

**CURRICULUM VITAE**

**NAME:** Michael Scott Howard, M.D.

**DATE/LOCATION OF BIRTH:** December 8, 1959  
Atlanta, Georgia USA

**MEDICAL LICENSURE:** Unrestricted Georgia License, Number 49034  
Unrestricted Tennessee License, Number 25830

**BOARD CERTIFICATIONS:** American Boards of Dermatology and  
Pathology  
Certification in Anatomic and Clinical  
Pathology,  
November 1997  
Special Certification in Dermatopathology,  
November 2000

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**EDUCATION:**

**Postgraduate**

July 1999 – June 2000

Fellow in Dermatopathology  
Departments of Dermatology and Pathology  
University of Arkansas Medical Center  
Little Rock, Arkansas

July 1997 – June 1999

Fellow in Hematopathology  
Department of Pathology  
University of Texas Southwestern Medical  
Center  
Parkland Memorial Hospital, Dallas, Texas

July 1993 – June 1997

Resident, Department of Pathology  
University of Tennessee Medical Center,  
Knoxville, Tennessee

July 1992 – December 1992

Resident, Department of Anesthesiology,  
Duke University Medical Center,  
Durham, North Carolina

July 1991 – June 1992

Intern, Department of Surgery, Baptist  
Medical  
Centers, Birmingham, Alabama

### **Medical Studies**

August 1987 – May 1991

Emory University School of Medicine,  
Atlanta,  
Georgia  
▪ Doctor of Medicine  
▪ Irene K. Woodruff Medical Scholarship

### **Graduate Studies**

August 1984 – August 1986

Yale University, New Haven, Connecticut

- Master of Science
- Major: Molecular Biology
- NIH Predoctoral Fellowship
- Yale University Fellowship
- American Mensa Predoctoral Scholarship

### **Undergraduate Studies**

September 1978 – June 1983

University of Georgia, Athens, Georgia

- Bachelor of Science
- Major: Biology
- Phi Beta Kappa
- Phi Kappa Phi
- *summa cum laude* Graduate
- University Honors Program Graduate
- Research Graduate with Highest Honors
- Alpha Epsilon Delta

### **EMPLOYMENT:**

February 2002 – present

Founding Partner and Laboratory Director,  
Georgia Dermatopathology Associates,  
Atlanta,  
Georgia

February 2001 – February 2002

Staff Dermatopathologist,  
Quest Diagnostics Clinical Laboratories,  
Atlanta, Georgia

August 2000 – December 2000	Staff Dermatopathologist, Atlanta Dermatopathology and Pathology Associates, Atlanta, Georgia
January 1993 – June 1993	Pathology Associate, Georgia Tissue Bank/Cryolife, Inc., Atlanta, Georgia
November 1986 – August 1987	Unit Secretary, Emergency Department, DeKalb Medical Center, Decatur, Georgia
October 1983 – August 1984	Research Technician, Dept. of Anatomy and Cell Biology, Emory University Medical Center, Atlanta, Georgia

**PROFESSIONAL ORGANIZATIONS:**

- Fellow, American Society of Dermatopathology
- American Academy of Dermatology
- Annenberg Circle, Dermatology Foundation;  
Georgia DF Vice Chair 2007; 2008
- Fellow, College of American Pathologists
- United States and Canadian Academy of  
Pathology/International Academy of Pathology
- Society for Investigative Dermatology
- American Medical Association
- Medical Association of Georgia
- Georgia Society of Dermatology and Dermatologic  
Surgery
- Georgia Association of Pathologists
- Atlanta Association of Dermatology and  
Dermatologic Surgery
- DeKalb County Medical Society

**EARLY PROFESSIONAL ACTIVITIES:**

- National Meeting, American Academy of Dermatology, New Orleans, Louisiana, February 2002
- National Meetings, American Society of Dermatopathology, Fall 1999, 2005
- Chicago Compass Dermatology Review Educational Course, Chicago, Illinois, September 2000
- University of Pennsylvania Medical Center Educational Course, “Dermatopathology Self Assessment and Board Review,” Philadelphia, Pennsylvania, August 2000
- National Meetings, United States and Canadian Academy of Pathology, Spring 1999, 2001 and 2006
- Junior Member, College of American Pathologists SNOMED Editorial Board, Chicago, Illinois, June 1994 to June 1997
- Laboratory Inspector, College of American Pathologists, Chicago, Illinois, February 1994 to June 1997

#### **PUBLICATIONS IN PRESS, SUBMITTED OR IN PREPARATION:**

Abreu Velez AM, Smoller BR, *Howard MS*. Ezrin may confine neutrophil orientation in a chemotactic gradient towards the vessels in a case of Sweet syndrome. Ms. in press, *Our Derm Online*.

Abreu Velez AM, Jackson BL, *Howard MS*. Lichen planus pemphigoid: lesional immunopathological features. Ms. submitted, *Our Derm Online*.

Abreu Velez AM, Smoller BR, *Howard MS*. Lesional IgE in flares induced by drugs in a patient with autoimmune lupus erythematosus. Ms. in press, *Our Derm Online*.

Velez ID, Jimenez A, Robledo SM, *Howard MS*, Abreu Velez AM. Miliar, a new variant of cutaneous leishmaniasis. Ms. submitted, *Our Derm Online*.

Abreu Velez AM, Smoller BR, *Howard MS*. Leukocytoclastic vasculitis with deposits of IgD in the vessels and IgD nucleolar autoantibodies within keratinocytes. Ms. submitted, *Our Derm Online*.

Abreu Velez AM, Jackson BL, *Howard MS*. Lichen simplex chronicus as result of underlying recurrent Gram positive hair follicular unit inflammation. Ms. submitted, *Our Derm Online*.

Abreu Velez AM, Valencia-Yepes CA, Upegui-Quiceño E, Niño Pulido CD, Smoller BR, *Howard MS*. Myocardial zonula adherens protein (MYZAP) is expressed in the skin and colocalizes with autoantibodies from patients with endemic pemphigus foliaceus in el Bagre, Colombia. Ms. submitted, *Our Derm Online*.

Abreu Velez AM, Smoller BR, *Howard MS*. A new pattern of antinuclear antibodies in a new variant of endemic pemphigus foliaceus in El Bagre, Colombia. Ms. in preparation.

Abreu Velez AM, Barth GD, *Howard MS*. Mucous membrane pemphigoid (cicatricial pemphigoid) with autoreactivity to salivary glands and neurovascular bundles and mesenchymal-endothelial cell junctions in addition to the skin basement membrane zone. Ms. in preparation.

Abreu Velez AM, Jackson BL, *Howard MS*. Lichen simplex chronicus as a result of underlying recurrent Gram positive hair follicular unit inflammation. Ms. in preparation.

Abreu Velez AM, Romero-Mora C, *Howard MS*. Autoantibodies to olfactory neural-like receptors, Bowman glands, and other structures in an autoimmune blistering disease on a canine muzzle. Ms. in preparation.

Abreu Velez AM, Valencia-Yepes CA, Upegui-Quiceño E, Niño Pulido CD, Smoller BR, *Howard MS*. Area composita-like areas of the intervertebral disks, cells junctions, receptors and Nissl corpuscles are autoantigens in patients affected by a new variant of endemic pemphigus in El Bagre, Colombia and colocalize with MYZAP, p0071, ARVCF, and desmoplakins I and II. Ms. in preparation.

Abreu Velez AM, Valencia-Yepes CA, Upegui-Quiceño E, Niño Pulido CD, Smoller BR, *Howard MS*. Clinical phenotypes in El Bagre-endemic pemphigus patients show immunopathologic and immunologic fluctuations in multiple clinical forms. Ms. in preparation.

Abreu Velez AM, Valencia-Yepes CA, Upegui-Quiceño E, Niño Pulido CD, Smoller BR, *Howard MS*. Plakophilins 2 and 4 and desmoplakins I and II colocalize with autoantibodies from patients with a new variant of endemic pemphigus foliaceus directed against cardiac valves. Ms. in preparation.

Abreu Velez AM, Valencia-Yepes CA, Upegui-Quiceño E, Niño Pulido CD, Smoller BR, *Howard MS*. Colocalization of autoantibodies from patients affected by a new variant of endemic pemphigus in Colombia against smooth, skeletal and cardiac muscle, primarily to cell junctions and p0071, ARVCF, MYZAP and desmoplakins I and II. Ms. in preparation.

Abreu Velez AM, Valencia-Yepes CA, Upegui-Quiceño E, Niño Pulido CD, Smoller BR, *Howard MS*. The epicardium, the pericardium, and their cell junctions and receptors are targets for autoantibodies from patients affected by endemic pemphigus foliaceus in El Bagre, Colombia. Ms. in preparation.

#### **PROFESSIONAL PUBLICATIONS:**

Abreu Velez AM, Upegui-Zapata YA, Valencia-Yepes CA, Upegui-Quiceño E, Jimenez-Echavarria AM, Nino-Pulido CD, Smoller BR, *Howard MS*. Nail alterations in patients affected by endemic pemphigus foliaceus in El Bagre, Colombia. *Our Derm Online* 2019; 10(4): 325-8. DOI: 10.7241/ourd.20194. <http://odermatol.com/issue-in-html/2019-4-1-pemphigus/>

Abreu Velez AM, Upegui-Zapata YA, Valencia-Yepes CA, Upegui-Quiceño E, Mesa-Herrera NR, Jimenez-Echavarria AM, Nino-Pulido CD, Smoller BR, *Howard MS*. Membrane attack complex (C5b-9 or Mac) is strongly present in lesional skin from patients with endemic pemphigus foliaceus in El Bagre, Colombia. 2019; *J Cutan Pathol* 46(12): 925-9. PMID: 31435955. DOI: 10.1111/cup.13565. <http://www.ncbi.nlm.nih.gov/pubmed/31435955>.

Abreu Velez AM, Upegui-Zapata YA, Valencia-Yepes CA, Vasquez-Hincapie DA, Upegui-Quiceño E, Jimenez-Echavarria AM, Smoller BR, *Howard MS*, Nino-Pulido CD. Involvement of the areae compositae of the heart in endemic pemphigus foliaceus. *Dermatol Prac Concept* 2019; 9(3): 2: 181-6. PMID: 31384490. DOI: 10.5826/dpc.0903a02. <http://www.ncbi.nlm.nih.gov/pubmed/31384490>.

Abreu Velez AM, *Howard MS*, Lambrano-Padilla HJ, Tobon-Aroyave S. Asymptomatic oral autoimmunity in patients with endemic pemphigus foliaceus in Colombia has direct association with the mucosal immune system. *Dermatol Prac Concept* 2018; 8(4): 252-61. PMID: 30479852. PMCID: PMC6246068. DOI: 10.5826/dpc.0804a02.

Abreu Velez AM, Howard MS, Yi H, Florez-Vargas AA. Patients affected by a new variant of endemic pemphigus foliaceus have autoantibodies colocalizing with MYZAP, p0071, desmoplakins I and II and ARVCF, causing renal damage. *Clin Exp Dermatol* 2018; May 16. PMID: 29768670. DOI: 10.1111/ced.13556. <http://www.ncbi.nlm.nih.gov/pubmed/29768670>.

Abreu Velez AM, Gao W, Howard MS. The optic nerve envelope cell junctions and other structures colocalize with autoantibodies from patients affected by a new variant of endemic pemphigus and p0071, ARVCF and desmoplakins I and II. *Dermatol Pract Concept* 2018; 8(1): 1-6. PMID: 29445566. PMCID: PMC5808363. DOI: 10.5826/dpc.0801a01. <http://www.ncbi.nlm.nih.gov/pubmed/29445566>.

Abreu Velez AM, Douchy CJ, Howard MS. Immune response in a regressing compound dysplastic nevus. *Our Derm Online* 2018; 9(1): 65-67. DOI: 10.7241/ourd.20181.18. <http://www.odermatol.com/issue-in-html/2018-1-18-nevus/>

Abreu Velez AM, Sabini GM, Howard MS. IgD, cyclo-oxygenase 2 and ribosomal protein S6-ps240 immune response in a case of early psoriasis. *Our Derm Online* 2018; 9(1): 41-43. DOI: 10.7241/ourd.20181.12. <http://www.odermatol.com/issue-in-html/2018-1-12-psoriasis/>

Abreu Velez AM, Howard MS, Velazquez-Velez JE. Cardiac rhythm and pacemaking abnormalities in patients affected by endemic pemphigus in Colombia may be a result of deposition of autoantibodies, complement, fibrinogen and other molecules. *Heart Rhythm* 2017; Dec 22. pii: S1547-5271 (17) 31457-61. DOI: 10.1016/j.hrthm.2017.12.023. PMID: 29277685. <http://www.ncbi.nlm.nih.gov/pubmed/29277685>.

Abreu Velez AM, Yi H, Howard MS. Autoantibodies to full vascular cell junctions colocalize with MYZAP, ARVCF, desmoplakins I and II and p0071 in endemic pemphigus in Colombia, South America. *Int J Dermatol* 2017; 7(4): 3-8. DOI: 10.1111.ijd.13827. eCollection 2017 Oct. PMID: 29152726. <http://www.ncbi.nlm.nih.gov/pubmed/29152726>.

Abreu Velez AM, Valencia-Yepes CA, Vasquez-Hincapie DA, Upegui-Zapata YA, Upegui-Quiceño E, Velazquez-Velez JE, Howard MS. Patients affected by a new variant of endemic pemphigus foliaceus have autoantibodies against arrector pili muscles, colocalizing with MYOZAP, p0071, desmoplakins I and II and ARVCF. *Clin Exp Dermatol* 2017; 42(8): 874-80. PMID: 29034528. DOI: 10.1111/ced.13214. <http://www.ncbi.nlm.nih.gov/pubmed/29034528>.

Abreu Velez AM, Yi H, Howard MS. Cell junction protein Armadillo Repeat Gene Deleted in Velo-cardiofacial syndrome is expressed in the skin and colocalizes with autoantibodies of patients affected by endemic pemphigus foliaceus in Colombia. *Dermatol Pract Concept* 2017; 7(4): 3-8. PMID: 29214101. PMCID: PMC5718118. DOI: 10.5826/dpc.0704a02. <http://www.ncbi.nlm.nih.gov/pubmed/29214101>.



Abreu Velez AM, Devaro J, *Howard MS*. A cutaneous rash with mixed Gell Coombs allergic features, sclerodermoid changes and status post previous therapy. *Our Derm Online* 2017; 8(4): 420-3. DOI: 10.7241/ourd.20174.119. <http://www.odermatol.com/odermatology/20174/12>.

Abreu Velez AM, Cohen DJ, *Howard MS*. Plakophilin 4 and Armadillo Repeat Gene Deleted in Velo-Cardiofacial Syndrome in a skin drug reaction. *Our Derm Online* 2017; 8(4): 410-2. DOI: 10.7241/ourd.20174.144. <http://www.odermatol.com/odermatology/20174/9>. Plakophilin-AbreuVelezAM.pdf.

Abreu Velez AM, Silver WE, *Howard MS*. Triple histology of an extracted polytef (Goretex) implant. *Our Derm Online* 2017; 8(4): 501-2. DOI: 10.7241/ourd.20174.144. <http://www.odermatol.com/odermatology/20174/37>.Triple-AbreuVelezAM.pdf.

Abreu Velez AM, Barth GD, *Howard MS*. Exacerbated pemphigus vulgaris superinfected with herpes virus II, chemoattracting a florid inflammatory response. *J Ital Dermatol Venereol* 2017; Jul 11. PMID: 28704987. DOI: 10.23736./S0392-0488.17.05611-5. <http://www.ncbi.nlm.nih.gov/pubmed/28704987>.

Abreu Velez AM, Brown VM, *Howard MS*. Cytoid, colloidal and large intra-blister round bodies seem to be amalgamated molecules *in situ* in a case of erythema multiforme with C-ANCA. *Our Derm Online* 2017; 8(3): 282-5. DOI: 10.7241/ourd.20173.81. <http://www.odermatol.com/odermatology/20173/12>.Cytoid-Abreu-VelezAM.pdf.

Abreu Velez AM, Valencia-Yepes CA, *Howard MS*. Immunologic markers to arrector pili muscle, blister tissue and vessels in a case of bullous eczema herpeticum. *Our Derm Online* 2017; 8(3): 361-3. DOI: 10.7241/ourd.20173.105. <http://www.odermatol.com/issue-in-html/2017-3-36-immunologic/>.

Abreu Velez AM, Jimenez-Echavarria AM, Jackson BL, *Howard MS*. Immunoreactivity to Meissner corpuscles and dermal nerves in a bullous arthropod bite reaction. *Our Derm Online* 2017; 8(1): 102-03. DOI: 10.7241/ourd.20171.28. <http://www.odermatol.com/issue-in-html/2017-1-28-meissner/>.

Abreu Velez AM, *Howard MS*. Periodic acid Schiff staining parallels the immunoreactivity seen by direct immunofluorescence in autoimmune skin diseases. *N Am J Med Sci* 2016; 8: 151-5. DOI: 10.4103/1947-2714.179132. Publisher: Medknow Publications. PMID:27114972. <http://www.ncbi.nlm.nih.gov/pubmed/27114972>.

Abreu-Velez AM, Howard MS, Brown VM. Spongiotic dermatitis with Langerhans cell microabscesses. *J Cutan Pathol* 2016 Feb; 43(2) 181-6. DOI: 10.1111/cup.12595. Publisher: John Wiley & Sons, Inc. PMID: 26469341. <http://ncbi.nlm.nih.gov/pubmed/26469341>.

Abreu Velez AM., Deloach ED, Howard MS. Double color immunohistochemistry analysis of the immune response, angiolymphatic invasion and tumor mitotic rate in a superficial spreading malignant melanoma. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. ISBN: 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM. Valencia-Yepey CA, Howard MS. Vimentin, bromodeoxyuridine and topoisomerase II  $\alpha$  expression in a mildly dysplastic compound nevus. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. ISBN: 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM, Vásquez-Hincapié DA, Howard MS. Basal cell carcinoma with sebaceous and squamous differentiation, with expression of proliferating cell nuclear antigen, P27<sup>Kip1</sup> and vimentin. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. ISBN: 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM. Jackson BL, Howard MS. A case of an inflamed precancerous wart, and immune response with Factor XIIIa, IgD, CD11c/CD18 and CD79a. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. ISBN: 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM. Upegui-Zapata YA, Howard MS. Squamous cell carcinoma immunohistochemical staining reveals lateral satellitosis undetected via hematoxylin and eosin. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. ISBN: 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM. Vildibill HD, Howard MS. Immunologic and cell cycle regulatory markers in an inflamed actinic keratosis. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. ISBN: 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM. Lockhart R, Howard MS. Aggressive nodular basal cell carcinoma with expression of proliferating cell nuclear antigen and B-cell lymphoma 2 gene. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths,*

*pre-skin and skin tumors*. S.I., New York: Nova Science. **ISBN:** 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM, Jackson BL, Howard MS. Epidermis above a nodular basal cell carcinoma overexpressing proliferating cell nuclear antigen. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. **ISBN:** 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM, Jackson BL, Howard MS. Epidermal tissue near a basal cell carcinoma overexpress proliferating cell nuclear antigen, cyclin D1, topoisomerase II $\alpha$ , KI-67 and p27.<sup>kip1</sup> Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. **ISBN:** 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM, Brown VM, Howard MS. Directed host immune response against a primary cutaneous squamous cell carcinoma. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. **ISBN:** 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM, Lockhart R, Howard MS. Aggressive nodular basal cell carcinoma with expression of proliferating cell nuclear antigen and B-cell lymphoma 2 gene. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. **ISBN:** 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM, Vildibill HD, Howard MS. Octamer transcription factor-2 (OCT-2) and CD25 expression in a recurrent cutaneous melanoma. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. **ISBN:** 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM, Douchy CJ, Howard MS. Ribosomal protein S6-PS240, CD45 and cyclooxygenase-2 in an inflamed mildly dysplastic junctional nevus. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. **ISBN:** 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez AM, Calle-Isaza J, Upegui-Zapata YA, Vásquez-Hincapié DA, Upegui-Quiceño E, Mesa-Herrera NR, Valencia-Yepes CA, Velasquez-Velez JE, Vásquez-Hincapié DA, Howard MS. Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. **ISBN:** 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez, Vildibill HD, Howard MS. Immunologic and cell cycle regulatory markers in an inflamed actinic keratosis. Book Chapter. In: *Inflammatory markers, oncogenes, and tumor suppressor cell cycle regulators in skin growths, pre-skin and skin tumors*. S.I., New York: Nova Science. ISBN: 978-1-63484-304-1. First Quarter, 2016.

Abreu Velez, AM, Velazques-Velez, JE, Howard MS. Bullous Pemphigoid: Broader Concepts. Book Chapter. In *Advances in Dermatology Research* (pp. 9-32). S.I., New York: Nova Science. ISBN: 978-1-63484-304-1. Feb 10 2015.

Abreu Velez AM., Velazques-Velez JE, Howard MS. Dermal neurovascular structures demonstrate autoimmune reactivity in lesional skin of a patient with bullous pemphigoid. Book Chapter. In: *Advances in Dermatology Research* (pp 33-44). S.I., New York: Nova Science. ISBN: 978-1-63484-304-1. Feb 10 2015.

Abreu Velez AM., Brown VM, Howard MS. A bullous pemphigoid-like allergic drug reaction, with clues for differentiation versus classic bullous pemphigoid. Book Chapter. In: *Advances in Dermatology Research* (pp 57-66). S.I., New York: Nova Science. ISBN: 978-1-63484-304-1. Feb 10 2015.

Abreu Velez AM., Jackson BL, Howard MS. Expression of Immunologic markers varies between intact blister and traumatized blister areas in a patient with bullous pemphigoid. Book Chapter. In: *Advances in Dermatology Research* (pp 45-56). S.I., New York: Nova Science. ISBN: 978-1-63484-304-1. Feb 10 2015.

Abreu Velez AM, Brown VM, Howard MS. Multiple drug allergy/intolerance syndrome and/or adverse drug reaction with multiple immune reactants. *Our Derm Online* 2015; 6(3): 299-303.

Abreu Velez AM, Calle Isaza J, Howard MS. Immunofluorescence patterns in selected dermatoses, including blistering skin diseases utilizing multiple fluorochromes. *North Am J Med Sci*. 2015; 7: 397-402.

Abreu Velez AM, Howard MS, Brown VM. Spongiotic dermatitis with Langerhans cell microvesicles. *J Cutan Pathol*. 2015; 15. Doi: 10.1111/cup.12595.

Abreu Velez AM, Pereyo NG, Howard MS. Palmoplantar lichen planus: a case report and review of the literature. *An Bras Dermatol*. 2015; 90(3Suppl1): S175-7. DOI:<http://dx.doi.org/10.1590/abd1806-4841.20153034>.

Abreu Velez AM, Googe PB, Kim J, Howard MS. Markers for sebaceoma show a spectrum of cell cycle regulators, tumor suppressor genes and oncogenes. *North Am J Med Sci*. 2015; 7(6): 275-280. DOI: 10.4103/1947-2014.159338.

Abreu Velez AM, Jackson BL, Howard MS. Intraepidermal and subepidermal blistering with skin necrosis, possibly caused by etanercept in treatment of a patient with psoriasis. *Our Derm Online* 2015; 6(3): 299-303. DOI:10.7241/ourd.20153.80.

Abreu Velez AM, Howard MS. Tumor suppressor genes, cell cycle regulatory checkpoints, and the skin. *North Am J Med Sci.* 2015; 7(5): 176-188. DOI: 10.4103/1947-2714.157476.

Abreu Velez AM, Smoller BR, Howard MS. Central centrifugal cicatricial alopecia amalgamated with alopecia areata: immunologic findings. *Our Derm Online.* 2014; 5(3): 287-291.

Abreu Velez AM, Howard MS, Brown VM. Immunoreactivity to dermal vessels in a patient with pyoderma gangrenosum. *Our Derm Online.* 2014; 5(4): 419-422.

Abreu Velez AM, Howard MS, Brown VM. A complex immune response in halo nevi correlates with immune reactivity on infiltrated melanocytes, adjacent hair follicles and blood vessels. *Our Derm Online.* 2014; 5(4): 391-394.

Abreu Velez AM, Vásquez-Hincapié DA, Howard MS. Vimentin may reflect areas of cutaneous involvement in biopsies from patients with autoimmune skin diseases. *Our Derm Online.* 2014; 5(2): 140-143.

Abreu Velez AM, Calle-Isaza J, Howard MS. CD1a, HAM56, CD68 and S-100 are present in lesional skin biopsies from patients affected by autoimmune blistering diseases. *Our Derm Online.* 2014; 5(2): 113-117.

Abreu Velez AM, Calle-Isaza J, Howard MS. HLA-DP, DQ, DR antigen is expressed in lesional skin from patients with autoimmune skin diseases. *Our Derm Online.* 2014; 5(2): 125-128.

Abreu Velez AM, Brown VM, Howard MS. Linear IgA bullous disease with possible reactivity to the basement membrane zone and dermal blood vessels. *Our Derm Online* 2014 5(1): 71-73.

Abreu Velez AM, Googe PB Jr., Howard MS. Ribosomal protein S6-pS240 is expressed in lesional skin from patients with autoimmune skin diseases. *North Am J Med Sci* 2013 5: 604-608.

Abreu Velez AM, Calle-Isaza J, Howard MS. A case of bullous pemphigoid with immunoreactivity to blood vessels and sweat glands. *Our Derm Online* 2013 4: 621-624.

Abreu Velez AM, Oliver J, Howard MS. Immunohistochemistry studies in a case of dermatitis herpetiformis demonstrates complex patterns of reactivity. *Our Derm Online* 2013 4: 627-630.

Abreu Velez AM, Vasquez-Hincapie DA, Howard MS. Autoimmune basement membrane and subepidermal blistering diseases. *Our Derm Online* 2013 4: 647-662.

Abreu Velez AM, Googe PB Jr., *Howard MS*. In situ immune response in skin biopsies from patients affected by autoimmune blistering diseases. *Our Derm Online* 2013 4: 606612.

Abreu Velez AM, Googe PB Jr., *Howard MS*. Immunohistochemistry versus immunofluorescence in the diagnosis of autoimmune blistering diseases. *Our Derm Online* 2013 4: 627-630.

Abreu Velez AM, Smoller BR, *Howard MS*. Rouleaux and autoagglutination of erythrocytes associated with fibrin-like material in skin biopsies from patients with autoimmune blistering diseases. *Our Derm Online* 2013 4: 613-615.

Abreu Velez AM, Roselino AM, *Howard MS*. Mast cells, mast/stem cell growth factor receptor(c-kit/CD117) and IgE may be integral to the pathogenesis of endemic pemphigus foliaceus. *Our Derm Online* 2013 4: 596-600.

Abreu Velez AM, Calle-Isaza J, *Howard MS*. Autoimmune epidermal blistering diseases. *Our Derm Online* 2013 4: 631-646.

Abreu Velez AM, Brown VM, *Howard MS*. A transient drug-induced lupus erythematosus-like allergic drug reaction with multiple antibodies. *Our Derm Online* 2013 4: 511-513.

Abreu Velez AM, Barth GD, *Howard MS*. Thrombomodulin overexpression surrounding a subepidermal bullous allergic drug reaction. *Our Derm Online* 2013 4: 514-516.

Abreu Velez AM, Calle-Isaza J, *Howard MS*. Cyclo-oxygenase 2 is present in the majority of lesional skin from patients with autoimmune blistering diseases. *Our Derm Online* 2013 4: 476-478.

Abreu Velez AM, Yepes-Naranjo MM, Avila IC, Londono ML, Googe PB Jr., Velasquez-Velez JE, Velez ID, Upegui YA, Jimenez-Echevarria A, Mesa-Herrera NR, Yi H, Calle Isaza J, *Howard MS*. Tissue inhibitor of metalloproteinase 1, matrix metalloproteinase 9, alpha 1 antitrypsin, metallothionein and urokinase type plasminogen activator receptor in skin biopsies from patients affected by autoimmune blistering diseases. *Our Derm Online* 2013 4: 275-280.

Abreu Velez AM, Klein AD, *Howard MS*. Specific cutaneous histologic and immunologic features in a case of early lupus erythematosus scarring alopecia. *Our Derm Online* 2013 4: 199-201.

Abreu Velez AM, Avila IC, *Howard MS*. Immune response in a cutaneous allergic drug reaction secondary to Imidapril, Benazapril and Metformin. *Our Derm Online* 2013 4: 192-195.

Abreu Velez AM, Brown VM, Shipp L, Smoller BR, Howard MS. N-TRAPs and cANCA in a vasculitis-lupus-scleroderma-panniculitis overlap syndrome. *Our Derm Online* 2013 4: 83-86.

Abreu Velez AM, Jackson BL, Velasquez-Cantillo KL, Benavides-Alvarez AR, Howard MS. Merkel cell carcinoma versus metastatic small cell primary bronchogenic carcinoma. *Our Derm Online* 2013 4: 64-71.

Abreu Velez AM, Howard MS. Neural reactivity detected by immunofluorescence in a patient with a localized blistering disease. *Our Derm Online* 2013 4: 91-94.

Abreu Velez AM, Klein AD, Howard MS. An allergic bullous drug reaction triggered by levofloxacin and trimethoprim/sulfamethoxazole mimicking an autoimmune blistering disease. *Our Derm Online* 2012 3: 341-343.

Abreu Velez AM, Howard MS, Gao W, Grossniklaus HE, Jiao Z, Arias LF, Dudley SC Jr., Smoller BR. Varicella zoster virus(VZV) and antitrypsin: a fatal outcome in a patient affected by endemic pemphigus. *Int J Derm* 2012 51: 809-816.

Abreu Velez AM, Klein AD, Howard MS. JAM-A, plasminogen and fibrinogen reactivity in a case of a lupus erythematosus-like reaction to Lisinopril. *J Clin Exp Derm Res* 2012 5:6.

Abreu Velez AM, Howard MS, Pereyo NG, Delman KA, Mihm MC Jr., Rizzo M. CD45/CD8, myeloid histoid antigen and plasma cell antibody immune response in a case of malignant melanoma. *N Am J Med Sci* 2012 4: 507-509.

Abreu Velez AM, Yi H, Girard JG, Duque-Ramirez M, Arias LF, Smoller BR, Dudley SC Jr., Howard MS. Dermatitis herpetiformis bodies and autoantibodies to noncutaneous organs and mitochondria in dermatitis herpetiformis. *Our Derm Online* 2012 3: 283-291.

Abreu Velez AM, Klein AD, Howard MS. Immune findings in central centrifugal cicatricial alopecia. *Our Derm Online* 2012 3:202-205.

Abreu Velez AM, Howard MS. Immune reactivity in psoriatic Munro Saboureau microabscesses, stratum corneum and blood vessels. *N Am J Med Sci* 2012 4: 257-265.

Abreu Velez AM, Howard MS. Collagen IV in normal skin and in pathologic processes. *N Am J Med Sci* 2012 4: 1-8.

Abreu Velez AM, Brown VM, Howard MS. Cytotoxic and antigen presenting cells and non-basement membrane zone pathology in a case of bullous pemphigoid. *Our Derm Online* 2012 3: 93-99.

Abreu Velez AM, Howard MS, Brzezinski P. Immunofluorescence in multiple tissues utilizing serum from a patient affected by systemic lupus erythematosus. *Our Derm Online* 2012 3: 431-434.

Abreu Velez AM, Howard MS. "Lupus: a comprehensive review". Book Chapter. In: Lupus: symptoms, treatment and potential complications. Editors: Thiago D. Marquez, David U. Neto. Series: Immunology and Immune System Disorders. Binding: ebook, Nova Science Publishers, Happaage, New York, 2012.

Abreu Velez AM, Brown VM, Howard MS. An inflamed trichilemmal(pilar) cyst: not so simple? *N Am J Med Sci* 2011 3: 431-434.

Abreu Velez AM, Klein AD, Howard MS. Skin appendageal immune reactivity in a case of lupus. *Our Derm Online* 2011 2: 175-180.

Abreu Velez AM, DeJoseph LM, Howard MS. HAM56 and CD68 antigen presenting cells surrounding a sarcoidal granulomatous tattoo. *N Am J Med Sci* 2011 3: 475-477.

Abreu Velez AM, Yi H, Googe PB Jr, Mihm MC Jr, Howard MS. Autoantibodies to melanocytes and characterization of melanophages in patients affected by a new variant of endemic pemphigus foliaceus. *J Cutan Path* 2011 38(9): 710-719.

Abreu Velez AM, Klein AD, Howard MS. LAT, EGFR-pY197, PCNL2, CDX2, HLADPDQDR, bromodeoxyuridine, JAM-A and ezrin immunoreactants in a rubbed spongiotic dermatitis. *Our Derm Online* 2011 2: 211-215.

Abreu Velez AM, Jackson BL, Howard MS. Salt and pepper staining patterns for LAT, ZAP-70 and MUM-1 in a vasculitic bullous allergic drug eruption. *Our Derm Online* 2011 2: 211-215.

Abreu Velez AM, Howard WR, Howard MS. Upregulation of anti-human ribosomal protein S6-p240, topoisomerase II alpha, cyclin D1, bcl-2 and anti-corneal antibodies in acute psoriasis. *Our Derm Online* 2011 3: 113-117.

Abreu Velez AM, Smith JG Jr., Howard MS. Subcorneal pustular dermatosis(Sneddon Wilkinson) with multiple immunoreactants. *Int J Clin Exp Pathol* 2011 4: 526-529.

Abreu Velez AM, Klein AD, Howard MS. Survivin, p53, MAC, Complement/C3, fibrinogen and HLA-ABC within hair follicles in follicular degeneration syndrome. *N Am J Med Sci* 2011 3: 251-254.



Abreu Velez AM, Smith JG Jr., Howard MS. Activation of the signaling cascade in response to T lymphocyte receptor stimulation and prostanoids in a case of cutaneous lupus. *North Am J Med Sci.* 2011 3: 251-254.

Abreu Velez AM, Loebel AM, Howard MS. Spongiotic dermatitis with a mixed inflammatory infiltrate of lymphocytes, antigen presenting cells, immunoglobulins and complement. *Our Derm Online* 2011 2(2): 52-57.

Abreu Velez AM, Klein AD, Howard MS. Overexpression of linker for activated T cells, cyclooxygenase-2, CD1a, CD68 and myeloid/histiocyte antigen in an inflamed seborrheic keratosis. *North Am J Med Sci.* 2011 3: 161-163.

Abreu Velez AM, Girard JG, Howard MS. IgG bullous pemphigoid with antibodies to IgD, dermal blood vessels, eccrine glands and the endomysium of monkey esophagus. *Our Derm Online* 2011 2(2): 48-51.

Abreu Velez AM, Klein AD, Howard MS. Bullous allergic drug eruption with presence of myeloperoxidase and reorganization of the dermal vessels observed by using CD34 and collagen IV antibodies. *North Am J Med Sci.* 2011 3: 82-84.

Abreu Velez AM, Howard MS, Grossniklaus HE, Gao W, Hashimoto T. Neural system antigens are recognized by autoantibodies from patients affected by a new variant of endemic pemphigus foliaceus in Colombia. *J Clin Immunol* 2011 31: 356-368.

Abreu Velez AM, Jiao Z, Howard MS, Dudley SC Jr. Cardiac autoantibodies from patients affected by a new variant of endemic pemphigus foliaceus in Colombia, South America. *J Clin Immunol* 2011 31: 985-997.

Abreu Velez AM, Yi H, Gao W, Smoller BR, Grossniklaus HE, Howard MS. Antibodies to pilosebaceous units, in a new variant of pemphigus foliaceus. *Eur J Derm* 2011 21: 371375.

Abreu Velez AM, Smith JG Jr, Howard MS. Cutaneous lupus erythematosus with autoantibodies colocalizing with glial acidic fibrillary protein. *Our Derm Online* 2011 2(1): 8-11.

Abreu Velez AM, Howard MS. Diagnosis and treatment of cutaneous paraneoplastic disorders. *Derm Ther* 2010 23: 662-75.

Abreu Velez AM, Smith JG Jr, Howard MS. IgG/IgE bullous pemphigoid with CD45 lymphocytic reactivity to dermal blood vessels, nerves and eccrine sweat glands. *North Am J Med Sci.* 2010 2: 538-41.

Abreu Velez AM, Howard MS, Smoller BR. Atopic dermatitis and possible polysensitization, with monkey esophagus reactivity. *North Am J Med Sci.* 2010 2: 336-40.

Abreu Velez AM, Howard MS, Brown VM. Antibodies to piloerector (arrector pili) muscle in a case of lupus/lichen planus overlap syndrome. *North Am J Med Sci.* 2010 2: 276-80.

Abreu Velez AM, Klein AD, Howard MS. Junctional adhesion molecule overexpression in Kaposi varicelliform eruption skin lesions, as a possible herpes virus entry site. *North Am J Med Sci* 2010 2: 433-37.

Howard MS, Yepes MM, Maldonado JG, Villa E, Jaramillo A, Botero J, Patino PJ, Hashimoto T, Abreu Velez AM. Broad histopathologic patterns of non-glabrous skin and glabrous skin from patients with a new variant of endemic pemphigus foliaceus (Part 1). *J Cutan Path* 2010 Feb; 37(2): 222-30.

Abreu Velez AM, Howard MS, Hashimoto T, Grossniklaus HE. Human eyelid meibomian glands and tarsal muscle are recognized by autoantibodies from patients affected by a new variant of endemic pemphigus foliaceus in El-Bagre, Colombia, South America. *J Am Acad Derm* 2010 Mar; 62(3): 437-47.

Abreu Velez AM, Messias Reason LJ, Howard MS, Roselino AM. Endemic pemphigus foliaceus over a century: part 1. *North Am J Med Sci.* 2010 2: 51-59.

Abreu Velez AM, Roselino AM, Howard MS, Messias Reason LJ. Endemic pemphigus foliaceus over a century: part 2. *North Am J Med Sci.* 2010 2 :114-25.

Abreu Velez AM, Klein AD, Howard MS. Autoreactivity to sweat glands and nerves in a clinical scabies infection. *North Am J Med Sci* 2010 2: 422-25.

Abreu Velez AM, Smith JG Jr., Howard MS. Vimentin compartmentalization in discoid lupus *North Am J Med Sci.* 2010 2: 106-10.

Abreu Velez AM, Jackson BL, Howard MS. Deposition of immunoreactants in a cutaneous allergic drug reaction. *North Am J Med Sci.* 2009 1: 180-83.

Abreu Velez AM, Howard MS, Hashimoto K, Hashimoto T. Autoantibodies to sweat glands detected by different methods in serum and in tissue from patients affected by a new variant of endemic pemphigus foliaceus. *Arch Derm Res.* 2009 Oct 301(10): 711-18.

Abreu Velez AM, Howard MS, Loebel AM. Autoreactivity to sweat and sebaceous glands and skin homing T cells in lupus profundus. *Clin Immunol.* 2009 132: 420-24.

Abreu Velez AM, Villa Robles E, Howard MS. A new variant of endemic pemphigus foliaceus in El-Bagre, Colombia: the Hardy-Weinberg-Castle law and linked short tandem repeats. *North Am J Med Sci.* 2009 1: 169-79.

Abreu Velez AM, Girard JG, *Howard MS*. Antigen presenting cells in a patient with hair loss and systemic lupus erythematosus. *North Am J Med Sci*. 2009 1: 205-10.

Abreu Velez AM, Smith JG Jr., *Howard MS*. Neutrophil extracellular traps (NETS), IgD, myeloperoxidase (MPO) and antineutrophil cytoplasmic antibody (ANCA) associated vasculitides. *North Am J Med Sc*. 2009 1: 309-13.

Abreu Velez AM, *Howard MS*, Restrepo M, Smoller BR. Formalin deposition as artifact in biopsies from patients affected by a new variant of endemic pemphigus foliaceus in El Bagre, Colombia, South America. *J Cutan Path* 2009 Dec 10. 37(8): 835-42.

Abreu Velez AM, *Howard MS*, Pinto FJ Jr. Dyshidrotic eczema: relevance to the immune response *in situ*. *North Am J Med Sci* 2009, August, Vol 1. No 3: 117-20.

Abreu Velez AM, *Howard MS*, Hashimoto T. Palms with a polyclonal autoimmune response in patients affected by a new variant of endemic pemphigus foliaceus in Colombia, South America. *Eur J Dermatol*. 2009 Nov 4. 20(1): 74-81.

Yug A, Lane JE, *Howard MS*, Kent DE. Histologic study of depressed acne scars treated with serial high concentration (95%) trichloroacetic acid. *Derm Surg* 2006 Aug 32(8) 985-90.

Asplund SL, McKenna RW, *Howard MS*, Kroft SH. Immunophenotype does not correlate with lymph node histology in CLL/SLL. *Am J Surg Path* 2002 26(5): 624-29..

*Howard MS*, An Atlas of Histopathology of Skin Diseases. Book Review. *J Cutan Path* 2001 28: 53-54.

*Howard MS*, Smoller BR. Mycosis Fungoides: Classic disease and variant presentations. *Sem Cutan Med Surg* 2000 19: 91-99.

Kroft SH, *Howard MS*, Picker LJ, Ansari MQ, Aquino DB, McKenna, RW. *De Novo* CD5 Positive diffuse large B-cell lymphomas: a heterogeneous group containing a distinct form of splenic lymphoma. *Am J Clin Path* 2000 114: 523-533..

*Howard MS*, Smoller BR. "Trichofolliculoma". Book Chapter. In: Online Textbook of Dermatology, William James, M.D., Editor, 2000.

**PRESENTED ABSTRACTS AND LECTURES:**

Abreu Velez, AM, Jiao Z, Gao W, *Howard MS*, Grossniklaus HE, Arias Restrepo LF, Dudley SC. “Multiple heart cell junctions and blood vessels are recognized by autoantibodies from patients affected by a new variant of endemic pemphigus foliaceus in Colombia, South America”, Abstract presentation at Seventieth Annual Meeting, Society for Investigative Dermatology, May 2010, Atlanta, Georgia

*Howard MS*. “Dermatopathology Clinicopathologic Correlations”, Lecture presentations at Georgia Society of Dermatologists Annual Meeting, June, 2006, Sea Island, Georgia; and at Atlanta Dermatological Association Monthly Meeting, August 2006, Atlanta, Georgia

*Howard MS*, Smoller BR, Horn TD. “AILD-Like T Cell Lymphoma Presenting with Cutaneous Findings”, Abstract presentation at American Society of Dermatopathology National Meeting, November 1999, La Jolla, California

*Howard MS*. “*De Novo* CD5-Positive diffuse large B cell lymphomas: a heterogeneous group containing a distinct form of splenic lymphoma”. Lecture presentation at United States and Canadian Academy of Pathology Annual Meeting, March 1999, San Francisco, California

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- American Society of Dermatopathology Annual Meeting, October, 2010, Atlanta, Georgia.
- Society for Investigative Dermatology, Annual Meeting, May, 2010, Atlanta, Georgia.
- The Massachusetts Medical Society, NEJM Manuscript Review CME Program, December, 2009, Boston, Massachusetts.
- Georgia Society of Dermatologists Annual Meetings, June 2005-2007, 2009, Sea Island, Georgia and Ponte Vedra Beach, Florida.
- Piedmont Dermatological Society of South Carolina, Thirtieth Annual Congress, October, 2008, Asheville, North Carolina.
- Scientific Symposiums International Dermatopathology Course Reviews, June 2007-2009, Hilton Head Island, South Carolina.
- Dermatology Foundation Clinical Symposium: Advances in Dermatology, April 2008, Amelia Island, Florida.
- Fifty-sixth Annual Montagna Symposium on the Biology of the Skin, Oregon Health Sciences University School of Medicine, October, 2007, Gleneden Beach, Oregon.
- Harvard Dermatopathology Update CME Course, October 2006, Boston, Massachusetts

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- [www.researchgate.net](http://www.researchgate.net)
- [www.nextbio.com](http://www.nextbio.com)
- [www.pubmed.org](http://www.pubmed.org)

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