

CURRICULUM VITAE

VICTOR LUCAS PEREZ QUINONES, M.D.

Birthplace: San Juan, Puerto Rico
Citizenship: United States of America

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Languages: English & Spanish

Education

August 1982-June 1986 A.B. Washington University in St. Louis, Biology Major
July 1986-June 1991 M.D. University of Puerto Rico School of Medicine

Postgraduate Training and Fellowship Appointments

Internships and Residencies

July 1991- June 1993 Intern/Resident, General Surgery, Boston University Medical Center

June 1997-July 2000 Resident, Ophthalmology, Massachusetts Eye and Ear Infirmary,
Harvard Medical School

Clinical Fellowships

July 2000-June 2002 Clinical Fellow, Cornea & External Diseases and Refractive Surgery,
Massachusetts Eye & Ear Infirmary, Harvard Medical School,
Boston, MA. (with Dr. Dimitri Azar)

July 2000-June 2002 Clinical Fellow, Uveitis and Ocular Immunology, Massachusetts Eye
& Ear Infirmary, Harvard Medical School, Boston, MA. (with Dr. C.
Stephen Foster)

Research Fellowships

1988-1989 Research Fellow, Laboratory of Immune Regulation, National Institutes of
Health, Bethesda and Retroviral Diseases Branch, Centers for Disease Control,
Atlanta, GA (with Drs. Thomas M. Folk and Anthony S. Fauci)

- 1993-1996 Postdoctoral Research Fellowship, Immunology Research Division
Department of Pathology, Brigham & Women's Hospital, Harvard Medical
School (with Dr. Abul K. Abbas)
- 1996-1997 Postdoctoral Research Fellowship, Ocular Immunology, The Schepens Eye
Research Institute, Harvard Medical School (with Dr. J.W. Streilein)

Faculty Appointments

- June 1997-July 2002 Clinical Fellow, Department of Ophthalmology, Harvard
Medical School.
- August 2002- November 2006 Associate Staff, Department of Ophthalmology, Cole Eye
Institute, The Cleveland Clinic Foundation.
- August 2002- November 2006 Joint Appointment, Department of Immunology, Lerner
Research Institute, The Cleveland Clinic Foundation.
- August 2004- November 2006 Joint Appointment, Transplantation Center Division of
Surgery, The Cleveland
Clinic Foundation.
- July 2006- November 2006 Assistant Professor, Department Ophthalmology, Cleveland
Clinic Lerner College of Medicine of Case Western Reserve
University.
- January 2005- November 2006 Cornea Surgeon Consultant, Al-Zayhed Military Hospital,
Abu Dhabi, United Arab Emirates.
- November 2006- June 2009 Assistant Professor of Ophthalmology, Bascom Palmer Eye
Institute, University of Miami Miller School of Medicine.
- November 2006-August 2017 Secondary Appointment, Department of Immunology and
Microbiology, University of Miami Miller School of
Medicine.
- July 2009-June 2014 Associate Professor of Ophthalmology, Tenured, Bascom
Palmer Eye Institute, University of Miami Miller School of
Medicine.
- July 2011-August 2017 Joint Appointment, Interdisciplinary Stem Cell Institute
University of Miami Miller School of Medicine
- July 2011-August 2017 Cancer Biology Faculty Graduate Program, University of
Miami Miller School of Medicine
- July 2013-August 2017 Director Ocular Surface Center, Bascom Palmer Eye
Institute, University of Miami Miller School of Medicine
- July 2013-August 2017 Walter G. Ross Distinguished Chair in Ophthalmic Research,
University of Miami Miller School of Medicine and Bascom
Palmer Eye Institute

July 2014-August 2017	Professor of Ophthalmology, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine.
August 2017- October 2023	Professor of Ophthalmology, Tenure, Duke Univeristy
August 2017- October 2023	Director Duke Foster Center for Ocular Immunology, Duke Univeristy
August 2019-October 2023	Stephen and Frances Foster Endowed Professorship in Ocular Immunology and Inflammation, Duke University
October 2023-present	Professor of Ophthalmology, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine
October 2023-present	Director Cornea Research Program, Bascom Palmer Eye Institute, University of Miami Miller School of Medicine

Licensure and Certification

1991	National Medical Board Certification
1992	Massachusetts Medical License #76728
2001	American Board of Ophthalmology
2002	Ohio Medical License #35-08-1389-P
2006	State of Florida Medical License #ME 97293
2017	North Carolina, 2017-02076

Administrative Service

Institution Service

2002-2006	Co-Director, Cornea/External Disease and Refractive Surgery Fellowship Program, Cole Eye Institute, Cleveland Clinic Foundation
2005-2006	Cleveland Clinic Lerner College of Medicine Basic and Translational Research Block
2008-2014	Quality Assurance for Hospital Services, Bascom Palmer Eye Institute
2008-2014	Vision Science Research Seminar Series Organizer, Bascom Palmer Eye Institute Research Department
2009-2017	Howard Huges Medical Institute High School Scholars Mentor
2009-2017	Director, Ocular Surface and Inflammation Research Program
2009-2017	Co-Director, Bascom Palmer Annual Interamerican Course
2010-2017	Advanced Clinical Experience (ACE) Program Education Mentor
2012-2017	Director, Ocular Surface Center of Excellence, Bascom Palmer Eye Institute
2016-2017	Director, Ocular Surface Symposia, Bascom Palmer Eye Institute
2017-2020	Director, Duke International Ophthalmology Program
2017-present	Director, Duke Eye Center for Ocular Immunology, Duke University

National Service

2003-2005	MPIIER (M olecular P athogenesis of I nfectious and I nflammatory E ye R esearch) Scientific Advisory Board
2004-2005	American Academy of Ophthalmology, Writing Team for Uveitis-Related Questions

- 2004 Moderator, Ocular Immunity Session. ARVO 2004
- 2005–2008 Fight for Sight: Grant Review Committee
- 2005 Moderator, Ocular Surface Inflammation Symposium, Cullen Eye Institute
- 2005 Moderator, Corneal Transplantation Immunology Session. ARVO 2005
- 2005 MPIIER (**M**olecular **P**athogenesis of **I**nfectious and **I**nflammatory **E**ye **R**esearch) Meeting Organizer
- 2008-2009 National Institute of Health, National Eye Institute, Anterior Eye Disease (AED) Study Section Ad Hoc reviewer
- 2009-2012 Member, Scientific Advisory Board, Tear Film and Ocular Surface Society (TFOS)
- 2009-2011 Member, ARVO's Commercial Relationships Committee
- 2009-present Member, Claes Dohlman Award Selection Committee
- 2010-2011 Chairman, ARVO Other Meetings Working Group
- 2010-2011 Co-Chair, Cornea and Immunology National Eye Institute Program Planning Panel
- 2012-2016 Permanent member of the NEI Board of Scientific Counselors (BSC)
- 2012-2018 Permanent member of the NEI Disease and Pathophysiology of the Visual System (DPVS) study session
- 2013-2016 Co-Chair of the NEI Board of Scientific Counselors (BSC)
- 2021 Expert Panelist The National Eye Institute (NEI) virtual workshop on "Immunity and Inflammation in the Anterior Segment of the Eye".
- 2022 Co-Chair, *NEI Workshop on Immune System Role in Transplantation and Regeneration in Support of the Audacious Goals Initiative (AGI)*.
- 2022- present Member of the **National Advisory Eye Council (NAEC)**

International Service

- 2006- present Participant, Dr. Pico Latin America Basic Curso, Puerto Rico School of Medicine.
- 2009- present Co-Organizer, Panamerican Group Ocular Surface Study (**PAGSOS**)
- 2011-present President, Panamerican Cornea Society (PanCornea)
- 2013- present Board Member, Pan American Academy of Ophthalmology (**PAAO**)
- 2014 - present Department Research Germany Review Panel Member
- 2015- 2017 Member Pathophysiology Committee in Dry Eye. DEWS II.
- 2020 The Wellcome Trust Grant Reviewer

Editorial Responsibilities

Editorial Board

- 2011- present Editor in Chief: Current Ophthalmology Reports, Springer US PHL
- 2013 – present Editorial Board: Eye & Contact Lens
- 2020 –present. Section Editor: Immunology and Anterior Uveitis. Alfred and Jakobiec's Principles and Practices of Ophthalmology 4th Edition, Springer.
- 2021-present. Associate Editor: American Journal of Transplantation

Reviewer

Nature
 Journal of Leukocyte Biology
 American Journal of Transplantation
 (IOVS) Investigative Ophthalmology and Visual Science

Journal of Immunology
 Ocular Immunology and Inflammation
 Current Eye Research
 Experimental Eye Research
 Ocular Surface
 Ophthalmology
 Archives of Ophthalmology
 American Journal of Ophthalmology
 British Journal of Ophthalmology
 Cornea
 Nature Mucosal Immunology
 The Lancet's EBioMedicine

Awards and Honors

1988	NIH Summer Research Fellowship
1989-1991	Medical Student Research Scholarship. University of Puerto Rico School of Medicine.
1990	NIH Clinical Elective Program
1995	American Association for Investigative Pathology Travel Award, FASEB
2000	The Heed Fellowship Foundation Award
2001	The AOS-Knapp Fellowship Foundation Award
2002	National Eye Institute Travel Grant Award, ARVO
2002	New England Ophthalmology Society (NEOS), Educational Award
2003	Knights Templar Foundation Young Investigator Award
2005	Cora Verhagen Award – Mentor
2006	ASCI/AAP 2006 Joint Meeting K08 Travel Award
2007-2015	Best Doctor in America: Ophthalmology
2008	Glaser Award for Clinician Scientist, University of Miami Miller School of Medicine
2009-2015	America's Top Doctors Castle Connolly Medical Ltd 9 th Edition
2010	Innovator Award, <i>South Florida Business Journal's</i> annual Excellence in Health Care Awards
2011	Claude Pepper Memorial Award Healthcare Service, Florida United HomeCare
2011	Research to Prevent Blindness (RPB) Physician-Scientist Award
2010-2011	Co-Chair, Cornea and Immunology National Eye Institute Program Planning Panel
2012	Fight for Sight Wayne Streilein Summer Student Award to Daniela Capo. Mentor
2012-2016	Permanent member of the NEI Board of Scientific Counselors (BSC)
2012-2016	Permanent member of the NEI Disease and Pathophysiology of the Visual System (DPVS) study session
2013-2016	Co-Chair of the NEI Board of Scientific Counselors (BSC)
2013-2016	Walter G. Ross Distinguished Chair in Ophthalmic Research, University of Miami Miller School of Medicine and Bascom Palmer Eye Institute.
2014	DRG Review Member
2015	Honorary Member Argentina Ophthalmology Society
2015	Member Pathophysiology Committee in Dry Eye. DEWS II.
2019	Stephen and Frances Foster Endowed Professorship in Ocular Immunology, Duke University
2019	American Academy of Ophthalmology Senior Achievement Award

2020	Advancing Frontiers: in Ocular Immunology & Uveitis Award, Ocular Immunology and Uveitis Foundation
2021	ARVO Silver Fellow, Association for Research in Vision and Ophthalmology
2021	Norins Pilot Awards in Alzheimer's Disease. Duke Aging Center, Duke University School of Medicine.
2021	Distinguished Boston KPro Surgeons, KPro Newsletter 2021, Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston.
2021	Medal Award, International Society of Cornea Stem Cells and Ocular Surface.
2022	Member of the National Advisory Eye Council (NAEC)
2023	American Ophthalmology Society (AOS) Member

Memberships in Professional Societies

1990-	American Association for the Advancement of Science
1993-2002	Massachusetts Medical Society
1997-	Association for Research in Vision and Ophthalmology (ARVO)
1999-	American Academy of Ophthalmology (AAO)
1998-	American Society of Cataract & Refractive Surgery
2002-2006	Cleveland Ophthalmology Society
2002-	PanAmerican Association of Ophthalmology (PAAO)
2005-	American Uveitis Society
2006-	Tear Film and Ocular Surface Society (TFOS)
2005-	Florida Medical Association
2010-	PanCornea
2023	American Ophthalmology Society

Grant Support

BASIC SCIENCE RESEARCH

Active

1. “Immune Mechanisms in Ocular Graft versus Host Disease”

Multiple Investigators: Dr. Victor L. Perez (contact PI) and Robert Levy

Agency: NEI (NIH)

Type: R01EY024484-06

Project/Proposal Start and End Date: 04/01/2021 – 03/31/2026

Total Award Amount (including Indirect Costs): \$2,050,000

2. “Local regulation and deletion of T cells to induce tolerance and establish long-term survival of high-risk corneal transplants”

Multiple Investigators: Dr. Victor L. Perez and Robert Levy (contact PI)

Agency: NEI (NIH)

Type: R01 EY030283-02

Project/Proposal Start and End Date: 04/01/2020 – 02/29/2024

Total Award Amount (including Indirect Costs): \$599,421

3. “A new approach to corneal allograft tolerance involving TNFRSF25 “

Major Goals: The major goal of this project is manipulating the ocular Treg compartment to regulate inflammation, autoimmune disease and promote tolerance to allografts.

Name of PD/PI: Perez, V.

Source of Support: Pelican Therapeutics, Inc.

Project/Proposal Start and End Date: 10/24/2018 – 07/31/2022

Total Award Amount (including Indirect Costs): \$485,272

4 . “Evaluation of Ocular Insert for Lubrication in Ocular Graft versus Host Disease”

PI: Dr. Victor L. Perez

Agency: Alcon

Type: Sponsored Research

Project/Proposal Start and End Date: 09/01/2019 – 08/31/2022

Total Award Amount (including Indirect Costs): \$181,646

5. “Intra-operative use of Ocular Insert to Protect the Cornea, Ocular Surface and Drug Delivery”

PI: Dr. Victor L. Perez

Agency: Alcon

Type: Sponsored Research

Project/Proposal Start and End Date: 09/01/2019 – 08/31/2022

Total Award Amount (including Indirect Costs): \$100,000

6. “Evaluation of the Efficacy of the Alcon™ Ocular Insert, After Undergoing Gamma-irradiation for clinical use in Corneal Wound Healing and Surgical Settings”

PI: Dr. Victor L. Perez

Agency: Alcon

Type: Sponsored Research

Project/Proposal Start and End Date: 11/01/2020 – 10/31/2022

Total Award Amount (including Indirect Costs): \$180,000

7. “Title: Evaluation of in-vitro and in-vivo Activated Silk polypeptides in Neurotrophic Keratopathy”

PI: Dr. Victor L. Perez

Agency: Evolved by Nature (EBN)

Type: Sponsored Research

Project/Proposal Start and End Date: 06/01/2021 – 06/01/2022

Total Award Amount (including Indirect Costs): \$249,532

8. “Norins Pilot Awards in Alzheimer’s Disease: Detection of pan-microbial antigen, poly-N-acetyl glucosamine (PNAG), and amyloid beta (A β) in the corneal epithelium to identify individuals in the early stages of Alzheimer’s Disease (AD)

PI: Dr. Victor L. Perez

Agency: Duke Center for the Study of Aging & Human Development (Duke Aging Center)

Type: Sponsored Research.

9. “Defining the Immune Cell Roles in Meibomian Gland Dysfunction in the Context of Ocular Surface Immune Diseases”

PI: Dr. Daniel Saban

Co-PI : Victor L. Perez

Agency: NIH/NEI

Type: 2R01EY021798-11

Project/Proposal Start and End Date: (MM/YYYY) (if available): 07/01/2022 – 06/30/2027
 Total Award Amount (including Indirect Costs): \$2,455,224

10. Ocular Surface Innervation from Cell Types to Circuit Functions

“Blink, Lacrimation, and Nociception: Precision Mapping and Integrated Atlas Generation of Corneal Trigeminal Afferents in Mice and Humans”

PI: Dr. Daniel Saban
 M-PI: Dr. Victor L. Perez
 Agency: NIH/NEI
 Type: U01 - RFA-EY-21-004
 Project/Proposal Start and End Date: 2022 – 2027
 Total Award Amount (including Indirect Costs): \$5,000,00

11. The use of transient receptor potential vanilloid 1 (TRP V1) inhibitor, SAF-312 in the neuro-immune suppression of inflammatory infiltration and disease development in an allergic eye disease (AED) murine model.

PI: Dr. Victor L. Perez
 Co-PI: Dr. Daniel Saban
 Agency: Novartis
 Type: Sponsored Research
 Project/Proposal Start and End Date: 4/2023-8/2023

Previous

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| 2000 | Principal Investigator. Minority Faculty Development Bridge Award Program, Harvard Medical School: Differential Role of Fas Ligand Expression in Corneal Immunity. |
| 2003-2008 | Principal Investigator. NIH 1 K08EY014912 “Regulation of Corneal Inflammation by Fas Ligand.” |
| 2003 | Principal Investigator. Knights Templar Eye Foundation Grant. “ <i>In Vivo</i> Visualization of Innate and Adaptive Immune Responses of the Eye.” |
| 2005 | Principal Investigator and Mentor. Fight for Sight Summer Student Fellowship: Fitz Collings. |
| 2005-2006 | Principal Investigator. BRTT (Biomedical Research and Technology Transfer) Cleveland, Ohio “Characterization of Inflammatory and Immunological Signals Involved in the Progression of AMD.” |
| 2008-2009 | “Role of Oxidative Damage Induced Inflammation in the Initiation of Age-Related Macular Degeneration.”
Principal Investigator: Victor L. Perez Agency: UM Miller School of Medicine Stanley Glaser Award
Period: June 2008 – 2009 |
| 2012 | Principal Investigator and Mentor. Fight for Sight Wayne Streilein Summer Student Fellowship: Daniela Capo. |

- 2012 **“Role of T Cells in Orchestrating Inflammation and Dry Eye in Ocular Surface Diseases”**
Clinician Scientist Award, Research to Prevent Blindness.
- 2009-2012 **“Linkage between oxidative stress, adaptive immune responses and complaint activation in Age Related Macular Degeneration.”**
Edward N. and Della L. Thome Memorial Foundation Awards Program in Age-Related Macular Degeneration Research, Bank of America Trustee
- 2009-2013 **“Role of Inflammatory Responses to Ophthalmic Drug Preservatives”**
Agency: Alcon Research
- Research Supplement to Promote Diversity in Health-Related Research**
Principal Investigator: Victor L. Perez Applicant: Dr. Jose Echegaray
and Dr. Maitee Urbietta
Type: Supplement to R01 EY018624
- 2013-2015 **“Development of Novel Artificial Cornea for Treatment of Combat Related Corneal Blindness”**
Principal Investigator: Victor L. Perez Agency: Department of
Defense, USA
- 2018-2020 **“Small Molecule Anti-Inflammatories for Ocular Graft Versus Host Disease”**
Principal Investigator: Victor L. Perez Agency: NEI (NIH)
Type: R41EY029185

CLINICAL RESEARCH

Active

1. **“A multi-center, randomized, double-masked, placebo-controlled clinical trial of suppressive valacyclovir for one year in immunocompetent study participants with an episode of dendriform epithelial keratitis”**

Role: PI: Perez, Victor L.

Agency: U10-EY026869-0. NYUSM. NEI

Period: 3/13/2017 - 7/31/2021

2. **A randomized, double-masked, multicenter study to demonstrate the safety and efficacy of two dose concentrations of SAF312 eye drops (5 mg/ml and 15 mg/ml) in subjects with CICP persisting at least for 4 months after refractive surgery and chronicity confirmed during the observational period.”**

Role: PI: Perez, Victor L.

Agency: Novartis Pharmaceuticals Corporation

Project/Proposal Start and End Date: 07/022/2021 – 10/13/2023

Total Award Amount (including Indirect Costs): \$166,501

Previous

- 2009-2010 Principal Investigator: **“A Prospective, Multi-Center, Randomized, Double-Masked, Safety, Tolerability and Efficacy Study of Four Iontophoretic Doses of Dexamethasone Phosphate Ophthalmic Solution in Patients with Non-Infectious Anterior Segment Uveitis.”** Agency: EyeGate Pharmaceuticals, Inc.
- 2010-2011 Principal Investigator: **“Use of High Resolution Anterior Segment OCT in the Evaluation of Dry Eye Patients and Use of New Treatment.”** Agency: Alcon
- 2012 Principal Investigator: **C09045/ /A Phase 3 Multicenter, Randomized, Controlled, Double-Masked Study of Safety and Efficacy of Sodium Hyaluronate Ophthalmic Solution, 0.18% in Dry Eye Syndrome**
Agency: Alcon
- 2012 Principal Investigator. **Eyegate Pharmaceuticals, Inc. will be conducting a Phase 3 prospective, multi-center, randomized, doublemasked, placebo-controlled, safety and efficacy study of an iontophoretic dose of dexamethasone phosphate ophthalmic solution (EGP-437 40 mg/ml)**
Agency: Eyegate
- 2013 Principal Investigator. **Iontophoresis Delivery of Dexamethasone Phosphate for Non-infectious, Non-necrotizing Anterior Scleritis, Phase 1 Dose-varying Study** Agency: Eyegate
- 2014 Principal Investigator **“A Multi-Center, Double-Masked, Randomized, Controlled, Efficacy and Safety Study of EBI-005 5 mg/mL Topical Ophthalmic Solution versus Vehicle Control in Subjects with Moderate to Severe Dry Eye Disease (DED)”** is testing a new investigational drug called **EBI-005.** Agency: Eleven Bio
- 2013 Sub- Investigator. **‘A double blind, randomized, placebo-controlled study to evaluate, safety, tolerability, efficacy and preliminary dose-response of BAF312 in patients with active dermatomyositis’**
- 2013-2018 Co-Principal Investigator: **“Safety and Efficacy of Bevacizumab in High Risk Corneal Transplant Survival”**
Agency: Department of Defense, USA
- 2014 Principal Investigator: **A Phase 2, Multi-Center, Randomized, Double-Masked, Placebo-Controlled Clinical Study to Assess the Safety and Efficacy of 0.2% and 0.5% R932348 Ophthalmic Solutions for the Treatment of Keratoconjunctivitis Sicca in Patients with Chronic Ocular Graft versus Host Disease.** Agency: Rigel
- 2015 Principal Investigator: **Evaluation of Efficacy of 20 µg/ml rhNGF new formulation (with anti-oxidant) in patients with stage 2 and 3 Neurotrophic Keratitis.** Agency: Dompe
- 2018- 2021 Principal Investigator: **“Vision Restoration with a Collagen Crosslinked Boston Keratoprosthesis Unit Study”**

Agency: 2300145 / W81XWH-15-2-0044. Massachusetts Eye and Ear Infirmary. U.S. Army Medical Research and Development Command

- 2021 Principal Investigator: **A randomized, double-masked, multicenter study to evaluate the safety and efficacy of ECF843 vs Vehicle in subjects with dry eye disease**
Agency: Novartis Pharmaceutical Corporation

Patents, Inventions, Innovations and Start up Project

- 1991 United States Application No. 256,534: “CD4⁺, Latently HIV1 Infected Hemotopoietic Progenitor Cells.” Butera ST, **Perez VL**, Folks TM.
- 2008 United States Application No. 12/256,274: “Animal Model of Autoimmunity to Self-Altered Proteins and Retinal Degeneration.” **Perez VL**, Salomon R., Hollyfield J.
- 2012 United States Application No. 2012/0093761 A1: “Vaccine Compositions and Methods of use Therefore.” Daftarian P, Serfaini P, Lemmon V, Kaifer A, **Perez VL**, Wei L and Blomberg, B.
- 2012 U.S. Provisional Patent UML-139: “Novel Keratoprosthesis, and System and Method of Corneal Repair Using Same.” Parel JM, Sawatari Y, **Perez VL** and Sathia D.
- 2013 United States Provisional Patent Application No.: 61809518 (UMM-153); “Indices for management of dry eye syndrome, corneal ectasia, keratoplasty graft rejection and failure and fuchs' dystrophy.” **Victor L. Perez**, Sonia H. Yoo, Jianhua Wang, Mohamed Abou Shousha, Rodrigo Hoffman.
- 2013 U.S. Provisional Patent Application No. 61/788,666. Daftarian P, Ager Arba and **Perez VL**. “Immune-potentiating drug nanocarriers and methods of production and use thereof.” 2013.
- 2014 Provisional Application No.: 62/010,135 (UMN-117) titled "Compositions and methods for *in vivo* imaging of apoptosis". Daunert, Daftarian, Deo, Head and **Perez**.
- 2014 Ophthalmic Biological Therapeutics, Inc. Co-Founder, Owner.

Advisory Scientific Boards Member

Alcon
BRIM
Dompe
Kiora
Novartis
Regentree
Trefoil

Bibliography

Peer-reviewed Original Articles

1. Markovitz DM, Hannibal M, **Perez VL**, Gauntt C, Folks TM and Nabel GJ. Differential Regulation of Human Immunodeficiency Viruses: A Specific Regulatory Element in HIV-2 Responds to stimulation of the T Cell Antigen Receptor. *Proc Natl Acad Sci USA* 1990;87:9098.
2. Butera ST, **Perez VL**, Besanky NJ, Chan WC, Wu B, Nabel GJ, Folks TM. Extrachromosomal Human Immunodeficiency Virus Type-1 DNA Can Initiate a Spreading Infection of HL-60 Cells. *Journal of Cellular Biochemistry* 1991;45:366.
3. Butera ST, **Perez VL**, Wu BY, Nabel GJ, Folks TM. Oscillation of the Human Immunodeficiency Virus surface receptor is regulated by the state of viral activation in a CD4⁺ cell model of chronic infection. *Journal of Virology* 1991;65(9):4645.
4. Bednarik DP, Duckett C, Kim SU, **Perez VL**, Griffis K, Guenther PC, Folks TM. DNA CpG methylation inhibits binding of NF- κ B proteins to the HIV-1 long terminal repeat cognate DNA motifs. *New Biologist* 1991;3(10):969.
5. **Perez VL**, Rowe T, Justement JS, Butera ST, June CH, Folks TM. An HIV-1 infected T cell clone defective in IL-2 production and Ca⁺ mobilization after CD3 stimulation. *Journal of Immunology* 1991;147(9):3145.
6. McKnight AJ, **Perez VL**, Shea CM, Gray, GS, Abbas AK. Costimulator Dependence of lymphokine secretion by naive and activated CD4⁺ T lymphocytes from TCR Transgenic mice. *Journal of Immunology* 1994;152:5220.
7. **Perez VL**, Lederer JA, Lichtman AH, Abbas AK. Stability of Th1 and Th2 Populations. *International Immunology* 1995;7:869.
8. Lederer JA*, **Perez VL***, Abbas AK, Lichtman AH. Cytokine Transcriptional Events During Helper T Cell Subset Differentiation. *Journal of Experimental Medicine* 1996; 184:1-10. *Both authors contributed equally to this work.
9. **Perez VL**, Van Parijs L, Biuckians A, Zheng XX, Strom TB, Abbas AK. Induction of Peripheral T Cell Tolerance In Vivo Requires CTLA-4 Engagement. *Immunity* 1997; 6:411-417.
10. **Perez VL**, Heanault L, Lichtman AH. Endothelium antigen presentation: stimulation of previously activated but not naive TCR transgenic mouse T cells. *Cell Immunol* 1998;1889(1):31.
11. London C, **Perez VL**, Abbas AK. Functional Characterization and Survival Requirements of Memory CD4⁺ Lymphocytes In Vivo. *Journal of Immunology* 1999; 162:766-773.

12. Lu M*, **Perez VL***, Ma N, Miyamoto K, Peng HB, Liao JK, Adamis AP. VEGF increases retinal vascular ICAM-1 expression in vivo. *Invest Ophthalmol Vis Sci* 1999;40(8):1808-12. *Both authors contributed equally to this work.
13. **Perez VL**, Biuckians AJ, Streilein WJ. *In vivo* impaired T helper 1 cell development in submandibular lymph nodes due to IL-12 deficiency following antigen injection into the anterior chamber of the eye. *Ocul Immunol Inflamm* 2000;8(1):9-24.
14. Manoj T, **Perez VL**, Moulin A, Cremer SJ, Foster CS. Multifocal Nodular Episcleritis and Scleritis with Undiagnosed Hodgkin's Lymphoma. *Ophthalmology* 2003;110(5):1057-1060.
15. **Perez VL**, Colby K, Azar DT. Epithelial Ingrowth after Microkeratome-Assisted Posterior Penetrating Endokeratoplasty. *J Cataract Refract Surg.* 2003; 29:2225-2228.
16. Carlson EC, Liu CY, Yang X, Gregory M, Ksander B, Drazba J, **Perez VL**. *In vivo* Gene Delivery and Visualization of Corneal Stromal Cells using an Adenoviral Vector and Keratocyte Specific Promoter. *Invest Ophthalmol Vis Sci* 2004;45:2194-2200. (Cover Illustration)
17. Wilson SE, Mohan RR, Netto M, **Perez VL**, Rodriguez JP, Possin D, Huang J, Kwon R, Alekseev A. RANK, RANKL, OPG, and M-CSF Expression in Stromal Cells during Corneal Wound Healing. *Invest Ophthalmol Vis Sci* 2004;45:2201-2211.
18. **Perez VL**, Papaliodis G, Chu D, Foster CS. Elevated levels of IL-6 in the vitreous fluid of patients with active posterior uveitis. *Ocul Immunol Inflamm* 2004 Sep;12(3):193-201.
19. Hatton MP, **Perez VL**, Dohlman CH. Corneal Oedema in Ocular Hypotony. *Exp Eye Res.* 2004;78:549-552.
20. **Perez VL**, Chavala S., Muna A., Chu D., Zafirakis P., Baltatzis S., Ocampo V. and Foster CS. Ocular Manifestations and Concepts in Systemic Vasculitides. *Surv Ophthalmol.* 2004 Jul-Aug;49(4):399-418.
21. Meisler DM, **Perez VL**, Proudfit J. A Device to Facilitate Limbal Stem Cell Procurement from Eye Bank Donor Tissue for Keratolimbal Allograft Procedures. *Am J Ophthalmol* 2005; 139:212-214.
22. Mc Dermott AM, **Perez VL**, Huang AJ, Pflugfelder SC, Stern ME, Baudouin C, Beuerman RW, Burns AR, Calder VL, Calonge M, Chodosh J, Coster DJ, Dana R, Hazlett LD, Jones DB, Kim S, Knop E, Li DQ, Mitchell BM, Niederkorn JY, Pearlman E, Wilhelmus KR, Kurie E. Pathways of corneal and ocular surface inflammation: a perspective from the Cullen Symposium. *Ocul Surf.* 2005: 3(4 Suppl);S131-138.
23. Carlson EC, Drazba J, Yang X, **Perez VL**. Visualization and Characterization of Inflammatory Cell Recruitment and Migration through the Corneal Stroma in Endotoxin-Induced Keratitis. *Invest Ophthalmol Vis Sci* 2006 Jan;47(1):241-8 (Cover Illustration).
24. Taban M, Dupps WJ, Mandell B and **Perez VL**. Etanercept (Enbrel) Associated Inflammatory Eye Disease: Case Report and Review of Literature. *Ocul Immunol Inflamm.* 2006;14:145-50.

25. Letko E, Bhol K, Anzaar F, **Perez VL**, Ahmed AR, Foster CS. Chronic cicatrizing conjunctivitis in a patient with epidermolysis bullosa acquisita. *Arch Ophthalmol*. 2006;124: 1615-1618.
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14. "Improvements in the Modified Osteo-Odonto Keratoprosthesis (MOOKP) Surgery Technique". M.C. Aguilar, Y. Sawatari, A. Gonzalez, W. Lee, C.J. Rowaan, D. Sathiah, D. Miller, V.L. Perez, E.C. Alfonso, J.A. Parel. ARVO 2013.
15. "Demonstration of Donor Tcell Recruitment and Correlation with Inflammatory Cytokine Presence in Experimental Graft-versus-Host Disease". S. Herretes, J.C. Murillo, D. Ross, H. Barreras, Y. Tan, A.M. Saeed, A. Gonzalez, C. Betancurt, R.B. Levy, V. L. Perez. ARVO 2013.
16. "Pre-Clinical and Clinical Inflammation of Ocular Adnexa in Graft-versus-Host Disease". Samantha Herretes, Juan C. Murillo, Stephanie Duffort, Carolina Betancurt, Zaina Al-Mohtaseb, Tayyeba Ali, Daniel Waren, Henry Barreras, Robert Levy, Victor L. Perez. ARVO 2014.
17. "Distinct Role of Donor CD4 T Cells in the Orchestration and Development of Ocular Graft versus Host Diseases" Victor L. Perez, Samantha Herretes, Stephanie Duffort, Henry Barreras, Robert Levy. ARVO 2014. Surface quality assessment of explanted keratoprotheses using confocal and scanning electron microscopy" Jean-Marie A Parel; Heather Ann Durkee; Patricia L Blackwelder; Darlene Miller; Antonio Bermudez; Kavitha Sivaraman; Florence Cabot; Mariela C Aguilar; Victor L Perez; Guillermo Amescua. ARVO 2015.
18. "Inflammatory manifestations of Ocular Graft versus Host Disease in the Cornea, Eyelid and Conjunctiva" Stephanie Duffort; Henry Barreras; Robert Levy; Victor L Perez. ARVO 2015.
19. "Isolation, characterization, and culture of human limbal stem cells from donor sclerocorneal rims" Maitee Urbietta; Enrique Salero; Victor L. Perez . ARVO 2015

20. “Dry eye profiles in patients with a positive elevated surface matrix metalloproteinase 9 point of care test versus negative patients” Allister Gibbons; Nicole Lanza; Felipe Valenzuela; Victor L Perez; Anat Galor. ARVO 2015.
21. “Clinicopathologic correlation of Corneal Keloid-like Myoblastic Fibrocellular Proliferation” Maria Paula Fernandez; Antonio Bermudez; Sander R Dubovy; Eduardo C Alfonso; Victor L Perez; Guillermo Amescua; Richard K. Forster. ARVO 2015.
22. “Functional consequences of Mpz13 knockout in the ocular surface of mice” Alexander Steven Barsam; Ying Wang; Andres Reyes-Capo; Maitee Urbieta; Hunter Mitchell; Tongyu Cao Wikramanayake; Victor L Perez. ARVO 2015.
23. Diagnostic performance of the Endothelial/Descemet’s membrane thickness versus endothelial cell density in the diagnosis of corneal graft rejection. Georgios Kontadakis, Christopher Smith, Daniel Kaitis, Rocio Bentivegna, Jordan Winegar, Sonia H. Yoo, Victor L. Perez, Mohamed Abou Shousha. ARVO 2016
24. Expanded allogeneic limbal stem cell transplantation for diverse severe limbal stem cell deficiency, investigation of ABCB5 and deltaNp63-alpha markers. Juan Carlos Serna-Ojed, Enrique O. Graue-Hernandez, Alejandro Navas , Mariana Garcia-Mejia , Arturo J. Ramirez-Miranda, Victor L. Perez , Yonathan Garfias. ARVO 2016
25. Penetrating Keratoplasty Outcomes in the Setting of Autoimmune Disease. Karan Patel, Wei Shi1, Seth Pantanelli , Victor L. Perez. ARVO 2016
26. Toxic keratopathy due to zoanthid coral palytoxin. Asim Visal Farooq; Allister Gibbons; Matthew Council; George J Harocopos; Simon Holland; Jeffrey Judelson; Bradley Shoss; Eric Schmidt; Umi Md Noh; Alexander D’Angelo; Rao Chundury; Richard Judelson; Victor L Perez; Andrew J W Huang. ARVO 2017
27. 3D-printed Nano-structural Poly(ϵ -caprolactone) (PCL) Scaffolds for Corneal Stromal Regeneration. QI GAO; Jiajun Xie; Enrique Salero; Alfonso L. Sabater; Gabriel Gaidosh; Elena De Juan-Pardo; Dietmar W Hutmacher; Juan Ye; Victor L Perez. ARVO 2017
28. Establishment of a bi-layer tissue engineered conjunctiva construct using a three-dimensional (3D) printed scaffold. Jiajun Xie; QI GAO; Alfonso L. Sabater; Enrique Salero; Gabriel Gaidosh; Elena De Juan-Pardo; Dietmar W Hutmacher; Juan Ye; Victor L Perez ARVO 2017
29. Proteomic analysis of secreted factors produced by human limbal epithelial cell cultures during in-vitro growth and expansion. Enrique Salero; Maitee Urbieta; Alfonso L. Sabater; Maria del Carmen Piqueras; Sanjoy K Bhattacharya; Victor L Perez. ARVO 2017
30. Confocal Microscopy and Optical Coherence Tomography to Evaluate Explanted Titanium Back Plate Type Keratoprosthesis. Heather Ann Durkee; Guillermo Amescua; Allister Gibbons; Felipe Valenzuela; Maria P Fernandez; Mariela C Aguilar; Nidhi Relhan; Alejandro Arboleda; Victor L Perez; Darlene Miller; Jean-Marie A Parel. ARVO 2017
31. Use of Post-Transplant Cyclophosphamide Therapy in High Risk Corneal Graft Transplantation: A New Strategy to Prolong Corneal Allograft Survival. Robert Levy; Casey Lightbourn; Ying Wang; Cameron Bader; Sabrina Copsel; Brent Pfeiffer; Victor L Perez. ARVO 2018
32. Tear leukocyte phenotyping in meibomian gland dysfunction by large parameter flow cytometry. Daniel R Saban; Nancy Reyes; Rose Mathew; Chen Yu; Joan Kalnitsky; Victor L Perez; Preeya Gupta. ARVO 2018
33. A Novel Approach to Determine and Quantify Total Corneal Limbal Stem Cell via Palisades of Vogt Using Optical Coherence Tomography. Kristen Peterson; Nicole Fuerst; James Tian; Michael Tramber; Victor L Perez; Anthony N Kuo. ARVO 2019
34. TearLab Discovery Quantification of MMP-9 Levels in Patients With Significant Inflammatory Eye Disease and Concordance with InflammDry. Benjamin Sullivan; Carolina Betancurt Garcia; Tanaeya Hovington; Michael S Berg; Daniel Cohen; Victor L Perez ARVO 2019

35. Management of early acute rejection of keratolimbal allografts: a case series. Eubee B Koo; Allister Gibbons; Victor L Perez. ARVO 2019
36. Immune Mediated Early Corneal Nerve Damage Ocular Graft-Versus-Host Disease. Victor L Perez; Liwen Lin; Jose Echegaray; Derek J Royer ARVO 2019
37. In-vivo quantitative analysis of pterygium volume using anterior segment optical coherence tomography imaging. Sumru Onal; Jessica Loo; Victor L Perez Quinones; Tan Nguyen; Madhu Cherukury; Sina Farsiu; Glenn J Jaffe ARVO 2020
38. Mouse corneal transplant evaluation with topography and pachymetry using OCT. Ailin Song; Alice Liu; Guorong Li; Liwen Li; Sina Farsiu; Dan Stamer; Victor L Perez; Ryan P McNabb; Anthony N Kuo ARVO 2020
39. Corneal nerve damage in ocular graft-versus-host disease involves CXCR3+ exTh17 cells. Derek J Royer; Hazem M Mousa; Jose Echegaray; Liwen Lin; Victor L Perez. ARVO 2020.
40. Soifer, HM Mousa, VL Perez. *Diagnosis and Management of Persistent Non-Infectious Uveitis after Cataract Surgery*. M American Society of Cataract and Refractive Surgery (ASCRS) Annual Meeting – May 2020.
41. Soifer, HM Mousa, SS. Stinnett, A Galor, VL. Perez. *Matrix Metalloproteinase 9 Positivity Predicts Long Term Decreased Tear Production*. Ocular Microbiology and Immunology Group Meeting (OMIG) - November 2020.
42. Mousa, J Feghali, A Song, M Soifer, VL. Perez. *The C-DU(KE) Calculator: A Novel Tool for Risk Stratification in Infectious Keratitis*. HM Ocular Microbiology and Immunology Group Meeting (OMIG) - November 2021.
43. HM Mousa, J Feghali, M Soifer, A Song, N Azar, AJ Snyder, VL Perez. *The P-DUKE calculator: a clinical tool for predicting outcomes after penetrating keratoplasty*. Duke Ophthalmology Trainee Scientific Session – June 2022.
44. VL Perez, HM Mousa, R Mathew, L Lin, RG Blanco Ortiz, C Beatty, S Komai, S Littleton, J Kalnitsky, J Echegaray, S Kinoshita, M Ueta, DR Saban. *Robust ocular inflammatory response to an immune allergic eye disease challenge in a novel murine IKZF1 transgenic model associated with Steven's Johnson's Syndrome.* Hot Topic – Featured on ARVO 2022 News Release The Association for Research in Vision and Ophthalmology (ARVO) - June 2022.
45. L Lin, HM Mousa, RG Blanco, J Echegaray, M Seavey, RB Levy, VL Perez. *Signaling through TNFRSF25 using novel mPTX-35 antibody prolongs corneal allograft survival in mice by in vivo expansion of regulatory FoxP3+ T cells*. The Association for Research in Vision and Ophthalmology (ARVO) - June 2022.
46. Z Zemborain, M Soifer, N Azar, HM Mousa, VL Perez, S Farsiu. *Deep Learning-based Segmentation of Nerves and Pathological Structures in Corneal Confocal Microscopy Images of the Sub-basal Nerve Plexus*. The Association for Research in Vision and Ophthalmology (ARVO) - June 2022. Travel Grant Award Recipient.
47. M Soifer, AA Jammal, HM Mousa, AJ Snyder, VL Perez *Epidemiology of Herpes Zoster ophthalmicus in context of the SARS-CoV2 (COVID) pandemic*. The Association for Research in Vision and Ophthalmology (ARVO) - June 2022
48. HM Mousa, J Feghali, A Song, M Soifer, VL. Perez. *The C-DU(KE) Calculator: A Novel Tool for Risk Stratification in Infectious Keratitis* Ocular Microbiology and Immunology Group Meeting (OMIG) - November 2021. Oral Presentation.
49. HM Mousa, J Feghali, M Soifer, A Song, N Azar, AJ Snyder, VL Perez. *The P-DUKE calculator: a novel tool for predicting outcomes after penetrating keratoplasty*. The Association for Research in Vision and Ophthalmology (ARVO) - June 2022. Poster Presentation.

Invited Lectures and Presentations

Named Lectures

- 2011 Rich Lecture, Department of Ophthalmology, University of Alabama, Birmingham, AL.
 2016 Memorial Lecture, 61st Rochester Ophthalmology Conference, Flaum Eye Institute, University of Rochester, NY
 2016 Jose Pulido Endowed Lecture, Illinois Eye and Ear Infirmary's, University of Chicago Illinois.
 2017 Distinguished Robert Eugene Anderson Lectureship, Dean McGee Eye Institute, Department of Ophthalmology, The University of Oklahoma Health Sciences Center
 2018 Harold Stein Lecture in Innovation in Ophthalmology, Canadian Ophthalmology Society.
 2018 Thygeson Lecture, Ocular Microbiology and Immunology Group, AAO, Chicago
 2019 Stephen and Frances Foster Lecturer in Ocular Immunology, Duke University.
 2019 Woodruff Distinguished Lecture, School of Optometry & Vision Science, University of Waterloo.
 2020 George Kambara Distinguished Visiting Professorship, Hamilton Eye Institute, University of Tennessee Health Science Center.
 2023 Thomas Moore MD Memorial Lecture, Department of Ophthalmology, University of California San Francisco.

Visiting Professorships

- 2004 Visiting Professor. University of Oregon Health Services, Portland .
 2005 Visiting Professor. Ophthalmology Dept. Washington University, St. Louis. .
 2005 Visiting Professor, Vision Science Seminar, Kellogg Eye Institute, University of Michigan.
 2007 Visiting Professor, Research Days Vision Institute Federal University of Sao Paulo. Brazil.
 2008 Visiting Professor, University of Oklahoma McGee Eye Institute Research Series.
 2008 Visiting Professor, University of Gainesville Florida. Speaker Research Seminar.
 2010 Visiting Professor, Department of Ophthalmology, University of Cincinnati, OH.
 2010 Visiting Professor, Susruta Lecture: Vision Science Research Day, University of Pittsburgh Medical Center Eye Institute, Pittsburgh, PA.
 2011 Visiting Professor, Department of Ophthalmology, University of California San Francisco and Proctor Foundation, San Francisco, CA.
 2011 Visiting Professor, Cornea Lecture Series, Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston, MA.
 2011 Visiting Professor, Vision Discovery Institute Distinguished Seminar Series, Department of Ophthalmology, Medical College of Georgia.
 2012 Visiting Professor, Department of Ophthalmology Visual Science Research Seminar, University of Kentucky, Lexington, KY
 2012 Visiting Professor, Department of Ophthalmology and Visual Sciences, Tufts University Medical Center, Boston, MA.
 2012 Visiting Professor, Scheie Eye Institute, University of Pennsylvania.
 2013 Visiting Professor, University of San Diego, Update in Ophthalmology.
 2013 Visiting Professor, University of Toronto Department of Ophthalmology, Toronto, Canada.
 2013 Visiting Professor, University of Texas Southwestern. Dallas, TX.
 2014 Visiting Professor, Berkeley Optometry Vision Research Program

- 2014 Visiting Professor, University of California Davis, Sacramento, CA.
- 2014 Visiting Professor, 20th Biennial Cornea Conference Wills Eye Hospital Wills Eye Hospital, Philadelphia, PA.
- 2015 Visiting Professor, Department of Ophthalmology St. Louis University, St. Louis.
- 2016 Visiting Professor, Department of Immunology, University of Pittsburgh, PA.
- 2016 Visiting Professor, University of Mashad, Iran.
- 2016 Visiting Professor, Department of Ophthalmology Mt. Sinai Medical School, New York.
- 2017 Visiting Professor, Wilmer Eye Institute for Nanotechnology, Johns Hopkins, Baltimore, MD.
- 2019 Visiting Professor, Massachusetts & Ear Infirmary Alumni Meeting, Harvard Medical School, Boston, MA.
- 2021 Visiting Professor, Annual Ophthalmology at the Crossroad, University of Texas Southwestern, Dallas, TX.
- 2022 Visiting Professor, Scheie Eye Institute, University of Pennsylvania, Philadelphia PA.

National Scientific Meetings

- 2004 Invited Speaker, National American College of Rheumatology Meeting, Orlando. Scleritis: Disease associations and complications.
- 2005 Invited Speaker, American Uveitis Society Winter Meeting. In Vivo Immune Responses in the Eye.
- 2005 Invited speaker, 7th Annual Visual Sciences Research Symposium, Case Western Reserve University, Cleveland. Immunological Responses in the Cornea.
- 2005 Role of Early Chemokine Production in High Risk Corneal Graft Rejection. ARVO. Hot Topics Session, Fort Lauderdale, Florida.
2006. Early Inflammation and T Cell Recruitment in High Risk Vascularized Corneal Allografts. ARVO. Hot Topics Session. Fort Lauderdale, Florida.
- 2007 Immune Responses to Oxidatively Altered Self-Retinal Antigen. ARVO. Hot Topics in Immunology Session. Ft. Lauderdale, Florida.
- 2009 Role of Anti-CEP Autoantibody Production in Autoimmune Mediated Model of Retinal Degeneration. ARVO. Immune Response Session, Fort Lauderdale, Florida
- 2008 Invited Speaker, ARVO Summer Eye Research Conference on Ocular Inflammation and Autoimmunity. "In vivo imaging of inflammatory responses in the cornea." Monterey, CA.
- 2009 Invited Speaker, 26th Biennial Cornea Research Conference, Schepens Eye Research Institute, Harvard Medical School, Boston, MA
- 2009 Invited Speaker, American College of Rheumatology, Philadelphia, Pennsylvania.
- 2010 Invited Speaker, 5th International Conference in Ocular Infections, Palm Beach, FL.
- 2010 Invited Seaker, In Vivo Imaging of Adaptive Immune Responses in the Cornea. SIG: In Vivo Imaging in the Eye. ARVO.
- 2012 Invited Speaker, New York Macula Society Meeting, New York.
- 2012 Invited Speaker, Puerto Rico College of Rheumatology, San Juan, PR.
- 2012 Invited Speaker, Virginia Ophthalmology Society, VA.
- 2013 Invited Speaker, Angiogenesis and Degeneration, Bascom Palmer Eye Institute, Miami, FL
- 2013 Invited Speaker, Boston Biannual Cornea Conference, Harvard Medical School, Boston, MA.
- 2013 Invited Speaker, American Uveitis Society Guest Speaker: Inflammation vs Angiogenesis in Ocular Inflammation. ARVO. Seattle, WA.

- 2014 Invited Speaker, Immune Mechanisms of corneal transplantation and keratoprosthesis. Gordon Cornea Conference. Ventura, California
- 2014 Invited Speaker, ARVO Special Meeting: "Ocular Immunity, Autoimmunity and Inflammation". Ft. Lauderdale, FL.
- 2014 Invited Speaker, Autoimmune Responses in Age Related Macular Degeneration. ISER. San Francisco
- 2015 Invited Speaker, International Equine Ophthalmology Consortium.
- 2015 Invited Speaker, University of Chicago Illinois Graft vs Host Disease Meeting, Chicago
- 2015 Invited Speaker, Immune Mechanism of Infectious Keratitis. The 13th Congress of the International Ocular Inflammation Society, San Francisco.
- 2016 Invited Speaker, Ocular Graft vs Host Symposium, University of Illinois Chicago.
- 2017 Invited Speaker, 30th Biannual Cornea Conference, Mass Eye & Ear Infirmary, Harvard Medical School
- 2017 Invited Speaker, Ocular Graft vs Host Disease, ARVO, Hawaii
- 2017 Invited Speaker, Ocular Surface Symposia, American Academy of Optometry, Chicago
- 2018 Invited Speaker, Peripheral Ulcerative Keratitis, American Society for Cataract and Refractive Surgery: Cornea Day.
- 2018 Invited Speaker, Update in Autologous Serum Tears, American Academy of Ophthalmology, Chicago.
- 2018 Course Participant, Management and Therapy Lecture for TFOS DEWS II, American Academy Ophthalmology, Chicago
- 2019 Invited Speaker, Immunology of Corneal Transplantation, ARVO Half-Day Educational Course on Ocular Immunology, Vancouver.
- 2019 Invited Speaker, Corneal Transplantation, Duke Transplantation Day.
- 2021 Invited Speaker, Immune Responses in Neurotrophic Keratopathy. ARVO, virtual.
- 2021 Oral Presentation, Variant in the TNFR1 gene associated with response to topical anti-TNF α antibody fragment OCS-02 in patients with dry eye disease (DED).
- 2022 Invited Speaker, Role of Inflammation in Neurotrophic Keratopathy, Dompe Symposium. ASCRS
- 2022 Moderator, Special Interest Group (SIG), Ocular Graft vs Host Disease, ARVO.
- 2023 Visiting Professor, Department of Ophthalmology, University of California San Francisco.

International Meetings

- 2006 Invited Speaker, PanAmerican Association of Cornea (PanCornea), PanAmerican Association of American Ophthalmology (PAAO). Lo ultimo en transplante de Cornea de Alto Riesgo. Cancun, Mexico.
- 2006 Invited Speaker, International Congress of Eye Research. Gene Expression in the Cornea. Buenos Aires, Argentina.
- 2007 Invited Speaker, Mexican Society of Cornea Specialists. El Ojo Seco. Cabo San Lucas, Mexico.
- 2009 Invited Speaker, Montreal Ophthalmology Congress of Ophthalmology, Los Cabos, Mexico.
- 2009 Invited International Speaker, Argentina Congress of Ophthalmology, Buenos Aires, Argentina.
- 2009 Invited International Speaker, Colombia-Ecuador Cornea Society, Bogota, Colombia.

- 2008 Invited International Speaker, IX International Symposium Sociedad Argentina de Cirugia Refractiva, Cornea y Cataract. Buenos Aires, Argentina.
- 2009 Invited International Speaker, 1st Bascom Palmer and Asociacion Venezolana Academica de Oftalmologia (AVAO), Caracas, Venezuela.
- 2009 Invited International Speaker, Egyptian Ophthalmology Society. Cairo, Egypt.
- 2009 Visiting Professor, University of Medicine of Alexandria. "Update in Keratoprosthesis." Alexandria, Egypt
- 2010 Invited International Speaker, Dr. Alfonso Tribin Ferro Lecture, Departamento Oftalmologia, Universidad Del Bosque, Bogota, Colombia.
- 2010 Invited International Speaker: XII Mexican Congress of Cornea and Refractive Surgery, Cancun, Mexico.
- 2010 Invited Speaker, Epithelium Irregularity Factor (EIF): Novel Diagnostic Criteria for Dry Eye Disease. Tear Film and Ocular Surface Society Meeting. Florence, Italy.
- 2011 Invited International Speaker, SIMASP 2011 - Sao Paulo Meeting, Sao Paulo, Brazil
- 2011 Invited International Speaker, BRAVO 2011- Rio Janeiro, Brazil.
- 2011 International Speaker, Cornea and Refractive Congress, Lima, Peru.
- 2011 Organizer and International Speaker: Bascom Palmer and Ophthalmology Society of Uruguay Course, Montevideo, Uruguay.
- 2012 International Speaker, Paris Macula Society Meeting, France.
- 2012 Invited Speaker, WOC, Abu Dhabi, UAE
- 2012 International Speaker, Congreso Argentino Oftalmologia: CAO.
- 2012 International Speaker, Mexico Cornea and Refractive Conference
- 2012 Guest Speaker, ESCRS. Milan, Italy.
- 2012 International Speaker, Ecuador Congress of Ophthalmology.
- 2013 International Speaker, Update in Keratoprosthesis. Cuba Ophthalmology Congress. Habana, Cuba.
- 2013 International Speaker, Evaluation and Treatment of Ocular Cicatricial Conjunctivitis: PAAO Congress Meeting, Rio Janeiro, Brazil.
- 2013 International Speaker, SIMASP, Paulista University, Sao Paolo, Brazil.
- 2013 International Speaker, China ARVO.
- 2013 International Speaker, China Congress of Cornea and Refractive
- 2013 Keynote Speaker, 5th Chinese Congress of Research in Vision and Ophthalmology, Hangzhou, China, 2013.
- 2013 International Speaker, PAAO Santiago de Compostela, Spain.
- 2013 International Speaker, CAO (Congreso Argentino Oftalmologia), Argentina.
- 2013 International Speaker, PAAO Rio Janeiro, Brazil.
- 2013 International Speaker, Congreso Iberoamericano, Rosario, Argentina.
- 2013 International Speaker and Organizer, Fundacion Oftalmologica de Los Andes (FOLA) and Bascom Palmer Eye Institute Course
- 2013 International Speaker, Barbados Ophthalmology Society Meeting
- 2014 International Speaker, Congreso Argentino Oftalmologia, Buenos Aires.
- 2014 International Speaker, PAAO Regional Meeting, Uruguay.
- 2014 International Speaker, XXXII Congreso Mexicano de Oftalmología, Cancun, Mexico.
- 2014 International Speaker, Ocular Surface Inflammation: Learning from Ocular Graft vs. Host Disease. World Congress Ophthalmology. Tokyo, Japan.
- 2014 International Speaker, Ocular Graft vs Host Disease and Immune Mechanisms of Dry Eye. ISOPT Iceland
- 2015 International Speaker, Bascom Palmer Eye Institute and Ecuador Ophthalmology Society Meeting, Guayaquil, Ecuador
- 2015 International Speaker, APEC 52nd Congress in Cornea and Anterior Segment. Mexico.
- 2015 International Speaker, Congreso Oftalmologico Argentina, Buenos Aires.

- 2015 International Speaker, APAO Guangzhou, China
- 2015 Keynote Presentation, COST Action-Joining Force in Corneal Regeneration summer Meeting. Cologne
- 2015 Invited Speaker, K-Pro Study Group Meeting. Barcelona
- 2015 Invited International Speaker, Use of Blood Products in Regenerative Medicine, Universidad Internacional Menéndez Pelayo, Santander
- 2015 Invited International Speaker, Curso Anual del Centro Mexicano de Córnea y Cirugía Refractiva, Cancun.
- 2015 Invited International Speaker and Organizer, Bascom Palmer-Fundacion de Los Andes-Instituto Barraquer Ophthalmology Joint Meeting, Santiago, Chile.
- 2015 International Speaker, Translational Medicine in Anterior Segment Diseases. 3rd World Congress of Paediatric Ophthalmology & Strabismus. ESCRS Barcelona,
- 2016 Invited Professor, FOSCAL Institute Ophthalmology Course, Bucaramanga, Colombia
- 2016 Invited International Speaker, WOC 2016, Guadalajara, Mexico.
- 2016 Invited International Speaker, Iran ARVO, Tehran, Iran.
- 2016 Invited International Speaker, Cono a Cono Course, Vinas Del Mar, Chile.
- 2016 Invited International Speaker, PAAO Regional Course and Paraguay Ophthalmology Society, Asuncion, Paraguay.
- 2016 Invited International Speaker, ASOCorena, Cartagena, Colombia
- 2016 Invited International Speaker, Italian Ocular Surface and Stem Cell Meeting, Carreta, Italy.
- 2016 Invited Speaker, Tear Film and Ocular Surface Meeting, Montpellier, France.
- 2016 Invited Speaker, Reconstruccion de la Cornea y Superficie Ocular, Asociacion para Prevenir la Ceguera (APEC), Mexico.
- 2016 Invited Speaker, Kyoto Cornea Club, Kyoto, Japan.
- 2017 Invited Speaker and Director, Sociedad de Oftalmologia de Ecuador y Bascom Palmer Curso Educacional, Quito Ecuador.
- 2017 Invited Speaker, ASOCornea, Congreso de Cornea y Catarata Colombiano, Barranquilla, Colombia.
- 2017 Invited Speaker, Congreso Argentino de Oftalmologia, Buenos Aires, Argentina.
- 2017 Invited Speaker, Fundacion Oftalmologica de los Andes (FOLA), Annual Meeting, Santiago, Chile
- 2017 International Invited Speaker, Congreso de Cornea y Cirugia Sociedad de Oftalmologia de Baja California.
- 2017 Invited International Speaker, PAAO Regional Course and Paraguay Ophthalmology Society, Asuncion, Paraguay.
- 2017 Invited International Speaker, Baja California Ophthalmology Congress, Tijuana, Mexico.
- 2018 Invited International Speaker, Canada Ophthalmology Society.
- 2018 Organizer, PanCornea Congress II, Cartagena, Colombia
- 2018 Invited International Speaker, Congreso Oftalmologia de Colombia, Cartagena, Colombia.
- 2018 Invited International Speaker, Ophthalmology Brazilian Congress, Maceio, Brazil.
- 2018 Invited International Speaker, University of Sao Paulo Congress, Brazil
- 2019 Invited International Speaker, Ecuador Ophthalmology Society and Bascom Palmer Course.
- 2019 Invited Speaker, 4th Steven Johnsons International Workshop, Kyoto, Japan.
- 2019 Invited International Speaker, SIMASP (Universidad Paulista Congress), Sao Paulo, Brazil.
- 2019 Invited International Speaker, Sociedad Española de Superficie Ocular y Córnea (SESOC), Madrid, Spain.

- 2019 Invited International Speaker, Peru Congreso de Catarata y Cornea Lima, Lima Peru.
- 2019 Invited International Speaker, Dominican Republic Ophthalmology Congress, Punta Cana
- 2019 Organizer: Duke Course Costa Rica, Costa Rica Ophthalmology Society
- 2019 Invited Speaker, Panamerican Academy of Ophthalmology, Cancun, Mexico.
- 2020 Invited Speaker, 5th Steven Johnsons International Workshop, Kyoto, Japan.
- 2020 Invited Speaker, TFOS Update, Bogota Cornea and Refractive Surgery Congress
- 2021 Invited Speaker, Colombia Ophthalmology Society Meeting.
- 2021 Invited Speaker and Medal Award Lecture, XIX S.I.C.S.S.O. (International Society of Cornea Stem Cells and Ocular Surface), Virtual, Bari, Italy
- 2022 Invited Speaker XX S.I.C.S.S.O. (International Society of Cornea Stem Cells and Ocular Surface), Florence, Italy.
- 2022 Invited Discussant, TFOS Workshop Dry Eye and Lifestyle, Sicily, Italy.

Instructional Courses, workshops, symposiums

- 2005 Invited speaker, St. Louis Ophthalmology Society, St. Louis, MO. Scleritis and Clinical Implications.
- 2006 Course Speaker, Internal Medicine Grand Rounds Conference, Cleveland Clinic Foundation, Cleveland. Ocular Manifestation of Systemic Diseases.
- 2010 Invited Speaker, SECO International Conference, Southern Conference in Optometrist Education, Atlanta, GA.
- 2010 Invited Speaker, Puerto Rico Society Rheumatology Annual Meeting. Isabela, Puerto Rico.
- 2010 Invited Speaker, Keratoprosthesis Course Advancement in Visual Rehabilitation, Weil Cornell Medical School, NY
- 2012 Uveitis Specialty Day: Infectious vs Non-Infectious Uveitis. AAO
- 2012 Invited Speaker, Cornea Day, ASCRS, Chicago, IL.
- 2013 Invited Speaker Castroviejo Symposium. K-Pro, Why do it?. AAO New Orleans.
- 2014 Key Note Speaker, PAAO Research Day, Orlando.
- 2015 Invited Speaker, VII World Cornea Congress, San Diego , California
- 2015 Mechanism and Treatment of Peripheral Ulcerative Keratitis. Cornea Specialty Day, American Academy of Ophthalmology, Las Vegas, Nevada.
- 2015 Scleritis: Inflammation vs Infection. Spotlight on Ocular Infections American Academy of Ophthalmology, Las Vegas, Nevada
- 2016 Courses: New Concepts in the Treatment of Dry Eye. American Academy of Ophthalmology, Chicago, Ill.
- 2016 Course: Meibomian Gland Dysfunction Therapy. American Academy of Ophthalmology, Chicago Ill.
- 2016 Course: Surgical Management of Inflammatory Ocular Diseases. American Academy of Ophthalmology, Chicago, Ill.
- 2016 Course: Ocular Surface Reconstruction. American Academy of Ophthalmology, Chicago, Ill.
- 2017 American Academy of Optometry and American Academy of Ophthalmology Joint Symposium: Ocular Surface Disease: What You May Be Missing
- 2017 American Academy of Ophthalmology, Step ladder approach to treat ocular surface diseases, New Orleans.
- 2017 American Academy of Ophthalmology, Ocular Surface Reconstruction. New Orleans.
- 2017 American Academy of Ophthalmology and American Academy of Optometry and Joint Symposium: Ocular Surface Disease: What You May Be Missing
- 2017 Invited Organizer, El Curso, Bascom Palmer Eye Institute, Latin American Course.

- 2018 Course Instructor: Illinois Eye Review, Univeristy of Illinois Chicago.
- 2018 Faculty, Understanding ocular GVHD. Duke Cornea Meeting, Durham, NC
- 2019 Faculty, Use of Biological Therapies in Ocular Surface Disorders, Duke Cornea Meeting, Durham, NC
- 2019 Invited Speaker, Cicatrizing Conjunctivitis, Cornea 360 Meeting, Arizona
- 2019 Invited Speaker, Ocular Inflammation, Puerto Rico Rheumatology Society, Puerto Rico
- 2019 Invited Speaker, Scleral Melt: Too Hot to Patch?Cornea Sub-Specialty Day, American Academy Ophthalmology, San Fco
- 2019 Course Instructor: Step by Step Approach to Dry Eye, AAO, San Fco
- 2021 Moderator, Sig Course: New-Perspective: Ocular Graft-versus-Host Disease is more than just another form of dry-eye disease. ARVO 2021: virtual
- 2021-2023 Step-by-Step Approach to Dry Eye Disease, AAO 2021, New Orleans.
- 2021-2023 Treatments of Meibomian Gland Dysfunction, AAO 2021, New Orleans.
- 2022 Invited Speaker, Bascom Palmer International Latin American Course, El Curso, Miami, Florida.

Education / Teaching activities

- 2002-2006 Cleveland Clinic Education: Intensive Review of Internal Medicine. Ophthalmology Review
- 2002-2006 Resident Lecture, Cornea/Uveitis. Cole Eye Institute
- 2005-2006 Cleveland Clinic Lerner College of Medicine Basic and Translational Research Block Mentor
- 2006-present Resident Lecture, Cornea/Uveitis. Bascom Palmer Eye Institute.
- 2008-Present Vision Science Research Seminar Series Organizer, Bascom Palmer Eye Institute Resaearch Department.
- 2009-2016 Resident Lecture, Medical and Surgical Management of Ocular Surface Disorders. Bascom Palmer Eye Institute
- 2007 – 2016 Co-Director Bascom Palmer Interamerican Course
- 2015 – 2016 Director Bascom Palmer Ocular Surface Course
- 2018 Duke Eye Institute, Cornea Course
- 2018 The Illinois Eye Review, Faculty, University of Illinois Chicago.
- 2019, 2022 Duke Eye Institute, Cornea Course

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