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**CURRICULUM VITAE**

**BRUCE MICHAEL FREEDMAN, M.D.**

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**EDUCATION AND TRAINING:**

<u>Undergraduate:</u>	1975-1979	Duke University, B.A.
<u>Graduate:</u>	1979-1982	Duke University, M.D.
<u>Postgraduate:</u>	11/82- 5/83	Surgical Research Fellow Department of Surgery Duke University Medical Center
	7/83- 6/84	General Surgery Internship Barnes Hospital Washington University School of Medicine
	7/84- 6/85	Senior Assistant Resident Barnes Hospital Department of Surgery Washington University School of Medicine
	7/85-6/86	Junior Assistant Resident Barnes Hospital

Department of Surgery  
Washington University  
School of Medicine

7/86-7/88 Plastic Surgery Fellowship  
Department of Surgery  
St. Louis University  
School of Medicine

7/88-12/88 Fellowship in Hand Surgery  
Surgery Ltd., Tucson, Arizona  
University of New Mexico  
School of Medicine  
Department of Orthopaedics  
Albuquerque, New Mexico

1/89-6/89 Fellowship in Aesthetic Plastic Surgery  
Manhattan Eye and Ear Institute  
New York University

**MEDICAL LICENSURE:** Virginia #043977

**CERTIFICATIONS AND ACADEMIC AWARDS:**

1975 National Merit Scholar  
1976 Phi Eta Sigma National Freshman Honor Society 1978  
1978 Phi Beta Kappa  
1978 Phi Lambda Upsilon National Chemistry Honor Society  
1978 Kappa Sigma Leadership and Scholarship Award  
1978 Howard Hughes Institute Summer Research Fellow  
1979 Graduated Duke University Summa Cum Laude in Chemistry with Biological  
Specialization  
1981 Alpha Omega Alpha  
1982 International College of Surgeons Undergraduate Scholarship  
1988 Residents Research Award St. Louis Society of Plastic Surgeons  
1991 Diplomate of the American Board of Plastic Surgery  
1992 Certificate of Added Qualification in Hand Surgery  
1993 Fellow of the American College of Surgeons  
1997 Certification in Laser Surgery

**TEACHING EXPERIENCE:**

1978 Assistant Teaching Instructor in Biochemistry at Duke  
University  
1979 Laboratory Instructor in General Chemistry at Duke University

1982	Assistant Instructor in Physical Diagnosis at Duke University
1983-85	Assistant in Surgery at Washington University School of Medicine
1989-96	Clinical Associate at Georgetown University School of Medicine
1997-Present	Clinical Assistant Professor of Surgery at Georgetown University School of Medicine

### **SOCIETIES & RELATED ACTIVITIES:**

1. American College of Surgeons
2. Thomas D. Rees Aesthetic Plastic Surgery Society
3. Campaign for Duke University, Regional Coordinator
4. Invited Reviewer, Aesthetic Surgery Journal
5. XM Satellite Radio Ch 233 "Education for Healthcare Professionals", Program Speaker

### **HOSPITAL AFFILIATIONS:**

1. INOVA Fairfax Hospital Fairfax, Virginia
2. Reston Hospital Center Reston, Virginia

### **ABSTRACTS:**

1. Freedman BM: "Right Ventricular Function: A Description of Inotropy". Presented at 5th Annual Meeting, Society of Cardiovascular Anesthesiologists, San Diego, May 1983.
2. Freedman BM, Hamm DP, Pellom GL, Everson CT, Knox J and Wechsler AS: "Fentanyl-Halothane Anesthesia Maintains Myocardial Contractility". Anesthesiology A 37:1983. Presented at the Annual Meeting, American Society of Anesthesiologists, Atlanta, October 1983.
3. Freedman BM, Christian CM, Godwin CK, Hamm DP, Everson CT and Wechsler AS: "Enflurane Enhances Post-Ischemic Recovery", Anesthesiology A 22: 1983. Presented at The Annual Meeting, American Society of Anesthesiologists, Atlanta, October 1983.
4. Freedman BM, Christian CM, Hamm DP, Everson CT, and Wechsler AS: "Isoflurane and Myocardial Protection", Anesthesiology A 25: 1983 Presented at The Annual Meeting, American Society of Anesthesiologists, Atlanta, October 1983.
5. Hamm DP, Freedman BM, Pellom GL, Everson CT, Knox J and Wechsler AS: "The Effect of Fentanyl on Left Ventricular Function", Anesthesiology A #37: 1983. Presented at The Annual Meeting, American Society of Anesthesiologists, Atlanta, October 1983.
6. Hamm DP, Freedman BM, Pellom GL, Everson CT, Knox J, and Wechsler AS: "The Maintenance of Myocardial Contractility by Fentanyl During Enflurane Administration", Anesthesiology A 86: 1983. Presented at The Annual Meeting, American Society of Anesthesiologists, Atlanta, October 1983.

7. de Brujn N, Christian CM, Fagraeus L, Freedman BM, Davis GF, Hamm DP, Everson CT, Pellom GL, Wechsler AS: "The Effects of Alfentanil on Global Ventricular Mechanics", Anesthesiology A 33: 1983. Presented at The Annual Meeting, American Society of Anesthesiologists, Atlanta, October 1983.
8. Freedman BM: "The Role of Microdermabrasion in Treating Undesirable Skin Conditions", Presented at the International Master Course on Ageing Skin, Paris, January 2000.
9. Freedman BM, Earley RV: "Comparing Treatment Outcomes Between Physician and Nurse Treated Patients In Laser Hair Removal", Presented at 20th Annual Meeting American Society for Laser Medicine and Surgery, Reno, March 2000.
10. Freedman BM, Earley RV: "Improved Results with Laser Hair Removal Using a Structured Treatment Protocol", Presented at 20th Annual Meeting, American Society for Laser Medicine and Surgery, Reno, March 2000.
11. Freedman BM, Earley RV: "Becaplermin Promotes Sufficient Granulations Tissue for Autografting of Degloving Injury", Presented at 32nd Annual Wound, Ostomy and Continence Conference, Toronto, May 2000.
12. Freedman BM: "Becaplermin Facilitates Soft Tissue Closure in Fingertip Injuries", Presented at the 4th Annual Wound Care Congress for Rehabilitation Professionals, Myrtle Beach, October 2000.
13. Freedman BM: "Becaplermin Treatment: A Novel Approach to the Treatment of High-pressure Paint Injection Injuries to the Hand", Presented at the Clinical Congress of the American College of Surgeons, Chicago, October 2000.
14. Freedman BM: "Incorporating Growth Factors in the Treatment of Complex Upper Extremity Wounds", Presented at the American Society of Hospital Pharmacists Annual Meeting, Las Vegas, December 2001.
15. Freedman BM: "Clinical Concepts in Microdermabrasion", Presented at the International Master Course on Ageing Skin, Paris, January 2001.
16. Freedman BM, Rueda-Pedraza E, Waddell S: "The Epidermal and Dermal Changes Associated with Microdermabrasion", Presented at the 59th Annual Meeting of the American Academy of Dermatology, Washington, DC, March 2001.
17. Freedman BM, Earley RV: "The Use of Becaplermin in the Treatment of Progressive Limb Threatening Pyoderma Gangrenosum", Presented at the 59th Annual Meeting of the American Academy of Dermatology, Washington, DC, March 2001.
18. Freedman BM: "Combining Facial Laser with a Necklift Facilitates Facial Rejuvenation", Presented at the 21st Annual Meeting of the American Society for Laser Medicine and Surgery, Reno, New Orleans March 2001.
19. Freedman BM, Earley RV: "Examining The Safety and Efficacy of Laser Epilation by a Trained, Experienced Nurse", Presented at the 21st Annual Meeting of the American Society for Laser Medicine and Surgery, New Orleans, March 2001.
20. Freedman BM: "Surgical Treatment of Recalcitrant Wounds: Adding to the Reconstructive Ladder", Presented at the 14th Annual Symposium on Advanced Wound Care, Baltimore, May 2001.
21. Freedman BM, Ehrlich HP: "Topical Platelet Derived Growth Factor Enhances Wound Closure in the Absence of Wound Contraction in Patients", Presented at the 11th Annual Educational Symposium for The Wound Healing Society, Albuquerque, May 2001.
22. Freedman BM, Earley RV: "The Use of Becaplermin as a Surgical Alternative in Difficult to Manage Soft Tissue Defects", Presented at the 11th Annual Educational Symposium for The Wound Healing Society, Albuquerque, May 2001.
23. Saba AA, Freedman BM, Ehrlich HP: "Topical Platelet Derived Growth Factor Enhances Wound Closure in the Absence of Wound Contraction; An Experimental and Clinical Study", Presented at the 18th Annual Meeting of the Northeastern Society of Plastic Surgeons, Boston, March 2002.

24. Freedman BM, Earley RV, Balakrishnan TP: "Dual Mode Pulsed Erbium Laserabrasion Decreases Ultraviolet Induced Photodamage", Presented at the Annual Meeting of The American Society for Aesthetic Plastic Surgery, Las Vegas April 2002.
25. Freedman BM, Rueda-Pedraza E: "Clinical and Histologic Changes Determine Optimal Treatment Regimens for Microdermabrasion", Presented at the Annual Meeting of The American Society for Aesthetic Plastic Surgery, Las Vegas, April 2002.
26. Freedman BM, Earley RV, Balakrishnan TP: "Quantitating Ultraviolet Induced Photodamage with the UV Reflectance Mode", Presented at the 4th World Congress of Dermatology, Paris, July, 2002.
27. Freedman BM, Rueda-Pedraza E: "Determining Optimal Treatment Regimens for Microdermabrasion", Presented at 4th World Congress of Dermatology, Paris, July 2002.
28. Freedman BM, Earley RV, Balakrishnan T: "Use of a Teaching Module to Improve Patient Satisfaction in Facial Rejuvenation", Presented at the 24th Annual Meeting of the American Society for Laser Medicine and Surgery, Dallas, April 2004.
29. Freedman BM, Earley RV, Balakrishnan T: "The Effects of Sequential Non-Ablative and Ablative Laser Treatment in Facial Rejuvenation", Presented at the 24th Annual Meeting of the American Society for Laser Medicine and Surgery, Dallas, April 2004.
30. Freedman BM: "A Comparison of Fingertip Injuries Treated with Topical Becaplermin or Surgical Reconstruction", Presented at 2nd Congress of the World Union of Wound Healing Societies, Paris, July 2004.
31. Baum AL, Freedman BM, O'Hara EL: "The Physician Patient Relationship in Cosmetic Surgery: A Patient Perspective", Presented at the American Psychiatric Association Meeting, Toronto, May 2006.
32. Parver DL, Freedman BM, Collea L: "Ocular Findings After Laser Hair Removal to the Eyebrows", Presented at the Association of Research in Vision in Ophthalmology, Ft. Lauderdale, May 2006.
33. Freedman BM, O'Hara EL, Linton DL, Schatteles MA: "Cosmetic Surgery and the Use of Antidepressant Medication", Presented at the American Society of Plastic Surgeons Meeting, San Francisco, October 2006.
34. Parver DL, Freedman BM, Collea L, J Griffiths: "Ocular Complications Following Bilateral Eyebrow Laser Photothermolysis", Presented at the American Society of Plastic Surgeons Meeting, San Francisco, October 2006.
35. Freedman BM: "Pregabalin Has Opioid Sparing Effects Following Augmentation Mammoplasty", Presented at the American Society of Aesthetic Plastic Surgery New York, April 2007.
36. Freedman BM: "Topical Antioxidant Application Enhances the Effects of Facial Microdermabrasion", Presented at IMCAS Annual Meeting, Paris, January 2008.
37. Freedman BM: "Hydradermabrasion: An Innovative Modality for Non-Ablative Facial Rejuvenation", Presented at IMCAS Annual Meeting, Paris, January 2008.
38. Freedman BM: "Hydradermabrasion: An Innovative Modality for Non-Ablative Facial Rejuvenation", Presented at American Academy of Dermatology Annual Meeting, San Francisco, March 2009.
39. Freedman BM: "Topical Antioxidants Application Reverses the Effects of Photoaging" Presented at American Academy of Dermatology Annual Meeting, San Francisco, March 2009
40. Freedman BM : "Topical Polyphenolic Antioxidant Application Reduces Adverse Effects of Intense Pulsed Light Therapy". Presented at Annual Meeting of the American Society for Laser Medicine and Surgery, Washington DC April, 2009
41. Freedman BM: "Topical Polyphenolic Antioxidants Enhance the Effects of Intense Pulsed Light Therapy". Presented at Annual Meeting of the American Society for Laser Medicine and Surgery, Washington DC April, 2009

## PUBLICATIONS:

1. Freedman BM, Pasque MK, Pellom GL, Deaton DW, Frame JR, Neglen P, Davis GF, Currie WD, Fagreaus L, Christian C, Wechsler AS: "The Effects of Delay in Cardioplegic Administration in the Isolated Rat Heart", **Surgical Forum** 33: 276-278, 1982
2. Deaton DW, Pasque MK, Pellom GL, Freedman BM, Frame JR, Neglen P, Davis GF, Fagreaus L, Christian C, Wechsler AS: "Comparative Effects of Calcium Antagonists on Ischemic Contracture", **Surgical Forum** 33: 297-300, 1982
3. Pasque MK, Pellom GL, VanTrigt P, Spray TL, Frame JR, Freedman BM, Deaton DW, Neglen P, Davis GF, Fagreaus L, Christian C, Wechsler AS: "Ribose Selectively Enhances Systolic but not Diastolic Recovery Following Ischemia", **Surgical Forum** 33: 312-314, 1982
4. Freedman BM, Pasque MK, Pellom GL, Hamm DP, Everson CT, Wechsler AS: "The End-Systolic Pressure Segmental Length Relationship as an Index of Contractility in the Canine Right Ventricle", **Surgical Forum** 34: 274-273, 1983
5. Everson CT, Knox J, Hamm DP, Freedman BM, Pellom, GL, Wechsler AS: "Validation of Septal-Free Wall and Segmental Length Relationships as Indicators of Right Ventricular Function", **Surgical Forum** 34: 272-273, 1983
6. Freedman BM, Pasque MK, Pellom GL, Deaton DW, Frame JR, Wechsler AS: "Effects of Delay in Administration of Potassium Cardioplegia to the Isolated Rat Heart.", **Annals of Thoracic Surgery** 37: 309313, 1984
7. Hamm DP, Everson CT, Freedman BM, Pellom GL, Morris JJ, Godwin CK, Wechsler AS: "The Potassium Dependence of Nifedipine Cardioplegia", **Heart Transplantation** 3: 312-318, 1984
8. Hamm DP, Everson CT, Freedman BM, Pellom GL, Christian CM, Wechsler AS: "The Passive Right Ventricular Volume Dimension Relationship in the Isolated Canine Heart", **Surgical Forum** 35: 266-268, 1984
9. Deaton DW, Pasque MK, Pellom GL, Freedman BM, Currie WD, Wechsler AS: "Verapamil, Nifedipine, and Diltiazem: Comparative Effects on Ischemic Contracture", **Surgical Forum** 35: 303-305, 1984
10. Freedman BM, Hamm DP, Everson CT, Wechsler AS, Christian CM: "Enflurane Enhances Post-Ischemic Functional Recovery in the Isolated Rat Heart", **Anesthesiology** 62: 29-33, 1985
11. Monafu WW, Freedman BM: "Topical Therapy", **Surgical Clinics of North America**, Symposia on Burns 67 (2): 133-145, 1987
12. Monafu WW, Freedman BM: "Electrical and Lightning Injury". In: **The Art and Science of Burn Care**, Boswick JA Jr. (Ed.) Baltimore, University Park Press, 1988
13. Paletta CP, Freedman BM, Shehadi SI: "The VY Tensor Fascia Latae Musculocutaneous Flap", **Journal of Plastic and Reconstructive Surgery** 83: 852-857, 1989
14. Paletta CP, Volger GW, Freedman BM: "Viability of the Rectus Abdominis Muscle Following Internal Mammary Artery Ligation:", **Journal of Plastic and Reconstructive Surgery**, 92: 234-237, 1993
15. Lauf E, Freedman BM, Steinberg JS: Autogenous Free Dermal Fat Grafts in the Surgical Approach to Plantar Fibromatosis, **Journal of Foot and Ankle Surgery**, 37, (3): 227-234, 1998
16. Freedman BM, Earley RV: "Comparing Treatment Outcomes Between Physician and Nurse Treated Patients in Laser Hair Removal", **Journal of Cutaneous Laser Therapy**, 2, (3): 137-140, 2000
17. Freedman BM, Earley RV: "A Structured Treatment Protocol Improves Results with Laser Hair Removal", **Journal of Cutaneous Laser Therapy**, 2, (3): 131-135, 2000
18. Freedman BM: "Case Report: Becaplermin Therapy as an Alternative Treatment for High Pressure Injection Injuries", **Wounds**, 13: 123-126, 2001

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20. Freedman BM: "Traumatic Wounds: Evaluation and Management", **Disease Management Digest**, 5: 2-4, 2001
21. Freedman BM, Rueda-Pedraza E, Waddell SP: "The Epidermal and Dermal Changes Associated with Microdermabrasion", **Journal of Dermatologic Surgery** 27: 1-4, 2001
22. Freedman BM: "Clinical Concepts in Microdermabrasion: Clinical and Histological Observations", **Journal of Cutaneous Laser Surgery**, 3: 1-4, 2001
23. Freedman BM, Oplinger EO: "The Use of Becaplermin as a Surgical Alternative in Difficult To Manage Soft Tissue Defects", **Wounds**, 14(2):79-84, 2002
24. Freedman BM: "The Use of Becaplermin in the Treatment of Progressive Limb Threatening Pyoderma Gangrenosum", **Advances In Skin And Wound Care** 15 (4); 180-182, 2002
25. Freedman BM: "Cervicoplasty and Facial Laser Resurfacing: A Paired Technique for Facial Rejuvenation", **Journal of Cosmetic & Laser Therapy**, 4; 33-38, 2002
26. Freedman BM, Rueda-Pedraza E, Earley RV: "Clinical and Histologic Changes Determine Optimal Treatment Regimens for Microdermabrasion", **Journal of Dermatological Treatment**, 13; 1-8, 2002
27. Saba AA, Freedman BM, Gaffield JW, Mackay DR, Ehrlich HP: "Topical Platelet Derived Growth Factor Enhances Wound Closure in the Absence of Wound Contraction: An Experimental and Clinical Study", **Annals Of Plastic Surgery**, 49; 62-66, 2002
28. Ehrlich HP, Freedman BM: "Topical Platelet Derived Growth Factor Enhances Wound Closure in the Absence of Wound Contraction", **Cytokines, Cellular and Molecular Therapy**, 3: 85-90, 2002
29. Freedman BM, Balakrishnan TP, Reedy ED: "Digital Ultraviolet Reflectance Photography Can Be Used to Quantify Improvements in Photodamage", **Journal of Cosmetic Dermatology**, 4: 73-77, 2005
30. Freedman BM, Oplinger EH: "Topical Becaplermin Improves Outcomes in Work Related Fingertip Injuries", **Journal of Trauma**, 59: 965-968, 2005
31. Freedman BM, Balakrishnan TP, Reedy EA: "The Lamellar Peel: A Sequential Non-Ablative and Ablative Laser Treatment for Facial Skin Rejuvenation", **Journal of Cosmetic and Laser Therapy**, 7: 191-195, 2005
32. Freedman BM, Balakrishnan TP, O'Hara, EL: "Celecoxib Reduces Narcotic Use and Pain Following Augmentation Mammoplasty", **Aesthetic Surgery Journal**, 26: 1-5, 2006
33. Freedman BM, Balakrishnan TP, Earley RV: "Employing a Teaching Module Improves Patient Satisfaction in Facial Rejuvenation", **Journal of Cosmetic Dermatology**, 5: 134-136, 2006
34. Freedman BM, O'Hara EL: "Pregabalin has Opioid Sparing Effects Following Augmentation Mammoplasty", **Aesthetic Surgery Journal**, 28: 1-4, 2008
35. Freedman BM: "Hydradermabrasion: An Innovative Modality for Non-Ablative Facial Rejuvenation", **Journal of Cosmetic Dermatology**, 7: 275-280, 2008
36. Freedman BM: "Topical Antioxidant Application Enhances the Effects of Facial Microdermabrasion", **Journal of Dermatological Treatment**, 20:82-7, 2009.
37. Freedman BM: "Hydradermabrasion: A New Twist on a Tried and True Technology", **Aesthetic Medicine**, 2009
38. Freedman BM : "Topical Polyphenolic Antioxidant Application Reduces Adverse Effects of Intense Pulsed Light Therapy", Submitted to **Journal of Cosmetic and Laser Therapy**.
39. Freedman BM : "Topical Antioxidant Application Enhances the Effects of Intense Pulsed Light Therapy", Submitted to **Journal of Cosmetic Dermatology**.
40. Linton DL, Freedman BM: "Treatment Options for Glandular Ptosis", Submitted to **Aesthetic Surgery Journal**.