

# OREN PAUL MUSHIN, MD

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## EDUCATION

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**University of Rochester Medical Center** Department of Surgery June 2017  
Division of Plastic Surgery  
*Resident, Plastic Surgery Coordinated Program*



**Duke University School of Medicine** Medical Doctorate May 2011



**The University of Texas at Austin** *Bachelor of Business Administration,* May 2007  
*Business Honors Program, Finance*  
**Summa Cum Laude**  
  
*Bachelor of Arts, Plan II Honors Program*  
Minor: Biology

## ACADEMIC AWARDS

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- Senior Resident Research Award - University of Rochester '17
- Highest Score on Resident In-service - University of Rochester '17
- Highest Score on Resident In-service - University of Rochester '16
- Best Poster in Category – American Burn Association Annual Meeting '15
- Department of Surgery Professionalism Award – University of Rochester '12
- Top 10 Medical Student Research Project – 6<sup>th</sup> Annual Academic Surgical Congress '11
- Medical Student Research Award – Duke University '11
- AOA Award for excellent Medical Student Research Project – Duke '09
- Summa cum laude – University of Texas '07
- Phi Beta Kappa – University of Texas '07
- Undergraduate Research Fellowship – University of Pennsylvania '07
- Summer Undergraduate Research Fellowship – Mayo Clinic '05
- Liberty Mutual Undergraduate Scholarship '04-'06
- Phi Beta Kappa Undergraduate Scholarship '03

## RESEARCH FELLOWSHIPS & EXPERIENCES

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**Baylor College of Medicine** May '09-June '10



**University of Pennsylvania** June '06-July '06



**University of California Los Angeles** July '06-Aug '06



**University of Texas** July '05-Aug '05



**Mayo Clinic** June '04-Aug '04

## **JOURNAL ARTICLES**

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- Mushin OP, Kraenzlin FS, Fazili A, Ghazi A, Bossert RP. The Impact of Body Contouring Procedures on Urologic Outcomes in Massive Weight Loss Patients. *Plast Reconstr Surg*. 2017 May;139(5):1086e-1092e.
- Mushin OP, Myers PL, Langstein HN. Indications and controversies for complete and implant-enhanced latissimus dorsi breast reconstructions. Invited article in upcoming issue of *Clinics in Plastic Surgery*.
- Mushin OP, Bogue JT, Esquenazi MD, Toscano N, Bell DE. Use of a home vacuum-assisted closure device in the burn population is both cost-effective and efficacious. *Burns*. 2017 May;43(3):490-494.
- Mushin OP, Bogue JT, Pencek ME, Bell DE. Jewelry Ring-Associated Electrothermal Burn Injuries: A Nine-Patient Case Series. *J Burn Care Res*. 2017 Jan 13.
- Kraenzlin FS, Mushin OP, Ayazi S, Bell DE. Epidemiology and Outcomes of Auricular Burn Injuries. *J Burn Care Res*. 2017 May 23.
- Mushin OP, Esquenazi BA, Craig C, Bell DE. Self-Inflicted Burn Injuries: Etiologies and Outcomes. Accepted to *J Burn Care Res*. Publication pending.
- Mushin OP, Al-Nowaylati, AR, Christiano JG. Bipedicled Medial Sural Adipofascial Flap for Coverage of Pretibial Wounds in the Middle Third of the Leg. Submitted to *Eplasty*.
- Mushin OP, Haas JA, Hansen T, Puneekar IR, Kushner M, Bell DE. Thin and Ultra-Thin Split-Thickness Skin Grafts in the Burn Population. Submitted to *Plast Reconstr Surg*.
- Naylor MC, Lazar DA, Zamora IJ, Mushin OP, Yu L, Brissett AE, Olutoye OO. Increased in vitro differentiation of fibrocytes from keloid patients is inhibited by serum amyloid P. *Wound Repair Regen*. 2012 May-Jun;20(3):277-83.
- Gay AN, Mushin OP, Lazar DA, Naik-Mathuria BJ, Yu L, Gobin A, Smith CW, Olutoye OO. Wound healing characteristics of ICAM-1 null mice devoid of all isoforms of ICAM-1. *J Surg Res*. 2011 Nov;171(1):e1-7.
- Rodriguez MA, Cass DL, Lazar DA, Cassady CI, Moise KJ, Johnson A, Mushin OP, Hassan SF, Belleza-Bascon B, Olutoye OO. Tumor volume to fetal weight ratio as an early prognostic classification for fetal sacrococcygeal teratoma. *J Pediatr Surg*. 2011 Jun;46(6):1182-5.
- Gay AN, Lazar DA, Stoll B, Naik-Mathuria B, Mushin OP, Rodriguez MA, Burrin DG, Olutoye OO. Near-infrared spectroscopy measurement of abdominal tissue oxygenation is a useful indicator of intestinal blood flow and necrotizing enterocolitis in premature piglets. *J Pediatr Surg*. 2011 Jun;46(6):1034-40.
- Stavrou D, Weissman O, Winkler E, Millet E, Nardini G, Tessone A, Zmora N, Mushin OP, Haik J. Managing the relationship between quality and cost-effective burn care. *Burns*. 2011 May;37(3):367-76.
- Stavrou D, Weissman O, Winkler E, Yankelson L, Millet E, Mushin OP, Liran A, Haik J. Silicone-based scar therapy: a review of the literature. *Aesthetic Plast Surg*. 2010 Oct;34(5):646-51.
- Chade AR, Zhu X, Mushin OP, Napoli C, Lerman A, Lerman LO. Simvastatin promotes angiogenesis and prevents microvascular remodeling in chronic renal ischemia. *FASEB J*. 2006 Aug;20(10):1706-8.
- Chade AR, Mushin OP, Zhu X, Rodriguez-Porcel M, Grande JP, Textor SC, Lerman A, Lerman LO. Pathways of renal fibrosis and modulation of matrix turnover in experimental hypercholesterolemia. *Hypertension*. 2005 Oct;46(4):772-9.

## **ORAL PRESENTATIONS**

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- Mushin OP, Kraenzlin FS, Bossert RP. Impact of Body Contouring Procedures on Urologic Outcomes in Massive Weight Loss Patients. (October 2016). Oral presentation at the 33<sup>rd</sup> Annual Northeastern Society for Plastic Surgery. Baltimore, MD.

Punekar I, Patel A, Mushin O, Petrova M, Bell DE. Burn Injuries in the Elderly: An Opportunity for Technology-Based Active Prevention. (March 2017). Presented at the 49th annual American Burn Association Meeting. Boston, MA.

Mushin OP, Esquenazi ME; Bell DE. Self-Inflicted Burn Injuries: The Clinical Implications of Psychiatric Illness. (August 2016). Oral presentation at the 2016 International Society for Burn Injuries. Miami, FL.

Punekar I, Patel A, Mushin O, Petrova M, Bell DE. Burn Injuries in the Elderly: An Opportunity for Technology-Based Active Prevention. (February 2017). Oral presentation at the 39<sup>th</sup> Annual John A. Boswick Symposium. Maui, HI.

Mushin OP, Khouri JK, Christiano JG. Bipedicled Medial Sural Adipofascial Flap for Coverage of Pretibial Wounds in the Middle Third of the Leg. (September 2015) Oral presentation at 32<sup>nd</sup> Annual Northeastern Society of Plastic Surgery Meeting. Philadelphia, PA

Khouri JK, Mushin OP, Christiano JG. Pedicled Rectus Abdominus as Flow-Through-Conduit for No-Man-Land Defects of the Lower Middle Back. (September 2015) Oral presentation at 32<sup>nd</sup> Annual Northeastern Society of Plastic Surgery Meeting. Philadelphia, PA

Mushin OP, Bogue, JT, Khouri JK, Humphrey DE, Bell DE. Impact of the Vacuum Assisted Closure Device on Ambulatory End-Points in Lower Extremity Burns. (February '13). Oral presentation at 36<sup>th</sup> Annual John A. Boswick, MD Burn and Wound Care Symposium. Maui, Hawaii.

Mushin OP, Bogue, JT, Khouri JK, Bell DE. Frostbite in the Urban Setting: Etiologies and Outcomes. (February '13). Oral presentation at 36<sup>th</sup> Annual John A. Boswick, MD Burn and Wound Care Symposium. Maui, Hawaii.

Mushin OP, Bogue JT, Toscano, NC, Khouri JK, Bell DE. Use of a Home Vacuum-Assisted Closure Device in the Burn Population is both Cost-Effective and Efficacious. (April 2013). Oral presentation at 45<sup>th</sup> Annual American Burn Association Meeting. Palm Springs, CA

Mushin OP, Bogue, JT, Khouri JK, Humphrey DE, Bell DE. Impact of the Vacuum Assisted Closure Device on Ambulatory End-Points in Lower Extremity Burns. (October 2013). Oral presentation at 41<sup>st</sup> Annual Eastern Great Lakes Burn Conference. Dayton, OH.

Bogue, JT, Mushin OP Bell DE. Ring Associated Burn Injuries: Small but Potentially Morbid. (October '13). Oral presentation at 41<sup>st</sup> Annual Eastern Great Lakes Burn Conference. Dayton, OH.

Richards BG, Khouri JS, Mushin OP, Bigler NJ, Christiano JG. Pedicled Rectus Abdominus as Flow-Through Conduit for Free Flap Reconstruction of No-Man's Land Defects of the Lower Middle Back. (July 2013). Poster presentation at 6<sup>th</sup> Annual World Society for Reconstructive Microsurgery Meeting. Chicago, IL.

Khouri JK, Mushin OP, Christiano JG. Pedicled Rectus Abdominus as Flow-Through-Conduit for No-Man-Land Defects of the Lower Middle Back. (December 2012) Oral presentation at 32<sup>nd</sup> American Association of Plastic Surgery Senior Resident Conference. Chicago, IL.

Gay AN, Mushin OP, Lazar DA, Naik-Mathuria BJ, Yu L, Gobin A, Smith CW, Olutoye OO. Healing characteristics of ICAM-1 null mice devoid of both membrane-bound and soluble ICAM-1. (February 2011). Oral presentation at 2011 Academic Surgical Congress of the Association for Academic Surgery. Huntington Beach, CA.

Blanton WM, Mushin OP, Shortell CK, Hollenbeck ST, Erdmann D. Management of Exposed Vascular Grafts with Muscle Flaps: Indications and Outcomes. (October 2010). Oral presentation at the North Carolina Society of Plastic Surgeons. White Sulphur Springs, WV.

Rodriguez MA, Cass DL, Lazar DA, Cassady CI, Moise KJ, Johnson A, Mushin OP, Hassan SF, Belleza-Bascon B, Olutoye OO. Tumor to fetal weight ratio as an early prognostic classification for fetal sacrococcygeal teratoma. (October 2010) Oral presentation at the Annual American Academy of Pediatrics Meeting. San Francisco, CA.

Gay AN, Lazar DA, Stoll B, Naik-Mathuria B, Mushin OP, Rodriguez MA, Burrin DG, Olutoye OO. Near-infrared spectroscopy monitoring provides early diagnosis of necrotizing enterocolitis. (October 2010). Oral presentation at Annual Academy of Pediatrics National Conference and Exhibition. San Francisco, CA.

Mushin OP, Lazar DA, Rodriguez M, Olutoye OO. Effects of Serum Amyloid P on Hypertrophic Scarring in the Rabbit Ear Model. (August 2010). Oral presentation at 41<sup>st</sup> Annual Duke University Alpha Omega Alpha Day. Durham, NC.

Naylor MC, Lazar DA, Zamora IJ, Mushin OP, Yu L, Brissett AE, Olutoye OO. Increased in vitro differentiation of fibrocytes in keloid patients is inhibited by serum amyloid P in vitro. (April 2010). Oral presentation at the Annual Wound Healing Society Meeting. Orlando, FL.

## **POSTER PRESENTATIONS**

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Mushin OP, Hansen T, Haas JA, Punekar IR, Kushner M, Bell DE. Thin and Ultra-thin Split-Thickness Skin Grafts in the Treatment of Hand Burns. (April 2017). University of Rochester Surgical Resident Research Symposium. Rochester, NY.

Mushin OP, Haas JA, Hansen T, Punekar IR, Kushner M, Bell DE. Thin and Ultra-Thin Split-Thickness Skin Grafts are Safe and Efficacious in the Burn Population. (April 2017). University of Rochester Surgical Resident Research Symposium. Rochester, NY.

Mushin OP, Hansen T, Haas JA, Punekar IR, Kushner M, Bell DE. Thin and Ultra-thin Split-Thickness Skin Grafts in the Treatment of Hand Burns. (March 2017). Poster presentation at the 49<sup>th</sup> annual American Burn Association Meeting. Boston, MA.

Mushin OP, Haas JA, Hansen T, Punekar IR, Kushner M, Bell DE. Thin and Ultra-Thin Split-Thickness Skin Grafts are Safe and Efficacious in the Burn Population. (March 2017). Poster presentation at the 49<sup>th</sup> annual American Burn Association Meeting. Boston, MA.

Mushin OP, Bogue, JT, Khouri JK, Bell DE. Frostbite in the Urban Setting: Etiologies and Outcomes. (April '15). Poster presentation at 47<sup>th</sup> Annual American Burn Association Meeting. Chicago, IL.

Kraenzlin FS, Mushin OP, Khouri JS, Bell DE. Epidemiology and Outcomes Following Auricular Burn Injuries. (April '15). Poster presentation at 47<sup>th</sup> Annual American Burn Association Meeting. Chicago, IL.

Esquenazi MD, Mushin OP, Toscano NC, Bell DE. Breaking Burn: Characterizing Burn Injuries Resulting from Methamphetamine Production. (April '15). Poster presentation at 47<sup>th</sup> Annual American Burn Association Meeting. Chicago, IL

Bogue, JT, Mushin OP Bell DE. Ring Associated Burn Injuries: Small but Potentially Severe a Nine Patient Case Series. (April '15). Poster presentation at 47<sup>th</sup> Annual American Burn Association Meeting. Chicago, IL.

Mushin OP, Bogue, JT, Khouri JK, Humphrey DE, Bell DE. Impact of the Vacuum Assisted Closure Device on Ambulatory End-Points in Lower Extremity Burns. (March '14). Poster presentation at 46<sup>th</sup> Annual American Burn Association Meeting. Boston, MA.

Khouri JK, Iannuzzi JC, Mushin OP, Bell DE Comparison of Cement and Traditional Thermal Injuries: Presentation, Therapy, and Outcomes. (March '14). Poster presentation at 46<sup>th</sup> Annual American Burn Association Meeting. Boston, MA.

Mushin OP, Bogue JT, Toscano, NC, Khouri JK, Bell DE. Use of a Home Vacuum-Assisted Closure Device in the Burn Population is both Cost-Effective and Efficacious. (August 2013). Poster presentation at 15<sup>th</sup> Annual European Burn Association Meeting. Vienna, Austria.

Khouri JK, Mushin OP, Bell DE Comparison of Cement and Traditional Thermal Injuries: Presentation, Therapy, and Outcomes. (August 2013). Poster presentation at 15<sup>th</sup> Annual European Burn Association Meeting. Vienna, Austria.

Mushin OP, Lazar DA, Rodriguez M, Olutoye OO. Effects of Serum Amyloid P on Hypertrophic Scarring in the Rabbit Ear Model. (October 2010). Poster presentation at 96<sup>th</sup> Annual Clinical Congress of the American College of Surgeons. Washington, DC.

Mushin, OP, Yamamoto T, Yan PB, Swann AC, Dafny N. Behavioral and neurophysiological effects of cocaine in the AMY, CN, and PFC. (October 2006). Poster presentation at the 36<sup>th</sup> Annual Society for Neuroscience Conference. Atlanta, GA.

Yamamoto T, Mushin, OP, Yan PB, Swann AC, Dafny N. Neurophysiological and behavioral effects of cocaine in the VTa, NAC, and PFC. (October 2006). Poster presentation at the 36<sup>th</sup> Annual Society for Neuroscience Conference. Atlanta, GA.