of Plastic Surgeons Spring Meeting, New Brunswick, NJ. May 2015. **Winner, Best Clinical Poster Award**