

General Information

Name: Ana María Abréu Vélez, M.D., Ph.D.

Work telephone number: (404) 431-0077

Work: Georgia Dermatopathology Associates, 1534 North Decatur Road NE, Suite 296, Atlanta, GA 30307

E-mail address: abreuvelez@yahoo.com

Languages: Proficient in English and Spanish. Able to read and understand some Portuguese and French.

Dr. Abreu specializes in physiology of the skin and mucosal immunopathology, immunofluorescence assays, ELISA and immunoblot assays for the diagnosis of autoimmune skin and mucous membrane diseases. Immunodermatological and mucosal autoimmunity expertise: specializes in immunologic tests, primarily, for the diagnosis of bullous, vascular, connective tissue and inherited skin diseases. Specialized in direct and indirect immunofluorescent (DIF, IIF) with multiple color and serum studies for bullous diseases (pemphigus, pemphigoid, dermatitis herpetiformis). Collagen vascular diseases [systemic *lupus* erythematosus, (SLE), discoid lupus (DLE), lupus erythematosus, subacute cutaneous, (SCLE), dermatomyositis, scleroderma]. Chronic ulcerative stomatitis, vasculitis, livedo vasculitis, lichen planus, differentiation of bullous pemphigoid (BP) from epidermolysis bullosa acquisita (EBA) with DIF of salt (NaCl) split biopsy. Psoriasis, vasculitis, porphyrias, erythema multiformis and drug eruptions among others. Detection of autoantibodies for multiple methods. Extended experience in clinical trials at all levels. Skin and mucosae diseases included, and immunodermatology. Extended experience in basic science research including autoimmune blistering diseases. Experience mentoring pre and graduate students and residents in clinical, in basic science and in clinical trials. Extended experience in cooperative research. Dr Abreu has a extend experience in education and mentorship to residents, interns and medical students. Dr Abreu encourages research, publications of first author manuscripts by bringing together resources to ensure that all of our residents have an opportunity to identify areas of research interest, as well as training in clinical trials.

Some insights: Discovered and had worked in a new variant of endemic pemphigus foliaceus. This disease exhibits autoreactivity to multiple systemic organs including the optic nerve, neural components, the mechanoreceptors, skin and mucosae appendices, heart, kidney and blood vessels. This disease constitutes a unique model for autoimmune diseases because of its endemic focus in a restricted geographical region. I discovered some new antigens in this disease including desmoplakins, periplakins, and envoplakin. Developed a new ELISA assay for detection of desmogleins and plectin molecules.

Proficiency in biomedical sciences, and in academic environment

Experience in supervising personnel (clerical, staff, students, fellows, residents) in clinical, administrative, academic and research environments. Skilled in laboratory start-

up, generating invoices, maintaining inventory, and accounting. Experience in publishing posters, abstracts, and publications. Experience in international collaboration and in subcontracts. Managed databases for tissue banks (including DNA, serum, and biopsies), including coding, and storage.

Extended experience in cell-cell and cell-matrix adhesion molecules. Experience in protein expression, purification, and signal transduction. Experience in local and systemic inflammatory factors, T-cell, B-cell, and macrophage interactions. Skilled in epitope mapping and spreading, protein purification and isolation using sequential extractions and affinity chromatography columns. Experience in immune electron microscopy techniques. Substantial experience with immunopathology, histology, immunofluorescence (direct, and indirect), immunohistochemistry, *in situ* hybridization, immunoblotting, immunoprecipitation, nuclei counterstaining, and use of multiple fluorophores at the same time. Experience in PCR, confocal microscopy, electrophoresis of proteins, RNA and DNA, SDS-PAGE, analysis of proteins, Southern blotting, cell cultures, cell counting and FACS analysis. Extended experience in differential interference contrast (DIC) microscopy, in Frat microscopy.

Experience with radiolabeling of molecules including both radioactive and non-radioactive methods (ECL, ¹²⁵I). Avidin Horse Radish Peroxidase (AV-HRP). Experience with malignancies including some oncogenes for cancer (MMTV-rTA, myc, tet)-ras, tetOcre, CDK2, P53, E2F, 3, 4, and 5), assessment of tumors by immunophenotyping, cytomorphological impressions, sentinel lymph nodes, (TNM)-tumor classification, and biomarkers. Experience with cytomorphological features of tissues.

Experienced with handling mice/rats and organizing mouse colonies and husbandry. Familiar with experimental laboratory animal handling, animal models, mouse identification techniques, tail DNA extraction, mouse genotyping and cross selection.

Clinical trial experience

- * Extensive experience in clinical trial compliance, auditing, and legal issues. Federal, non-profit and for-profit industry-sponsored clinical trials at all levels. FDA-regulated research and human subject protection in the USA and in Latin America. Familiar with preparing intricate grant applications and non-routine proposals for sponsors. Extensive participation in the process and bargaining necessary for clinical trial conformity with business sponsors. Prepared notice of acceptance documents; ensured accuracy of administrative and financial award information. Extensive experience negotiating and verifying CPT and ICD codes and consulting the administration when new coding was necessary to comply with state and federal regulations. Strong experience managing and reviewing all the faculty and staff that would potentially be involved in any clinical trial, ensuring proper certification and re-certification. Assisted faculty in developing budgets for grants and contracts. Coordinated the process for obtaining required approvals from the appropriate organizational committees such as the Institutional Review Board/Human Investigations (IRB) Committee and the Institutional Animal Use and Care Committee. Ensured that funding agencies received required approval letters. Maintained required records and plan to implement a microfilm alternative for passive studies. Handled non-financial post-award activities such as obtaining final statements/reports from faculty and forwarding them to the appropriate agency.
- * Extensive experience in assigning protocols to coordinators and helping them for data entry. Experience advising investigators on how to develop protocols that meet compliance standards. Maintain committee meeting agendas and minutes. Process (for

team review) all amendments, consent revisions, adverse events and recruitment requests. Guarantee that communication sent to investigators addresses issues discussed in IRB meetings. Review investigators' responses and ensure they adequately address committee questions and concerns. Familiarity in assisting in recruiting and interviewing patients/subjects, developing and conducting tests and surveys, gathering and abstracting data and making presentations.

Some clinical trials that I have participated in while in the United States, especially in patients with macular degeneration and neovascularization of the retina.

Study name: A safety and feasibility study of the Therasight® braquiotherapy system for treatment of pigmented lesions. Sponsor Institution: **Theragenic Corporation Inc.** Administrative Institution: 5203 Bristol Industrial Way, Buford, Georgia 30518. <http://www.theragenics.com>

Study name: A Randomized Trial Comparing Triamcinolone Acetonide and Laser Photocoagulation in patients with Diabetic plaques. (DRCR-II). Sponsor Institution: **National Institutes of Health, Department of Health & Human Services.** Administrative Institution: Jaeb Center for Health Research. Coordinating Center 15310 Amberly Drive, Suite 350 Tampa, Florida, 33647.

Study name: A phase III multicenter, randomized, double masked, sham injection-controlled study of the efficacy and safety of rhuFab V2 in patients with neovascularization for diabetes (Marina). Sponsor Institution: **Genentech Inc.** DNA Way, So. San Francisco, CA 94080-9618. Administrative Institution: CSMG Clinical Studies Management Group. 1015 Falcon View Cove, Grayson, GA 30017.

Study name: The Standard Care vs. Corticosteroid for Retinal Vein Occlusion (SCORE) Study:
Study: Two Randomized Trials to Compare the Efficacy and Safety of Intravitreal Injection(s) of Triamcinolone Acetonide with Standard Care to Treat Macular Edema. (SCORE). Sponsor Institution: **National Institutes of Health, Department of Health & Human Services.**

Study name: (Anti-VEGF Antibody for the Treatment of Predominantly Classic Choroidal Neovascularization in AMD). This is a randomized, multi-center, double-masked, active treatment controlled study. (ANCHOR). Sponsor Institution: **Genentech Inc.** DNA Way, So. San Francisco, CA 94080-9618. Administrative Institution: CSMG Clinical Studies Management Group. 1015 Falcon View Cove Grayson, GA 30017.

Study name: LY333531 Protocol B7A-MC-MBCM “Protein kinase C β inhibitor diabetes (PKC-DRS2) — a phase III clinical trial” (“study”). Sponsor Institution: **Eli Lilly and Company**
Faris 1 Bldg 450 S Madison Ave DC 6026, IN 46225. Administrative Institution: Parexel International, 195 West street Waltham, Massachusetts 02451-1163. www.parexel.com

Experience in the academy, grantmanship, educational, administration and residency and internship certifications

Familiar in preparing grant proposals to obtain funding for our laboratory research as well as for epidemiological studies and community-based social programs. Assisted in coordinating routine activities associated with a research project including: data maintenance, grant expenditure

adherence, project evaluation, scheduling meetings and handling the research-subject interface. Reviewed literature for related research developments and techniques, compiled findings and generated reports. I served as project liaison to other departments, outside organizations, government agencies and product representatives. Managed databases including data collection, codes, analysis and storage. Assisted in developing and submitting grant proposals; monitored grant expenditures and advised the principal investigator of changes in reporting or accounting requirements. Oversaw the preparation of operational and statistical reports for management and regulatory agencies. I conducted literature searches and assisted with publications. Supervised staff training and provided ongoing performance feedback. I directed the strategic planning, development, and implementation of skin disease programs. Experience collaborating with representatives from private, government, and international agencies. Experienced in program development, funding and implementation.

Experience with regulatory agencies

Extended experience in clinical trials as coordinator of phases I through IV and with U.S. Federal Drug Administration (FDA)-regulated research, in human subject protection in the USA and in Latin America, as regulated by the World Health Organization (WHO). Experience in monitoring/auditing all aspects of clinical study initiation, performance, and completion to assure regulatory compliance with the Department of Health & Human Services (DHHS), Office for Human Research Protections (OHRP), Office for Research Integrity (ORI), and the Veterans Administration (VA) general regulations on clinical trials. Skilled in verification of contractual agreements, required facilities and equipment. Well-trained in standard operating procedures; faculty/staff training records; continued monitoring, study file review, case report forms, and all written and web-based records. Well-versed in regulations included in Health Insurance Portability and Accountability Act (HIPAA), safety programs (EH&S programs), USA Patriot Act, the U.S. Public Health Preparedness and Bioterrorism Prevention Act Multiple Project Assurance (MPA), the Code of Federal Regulations (CFR), and the International Air Transport Association (IATA) 1.5, part 6, 1 ICAO (IATA) regulations.

Other clinical research studies

Study name: Correlation between epidemiological, clinical and microbiological findings in prostitutes monitored by a Prophylactic Center in Medellin, 1991-1993. **Sponsor:** World Health Organization, Latin America. **Metro Health** –STS-92. The major goals of this project were to determine the severity of epidemiological, microbiological, and viral infections in sexual workers. Our targets included all sexually transmitted diseases (STD); we sought to make preventative care available to those seeking medical attention. 1991-1992.

Study name: Nutritional Recovery Program for patients affected by endemic pemphigus in El-Bagre Municipality. **Sponsors:** **The Secretary of State Agriculture** and the Governor's Wife's Office, Antioquia State, 1999.

Study name: Isolation of fungi in Turkish baths, gyms, recreation centers, and hotels. **Sponsor:** **Janssen Pharmaceutical**. The goal of this study was to determine the presence of fungi in Turkish baths and to evaluate the resistance to antifungal medicines, including Sporanox® and Itraconazole®. 1997-1999.

Study name: Education in psycho-prophylactic and humanized attention for families and pregnant women exposed to violence in inner cities. **Sponsor:** **Metrohealth Institute**, Saint Javier Medical Unit. 1989-1990.

Study name: Use of alternative medicine for children affected by “*bidorro*” in Indian Communities. **Sponsors:** **National Indian Organization** and **National Institute of Tropical Diseases**. 1992-1994.

Experience with biosafety regulations

- Experience with research management involving subjects and/or human, animal or cell-line derived materials.
- EHOS policies, Chemical and Biological Safety, Radiation Safety, Fire Safety and Environmental Safety. Transportation of Dangerous Goods. Trained as per 49 CFR 172.00/
- International Air Transport Association (IATA) 1.5, part 6, 1 of ICAO Technical instructions TDGR 9.2 Training material used Saf-T-Pak’s “The 2002 and 2003 comprehensive guide to shipping infectious substances.” Experience in transporting medical samples to South America, Japan, and Europe for international research cooperation.

Professional experience

- Internship, General Hospital Luz A., Castro. (1987-1988), Medellin, Colombia, South America (SA).
- General Surgeon and Physician, Saint Javier Health Service Unit. (1986-1986), Medellin, Colombia, SA.
- Doctor for the Air Patrol, volunteer (1992-2000), Colombia, South America.
- Resident of Dermatology, Institute of Health Science (CES). (1989-1992), Medellin, Colombia, SA.
- Dermatologist in private practice, Unisalud, Medellin, Colombia, SA. (1992-2001).
- Instructor. Institute of Primary Immunodeficiencies, School of Medicine, University of Antioquia (1987-1989). Medellin, Colombia, SA.
- Instructor, Colombian Institute for Tropical Diseases. Medellin, Colombia, SA (1987-1989).
- Graduate student in molecular biology and immunology, Biomedical Science Program, (BBSC). School of Medicine, University of Antioquia. Medellin, Colombia, SA (1994-1998), Medellin and Milwaukee, WI, USA. www.mcw.edu/
- Assistant Professor, Department of Dermatology and Director International Relationship School of Medicine, University of Antioquia, Medellin, Colombia, SA (1998 to 2001). www.udea.edu.co.

- Post-doctoral fellow, Assistant Research Scientist and Clinical Trials Coordinator. The Institute of Molecular Medicine and Genetics (IMMAG), and the Department of Ophthalmology, Medical College of Georgia (MCG), Augusta, GA USA (2001-2005).
- Post-doctoral Fellow, Winship Cancer Institute, School of Medicine, Emory University, Atlanta, GA USA (2005-2007). www.winshipcancer.emory.edu
- 2007-present, Director of Immunodermatology and Research, Georgia Dermatopathology Associates, Atlanta, GA USA. www.gadermpath.com/

Formal Education

- 01/1994 to 05/1998. Basic Biomedical Sciences, School of Medicine, Degree: Ph.D. Skin autoimmunity and Molecular Immunology, Medellin, Colombia, SA and Milwaukee, WI USA. Thesis: http://opac.udea.edu.co/cgi-bin/olib/?session=79234033&infile=authsecsearch.glu&nh=20&calling_page=hitlist.glu&key=115566. Bar codes: 61000001856539, and 61000001864202
- 1999. Post-doctoral fellowship in immunopathology. At Clinique & Experimental, INSERM, France, Centre Hospitalier Universitaire de Rouen, France. Immunopathology for detection of autoantibodies for different autoimmune diseases. (Rouen, France).
- 01/1989 to 12/1992. Institute of Health Sciences. Degree/ diploma: Dermatologist, Medellin, Colombia, SA. www.ces.edu.co.
- 01/198 to www.ces.edu.co to 12/1989. Institute of Health Sciences. Degree: Medical Doctor and Surgeon (M.D).
- 01/1976 to 12/1982. Saint Mary's School. Degree/diploma: Academic bachelor, Medellin, Colombia, SA.

Licenses and Post-doctoral training

- M.D and General Surgeon. #5387. 1989-present. Minister of Health, Columbia, SA.
- Dermatologist: 1992-present. ASCOFAME (Columbian Association of Medical Schools).
- Ph.D. and Doctor in Science (DrSc) #05074. 1998-present. Colombia, SA/USA.
- Post-doctoral Fellow in Immunopathology of the skin and mucosa. Medical College of Wisconsin, Milwaukee, WI. 1997.
- Post-Doctoral Fellow, Institute of Molecular Medicine and Genetics (IMMAG), Medical College of Georgia, Augusta, GA USA (2001-2002).
- Clinical studies Coordinator, Department of Ophthalmology, Medical College of Georgia, Augusta, GA USA, 2004.
- Post-Doctoral Fellow in cancer biology, cell cycle regulation and oncogenes at Winship Cancer Institute, Emory University School of Medicine, Atlanta, GA USA (2005-2007).

Job experience

- * Research Director. Georgia Dermatopathology Associates: 2006-present. 1534 North Decatur Road, NE, Suite 206, Atlanta, GA 30307. Role: implementation of a skin and autoimmunity detection program. Director and President: Dr. Michael S Howard. E-mail: mhoward@gadermpath.com. Phone 404-371-0077.
- * Post-doctoral Fellow 2005-2007. Winship Cancer Institute, School of Medicine, Emory University, Atlanta, GA. Investigated the specificity of E2F1-3, Rb, Ras/MAPK, and P53 signal transduction pathways by inducing aneuploidy and centrosome amplification. Evaluated the possible correlation with breast cancer and respective phenotypes. Department of Radiation Oncology, Division of Cancer Biology, Winship Cancer Institute. 1365-C Clifton Rd., NE, room C3084, Atlanta, GA 30322.
- * Clinical Study Coordinator retinopathies program department of Ophthalmology. Medical College of Georgia, Augusta, GA. 2004-2005. Duties: Clinical trial study coordinator. Maintained research forms, files and documentation; implemented protocols/procedures; ensured compliance with federal, state, and campus research guidelines; ensured compliance with research budgets, IRB, HAC and FDA fiscal guidelines.
- * Assistant Research Scientist and Post-doctoral Fellow. 2001-2004. Responsibilities included laboratory work, writing scientific articles and protocols and grant applications and participating in laboratory activities. Wrote the protocols for the HAC, CAURE, Institutional Biosafety Committees and for informed consent protocols. Assisted with seminars and teaching activities in both the clinical and the basic science areas. Other responsibilities included testing for the presence of dendritic cells in mice exposed to UVB radiation; in synovial fluid of patients with rheumatoid arthritis; and in sentinel lymph nodes from patients with skin melanoma. Performed flow cytometric analysis, immunohistochemistry and cell-cell co-localization in tissues. Wrote protocols for the HAC, CAURE, Institutional Biosafety Committees; designed experiments; performed immunohistopathology, cell cultures, and FACS analyses of immune and tumor cells. Other projects included testing for the presence of dendritic cells in mice exposed to ultraviolet radiation in patients with melanoma, and in sentinel lymph nodes from patients with melanoma. Wrote the protocols for the Animal Welfare Committee and maintained cell cultures. Regenerative Medicine, IMMAG, MCG, Augusta, GA.
- * Consultant to the Biomedical and Clinical Pathology laboratory 08/2000-09/2001. Employer: Hospital General de Medellin (HGM), Luz Castro de Gutierrez, Medellin, Colombia, SA. Contributed to the improvement and implementation of a skin and autoimmunity detection program. ISO 9001/2000.
- * Assistant Professor. 01/05/1998-02/07/2001. School of Medicine, University of Antioquia. Department of Medicine, Medellin, Colombia, SA. Duties included clinical, research and university-community-extension activities. Worked with the community, local, state and national governments to create a leading national program in autoimmune skin diseases. Training and mentorship of staff, medical and paramedical personnel and graduate and post-graduate students. Creation of a national protocol and databases for epidemiological, clinical and immunological studies. Outlined and handled special projects and/or assignments as requested by management, including planning; budgeting; business analysis; operational analysis; research grant and contract proposals in conformity with relevant sponsor guidelines, federal regulations, and institutional policy; preparing ad hoc financial and research funding reports pertaining to the operation of the Unit.

- ✦ Director of International Relations for the School of Medicine and Advisor to the Dean for Biomedical International Issues. 06/1998-08/2000. Created the Branch of International Relations in the School of Medicine and trained different personnel to manage the program. Created a database of local, national, and international agreements between the School of Medicine and other international institutions including Harvard and Yale Universities in the USA. Carrera 51 D 3 62-29, Medellin, Colombia, SA.
- ✦ Clinical and Surgical Dermatologist, private practice. 11/1992-08/2001. Duties and accomplishments: Attention to patients with skin diseases and interaction with a diverse group in the cosmetology area including a psychologist, dentist, plastic surgeon, cosmetic and paramedical personnel. Employer: Self-employed. Unisalud Cra 66 AA # 34-61, Medellín, Colombia, SA.
- ✦ Instructor and Interim Director, Department of Dermatology. 06/1993-12/1994. Responsibilities included caring for patients with skin diseases and contributing to the creation of the residency in dermatology at the Pontifical Bolivarian University. Employers: Universidad Pontificia Bolivariana, calle 78 B 72 A -109, Medellín, Colombia, SA. Phone: (011) 574-44415544.
- ✦ Clinical researcher. 08/1992-08/1998. Biotechnology and Biological control areas. Helped in the field of tropical diseases and worked with native communities in remote villages to develop health programs where no medical resources are available, taking into account local values and beliefs. Employer: Colombian Institute of Tropical Diseases and Indian Organization of Antioquia, Carrera 49 # 63-57, Medellin, Colombia, SA. AA 73 78; Carrera 72A # 78B-141; Medellin; Columbia, SA; 574.
- ✦ Air Patrol Physician and Dermatologist. 1991-2000. Duties and accomplishments: extensive work in clinical and microbiological infectious disease, mycology and epidemiology. This organization provides free medical and dermatological attention for people living in remote villages where no medical resources are available. Most of these villages are accessible only by small airplane. Employer: Colombian Air Patrol-Non Profit Institute (volunteer). Carrera 65 A # 13-157 of. 305, Medellin, Colombia, SA.
- ✦ Internship General Medicine and Surgery, 01/1988-12/1989. General Hospital of Medellin Luz A. S.A.

Teaching courses

Numerous; available upon request.

Volunteer experience

Numerous; available upon request.

Attendance at meetings:

Over 200 meetings attended, including regional, national, international and World Congress.

Membership in the following societies

- Society for Investigative Dermatology (SID).
- American Academy of Dermatology, International Fellow and Affiliate member.
- International Society of Dermatology, Tropical, Geographic and Ecological Society.

Journal reviewer and editorial boards

- Editorial Board, and Reviewer International Journal of Dermatology, 2008-2011. (<http://www.wiley.com/bw/journal.asp?ref=0011-9059>)
- Editorial Board and reviewer of the North American Journal of Medical Science. (<http://www.najms.org/>).2009-present
- Editorial Board and Reviewer of the Journal of Clinical Immunology and Immunopathology Reserch (<http://academicjournals.org/JCIIR>) 2009-present.
- Editorial Board and Reviewer of the N Dermatol Online. www.odermatol.like.pl
- Reviewer, New England Journal of Medicine, 2009-present. <http://content.nejm.org/>
- Reviewer, LUPUS Journal, 2009-present. <http://lup.sagepub.com/>
- Reviewer Clinical Immunology 2007-present http://www.elsevier.com/wps/find/journaldescription.cws_home/622806/description#description
- Reviewer, Journal of the American Academy of Dermatology, 2008-present. <http://www.eblue.org/>
- Reviewer, International Journal of Dermatology, 2007-present. <http://www.wiley.com/bw/journal.asp?ref=0011-9059>
- Reviewer, British Journal of Dermatology, 1998-present. <http://www3.interscience.wiley.com/journal/117>
- Reviewer, Clinical and Experimental Dermatology, 2007-present. <http://www.wiley.com/bw/journal.asp?ref=0307-6938>
- Reviewer, European Journal of Dermatology, 2007-present. <http://www.john-libbey-eurotext.fr/en/revues/medecine/ejd/sommaire.md>
- Reviewer Dermatologic Therapy 2010-present. <http://www.wiley.com/bw/journal.asp?ref=1396-0296>
- Reviewer, International Journal of Medicine. 2010-present. www.academicjournals.org/IJMMS
- Reviewer, Medical Practice and Reviews 2009-present <http://www.academicjournals.org/MPR/>

- Reviewer, International Journal for Biotechnology and Molecular Biology Research, 2009-present. (IJBMBR)
<http://www.academicjournals.org/IJBMBR>
- Reviewer Archives Dermatological Research 2010-present.
www.springerlink.com/openurl.asp?genre=journal&issn=0340
- Reviewer the Journal of Histotechnology. The National Society for Histotechnology
<http://www.nsh.org>.
- Reviewer African Journal of Pharmacy and Pharmacological Research
www.interestjournals.org/AJPPR 2010-present.
- Reviewer Journal of Clinical Medicine and Research www.academicjournals.org/JCMR
[als.org/JCMR](http://www.academicjournals.org/JCMR)
- Reviewer Journal Cutaneous Pathology. <http://www.wiley.com/bw/journal.asp?ref=0303-6987>

Immunofluorescence proficiency testing

Yearly participation in the American Society for Dermatopathology (ASDP) by providing semi-annual proficiency tests. These enable laboratories to check on the inter-laboratory reproducibility of their tests for pemphigus and pemphigoid antibodies. One of the goals of Beutner Laboratories is to maintain high standards on tests for autoimmune bullous diseases - nation wide. This test is provided by Beutner Laboratories yearly. 2007-2010. <http://www.beutnerlabs.com/testing/immunofluorescence.php>

Research experience

Feb, 2007 - Aug, 2010

Project: Further characterization of a new variant of endemic pemphigus foliaceus in El-Bagre including alterations in the vessels and in the optic nerve.

Institution: Georgia Dermatopathology Associates, Emory University and University of Chicago Dermatology, Cardiology, Ophthalmology.

Research Group: Georgia Dermatopathology Associates, Emory Ophthalmology, cardiology, electron microscopy and University of Chicago cardiology.

City: Atlanta, GA and Chicago, IL USA.

Keywords: Mechanoreceptors, nerves, hearts, cells junctions, axons autoreactivity.

Aug, 2005 - Jan, 2007

Project: Oncogenes, breast cancer, cell cycle checkpoints.

Institution: Emory University, Winship Cancer Institute.

Research Group: Radiation oncology.

City: Atlanta, GA USA.

Keywords: Oncogens, centrosome amplification, breast cancer.

July, 2004 - Jan, 2005

Project: Multiple clinical trials.

Institution: Medical College of Georgia, Department of Ophthalmology.

Research Group: Ophthalmology.

City: Augusta, GA USA.

Keywords: retina, randomized trials, phototherapy, rhuFab V2, diabetic retinopathy.

July, 2002 - July, 2004

Project: Clinical immunological and genetical features of a new variant of endemic pemphigus foliaceus in El-Bagre-Colombia, South America.

Institution: Medical College of Georgia, Institute of Molecular Medicine and Genetics.

Research Group: Cell signaling.

City: Augusta, GA USA.

Keywords: Endemic pemphigus foliaceus, skin autoimmunity, desmosomes, cell junctions.

Oct, 2001 - June, 2002

Project: Detection of IDO in melanoma sentinel lymph nodes.

Institution: Medical College of Georgia, Institute of Molecular Medicine and Genetics.

Research Group: Immunology.

City: Augusta, GA USA

Keywords: Melanoma, sentinel lymph node, Indolamine 2,3-dioxygenase (IDO).

Aug, 1999 - Sep, 2000

Project: Establish a nutritional recovery program and self-sufficiency program for the Secretary of Agriculture, in order to address issues confronted by patients affected by El-Bagre-EPF.

Institution: Secretary of Agriculture of Antioquia State and University of Antioquia, Department of Dermatology.

Research Group: Autoimmune and Bullous Skin Diseases.

City: El-Bagre, Antioquia and Medellin.

Keywords: Nutrition, endemic pemphigus foliaceus, poultry.

Jan, 1999

Project: Comparison of U de A medical students who participated in international exchange programs, in order to assess the effects of this experience in furthering their professional performance. 1999-2001.

Institution: University of Antioquia, Department of Dermatology.

Research Group: Center for Biomedical Corporation of the School of Medicine (CIM).

City: Medellin, Colombia, SA.

Keywords: Dopa Matrix.

May, 1998 - May, 1999

Project: Pilot immunological characterization of a focus of EPF in the rural area of El-Bagre.

Institution: University of Antioquia, Department of Dermatology.

Research Group: Center for Biomedical Research School of Medicine (CIM).

City: Medellin, Colombia. SA.

Keywords: Endemic pemphigus foliaceus, immunoblotting, immunoprecipitation, ELISA, Direct and indirect immunofluorescence.

May, 1998 - June, 2001

Project: Complex segregation analysis and immunological features in individuals affected by endemic pemphigus foliaceus (EPF) in El-Bagre.

Institution: The Embassy of Japan in Colombia and University of Antioquia, and department of Dermatology, University of Antioquia.

Research Group: Autoimmune Bullous Diseases.

City: Medellin and Bogota, Colombia.

Keywords: Genetics, autoimmunity, pemphigus.

June, 1997 - June, 1998

Project: Creation of a special Internship in the Schools of Medicine, Bacteriology, Dentistry, Clinical Laboratory and Pathology.

Institution: University of Antioquia, Department of Dermatology.

Research Group: Center for Biomedical Research School of Medicine (CIM),

City: Medellin, Colombia, SA.

Keywords: Internship, research.

Apr, 1996 - July, 2000

Project: Clinical-epidemiological characterization of EPF disease in El-Bagre, Colombia.

Institution: University of Antioquia, Department of Dermatology.

Research Group: Immunodermatology and Bullous Diseases. Center for Biomedical Research School of Medicine (CIM).

City: Medellin, Colombia, SA.

Keywords: Epidemiology and clinical features of a new variant of endemic pemphigus foliaceus.

Jan, 1991 - Dec, 1992

Project: Correlation between epidemiological, clinical and microbiological findings in prostitutes monitored by a prophylactic Center in Medellin, 1991-1992. Metrohealth – STDS-922.

Institution: Metrosalud, Medicine.

Research Group: Sexual transmitted diseases, MetroSalud.

City: Medellin, Colombia, SA.

Keywords: Sexually transmitted diseases.

Books editor

- Invited editor for the book skin biopsies (www.intechweb.org), leading Open Access publisher of scientific books and journals in the STM fields 2011, 34 chapters.

Honors/awards/speaker invitation/Organizing members

- Invited speaker to the Biomarkers BIT's 2nd Annual Congress of (WCB-2011). Theme: Making Direct Bioanalysis Nimble, November 14-16, 2011. Beijing International Convention Center, China <http://bitlifesciences.com/wcb2011/default.asp>
- Invited speaker to the Pharma-2011 International Conference & Exhibition on Pharmaceutical Regulatory Affairs, Dates: 6-7 September 2011, Venue: Baltimore, USA, Website: <http://omicsonline.org/pharma2011>. Operated by Editors : Journal of Bioequivalence & Bioavailability and Journal of Bioanalysis & Biomedicine, Hosting Organization: OMICS Publishing Group.
- SACOOR MEDICAL GROUP invitation to be research expert consultant the leading National and International Experts involved with the treatment of Iron Deficiency Anemia following the rules of the ESOMAR International code of practice, the British Healthcare Business. Intelligence Association guidelines and CASRO (Council of American Survey Research Organization) guidelines. Registered with the Government Office of the Information Commissioner in the UK. West Byfleet, Surrey, UK, March 2011.
- Invited speaker to the EPS Montreal International Conference on Emergency Medicine 2011, to be held in Montreal, Canada from June 1st to 2nd, 2011.
- Invited reviewers International Research Journal Of Microbiology www.internationalresearchjournals.org/IRJM. march2011.
- Invitation to become a member of the *World Journal of Dermatology* Editorial Board. <http://www.wjgnet.com/2218-6190/index.htm> Chaoyang District, Beijing 100025, China. April 2011. Lian-Sheng Ma, President and Editor-in-Chief World Series Journals. Web: <http://www.bitlifesciences.com/cemd2011/default.asp>
- Invited speaker to the BIT's 4th Annual Congress and Exposition of Molecular Diagnostics (CEMD).-Overcome Misinterpretation of Symptoms. Venue: Beijing, China; Time: September 22-24, 2011. Web: <http://www.bitlifesciences.com/cemd2011/default.asp>
- Invitation to Associate as Organizing Committee: International Conference and Exhibition on Clinical Research: Dermatology, Ophthalmology and Cardiology 4-6 July 2011 San Francisco, USA. <http://www.dermopedia.org/event/international-conference-on-clinical-research-dermatology-ophthalmology-and-cardiology-2011>.
- Invited editor for the book skin biopsies (www.intechweb.org), leading Open Access publisher of scientific books and journals in the STM fields 2011, 34 chapters.
- Invited speaker to the "3rd International Conference on Drug Discovery and Therapy" (3rd ICDDT 2011) to be held in Dubai, UAE, February 7-10, 2011, with Dr. Ferid Murad, Nobel Laureate as the conference President. www.icddt.com/french/index.htm
- Invited speaker to The International Medical Partners (EPS) Global First International Energy Source Forum, in Kunming, Yunnan, China, November 20 -21, 2010 with Yao Lu, MD, PhD as executive chair.
- BIT Life Sciences' First Annual Tetra-Congress of MolMed-Biomarkers Congress 2010. November 10-12, 2010, Shanghai, China. Tetra parallel symposiums: Business forums on molecular medicine, business development program, first congress of personalized

- medicine, first congress of biomarkers, third annual congress of exposition of molecular diagnostics.
- Journal of Cutaneous Pathology (JCP) Continual Medical Education (CME) Exam; AMA PRA Category 1 Credit™. July 2010.
 - Invited speaker's international congress – Congress and expo of molecular diagnostics BIT's Tetra-Congress of MolMed-Biomarker and the 1st World congress of biomarkers 2010, in Shanghai China. Shanghai Everbright Convention Center, November 10-12, to deliver an oral presentation at Track B4-13: CE, 2D GE/PAGE, SAGE and Mass Spectrometry. www.bitlifesciences.com/mdpm2010/ - China
 - Senator at Large, Faculty Senate Executive Committee, School of Medicine, Medical College of Georgia. 2003-2004.
 - Advisor, The International Pemphigus Society, 2003-2008.
 - President, International Club, 2003. Medical College of Georgia.
 - Contributor, The American Society for Dermatopathology Reference Library. Aimed at discovering a new variant of endemic pemphigus foliaceus, Dec 2003.
 - Multiple newspaper and web-articles based on our scientific work, at the national and international levels.
 - Authorship and creator, from the Minister of Health: a Treatment Manual for Patients Affected with Autoimmune Skin Diseases, for national, state and local levels. 1999-2000.
 - First Prize Winner for the best skin biology research presented at the *XXIII National Colombian Dermatological, XV Bolivarian Congress of Dermatology*. 1999.
 - First Prize Winner for discovering a new endemic disease, as published by the *IV Colombian-Venezuelan Dermatological Societies*. Research focused on the discovery of a new autoimmune skin disease that is endemic to a region of Colombia and is named *Pemphigus Abreu-Manu*. Pereira, Colombia, 13/08/2000.
 - Leadership of the Best Program Example of regionalization, reported for the University of Antioquia. 1998-2000.
 - First Prize Winner for the best clinical-epidemiological work presented at the *XV Bolivarian Congress of Dermatology* (Peru, Ecuador, Colombia, Panama, and Venezuela). 1999.
 - Research award granted to foreign physicians by the *VIII International Congress of Dermatology* in Cairo, Egypt. April 16-21, 1999.
 - International fellowship award for best Latina American students administered by LASPAU (affiliated with Harvard University) that designs, develops, and implements academic and professional exchange programs on behalf of individuals and institutions in the United States, Canada, Latin America, and the Caribbean. 1995-1997.
 - Overseas Travel Award granted by *European Society for Dermatological Research (ESDR)*, *Japanese Society for Investigative Dermatology (JSID)* and *The Society for Investigative Dermatology (SID)*, for Poster in the Third Joint Meeting of the European Society for Dermatology. Cologne, Germany, July 5, 1998.
 - The Experimental Biology 1998 Joint Annual Meeting International Poster award. San Francisco, California, USA, April 19, 1998.

- The Medical College of Wisconsin Graduate Student's Award, given by the 58th Congress of the Society of Investigative Dermatology, Washington DC. April, 1997.
- Winner of a scholarship given by the *Colombian Institute for Development of Science and Technology "Francisco Jose de Caldas"*, *Colciencias* for the best students, V Convocation. 1995, Columbian Government for Ph.D. studies, 1995-1997. *Colciencias is Colombia's equivalent to the National Institutes of Health (NIH) in the USA. Among 50 million Colombians, any student can apply for this grant (less than 50 are granted yearly).*
- Winner of the award for best international dermatology resident case-reports *18TH World Congress of Dermatology*. New York USA May 1992. Grant award from *Jansen Pharmaceutical*. New York, NY USA 1992.
- Saint Gabrielle Martin Award for best high school student, 1989, Saint Mary School College.
- Martial Arts Karate-Do, Black belt. *Consecutive National Championship Kata modality*, 1977-1982.

Some of the articles written about Dr. Abreu's work

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- Baker, Toni. "Rare Disease Endemic in South America is Model for Studying Autoimmunity" January 2004. Medical College of Georgia.
 - <http://www.mcg.edu/news/2004NewsRel/AbreuVelez.html>.
 - <https://my.mcg.edu/portal/page/portal/News/archive/2004/Rare%20Disease%20Endemic%20in%20South%20America%20Is%20Model%20for%20Studying>
 - "MCG's Global reach" Augusta Chronicle Editorial Staff. February 7, 2004.
 - https://augustachronicle.com/stories/021804/edi_089-6947.shtml from February 18, 2004 printed edition.
 - Medical College of Georgia, February 19, 2001. Rare Disease Offers Model of Studying Autoimmunity" by Baker, Toni.
 - "Isolated Disease Wins Doctor Honor"" by Tom Corwin staff writer, Augusta Chronicle, February 16, 2004.
 - Science Daily <http://www.sciencedaily.com>. Rare disease endemic in South America is model for Studying Autoimmunity. *ScienceDaily* is one of the Internet's leading online magazines and Web portals devoted to science, technology, and medicine in the world. The free, advertising-supported service brings you breaking news about the latest discoveries and hottest research projects in everything from astrophysics to zoology. For three years in a row, *ScienceDaily* has been chosen by the editors of Popular Science magazine as one of the "Top 50 Web Sites."
 - Centre National de la Recherche Scientifique, France (National Center for Scientific Research, France). <http://www.cnrs.fr/index.html://cat.inist.fr/?aModele=afficheN&cpsidt=15185800>. <http://cat.inist.fr/?aModele=afficheN&cpsidt=15185800>. Centre National de la Recherche Scientifique, France (National Center for Scientific Research, France). This is a government-funded research organization, under the administrative authority of France's Ministry of Research.

- The institution aims to carry out research capable of advancing knowledge and realizing social, cultural, and economic benefits for society.
- Medline update for patients <http://www.uptodate.com/patients/content/abstract.do?topicKey=~d9Mkcft4AuNx4Z0&refNum=41>
 - Pemphigus Foliaceus, Article Last Updated: May 12, 2008. Article by Robert A. Schwartz MD <http://www.emedicine.com/derm/topic318.htm> From Web Med.
 - The Pemphigus and Pemphigoid Society Recovery. “Dr Abreu Velez finds new variant of PF in Colombia” 05/2004. The Pemphigus & Pemphigoid Society has merged with the International Pemphigus Foundation to form the International Pemphigus & Pemphigoid Foundation. IPPF office: International Pemphigus & Pemphigoid Foundation. 2701 Cottage Way #16, Sacramento, CA 95825, (916) 922-1298, (866) 628-1298, fax: (916) 922-1458, 1-916-922-1298, pemphigus-@-pemphigus.org
 - Newspaper el Colombiano. Article, “The tragedy to die for an unknown cause”. Medellin May 25, 1994 Colombia, SA. La tragedia de morir sin saber de que. By Marleny Velez Castano. This newspaper is the most prestigious in the Antioquia State of Colombia. Web site: <http://www.elcolombiano.com/>
 - Newspaper El tiempo, Medellin, Colombia, SA. Article, “The mark of pemphigus” By Nestor Alonso Lopez, Special Report August 12, 2001. “Marcados con la huella del penfigo”. This newspaper is the most prestigious in Colombia. Web site: <http://www.eltiempo.com/>

Some of Dr. Abreu’s scientific networks and web citations sites

- [www.labmeeting.com/papers/author/Abreu Velez-am;](http://www.labmeeting.com/papers/author/Abreu%20Velez-am;)
- www.sciencedirect.com/science?
- [pipl.com/directory,](http://pipl.com/directory)
- [www.sidnet.org/donors.aspx,](http://www.sidnet.org/donors.aspx)
- [sciencestage.com,](http://sciencestage.com)
- [www.researchgate.net,](http://www.researchgate.net)
- [www.nextbio.com,](http://www.nextbio.com)
- [www.HealthGrades.com,](http://www.HealthGrades.com)
- [lib.bioinfo.pl/blogs/index,](http://lib.bioinfo.pl/blogs/index)
- [www.ophsource.org/periodicals,](http://www.ophsource.org/periodicals)
- [www.novoseek.com,](http://www.novoseek.com)
- [www.biomedexperts.com,](http://www.biomedexperts.com)
- [proteins.wikiprofessional.org,](http://proteins.wikiprofessional.org)
- www.tripdatabase.com
- [www.labome.org/expert,](http://www.labome.org/expert)
- [www.medworm.com,](http://www.medworm.com)
- [www.curehunter.com,](http://www.curehunter.com)
- [en.scientificcommons.org,](http://en.scientificcommons.org)
- [www.biomedsearch.com;](http://www.biomedsearch.com)

- www.openj-gate.com
- <http://myprofile.cos.com/abreuvelez>
- http://www.autoimmunity-network.com/profile/AnaMariaAbreuVelez?xg_source=msg_wel_network
- <http://www.intramed.net/perfil/miperfil.asp>

Publications

Abreu Velez AM, Zhe J, Howard MS, Dudley SC. Heart immunoreactivity in patients affected by a new variant of endemic pemphigus foliaceus in El-Bagre, Colombia, South America. Ms submitted to *Clin Immunol*.

Abreu Velez AM, Googe P, Howard MS. Autoantibodies to melanocytes and characterization of melanophages in patients affected by a new variant of endemic pemphigus foliaceus. Ms in press. *J Cutan Pathol*.

Abreu-Velez AM, Brown V, Howard MS. Neural, vessels and sweat glands immune reactants in a case of bullous pemphigoid. Ms in preparation *NAJMS*.

Abreu-Velez AM, Klein AD, Howard MS. LAT, EGFR -pY197, PCNL2, CDX2, HLA-DPDQDR, bromodeoxyuridine, JAM-A, and ezrin immunoreactants in a rubbed spongiotic dermatitis. Ms submitted to *N Dermatol Online*.

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. Ms in press. *N Dermatol Online*.

Abreu Velez AM, Howard WR, Howard MS. Upregulation of anti-human ribosomal protein S6-P240, topoisomerase II α , cyclin D1, BCL-2 and anti-corneal antibodies in acute psoriasis. Ms in press, *N Dermatol Online*. 2011; 3(2).

Abreu Velez AM, Howard MS, Gao W, Grossniklaus HE, Jiao Zhe, Arias LF, Dudley SC, Smoller B. Varicella-zoster virus (VZV), and alpha 1 antitrypsin: a fatal outcome in a patient affected by endemic pemphigus. Ms in press. *Int J Dermatol*.

Abreu Velez AM, Yi, H, Gao W, Griffin GJ, Smoller B Grossniklaus HE, Howard MS. Dermatitis herpetiformis bodies: amalgamated immunoglobulins and complement, colocalizing with desmoplakins 1 and 2, p0071 and ARVCF in one patient. Ms accepted *BJD*

Abreu Velez AM, Smith G Jr, Howard MS. Subcorneal pustular dermatosis (Sneddon Wilkinson) with multiple immunoreactants. Ms in press to. *International journal of clinical and experimental Pathology*.

Abreu Velez AM, Howard MS, Smoller B. Antibodies to pilosebaceous units, in a new variant of pemphigus foliaceus (a.k.a. pemphigus Abreu-Manue). Ms in press *Eur J Dermatol*.

Abreu-Velez AM, Klein AD, Howard MS. Survivin, p53, MAC, complement/C3, fibrinogen and HLA-ABC within hair follicles in follicular degeneration syndrome. *North Am J Med Sci*. 2011 June, Volume 3. No. 6.

Abreu-Velez AM, Smith G 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, Loebl AM, Howard MS. Spongiotic dermatitis with a mixed inflammatory infiltrate of lymphocytes, antigen presenting cells, immunoglobulins and complement. *N Dermatol 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, Giraldo JG, Howard MS. IgG bullous pemphigoid with antibodies to IgD, dermal blood vessels, eccrine glands and the endomysium of monkey esophagus. *N Dermatol 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. Abreu-Velez AM, Howard MS, Yi H, Gao W, Hashimoto T, Grossniklaus HE. *Clin Immunol*. 2011 Jan 6. [Epub ahead of print].

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

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: 538-541.

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: 433-437.

Abreu Velez AM, Howard MS, Smoller B. Atopic dermatitis and possible polysensitization, monkey esophagus reactivity. *North Am J Med Sci*. 2010; 2: 336-340.

Abreu Velez AM, Howard MS. Diagnosis and treatment of cutaneous paraneoplastic disorders. *Dermatologic Therapy*. 2010;23: 662–675.

Abreu Velez AM. Multiple autoimmune syndrome in a Japanese patient with pemphigus foliaceus. *Eur J Dermatol*. 2010;20:547.

Howard M, 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 Pathol*. 2010 Feb; 37(2):222-30.

Abreu Velez AM, Howard MS, Hashimoto T, Grossniklaus. 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 Dermatol*. 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;2:114-125.

Abreu Velez AM, Klein Deo, Howard MS. Autoreactivity to sweat glands and nerves in clinical scabies infection. *North Am J Med Sci* 2010; 2: 422-425.

Abreu Velez AM, Smith G Jr, Howard MS. Vimentin compartmentalization in discoid lupus. *North Am J Med Sci*. 2010; 2:106-110.

Abreu Velez AM, Jackson B, Howard MS A. Deposition of immunoreactants in a cutaneous allergic drug reaction. *North Am J Med Sci*. 2009; 1:180-183.

Abreu Velez AM, Howard MS, Hashimoto K, Hashimoto. 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 Dermatol Res*. 2009 Oct;301(10):711-8.

Abreu Velez AM, Howard MS, Loebel A. Autoreactivity to sweat and sebaceous glands and skin homing T cells in lupus profundus. *Clin Immunol*. 2009 132, 420-424.

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: 169-179.

Abreu Velez AM, Giraldo J, Howard MS. J. Antigen presenting cells in a patient with hair loss of and systemic lupus erythematosus. *North Am J Med Sci.* 2009;1: 205-210.

Abreu Velez AM, Smith G Jr, Howard MS. Neutrophil extracellular traps (NETS), IgD, myeloperoxidase (MPO) and antineutrophil cytoplasmic antibody (ANCA) associated vasculitides. *North Am J Med Sci.* 2009;1: 309-313.

Abreu Velez AM, Howard MS, Restrepo M, Smoller B. 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 Pathol.* 2010 Aug;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. 117-120.

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.* 2010 Jan-Feb;20(1):74-81.

Abreu Velez, IC Avila, J Segovia, MM Yepes, WB Bollag. Rare clinical form in two patients affected by a new variant of endemic pemphigus in northern Colombia. *Skinmed*, November 1, 2004; 3(6): 317-21.

Abréu Vélez AM, Yepes MM, Patiño PJ, Bollag WB, Montoya F. A cost-effective, sensitive and specific enzyme-linked immunosorbent assay useful for detecting a heterogeneous antibody population in sera from people suffering a new variant of endemic pemphigus. *Arch Dermatol Res.* 2004 Mar;295(10):434-41.

Abréu Vélez AM., Abréu Vélez CE, Patiño PJ, Montoya-Maya F, Bollag B W. The tryptic cleavage product of the mature form of the bovine desmoglein 1 ectodomain is one of the antigen moieties immunoprecipitated by all sera from symptomatic patients affected by a new variant of endemic pemphigus. *Eur Journal of Dermatol* Jul-August, 13; 359-66, 2003.

Hisamatsu Y, Abreu Velez AM, Amagai M, Ogawa MM, Kanzaki T, Hashimoto T. Comparative study of autoantigen profile between Colombian and Brazilian types of endemic pemphigus foliaceus by various biochemical and molecular biological techniques. *J Dermatol Sci.* 2003 Jun; 32(1):33-41.

Abréu Vélez AM., Warfvinge G. Leon-Herrera W., Abréu Vélez, Montoya-Maya F, Hardy D, Bollag B. W, Hashimoto K. Detection of mercury and other undetermined materials in skin biopsies of endemic pemphigus foliaceus. *Am J Dermatopathol.* 2003 Oct;25(5):384-91.

Abréu Vélez, AM, Beutner, E, Montoya F, Bollag WB, Hashimoto T. Analyses of autoantigens in a new form of endemic pemphigus foliaceus in Colombia. *J Am Acad Dermatol.* Oct (49), 4:609-614, 2003.

Abreu Vélez, AM, Hashimoto T, Tobón S, Londoño ML, Montoya F, Bollag, WB, Beutner, E. A unique form of endemic pemphigus in Northern Colombia. *J Am Acad Dermatol*. Oct (49), 4:609-614, 2003.

Abreu Vélez AM, Prada S. Actualización en epidermólisis ampollosa-generalidades, formas clínicas y abordaje terapéutico-. *Rev Soc Col Dermatol*, 1999; 7: 16-23.

Abreu Vélez AM, Restrepo R. Alopecia areata universal tratada con ciclosporina vía oral. *Rev Soc Col Dermatol*, 1995; 4: 135-136.

Abreu Vélez AM, Yepes MM, and Vélez F. Recapitulación de los Aspectos Clínicos de Pénfigo Foliáceo, Enfermedad Presente en un Foco Situado en el Área Rural de El-Bagre, Antioquia, Colombia. *Revista Epidemiológica de Antioquia* Jan 1999, 24 No 1 y 2 p. 110-124. Jul 2000.

Abreu Vélez AM. Actualización en Pénfigos. *Ascofame*. Programa de Actualización Médica Permanente. 2000: No 45, 6:8-13.

Abreu Vélez AM. Pénfigo Foliáceo Endémico: Situación en Colombia. *Acta Medica Colombiana*, 1996 Jan- Feb; 21(1): 27-34.

Abreu Vélez AM. Tobon R. Correlación entre la epidemiología, clínica y el laboratorio en un Centro Profiláctico de la ciudad de Medellín, 1991-1992. *Rev Soc Col Dermatol*, 1993; 2: 95-104.

Abreu Vélez AM, Lema O, Mesa A, Ortega J, Trujillo C. Vitiligo localizado, poliosis en parche, hipoplasia del tercio medio de la cara y fibrosis pulmonar: Un nuevo síndrome o asociación. *Rev Soc Col Dermatol*, 1993; 2: 44-45.

Abreu Vélez AM, Gaviria M, Tamayo C. Aislamiento de dermatofitos en baños sauna y turcos Medellín 1991. *CES Medicine*, 1992; 6: 67-70.

Abreu Velez AM Ramirez JI. Sepsis and meningitis in preterm babies at the General Hospital of Medellín. Ces Medicine thesis. 1989

Abstracts

- Neural System Antigens Are Recognized by Autoantibodies from a New variant of endemic pemphigus POSTER presentation at the 2nd Continental Congress of Dermatology 6 – 9 July 2011, St. Petersburg.
- Abreu Velez, AM, Jiao Z, Gao W, Howard MS, Grossniklaus HE, Arias Restrepo LF, Dudley SC. Jr. 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. 70th SID Annual Meeting, Society for Investigative dermatology 2010, May 5-8th, Atlanta, GA, USA.
- Abreu Velez AM, Velez F, Rivera N, Villa E, and Arcos B Mauricio. “Complex segregation analysis and linkage disequilibrium in individuals affected by endemic pemphigus foliaceus in El-BagreEl-BagreEl-Bagre, Antioquia, Colombia. *Biomed Science*, 2000;4:10a.
 - Abreu Velez AM, Yepes MM, and León, Walter. Pemphigus Abreu-Manu. A lost link in skin autoimmunity in endemic fashion. *J Invest Dermatol*; 2000;114:4, 846a.
 - Abreu Velez AM, Edinson Villa, and Jaramillo D. Epidemiology of bullous disease in a tropical country. *J Invest Dermatol*; 2000;114, 886a.
 - Abréu Vélez AM, Velez F, Rivera N, Villa E, and Arcos B Mauricio. Complex segregation analysis and linkage disequilibrium in individuals affected by endemic pemphigus foliaceus in El-Bagre, Antioquia Colombia. The XXXV National Congress of Biological Science, October 10-13th, Medellín Antioquia, Colombia. Book of abstracts.
 - Abreu Velez AM, Velez F, and Arroyave JE, Complex segregation analysis in individuals affected by endemic pemphigus foliaceus in El-Bagre, Colombia. *The VIII ICD Book of Abstracts* El Cairo, Egypt. The International Society of Dermatology and MediCAD Multimedia Co. 1999;4:33-34.
 - Abreu Velez AM, León Walter, and Hashimoto K. An autoimmune skin disease with simultaneously acantholysis between keratinocytes and separation of the basal membrane zone of the skin. *J Invest Dermatol* 1999; 112:614.a.
 - Abreu Velez, AM, Juan G. Maldonado, Andres Jaramillo, Pablo J. Patiño, Stella Prada, Leon Walter, Jorge Botero, Gunnar Warfvinge and Fernando Montoya. Description of an unusual focus of endemic pemphigus foliaceus in a rural area of El-Bagre, Colombia. *FASEB J*. 1998;12:287a.
 - Abreu Velez AM, Maldonado JG, Jaramillo A, Botero J, and Montoya F. Description of an unusual focus of endemic pemphigus foliaceus in a rural area of the municipality of El-Bagre, Colombia, South America. *J Invest Dermatol*; 1998; 110a.
 - Abreu Velez AM, Maldonado JG, Jaramillo A, Patiño PJ, Prada S, Leon W, and Montoya F. Immunological characterization of a unique focus of endemic pemphigus foliaceus in the rural area of El-Bagre, Colombia. *J Invest Dermatol* 1998; 110:516a.
 - Leon W, Abreu Velez AM, Warfvinge G, and Montoya F. University of Antioquia, Colombia and Lund University, Sweden. Histopathological features and mercury deposits in skin biopsies from endemic pemphigus foliaceus (EPF) patients from the rural area of El-Bagre, Colombia. *J Invest Dermatol*; 1998; 110:517a.
 - Leon-Herrera W, Abréu Vélez AM Warfvinge G, Montoya F. University of Antioquia, Colombia and Lund University, Sweden. Histopathological features and mercury deposits in skin biopsies from endemic pemphigus foliaceus (EPF) patients from the rural area of El-Bagre, Colombia. *Memories of the Third Joint Meeting of the European Society for Investigative Dermatology, Japanese Society for Investigative Dermatology and for the Society for Investigative Dermatology*, Cologne, Germany, May 10, 1998, p.41.

- Abreu Vélez AM, Olague-Marchan M, Lopez-Swidorski A, Mascaro JM, Giudice GJ, Diaz LA. Characterization of 45 kDa epidermal tryptic peptide recognized by pemphigus foliaceus sera. *J Invest Dermatol*, Abs; 108 541.1997.

Reviews and chapters

Abreu Velez AM. Actualizacion en Pénfigos (Update in pemphigus). Programa de Actualización Médica Permanente *ASCOFAME* 2002; 6:8-13.

Abreu Velez AM, Leishmaniosis in: *Fundamentals of Pediatric, Infectious and Respiratory Diseases*. Chapter 76. Tomo II. (Correa JA et. al. Edits. 1994. CIB, Medellín, Colombia.

Abreu Velez AM. Project for preparation for the delivery. Special Program. Research Committee *Metrosalud*. (Metrohealth). 1989;10:1230-145.

Abreu Velez AM, Franco I, and Sierra A. Sepsis, meningitis and risk factors in the General Hospital of Medellín, January- December 1988. *Med school Dissert CES Library* 1988;15:120-140.

Corporación para Investigaciones Biológicas (CIB): Abreu Vélez, Ana María. *Fundamentos de pediatría-Enfermedades Infecciosas y Respiratorias- Volumen II Chapter 76- Leishmaniosis-* . 2003.

Other training

-
- Confocal Microscopy, Winship Cancer Institute, workshop May 2010, Emory University, Atlanta, GA.
 - Immune electron microscopy stains and silver enhancement workshop, University of Florida at Gainesville, Florida 2010, Aurion and Electron Microscopy Science (EMS), 2010.
 - University of North Carolina Confocal Microscopy course 2008, NC, USA.
 - Confocal Microscopy in cancer and in autoimmune disease, Winship Cancer Institute, 2005, 2006, Emory University, Atlanta, GA.
 - Investigator Trained Program, Pfizer pharmaceuticals (ADR, AE, CFR, CIOMS): all aspects of clinical trials. Atlanta, GA. 2006.
 - Experimental lab regulation in animal research. Emory, Atlanta, GA. 2006.
 - Concepts in Clinical Research, Behavioral Research, Biomedical Research, Human Subjects Protection and Drug Regulation Development, fall 2001, 2003. Annual Safety Refresher Seminar (2002, 2003, 2004). MCG, Augusta, GA.
 - Transgenic mouse development. Medical College of Georgia, Institute of Molecular Medicine and Genetics (IMMAG), Jan 2004.

- Right-To-Know chemical specific training program: www.usg.edu/rtk/training/rtk_basics (2002, 2003, 2004). Right-To-Know Basic Awareness Online Training Program-www.usg.edu/rtk/training/chemical (2002, 2003, 2004).
- Laboratory Safety Course, Code 17 (Safety Public Division). MCG, Augusta, GA.
- Occupational Health Training for personnel working with laboratory animals, 08/13/2002, 2003, 2004. MCG, Augusta, GA.
- EHOS annual refresher courses: (2002, 2003, 2004). MCG, Augusta, GA.
- Chemical and Biological Safety, Radiation Safety, Fire Safety and Environmental Safety, brief overview of USA Patriot Act and the US Public Health Preparedness and Bioterrorism Prevention Act (2003, 2004). MCG, Augusta, GA.
- Course training in Transportation of Dangerous Goods. Trained as per 49 CFR 172.00/ International Air Transport Association (IATA) 1.5, part 6, 1 of ICAO Technical Instructions TDGR 9.2. Training material used Saf-T-Pak's "The 2002, 2003, 2004 comprehensive guide to shipping infectious substances." MCG, Augusta, GA.
- Training in "The Health Insurance Portability and Accountability Act" (HIPAA), (2003, 2004). HIPAA. MCG, Augusta, GA.
- Biostatistics, Computer Science and epidemiology courses in France and in Colombia.
- French courses.
- Electron Microscopy, under the guidance of Dr. Ken Hashimoto, Wayne State University, Detroit, MI USA. (1998).

Mentorship to several pre-graduate, postgraduate and master's dissertation

From several areas of biomedical sciences (biology, genetics, dermatology, medicine, information systems). Mentored students at the following universities: University of Antioquia, Polytechnic Grancolombian, University Pontifical Bolivarian, Institute of Health Science, MCG, Institute of Health Science, Medical College of Georgia (MCG) and Emory University School of Medicine.

Participation in Continuing Medical Education (CME) programs

- The Massachusetts Medical Society, publisher of the New England Journal of Medicine an educational activity as part of the NEJM Manuscript Review CME Program between July 1, 2010 and December 30, 2010; awarded 1 AMA PRA Category 1 Credit(s).TM
- The American Society of Dermatopathology (AMSD) 2010 Annual meeting, 10/7/2010-10/10/2010, Atlanta GA, Awarded 34 AMA PRA (American Medical Academy), (AMA) category 1 credits.
- Society for Investigative Dermatology (SID) 2010 Annual meeting, 5/5/2010-5/8/2010, Atlanta GA, Awarded 37.75 AMA PRA (American Medical Academy), (AMA) category 1 credits.

- Alabama Dermatology, 2010, Destin Florida. June 2009. Awarded 16.0 AMA PRA (American Medical Academy), (AMA) category 1 credits.
- Society for Investigative Dermatology, Atlanta GA, 2010, Annual Meeting, May 5-8. Awarded 35 Hours.
- The Massachusetts Medical Society, publisher of the New England Journal of Medicine an educational activity as part of the NEJM Manuscript Review CME Program between July 1, 2009 and December 31, 2009; awarded 2 AMA PRA Category 1 Credit(s).TM
- Alabama Dermatology, 2009, Destin Florida. June 2009. Awarded 16.0 AMA PRA (American Medical Academy), (AMA) category 1 credits.
- Georgia Society of Dermatologist 54th annual meeting, Ponte Vedra, Florida, June 2009, American Medical Academy), (AMA) category 1 credits. Awarded 10.5 AMA PRA.
- Piedmont Dermatology Society of South Carolina. Thirtieth Annual congress, Grove Park Inn, Asheville NC, Oct 2008.
- University of Texas Southwestern Medical Center. Participation in the educational activity entitled: The prevention and management of infections in patients receiving TNF inhibitors. Savannah, GA 6/7/2008. Awarded 2.0 (American Medical Academy) AMA PRA, category 1 credits.
- The Georgia Society of Rheumatology. Continuing Medical Education (CME) programs. Savannah, GA, 6/7/2008. Awarded 8.0 AMA (American Medical Academy) category 1 credits.
- The Dermatology Foundation, Naples, Florida, May, 2008 Dermatology Foundation Clinical Symposia, Advances in Dermatology. Awarded 16.0 AMA PRA category 1 credits.
- Pfizer Investigator Training Program Workshop Certificate of Completion, Atlanta, GA, Nov 2006.
- Physicians Who Care & American Academy of Dermatology. Alabama Dermatology on the Beach, June 2008, Sandestin, Florida. Awarded 16.0 AMA PRA (American Medical Academy), (AMA) category 1 credits.
- Yale CME Continuing Medical Education, New Haven, CT, Yale University School of Medicine. DF Clinical symposia: Advances in Dermatology, Amelia Island, Florida, April, 2008. Awarded 16.0 AMA PRA category 1 credits.
- 56th Annual Montagna Symposium on the biology of the skin. Oregon Health & Science University, School of Medicine, Division of Continuing Medical Education (CME) Oregon, Portland, October 2007. Awarded 11.5 AMA PRA category 1 credits.

Programs and projects created and funded:

<p>Project Number: IMMNODEMATOLOGY UNIT-1999/20001 PI: Abréu Vélez AM Source: State Tax Exemption Program of Antioquia (completed). Title of Project: Creation of an immunodermatology, and oral pathology and keratinocyte units at the School of Medicine, University of Antioquia (U de A). The major goals of this project were: 1. To establish a tissue bank including blood and other tissues. 2. To develop a clinical research unit to study different skin and oral mucosa immunological-related diseases and create a research unit for academic, clinical, and private diagnostic services and research. Amount funded: 100'000.000, pesos.</p>
<p>Project Number: AJC-EPF/ (completed)._1999/20001 PI: Abréu Vélez AM. Funded by: The Embassy of Japan in Colombia. Title of Project: Complex segregation analysis and immunological features in individuals affected by endemic pemphigus foliaceus (EPF) in El-Bagre. The major goals of this project were: To attempt to identify the possible role of major genes, multifactorial inheritance and cohort effects in the susceptibility to EPF. Complex segregation analysis (CSA) in people affected by EPF. Amount funded: 50'000.000, pesos.</p>
<p>Title of Program-Project: Creation of a special internship in the Schools of Medicine, bacteriology, dentistry, clinical laboratory and pathology. U de A, Medellin, Colombia, SA. PI: Abréu Vélez AM. Funded by: Ministers of Education and Health of Colombia. The major goal of this project was: To prepare biomedical students for careers in science. Other objectives included teaching them to cooperate with students in other fields.</p>
<p>Title of Program-Project: Application for creating a Dermatology-residence Program in the Schools of Medicine, Pontifical Bolivarian University, Medellin, Colombia, SA. Co-PI: Abréu Vélez AM Funded by: Ministers of Education and Health of Colombia The major goal of this project was: To lead the best medical students to become dermatologists-scientists.</p>
<p>Project Number: CIM-EPF-1/ (completed). 1997-1998. PI: Abréu Vélez AM. Funded by the Office of the VP of Research of the U de A. Title of Project: Clinical-epidemiological characterization of EPF disease in El-Bagre, Colombia. The major goal of this project was: To identify and characterize the endemic nature of a new variant of El-Bagre-EPF. Amount funded: 5'000.000, pesos.</p>
<p>Project Number: CIM-EPF-2/ (completed). PI: Abréu Vélez AM. Funded by: Center for Biomedical Research School of Medicine (CIM) of the University of Antioquia, Medellin, Colombia, SA. Title of Project: Pilot immunological characterization of a focus of EPF in the rural area of El-Bagre. The major goal of this project was: To identify major autoantigens in people with a new variant of EPF in El-Bagre and to compare the autoantigens with those described for other types of pemphigus. Amount funded: 9'000.000, pesos.</p>
<p>Project Number: Metrohealth –STDS-92/ (completed). PI: Abréu Vélez AM Funded by: Funded by Metrosalud, Medellin. Title of research project: Correlation between epidemiological, clinical and microbiological findings in prostitutes monitored by a prophylactic center in Medellin, 1991-1992. The major goal of this project was: To determine epidemiological characteristics; to evaluate the habits related to sexually transmitted disease; to determine the prevalence of sexually transmitted disease (STD); to prevent disease in a group of people who sought medical attention. Amount funded: 5'000.000, pesos.</p>
<p>Title of research program-project: Comparison of U de A medical students who participated in international exchange programs, in order to assess the effects of this experience in furthering their professional performance. 1999-2005. Co-PI: Abréu Vélez AM. Funded by: State Stamp Program. Institutions: U de A (Medellin, Colombia, SA), Harvard University, Boston, Massachusetts USA and Yale University, Connecticut USA. The major goal of this project was: To use a “Dopa Matrix” in evaluating learning skills, using different educational models.</p>

Title of program: Establishment of a National Colombian Program for the Ministry of Health, in order to prioritize pemphigus in the POS and in the National Basic Plan of Attention, in order to formulate the local, state and national regulations for this program. **PI:** Abreu Velez AM. **Institutions:** U de A, Medellin, Colombia (SA), and all the medical institutions that are regulated by the Minister of Health in Colombia.

Title of program-project: (completed). Establishment of a nutritional recovery program and self-sufficiency program for the partitions affected by a endemic pemphigus foliaceus in El Bagre and surround areas. Funded by: Secretary of Agriculture of the State of Antioquia, in order to address issues confronted by patients affected by El-Bagre-EPF. **PI:** Abreu Velez AM. **Institutions:** U de A, Medellin, Colombia (SA), and Office of the First Lady of the State of Antioquia. **Funded by:** Secretary of Agriculture of Antioquia State, Colombia. **Amount funded:** 5'000.000, pesos

Grants in preparation

R01 in preparation 2011

Entity: NIH.

Type: Multiple investigators. Abreu-Velez AM, MD, PhD, Dudley SC Jr. MD, PhD

Title: Identification of autoantibodies in the cardiovascular and conductive system of the heart, and their role in patients affected by a new variant of endemic pemphigus foliaceus.

References

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