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HIGHER EDUCATION

11/2013 – 01/2016 Doctor of Philosophy (PhD), University of Navarra, Pamplona, Spain
09/2003 – 05/2009 Doctor of Medicine (MD), University of Valencia, Valencia, Spain

PROFESSIONAL EXPERIENCE

06/2023 – Current Associate Professor of Clinical Ophthalmology
Bascom Palmer Eye Institute, University of Miami Miller School of Medicine

04/2023 – Current Medical Director, Ocular Surface Program
Bascom Palmer Eye Institute, University of Miami Miller School of Medicine

06/2018 – 05/2023 Assistant Professor of Clinical Ophthalmology
Bascom Palmer Eye Institute, University of Miami Miller School of Medicine

01/2018 – 06/2018 Instructor of Clinical Ophthalmology
Bascom Palmer Eye Institute, University of Miami Miller School of Medicine

01/2017 – 01/2018 Clinical Fellow, Corneal and External Diseases
Bascom Palmer Eye Institute, University of Miami Miller School of Medicine

07/2015 – 01/2017 Research Fellow, Ocular Surface Diseases
Bascom Palmer Eye Institute, University of Miami Miller School of Medicine

09/2014 – 04/2015 Research Fellow, Cell Therapy and Tissue Engineering
Clínica Universidad de Navarra, University of Navarra, Spain

05/2010 – 05/2014 Resident of Ophthalmology
Clínica Universidad de Navarra, University of Navarra, Spain

OTHER POSITIONS

Since 2018 Founder and Chief Vision Officer, OcuBio LLC

Since 2018 Co-Founder and Chief Scientific Officer, TissueCor LLC

NATIONAL AND INTERNATIONAL SERVICE

2025 Chair, Data and Safety Monitoring Board (KB801-01), Krystal Biotech

Since 2022 Research Committee Member, Eye Bank Association of America

Since 2020 Board Member, Pan-American Cornea Society (PanCornea)

CLINICAL AND RESEARCH ELECTIVES

11/2014	Clinical, Cornea & External Diseases Unit Moorfields Eye Hospital, London, UK
05/2014	Clinical, Cornea & External Diseases Unit Bascom Palmer Eye Institute, Miami, FL, USA
03/2013	Clinical, Cornea & External Diseases Unit Keio University, Tokyo, Japan
05-06/2009	Clinical, Cardiology Department University Hospital Lewisham, King's College London, UK
10-12/2008	Clinical, Department of Epidemiology and Public Health Ambulatorio Rural de Manapiare, Amazonas, Venezuela
07-08/2008	Clinical, Neurosurgery Department MD Anderson Cancer Center and St. Luke's Episcopal Hospital Baylor College of Medicine, Houston, TX, USA
07-08/2007	Research, Ocular Surface Center, Miami, FL, USA
07-08/2005	Research, Ocular Surface Center, Miami, FL, USA

MEDICAL LICENSURE

Florida Medical License (USA) (04/2018 - Present)

Faculty Medical Certificate (USA), (06/2016 - 04/2018)

Spanish Medical License (05/2010 - Present)

SPONSORED RESEARCH

2026	ARPA-H Oculab
2025	National Institute of Health (1R01EY036103-01A1)
2024	EBAA High Impact Research Award, Eye Bank Association of America
2024	Sponsored Research Agreement (Abbvie)
2024	Research Award, Beauty of Sight Foundation
2024	Research Award, Sinskey Foundation
2023	Sponsored Research Agreement (Abbvie)
2023	Research Award, Beauty of Sight Foundation
2023	Research Award, Sinskey Foundation
2022	Research Award, Beauty of Sight Foundation
2022	US Air Force STTR Award Phase II
2021	Research Award, Beauty of Sight Foundation

2021	Pilot Research Award, Eye Bank Association of America
2020	Research Award, Beauty of Sight Foundation
2020	US Air Force STTR Award Phase I
2019	Research Award, Beauty of Sight Foundation
2018	Research Award, Beauty of Sight Foundation
2017	Research Award, Florida Lions Eye Bank
2016	Research Award, Florida Lions Eye Bank

HONORS & AWARDS

2026	Stanley J. Glaser Foundation Research Award
2024	Visiting Professor, University of California San Francisco.
2018	Emerging Vision Scientist, National Alliance for Eye and Vision Research
2018	Richard Lindstrom Award, Eye Bank Association of America
2017	Extraordinary Ph.D. Thesis Award, Universidad de Navarra, Pamplona, Spain
2016	Scholarship, Alfonso Martín Escudero Foundation, Spain
2012	Best Communication Award: "Experimental Surgery in Ophthalmology", XII Festival Nacional de Videofthalmología, Spain
2011	Best Communication Award: "Set up of an Experimental Operation Theater for Residents in Ophthalmology", XXIII Congreso de la Asociación Oftalmológica del Norte, Spain
2008	Research Award, National Ministry of Education, Social Politics and Sport, Spain

PUBLICATIONS

Peer-Reviewed Journal Articles

1. Ghalibafan S, John AA, Djalilian AR, **Sabater AL**. "Clinical Evidence on Allogeneic Blood-Derived Eye Drops in Ocular Surface and Corneal Diseases". *Ocul Surf*. 2026 Mar 5:S1542-0124(26)00032-7.
2. Wolffsohn JS, Benítez-Del-Castillo J, Loya-Garcia D, Inomata T, Iyar G, Liang L, Pult H, **Sabater AL**, Starr CE, Vehof J, Wang MM, Chen W, Craig JP, Dogru M, Quinones VLP, Stapleton F, Sullivan DA, Jones L; TFOS 合作者小组. TFOS DEWS III. *Am J Ophthalmol*. 2025 Oct 18:S0002-9394(25)00554-9.
3. Karanxha J, Cipolla J, Ojeda DA, Orgul S, Llanes KN, Gomez A, Buras W, Fout E, Tan CH, Dubovy SR, **Sabater AL**. Safety of a novel dual-chamber vial for corneal preservation. *Exp Eye Res*. 2025 Aug 30;260:110614.
4. John AA, Ahmadzadeh H, **Sabater AL**. Developing stem cells for corneal disease: recent developments and future perspectives. *Regen Med*. 2025 Jun;20(6):257-274.
5. Ojeda DA, Ahmadzadeh H, Orgul S, Bedoya AG, Gupta S, Held K, Swaminathan SS, **Sabater AL**. Reference genes validation in tear fluid for RNA analysis in ocular surface disease. *Sci Rep*. 2025 Jul 9;15(1):24777.

6. Wolffsohn JS, Benítez-Del-Castillo J, Loya-Garcia D, Inomata T, Iyar G, Liang L, Pult H, **Sabater AL**, Starr CE, Vehof J, Wang MT, Chen W, Craig JP, Dogru M, Quinones VLP, Stapleton F, Sullivan DA, Jones L; TFOS collaborator group. TFOS DEWS III Diagnostic Methodology. *Am J Ophthalmol*. 2025 May 30:S0002-9394(25)00275-2.
7. Gijs M, van de Sande N, Bonnet C, Schmeetz J, Fernandes R, Travé-Huarte S, Huertas-Bello M, Bo Chiang JC, Boychev N, Sharma S; Tear Research Network Scoping Review taskforce. A comprehensive scoping review of methodological approaches and clinical applications of tear fluid biomarkers. *Prog Retin Eye Res*. 2025 Feb 13;106:101338.
8. Orgul S, Bedoya AG, Pérez VF, Mora DR, **Sabater AL**, Miller D, Holgado M. Fungal infection monitoring on corneal epithelium ex vivo model and its collection over polyethersulfone membrane for detecting *Candida albicans* and *Aspergillus fumigatus*. *Med Microbiol Immunol*. 2025 Feb 7;214(1):9.
9. Mulpuri L, Ouano DP, Riaz KM, Warner EJ, Stone DU, Cheung AY, Gomez A, Rangu N, **Sabater AL**, Tonk RS. Intracameral Enoxaparin for Descemet Membrane Endothelial Keratoplasty: A Pilot Safety Study. *Cornea*. 2025 Mar 1;44(3):342-349.
10. Ruiz-Lozano RE, Quiroga-Garza ME, Ramos-Dávila EM, Pantaleón-García J, Khodor A, Komai S, Rodriguez-Gutierrez LA, Ma S, Mousa HM, Mattes R, Stinnett SS, **Sabater AL**, Perez VL. Comparative Evaluation of the Corneal Sensitivity Thresholds between the Novel Non-Contact and Cochet-Bonnet Esthesiometers. *Am J Ophthalmol*. 2025 Mar;271:407-416.
11. Simon L, Murillo BA, **Sabater AL**. A comprehensive update on over the counter artificial tears. *Curr Opin Ophthalmol*. 2025 Jan 1;36(1):76-82.
12. Mercado C, Hernández C, Lopez-Rojas C, De La Sen-Corcuera B, Anitua E, Barraquer JI, Gutiérrez A, Otero E, **Sabater AL**. Safety of intraoperative autologous plasma incubation of corneal grafts for reducing endothelial cell loss: a pilot study. *Front Med (Lausanne)*. 2024 Aug 12;11:1368117.
13. Cipolla J, Minhee J, **Sabater AL**. A Comprehensive Review of Donor Corneal Preservation Strategies. *Cornea*. 2024 Aug 2.
14. Villalba M, Sabates V, Ghalibafan S, Perez VL, Swaminathan SS, **Sabater AL**. Detection of Subclinical Neurotrophic Keratopathy by Noncontact Esthesiometry. *Ophthalmol Ther*. 2024 Jul 19.
15. Tovar AA, Sayed-Ahmed I, Gomez J, Chen H, Agostini B, Carroll K, Parry T, Krishnan S, **Sabater AL**. Ocular Gene Therapy in a Patient with Dystrophic Epidermolysis Bullosa. *N Engl J Med*. 2024 Feb 8;390(6):530-535.
16. Roucate E, Huertas-Bello M, **Sabater AL**. Novel treatments for dry eye syndrome. *Curr Opin Pharmacol*. 2024 Apr;75:102431.
17. Carnero E, Irigoyen-Bañegil C, Gutiérrez I, Extramiana L, **Sabater AL**, Moreno-Montañes J. Comparison of transcriptomic analysis of the conjunctiva in glaucoma-treated eyes with dry eyes and healthy controls. *Biomolecules*. 2023 Dec 25;14(1):30.

18. Ghalibafan S, Osei K, Amescua G, **Sabater AL**. Efficacy of Plasma Rich in Growth Factors (PRGF) in Stage 1 Neurotrophic Keratitis. *Eye (Lond)*. 2023 Dec 30.
19. Sayed MS, Khodeiry MM, Elhousseiny AM, **Sabater AL**, Lee RK. Neurotrophic Keratopathy After Slow Coagulation Transscleral Cyclophotocoagulation. *Cornea*. 2023 Aug 1.
20. Tovar AA, Frankel ST, Galor A, **Sabater AL**. Living with Dry Eye Disease and its Effects on Quality of Life: Patient, Optometrist, and Ophthalmologist Perspectives. *Ophthalmol Ther*. 2023 Jun 16.
21. Ghalibafan S, Osei KA, Hoffman JE, **Sabater AL**. Ocular surface changes associated with belantamab mafodotin treatment. *Graefes Arch Clin Exp Ophthalmol*. 2023 May 22.
22. Soifer M, Azar NS, Blanco R, Mousa HM, Ghalibafan S, Tovar A, Mettu PS, Allingham MJ, Cousins SW, **Sabater AL**, Perez VL. Fluorescein CorneoGraphy (FCG): Use of a repurposed fluorescein imaging technique to objectively standardize corneal staining. *Ocul Surf*. 2022 Dec 1:S1542-0124(22)00116-1.
23. Serrano, A., Osei, K.A., Huertas-Bello, M., **Sabater AL**. The Potential of Stem Cells as Treatment for Ocular Surface Diseases. *Curr Ophthalmol Rep* (2022).
24. Serrano A, Gomez-Bedoya A, Tovar AA, Huertas-Bello M, Amescua G, Koo EH, Cabot F, Hadad R, Dubovy SR, de Rivero Vaccari JP, **Sabater AL**. Intraocular inflammasome signaling in failed corneal transplants. *Eye (Lond)*. 2022 Sep 12.
25. Mandell JT, Vaccari JPR, **Sabater AL**, Galor A. The inflammasome pathway: A key player in ocular surface and anterior segment diseases. *Surv Ophthalmol*. 2022 Jul 4:S0039-6257(22)00087-X.
26. Xie J, Gao Q, Del Prado ZN, Venkateswaran N, Mousa HM, Salero E, Ye J, De Juan-Pardo EM, **Sabater AL**, Perez VL. Establishment of a bi-layered tissue engineered conjunctiva using a 3D-printed melt electrowritten poly-(ϵ -caprolactone) scaffold. *Int Ophthalmol*. 2022 Aug 6.
27. Gomez A, Mercado C, Venkateswaran N, Sen-Corcuera B, Miller D, Dubovy S, Salero E, **Sabater AL**. Brief incubation of corneal grafts in activated platelet rich plasma enhances corneal endothelial cell survival and regeneration. *Exp Eye Res*. 2022 Apr 30:109100.
28. Soifer M, Tovar A, Wang M, Mousa HM, Yennam S, **Sabater AL**, Pflugfelder SC, Perez VL. A multicenter report of the use of plasma rich in growth factors (PRGF) for the treatment of patients with ocular surface diseases in North America. *Ocul Surf*. 2022 Apr 27;25:40-48.
29. Tovar A, Gomez A, Serrano A, Perez Blanco M, Galor A, Swaminathan SS, de Rivero Vaccari JP, **Sabater AL**. Role of Caspase-1 as a Biomarker of Ocular Surface Damage. *Am J Ophthalmol*. 2022 Feb 10:S0002-9394(22)00036-8.
30. Gallo RA, Lang SH, Gomez A, **Sabater AL**, Tse DT, Pelaez D, Rong AJ. Effects of mitomycin-C and 5-fluorouracil on ocular adnexal sebaceous carcinoma cells. *Am J Ophthalmol*. 2022 Jan 4:S0002-9394(21)00660-7.
31. Levine H, Sepulveda-Beltran PA, Altamirano DS, **Sabater AL**, Dubovy SR, Flynn HW, Amescua G. Risk and Impact of Severe Acute Respiratory Syndrome Coronavirus 2 Infection on Corneal Transplantation: A Case-Control Study. *Cornea*. 2022 Feb 1;41(2):224-231.
32. Gao Q, Xie J, Salero E, Nuñez del Prado Z, Hutmacher DW, Ye J, De Juan-Pardo EM, **Sabater AL**, Perez VL. Tissue Engineering of Corneal Stroma via Melt Electrowriting. *J Tissue Eng Regen Med*. 2021 Jul 29.

33. Kim M, Lee Y, Mehra D, **Sabater AL**, Galor A. Dry eye: why artificial tears are not always the answer. *BMJ Open Ophthalmol*. 2021 Apr 8;6(1):e000697.
34. Gomez A, Serrano A, Salero E, Tovar A, Amescua G, Galor A, Keane RW, de Rivero Vaccari JP, **Sabater AL**. Tumor necrosis factor-alpha and interferon-gamma induce inflammasome-mediated corneal endothelial cell death. *Exp Eye Res*. 2021 Apr 17;207:108574.
35. **Sabater AL**, Mousa HM, Quinones X, Valenzuela F, Sanchez Avila RM, Orive G, Anitua E, Merayo J, Perez VL. Use of autologous plasma rich in growth factors fibrin membrane in the surgical management of ocular surface diseases. *Int Ophthalmol*. 2021 Mar 21. doi: 10.1007/s10792-021-01788-z. Epub ahead of print. PMID: 33745034.
36. Tovar AA, **Sabater AL**. Autologous blood products: when, where, and how? *Curr Ophthalmol Rep*. 2021.
37. Tovar AA, White IA, **Sabater AL**. Use of Acellular Umbilical Cord-Derived Tissues in Corneal and Ocular Surface Diseases. *Medicines (Basel)*. 2021 Feb 9;8(2):12.
38. Bosch BM, Salero E, Núñez-Toldrà R, **Sabater AL**, Gil FJ, Perez RA. Discovering the Potential of Dental Pulp Stem Cells for Corneal Endothelial Cell Production: A Proof of Concept. *Front Bioeng Biotechnol*. 2021 Jan 28;9:617724.
39. Naranjo A, Pirakitikulr N, Pelaez D, **Sabater AL**, Monsalve P, Amescua G, Galor A, Dubovy SR. Clinicopathologic Correlations of Retrocorneal Membranes Associated With Endothelial Corneal Graft Failure. *Am J Ophthalmol*. 2020 Aug 15;222:24-33.
40. Hubschman S, Rojas M, Kalavar M, Kloosterboer A, **Sabater AL**, Galor A. Association Between Early Sjögren Markers and Symptoms and Signs of Dry Eye. *Cornea*. 2020 Oct 16.
41. Naranjo A, Pelaez D, Arrieta E, Salero-Coca E, Martinez JD, **Sabater AL**, Amescua G, Parel JM. Cellular and molecular assessment of rose bengal photodynamic antimicrobial therapy on keratocytes, corneal endothelium and limbal stem cell niche. *Exp Eye Res*. 2019 Nov;188:107808.
42. White IA, **Sabater AL**. Current strategies for human corneal endothelial regeneration. *Regen Med*. 2019 May;14(4):257-261.
43. Ding W, Yousefi K, Goncalves S, Goldstein BJ, **Sabater AL**, Kloosterboe A, Ritter P, Lambert G, Mendez, Shehadeh LA. Osteopontin Deficiency Ameliorates Alport Pathology by Preventing DNM3- and LDLR-mediated Cholesterol Influx and Mitochondrial Energetic Deficit. *JCI Insight*. 2018 Mar 22;3(6).
44. **Sabater AL**, Perez VL. Amniotic membrane use for management of corneal limbal stem cell deficiency. *Curr Opin Ophthalmol*. 2017 Apr 19.
45. **Sabater AL**, Andreu EJ, García-Guzmán M, López T, Abizanda G, Perez VL, Moreno-Montañés J, Prósper F. Combined PI3K/Akt and Smad2 Activation Promotes Corneal Endothelial Cell Proliferation. *Invest Ophthalmol Vis Sci*. 2017 Feb 1;58(2):745-754.
46. Guarnieri A, **Sabater AL**, Barrio-Barrio J, Moreno-Montañés J. Adjustable centration of subluxated multifocal intraocular lens in upright position. *J Cataract Refract Surg*. 2016 Oct;42(10):1541-1542.
47. Guarnieri A, Moreno-Montañés J, **Sabater AL**. Case Report: Explantation of A Binkhorst Iridocapsular Lens >30 Years After Implantation in an Eye With Pseudoexfoliation Syndrome. *Medicine (Baltimore)*. 2015 Aug;94(34):e1444.

48. Barrio-Barrio J, **Sabater AL**, Bonet-Farriol E, Velázquez-Villoria Á, Galofré JC. Graves' Ophthalmopathy: VISA versus EUGOGO Classification, Assessment, and Management. *J Ophthalmol*. Epub 2015 Aug 17.
49. Moreno-Montañés J, Velázquez-Villoria A, **Sabater AL**, Salinas-Alamán A. Intraocular lens dislocation and tube shunt in the posterior chamber: a case report. *BMC Ophthalmol*. 2015 Jun 21;15(1):63.
50. Guarnieri A, Moreno-Montañés J, Alfonso-Bartolozzi B, **Sabater AL**, García-Guzmán M, Andreu EJ, Prosper F. Quantification of corneal neovascularization after ex vivo limbal epithelial stem cell therapy. *Int J Ophthalmol*. 2014 Dec 18;7(6):988-95.
51. Moreno-Montañés J, **Sabater AL**. Surgical pearl: Capsular tension ring insertion technique. *J Cataract Refract Surg*. 2014 Oct;40(10):1753.
52. **Sabater AL**, Velázquez-Villoria A, Zapata MA, Figueroa MS, Suárez-Leoz M, Arrevola L, Teijeiro MA, García-Layana A. Evaluation of macular retinal ganglion cell-inner plexiform layer thickness after vitrectomy with internal limiting membrane peeling for idiopathic macular holes. *Biomed Res Int*. 2014;2014:458631.
53. Moreno-Montañés J, **Sabater AL**, Guarnieri A, Zarranz-Ventura J, Riverol M. Bilateral and simultaneous intraocular lens subluxation in essential blepharospasm. *Mov Disord Clin Pract*. In Press.
54. **Sabater AL**, Guarnieri A, Moreno-Montañés J. Histomorphological Analysis of a Ridley Intraocular Lens Implanted 45 Years Ago. *Br J Ophthalmol*. 2014 Mar 18.
55. Moreno-Montañés J, Guarnieri A, **Sabater AL**, Velázquez A. Cirugía de cataratas tras cirugía filtrante de glaucoma: estrategias para evitar el fallo de la ampolla. *Revista Española de Glaucoma e Hipertensión Ocular* 2014;3(3):226-232.
56. Saenz-de-Viteri M, Fernández-Robredo P, de Nova E, Bonet-Farriol E, **Sabater AL**, Zarranz-Ventura J, Caire J, Sádaba LM, Salinas-Alamán A, García-Layana A. Comparative study measuring the dilatatory effect of a mydriatic device (Mydriaser[®]) versus topical drops. *Int J Ophthalmol*. 2013 Dec 18;6(6):801-4.
57. Moreno-Montañés J, Martínez-de-la-Casa JM, **Sabater AL**, Morales L, Sáenz C, García-Feijoo J. Clinical Evaluation of the New Rebound Tonometers Icare PRO and Icare ONE Compared With the Goldmann Tonometer. *J Glaucoma*. 2014 May 19.
58. Guarnieri A, Moreno-Montañés J, **Sabater AL**, Gosende-Chico I, Bonet-Farriol E. Final incisión size after cataract surgery with toric intraocular lens implantation using 2 techniques. *J Cataract Refract Surg*. 2013 Aug 22.
59. **Sabater AL**, Guarnieri A, Espana EM, Li W, Prósper F, Moreno-Montañés J. Strategies of human corneal endothelial tissue regeneration. *Regen Med*. 2013 Mar;8(2):183-95.
60. **Sabater AL**, Sadaba LM, de Nova E. Ocular symptoms secondary to meningeal carcinomatosis in a patient with lung adenocarcinoma: a case report. *BMC Ophthalmol*. 2012 Dec 18;12:65.
61. Moreno-Montañés J, **Sabater AL**, Barrio-Barrio J, Pérez-Valdivieso JR, Cacho-Asenjo E, García-Granero M. Risks factors and regression model for risk calculation of anesthesiologic intervention in topical and intracameral cataract surgery. *J Cataract Refract Surg*. 2012 Oct 18.
62. Guarnieri A, **Sabater AL**, Moreno-Montañés J. Management of retained lens nuclear fragment after cataract surgery. *J Cataract Refract Surg*. 2011 Nov;37(11):2087.

63. Barrio J, **Sabater AL**, Velázquez A. Protocolo diagnóstico y terapéutico para la oftalmopatía tiroidea. Acta Estrabológica. 2011 Vol. XL, Julio-Diciembre; 2: 00-00.
64. Li W, **Sabater AL**, Chen YT, Hayashida Y, Chen SY, He H, Tseng SC. A novel method of isolation, preservation, and expansion of human corneal endothelial cells. Invest Ophthalmol Vis Sci. 2007 Feb;48(2):614-20.

Books

1. Jesús Barrio Barrio, Angel Salinas Alamán, Javier Moreno Montañés, Alfredo García Layana, Luis Manuel Sádaba Echarri, Adriano Guarnieri, Elisa de Nova Fernández-Yáñez, Elvira Bonet Farriol, Alfonso Sabater Gozalvo, Alvaro Velázquez Villoria. Oftalmología de Bolsillo. 2ª. Ed. Glosa, Barcelona, 2012.

Books Chapters

1. Robby Mattes, Alfonso L. Sabater. Corneal Imaging Techniques for Dry Eye Disease. In Dry Eye Disease Clinical Trial Endpoints - Current State of the Art and Future Perspectives. 2023.
2. Javier Moreno Montañés, Alfonso L. Sabater, Elvira Bonet Farriol. Córnea y glaucoma. Ponencia de la Sociedad Española de Oftalmología 2013.
3. Javier Moreno Montañés, Alfonso L. Sabater, Elvira Bonet Farriol. Lentes intraoculares luxadas y subluxadas. En Atlas de Técnicas Complejas en la Cirugía del Segmento Anterior. 2013, 177-200. Sociedad Española de Cirugía Ocular Implanto-Refractiva.
4. Alfredo García Layana, Elisa de Nova Fernández-Yáñez, Aurora Álvarez Vidal, Alfonso L. Sabater, Elvira Bonet Farriol, Ángel Salinas Alamán. Tomografía Óptica de Coherencia en Degeneración Macular Asociada a la Edad. Ponencia de la Sociedad Española de Oftalmología 2011.
5. Alfredo García Layana, Javier Zarranz Ventura, Alfonso L. Sabater, Mónica Pérez Arcelus, Elvira Bonet Farriol, Elisa De Nova Fernández-Yañez, Ángel Salinas Alamán. Optical Coherence Tomography in Age-Related Macular Degeneration. AMD Revision Book, Chapter 24.
6. Luis Miguel Sádaba, Elisa de Nova Fernández-Yáñez, Alfonso L. Sabater, Ángel Salinas-Alamán. Linfoma intraocular primario: tratamiento con rituximab intravítreo. Uveítis 2011: casos excepcionales.
7. Javier Moreno Montañés. Alfonso L. Sabater, Jesús Barrio Barrio. Paquimetría. Principios básicos y Aplicación Clínica. En Métodos Diagnósticos en Segmento Anterior. 2011, 137-142. Sociedad Española de Cirugía Ocular Implanto-Refractiva.

Abstracts and Poster Presentations

1. Sarp Orgul, Kavya Jasti, Amanda Gonzalez Garcia, Valentina Vega, Angela Gomez Bedoya, Elizabeth Fout, Darlene Miller, Alfonso L. Sabater. Preservation of corneal endothelium: use of a dual chamber vial for minimizing amphotericin-b related toxicity during corneal graft storage. ARVO, Seattle, USA (May 5-9, 2024)
2. Angela Gomez Bedoya, Sarp Orgul, Maria E Fernandez D C D Duque, Diego Ojeda Pedraza, Juan Pablo de Rivero, Alfonso L. Sabater. Assessing ocular surface inflammasome response in a benzalkonium chloride-induced dry eye disease mouse model. ARVO, Seattle, USA (May 5-9, 2024)

3. Cristina Irigoyen-Bañegil, Elena Carnero González, Itziar Gutiérrez, Leire Extramiana, Alfonso L. Sabater, Javier Moreno-Montanes. A comparative analysis of conjunctival transcriptomic changes in glaucoma patients under topical medication and individuals with dry eye. ARVO, Seattle, USA (May 5-9, 2024)
4. Robby Mattes, Victor Sabatés, Angela Gomez-Bedoya, Diego Ojeda, Javier Paredes, Alfonso L. Sabater. Comparison study between Brill's non-contact and Cochet-Bonnet esthesiometers to determine corneal sensitivity in dry eye disease patients. ARVO, Seattle, USA (May 5-9, 2024)
5. Diego Ojeda Pedraza, Sarp Orgul, Angela Gomez Bedoya, Maria E Fernandez D C D Duque, Javier Paredes, Alfonso L. Sabater. Tear RNA-based diagnostic method for analyzing inflammasome activation in dry eye disease. ARVO, Seattle, USA (May 5-9, 2024)
6. Arianna Tovar, Jennifer Gomez, Hubert Chen, Brittani Agostini, Alfonso L. Sabater. "Beremagene Geperpavec for Bilateral Cicatrizing Conjunctivitis in a Patient With Dystrophic Epidermolysis Bullosa". AAO, San Francisco, USA (Nov 3, 2023)
7. Marta Villalba, Victor Sabates, Swarup S. Swaminathan, Alfonso L. Sabater. "Changes in Corneal Sensitivity Measured With a Novel Noncontact Esthesiometer in Dry Eye Disease". AAO, San Francisco, USA (Nov 3, 2023)
8. Alfonso L. Sabater, Arianna Tovar, Jennifer Gomez, Trevor Parry, Hubert Chen, Brittani Agostini, Suma Krishnan. "Compassionate use of topical beremagene geperpavec (B-VEC) for the treatment of recurrent cicatrizing conjunctivitis in a patient with dystrophic epidermolysis bullosa". ARVO, New Orleans, USA (May 23, 2023)
9. Seyyedehfatemeh Ghalibafan, Kwaku A. Osei, Guillermo Amescua, Alfonso L. Sabater. "Efficacy of Plasma Rich in Growth Factors (PRGF) in Stage 1 Neurotrophic Keratitis". ARVO, New Orleans, USA (May 27, 2023)
10. Marta Villalba, Marcela Huertas-Bello, Swarup S. Swaminathan, Alfonso L. Sabater. "Changes in Corneal Sensitivity Measured With a Novel Noncontact Esthesiometer in Glaucoma Patients". ARVO, New Orleans, USA (May 23, 2023)
11. Joana Karanxha, Katrina Nicole Llanes, Angela M Gomez Bedoya, William Buras, Elizabeth Fout-Caraza, Sander Dubovy, Alfonso L Sabater. "A Pilot Study Using a Dual-Chamber Corneal Storage Vial". AAO, Chicago, USA (October 3, 2022)
12. Seyyedehfatemeh Ghalibafan, Andrew Kowalski, Rahul S Tonk, Guillermo Amescua, Alfonso L Sabater. Changes in Ocular Surface Parameters Following Belantamab Mafodotin Treatment. AAO, Chicago, USA (October 2, 2022)
13. Carolina Mercado, Ernesto Otero, Alfonso L. Sabater. "Safety and Efficacy of Intraoperative Activated Platelet-Rich Plasma (aPRP) Therapy in Corneal Transplantation". Cornea and Eye Banking Forum, Chicago, USA (September 30, 2022)
14. Andres Serrano, Angela Gomez-Bedoya, Arianna Tovar, Guillermo Amescua, Florence Cabot, Carol L. Karp, Juan Pablo de Rivero Vaccari, Alfonso L. Sabater. "Aqueous Humor of Failed Corneal Grafts Induce Inflammasome Activation in Endothelial Cells". ARVO, USA (May 3, 2022).
15. Mikhail Tsurkan, Simone Arndt, Sarah Tsurkan, Angela Gomez Bedoya, Alfonso L. Sabater. "Creation of Grafts with Bioengineered Descemet Membrane for Corneal Lamellar Keratoplasty". ARVO, USA (May 4, 2022).

16. Carolina Mercado, Ernesto J. Otero, Isabella Bechara, Angela Gutierrez, Jose I Barraquer, Alfonso L. Sabater. "Safety and Efficacy of Intraoperative Corneal Graft Incubation in Activated Platelet-Rich Plasma (aPRP) for Reducing Endothelial Cell Loss". ASCRS, USA (April 24, 2022)
17. Arianna Tovar, Angela Gomez-Bedoya, Andres Serrano, Maricarmen Perez Blanco, Anat Galor, Swarup S. Swaminathan, Juan Pablo de Rivero Vaccari, Alfonso L. Sabater. "Caspase-1 As A Biomarker of Ocular Surface Damage". 55th Annual OMIG Meeting, New Orleans, USA (November 12, 2021).
18. Andres Serrano, Angela Gomez-Bedoya, Arianna Tovar, Patrice J. Persad, Guillermo Amescua, Ellen Koo, Florence Cabot, Roey Hadad, Juan Pablo de Rivero Vaccari, Alfonso L. Sabater. "Intraocular Inflammation Activation in Corneal Graft Failure". 55th Annual OMIG Meeting, New Orleans, USA (November 12, 2021).
19. Joana Karanxha, Angela Gomez, Katrina N. Llanes, Patrice J. Persad, William Buras, Elizabeth Fout, Stephen Roper, Alfonso L. Sabater. "A Novel Dual-Chamber Vial for Corneal Preservation". ARVO, USA (May 4, 2021).
20. Andres Serrano, Angela Gomez, Enrique Salero, Arianna Tovar, Guillermo Amescua, Florence Cabot, Robert W. Keane, Juan Pablo de Rivero Vaccari, Alfonso L. Sabater. "Intraocular Inflammation Activation in Pseudophakic Bullous Keratopathy". ARVO, USA (May 4, 2021).
21. Carolina Mercado, Angela Gomez, Enrique Salero, Nandini Venkateswaran, Borja de la Sen, Alfonso L. Sabater. "Plasma Rich in Growth Factors (PRGF) Enhances Corneal Endothelial Cells Survival and Proliferation". ARVO, Vancouver, USA (April 28 – May 2, 2019).
22. Daniel Pelaez, Esdras Arrieta, Enrique Salero-Coca, Jaime D. Martinez, Alfonso L. Sabater, Guillermo Amescua and Jean-Marie Parel. "Cellular and molecular assessment of Rose Bengal Photodynamic Antimicrobial Therapy (RB-PDAT) on corneal endothelium and limbal stem cell niche". 52nd Annual OMIG Meeting, Chicago, USA (October 26, 2018)
23. Enrique Salero, Maitee Urbieto, Alfonso L. Sabater, Maria del Carmen Piqueras, Sanjoy K. Bhattacharya, Victor L. Perez. "Proteomic analysis of secreted factors produced by human limbal epithelial cell cultures during in-vitro growth and expansion". ARVO, Baltimore, USA (May 7-11, 2017).
24. Jiajun Xie, Qi Gao, Alfonso L. Sabater, Enrique Salero, Gabriel Gaidosh, Elena De Juan-Pardo, Dietmar W. Huttmacher, Juan Ye, Victor L. Perez. "Establishment of a bi-layer tissue engineered conjunctiva construct using a three-dimensional (3D) printed scaffold". ARVO, Baltimore, USA (May 7-11, 2017).
25. Qi Gao, Jiajun Xie, Enrique Salero, Alfonso L. Sabater, Gabriel Gaidosh, Elena De Juan-Pardo, Dietmar W. Huttmacher, Juan Ye, Victor L. Perez. "3D-printed Nano-structural Poly(ϵ -caprolactone) (PCL) Scaffolds for Corneal Stromal Regeneration". ARVO, Baltimore, USA (May 7-11, 2017).
26. Alfonso L. Sabater, Elena M. De-Juan-Pardo, Tania López, Victor L. Perez, Dietmar W. Huttmacher, Felipe Prósper. "Development of a Polycaprolactone (PCL) Scaffold as a Platform for Human Corneal Stroma Regeneration". 4th TERMIS World Congress in Boston, MA, USA (September 8-11, 2015)
27. Jesús Barrio Barrio, Álvaro Velázquez Villoria, Alfonso L. Sabater, Manuel Sáenz de Viteri. "Encephalocraniocutaneous lipomatosis". 40th Annual Meeting of the European Paediatric Ophthalmological Society, Barcelona, Spain (November 6-8, 2014).

28. Álvaro Velázquez Villoria, Jesús Barrio Barrio, Alfonso L. Sabater, Manuel Sáenz de Viteri. "Lipomatosis encefalocraneocutánea". XXIV Congreso de la Sociedad Española de Cirugía Plástica Ocular y Orbitaria, Granada, Spain (June 4-6, 2014).
29. Alfonso L. Sabater, Adriano Guarnieri, María García Guzmán, Enrique Andreu, Felipe Prósper, Javier Moreno-Montañés. "A Novel and Highly Efficient Method for the Expansion of Corneal Endothelial Cells". ARVO, Orlando, USA (May 4-8, 2014).
30. Adriano Guarnieri, Alfonso L. Sabater, Álvaro Velázquez-Villoria, Javier Moreno Montañés. "Evaluation of Meibomian Gland Morphology and Function in Patients Treated with Anti-glaucomatous Eye Drops". ARVO, Orlando, USA (May 4-8, 2014).
31. Javier Moreno-Montañés, Alfonso L. Sabater, Adriano Guarnieri, Álvaro Velázquez-Villoria. "Análisis de la superficie ocular mediante meibografía de no contacto en pacientes con tratamiento antiglaucomatoso". IX Congreso de la Sociedad Española de Glaucoma, Murcia, Spain (March 15, 2014).
32. Alfonso L. Sabater, Adriano Guarnieri, Enrique Andreu, Felipe Prósper, Javier Moreno-Montañés. "Aislamiento y expansión ex vivo de células de endotelio corneal humano". 89 Congreso de la Sociedad Española de Oftalmología, Tenerife, Spain (September 25-28, 2013).
33. Adriano Guarnieri, Alfonso L. Sabater, Elvira Bonet Farriol, Javier Moreno-Montañés. "Tamaño final de la incisión tras el implante de la lente intraocular AcrySof® tórica mediante dos métodos de inserción". 89 Congreso de la Sociedad Española de Oftalmología, Tenerife, Spain (September 25-28, 2013).
34. Alvaro Velázquez Villoria, Alfonso L. Sabater, Jesús Barrio Barrio. Video: "Modelos de cirugía experimental en oftalmología". 89 Congreso de la Sociedad Española de Oftalmología, Tenerife, Spain (September 25-28, 2013).
35. Javier Moreno-Montañés, Elvira Bonet-Farriol, Cristina Sáenz-González, Alfonso L. Sabater. "Comparación de la capacidad diagnóstica del análisis de las células ganglionares con la capa de fibras para detectar glaucoma en el OCT cirrus". VIII Congreso de la Sociedad Española de Glaucoma, Córdoba, Spain (February 28-March 1, 2013).
36. Jesús Barrio-Barrio, Elvira Bonet-Farriol, Alfonso L. Sabater, Miguel Angel Idoate-Gastearena, Nestor Montesdeoca-García. "Single-stage orbital reconstruction after eyelid- and conjunctiva-sparing orbital exenteration in a 7-year-old girl". 2nd World Congress of Paediatric Ophthalmology and Strabismus, Milan, Italy (September 7-9, 2012).
37. Javier Moreno-Montañés, Alfonso L. Sabater, Jesús Barrio-Barrio, José Ramón Pérez-Valdivieso, Elena Cacho-Asenjo, Marta García-Granero. "Risks Factors and Regression Model for Risk Calculation of Anesthesiologic Intervention in Routine Cataract Surgery". ARVO, Fort Lauderdale, USA (May 6-10, 2012).
38. Jesús Barrio Barrio, Alfonso L. Sabater, Elvira Bonet Farriol. "Cirugía experimental en oftalmología". XII Festival Nacional de Videoftalmología, Lleida, Spain (May 4, 2012)
39. Adriano Guarnieri, Alfonso L. Sabater, Javier Moreno-Montañés. "Evaluation of final incision size after toric IOL implantation in cataract surgery". ASCRS, Chicaco, USA (April 20-24, 2012).

40. Elisa de Nova Fernández-Yáñez, Elvira Bonet Farriol, Jesús Barrio Barrio, Alfonso L. Sabater. "Gliomas asociados a Neurofibromatosis en edad pediátrica: Opciones terapéuticas". XXI Congreso de la Sociedad Española de Estrabología, Madrid, Spain (April 19-20, 2012)
41. Alfredo García Layana, Alfonso L. Sabater, Alvaro Velázquez Villoria. "Manejo de luxación del núcleo a vítreo con sistema PC Stellaris B+L". Symposium Vítreo-Retina B+L, Valencia, Spain (March 1, 2012)
42. Alfonso L. Sabater, Jesús Barrio Barrio, Elvira Bonet Farriol, Elisa De Nova Fernández-Yáñez. "Puesta a punto de un quirófano experimental para residentes de oftalmología". XXXIII Congreso de la Asociación Oftalmológica del Norte, Pamplona, Spain (November 25-26, 2011)
43. Álvaro Velázquez Villoria, Luis M. Sádaba Echarri, Alfonso L. Sabater, Elisa De Nova Fernández-Yáñez. "Infección corneal secundaria a implante de anillos intracorneales en paciente poco colaborador". XXXIII Congreso de la Asociación Oftalmológica del Norte, Pamplona, Spain (November 25-26, 2011)
44. Elvira Bonet Farriol, Natalia Olmo Jiménez, Jesús Barrio Barrio, Alfonso L. Sabater. "Novedades en técnicas de DCR endonasal". XXXIII Congreso de la Asociación Oftalmológica del Norte, Pamplona, Spain (November 25-26, 2011)
45. Elisa de Nova Fernández-Yáñez, Luis M. Sádaba Echarri, Alfonso L. Sabater. "Rituximab como tratamiento alternativo en linfoma intraocular primario". 87 Congreso de la Sociedad Española de Oftalmología, Oviedo, Spain (September 21-24, 2011)
46. Alfonso L. Sabater, Luis M. Sádaba, Elisa de Nova. "Quiste de la cisura coroidea asociado a afectación campimétrica en paciente con hipertensión ocular". 87 Congreso de la Sociedad Española de Oftalmología, Oviedo, Spain (September 21-24, 2011)
47. Elvira Bonet Farriol, Elisa de Nova Fernández-Yáñez, Alfonso L. Sabater. "Estudio comparativo del dispositivo Mydrasert® frente a colirios tópicos en cirugía de catarata". 87 Congreso de la Sociedad Española de Oftalmología, Oviedo, Spain (September 21-24, 2011)
48. Elisa de Nova, Luis Manuel Sádaba, Elvira Bonet, Alfonso L. Sabater. "Rituximab en linfoma intraocular primario". Seminarios de Oftalmología de Navarra, Pamplona, Navarra, Spain (June 9, 2011)
49. Alfonso L. Sabater, Luis Manuel Sádaba, Elvira Bonet, Elisa de Nova. "Diagnóstico diferencial de pérdida campimétrica en un paciente diagnosticado de glaucoma". Seminarios de Oftalmología de Navarra, Pamplona, Navarra, Spain (June 9, 2011)
50. Elisa de Nova, José María Caire, Javier Zarranz, Luis Manuel Sádaba, Alfonso L. Sabater, Elvira Bonet, Alfredo García-Layana. "Nuevo dispositivo Mydrasert frente a colirios tópicos convencionales". XXXII Congreso de la Asociación Oftalmológica del Norte, Getxo, Spain (November 26-27, 2010)
51. José María Caire, Javier Moreno, Angel Salinas, Luis Manuel Sádaba, Javier Zarranz, Elisa de Nova, Alfonso L. Sabater. "Atrapamiento de LIO suturada en sulcus". XXXII Congreso de la Asociación Oftalmológica del Norte, Getxo, Spain (November 26-27, 2010)
52. Isabel Mayo, Alfonso L. Sabater, Mercedes Hurtado. "Cultivo de células endoteliales de córnea humana". 83 Congreso de la Sociedad Española de Oftalmología, Las Palmas de Gran Canaria, Spain (September 26-29, 2007)

PATENTS

- 01/2026 – siRNA therapeutics and methods of use thereof. Patent pending (US 63/964,612). Principal inventor.
- 11/2021 – Ocular drug transfer and dispensing device. Patent pending (US/63/283,944 and PCT/B2022/061499). Principal inventor.
- 09/2021 – Device and system for injecting biological tissue. Issued patent (US 20230060227A1). Principal inventor.
- 11/2020 – Materials and methods for treating corneal dysfunction. Patent pending (US/63/113,736). Principal inventor.
- 03/2020 – Graft tissue injector. Issued patent (US/16804051). Patent pending (PCT/US2020/20265). Principal inventor.
- 09/2020 – Dual chamber vial for corneal graft preservation. Issued patent (US 20210244020A1, EP 3849307A1, CA 3112767C). Principal inventor.
- 07/2015 – Cell expansion method. European patent (EP 15178619.1 – Inactive). Principal inventor.

INVITED TALKS AND PRESENTATIONS

1. “Real-World Experience with biologic and genetic therapies for ocular surface restoration”. Unidad Nacional de Oftalmología Guatemala (November 4-5, 2025)
2. “Precision Medicine in Dry Eye Disease: Personalizing Care Through Innovation”. Unidad Nacional de Oftalmología Guatemala (November 4-5, 2025)
3. “Diagnostic Methodology”. TFOS Dry Eye Workshop III Symposium: AAO 2025 (October 18-20, 2025)
4. “PRGF in EK”. IX Fuch’s Meeting (September 27, 2025)
5. “Regenerating the Corneal Endothelium: Novel Therapeutic Approaches”. Centro Mexicano de Córnea y Cirugía Refractiva (July 17, 2025)
6. “New biomarkers in ocular surface disease”. Dry Eye 4a Edizione (July 3-5, 2025)
7. “Terapia génica, dónde estamos y hacia dónde vamos?”. 36th Pan-American Association of Ophthalmology (May 30-31, 2025)
8. “Corneal Innovation Lab: from Bench to Bedside”. Grand Rounds – University of California San Francisco (November 21, 2024)
9. “VIP Lecture: The Bascom Palmer Ocular Surface Clinic Model”. University of California San Francisco (November 21, 2024)
10. “Role of RNA-Based Tear Biomarkers in Advancing Ocular Diagnostics”. Bascom Palmer Research Retreat (November 9, 2024)
11. “Can I Regenerate the Ocular Surface with Blood and Genes?”. XLIV Curso Interamericano de Oftalmología Clínica (CURSO) (October 27-30, 2024)
12. Moderator at the Ocular Surface session at XLIV Curso Interamericano de Oftalmología Clínica (CURSO) (October 27-30, 2024).
13. “Regenerative Medicine in Endothelial Diseases”. Cornea and Ocular Surface Course - PanCornea / Laboratorios Sophia (October 25, 2024)

14. "Blood-derived Biological Therapies". Cornea and Ocular Surface Course - PanCornea / Laboratorios Sophia (October 25, 2024)
15. "Innovations in Corneal Transplantation". Cornea and Ocular Surface Course - PanCornea / Laboratorios Sophia (October 24, 2024)
16. "DMEK Wet Lab". Cornea and Ocular Surface Course - PanCornea / Laboratorios Sophia (October 24-25, 2024)
17. "Next-Generation Corneal Treatments: Blood-Derived Therapies and Gene-Based Innovations". The Miami Ophthalmological Society (September 17, 2024)
18. "Subclinical Neurotrophic Keratopathy in Glaucoma Detected by Noncontact Esthesiometry". Brill's Symposium at ESCRS (September 6, 2024)
19. "Corneal Innovation Laboratory: from bench to bedside". Curso Internacional de la Fundación Oftalmológica Los Andes (August 22-23, 2024)
20. "Topical gene therapy for the treatment of corneal diseases". Curso Internacional de la Fundación Oftalmológica Los Andes (August 22-23, 2024)
21. "Role of the inflammasome in corneal transplant failure". Curso Internacional de la Fundación Oftalmológica Los Andes (August 22-23, 2024)
22. "Lifestyle influence on ocular surface diseases". Curso Internacional de la Fundación Oftalmológica Los Andes (August 22-23, 2024)
23. "Paradigmas del Tratamiento del Ojo Seco". Congreso Nacional de la Sociedad Mexicana de Oftalmología (Laboratorios Sophia) (July 9, 2024)
24. "Topical Gene Therapy for the Treatment of Corneal Diseases". IV Congreso Internacional PanCornea (June 13-15, 2024)
25. "Corneal research incubator: from bench to bedside". ALL Event (March 5, 2024)
26. "Lo Mejor de la Academia en Español". Pan-American Association of Ophthalmology (November 11, 2023)
27. "Impacto del estilo de vida en el síndrome de ojo seco". Congreso Iberoamericano (October 19, 2023)
28. "The role of the inflammasome in corneal graft failure". ARVO special interest group (September 28, 2023)
29. "Novel Biological Therapies for Corneal Endothelial Dysfunction". Invited session at EBAA Meeting (June 24, 2023)
30. "The role of the inflammasome in ocular surface disease". Coronis Workshop (April 22, 2023)
31. "Cultivo de Stem Cells en 2023". Pan-American Cornea Society Meeting (April 13-15, 2023)
32. "Pterigion en 2023". Pan-American Cornea Society Meeting (April 13-15, 2023)
33. "Novel strategies on corneal endothelial regeneration". Fuchs VIII Symposium, Miami (April 1, 2023)
34. "Corneal research incubator: from bench to bedside". Physiology Department Seminar, University of Miami, Miami (January 26, 2023)
35. "Tratamiento personalizado en el síndrome de ojo seco". XXVIII Congreso Chileno de Oftalmología, Chile (December 8, 2022)
36. "Innovations in corneal transplantation". XXVII Curso Internacional de Cornea y Cirugía Refractiva, Mexico (October 26-29, 2022)

37. "Novel strategies for endothelial regeneration". XXVII Curso Internacional de Cornea y Cirugia Refractiva, Mexico (October 26-29, 2022)
38. Moderator at the Ocular Surface session at LIV Curso Interamericano de Oftalmología Clínica (CURSO) y XXVI Curso Regional Panamericano, Miami, FL, USA (October 16-19, 2022).
39. "Lo Mejor de la Academia en Español". Pan-American Association of Ophthalmology (October 8, 2022)
40. "Medicina regenerativa e ingenieria de tejidos". 2o Congreso Mexicano de Bancos de Ojos, Mexico (July 30, 2022)
41. "Dry eye workshop". Ophthalmological Society of the West Indies, Antigua (July 7-8, 2022)
42. "Corneal Ocular Emergencies". Ophthalmological Society of the West Indies, Antigua (July 8, 2022)
43. "Corneal Research Incubator". Trefoil Seminar (June 16, 2022)
44. "Limbal Stem Cell in Niche". Limbal Stem Cell Symposium, India (virtual) (March 25, 2022).
45. "Innovations in Corneal Transplantation". Interactive Consultations in Cornea and Refractive Surgery, Miami, FL, USA (February 25-26, 2022)
46. "Caspase-1: A New Biomarker of Ocular Surface Damage". Interactive Consultations in Cornea and Refractive Surgery, Miami, FL, USA (February 25-26, 2022)
47. "Lo Mejor de la Academia en Español". Pan-American Association of Ophthalmology (November 20, 2021)
48. "Use of Blood Derivatives in the Management of Ocular Surface Diseases". Virtual Ophthalmic Allied Health Professionals Seminar (October 23, 2021)
49. "Investigacion y avances en tecnologias de regeneracion de superficie ocular". Curso de Actualizacion Hospital de La Luz, Mexico (May 15, 2021)
50. "Targeted management of dry eye syndrome". Interactive Consultations in Cornea and Refractive Surgery, Miami, FL, USA (February 27, 2021)
51. "Cornea 2.0: Science or Fiction". Oftalmo University (June 19, 2020)
52. "Strategies to improve corneal graft survival". Fundacion Oftalmologica Los Andes, Chile (June 19, 2020)
53. "Innovaciones en regeneración corneal endothelial". Ciclo de Webinars 2020. Consejo Entrerriano de Oftalmologia, Argentina (June 2, 2020)
54. "Innovations in corneal endothelial regeneration". Oxford University, UK (May 18, 2020)
55. "Innovations for a new era of endothelial transplantation". Fundacion Oftalmologica Los Andes, Chile (April 16, 2020)
56. "Strategies to improve corneal graft survival". Interactive Consultations in Cornea and Refractive Surgery, Miami, FL, USA (February 21-22, 2020)
57. "Endothelial disease: Innovations for a new era of endothelial transplantation". Interactive Consultations in Cornea and Refractive Surgery, Miami, FL, USA (February 23, 2020)
58. "Aplicaciones de terapia celular en superficie ocular". Simposio Avanzado de Cornea y Superficie Ocular, Bucaramanga, Colombia (January 25, 2020)
59. "Estrategias de protección y regeneracion del endotelio corneal". Simposio Avanzado de Cornea y Superficie Ocular, Bucaramanga, Colombia (January 25, 2020)

60. "Perlas en DMEK". Simposio Avanzado de Cornea y Superficie Ocular, Bucaramanga, Colombia (January 25, 2020)
61. "Uso de derivados hemotologicos en enfermedades de la superficie ocular". Simposio Avanzado de Cornea y Superficie Ocular, Bucaramanga, Colombia (January 25, 2020)
62. "Ex vivo expansión of endothelial cells". VII Fuch's Symposium, Palm Beach, FL (January 11, 2020)
63. "Estrategias de regeneración celular endotelial". XIX Congreso Centroamericano de Residentes de Oftalmología, Guatemala (November 8, 2019)
64. "Terapia de células madre en superficie ocular". XIX Congreso Centroamericano de Residentes de Oftalmología, Guatemala (November 7, 2019)
65. "Innovations for a new era of endothelial transplantation". XLI Inter-American Course in Clinical Ophthalmology, Miami, FL (October 21, 2019)
66. "BPEI Mesoplant". KPro Study Group 2019, Miami, FL (October 19, 2019)
67. "Hemoderivados en ojo seco". XXXIV Congreso Panamericano de Oftalmología, Cancun, Mexico (May 25, 2019)
68. "Estrategias de regeneración celular endotelial". Curso de actualización del Hospital de La Luz, Mexico DF (March 15, 2019)
69. "Plasma rico en factores de crecimiento". Curso de actualización del Hospital de La Luz, Mexico DF (March 15, 2019)
70. "Terapia de células madre en superficie ocular". Curso de actualización del Hospital de La Luz, Mexico DF (March 15, 2019)
71. "3-D printed scaffolds for corneal and ocular surface regeneration". Nasser Al-Rashid Orbital Research Colloquium 2019, Miami, FL, USA (March 9, 2019)
72. "PRGF for ocular surface diseases". Interactive Consultations in Cornea and Refractive Surgery, Miami, FL, USA (February 23, 2019)
73. "Endothelial disease: the future is here". Interactive Consultations in Cornea and Refractive Surgery, Miami, FL, USA (February 23, 2019)
74. "Manejo integral de la conjuntivitis alérgica". Eye Forum Grin 2018, Cancun, Mexico (September 28-29, 2018)
75. "Terapia celular con células madre en superficie ocular". III Curso para residentes de córnea, México DF (September 20-22, 2018)
76. "Contact Lenses and the Fungus Among US". 2018 World Ophthalmology Congress, Barcelona, Spain (June 19, 2018)
77. "Treatment strategies to fight corneal blindness: let's give KPro a break". 11th KPro Study Group Meeting, Barcelona, Spain (June , 2018)
78. "Mesoplants: where are we headed for?". 11th KPro Study Group Meeting, Barcelona, Spain (June 15, 2018)
79. "Cell Expansion Therapies for Ocular Surface Disorders". Bascom Palmer Eye Institute Interactive Consultations in Cornea and Refractive Cataract Surgery, Miami, FL, USA (February 24, 2018)
80. "The Ultimate Fight: Conjunctiva vs Niche". LV Prasad Eye Institute, Hyderabad, India (January 14, 2018)

81. "Tissue Engineering for Conjunctival Reconstruction". Bascom Palmer Eye Institute Ocular Surface Diseases Course, Miami, FL, USA (March 18, 2017)
82. "From the Laboratory to the Operating Room: Use of Ex-Vivo Expanded Cells in the Reconstruction of the Ocular Surface". Bascom Palmer Eye Institute Ocular Surface Diseases Course, Miami, FL, USA (April 16, 2016)
83. "Regenerative medicine of corneal endothelium". National Polish Ophthalmology Congress, Poznan, Poland (June 19, 2015)
84. "Expansión y aislamiento de células endoteliales de la córnea". VIII Simposium Controversias en Oftalmología, Barcelona, Spain (February 13, 2015)
85. "Aislamiento y expansión ex-vivo del endotelio corneal". XII Reunión Annual del Grupo Español del Superficie Ocular, Madrid, Spain (March 28, 2014)
86. "Entrenamiento de habilidades quirúrgicas en oftalmología: Modelos de cirugía experimental y sistemas de evaluación". 89 Congreso de la Sociedad Española de Oftalmología, Tenerife, Spain (September 25-28, 2013)
87. "Ex Vivo Expansion of Human Corneal Endothelial Cells". 1st Medical Students Meeting in Biomedical Research, Valencia, Spain (December 4, 2007)

TEACHING AND SUPERVISING EXPERIENCE

2022	Ph.D. Thesis Jury, Universidad del Pais Vasco, Spain
2019 – Present	Coordinator - OPH-625 - Microbiology and Immunology of the Eye (Master in Vision Science and Investigative Ophthalmology, University of Miami Miller School of Medicine, USA
2017 – Present	Ophthalmology, University of Miami Miller School of Medicine, USA
2016 – 2019	Ph.D. Supervisor, UIC Regenerative Medicine Research Institute, Spain
2014	Microsurgery, Medical School, University of Navarra, Spain
2010 – 2014	Ophthalmology, Medical School, University of Navarra, Spain
2010 – 2014	Ophthalmology (Surgery), Nurse School, University of Navarra, Spain
2010 – 2015	Cell Therapy and Regenerative Medicine course, Biomedical Engineering Master, University of Navarra, Spain
2006, 2008	Physiology, Medical School, University of Valencia, Spain

CLINICAL TRIALS

1. "An Open-Label, Multi-Center, Phase 2 Dose Ranging Study of BRM424 Ophthalmic Solution in Patients with Neurotrophic Keratitis (NK)". BRIM. Code: BRM424-21-C001. Bascom Palmer Eye Institute (2024). Co-investigator.
2. "A multicenter, observational study to evaluate corneal neurosensory abnormalities in patients with Sjögren's dry eye". Dompe. Code: DEV0123. Bascom Palmer Eye Institute (2024). Principal investigator.
3. "Safety and Efficacy of Brief Intraoperative Corneal Endothelial Graft Incubation in Plasma Rich in Growth Factors (PRGF) for Reducing Postoperative Endothelial Cell Loss". Bascom Palmer Eye Institute (2024). Principal investigator.

4. Expanded access - FDA IND# 27789. HSV-1 Vector, Non-Integrating, Replication Incompetent (KB 103) Expressing Human Collagen VII (COL7) Protein [Beremagene geperpavec, B-VEC]. Principal investigator.
5. "A multicenter, observational study to evaluate corneal neurosensory abnormalities in patients with Sjögren's dry eye". Code: DEV0123. Bascom Palmer Eye Institute (2021). Principal investigator.
6. "Tivanisiran for Dry Eye in Subjects with Sjögren's Syndrome". Sylentis. Code: SYL1001_V. Bascom Palmer Eye Institute (2021). Principal investigator.
7. "Efficacy, Safety and Pharmacokinetics (PK) of 3 Doses of REC 0/0559 Eye Drops for the Treatment of Stage 2 (Moderate) and 3 (Severe) Neurotrophic Keratitis (NK) in Adult Patients". Recordati. Code: REC0559-B-001. Bascom Palmer Eye Institute (2020). Principal investigator.
8. "Phase 2 Randomized, Pilot Study of TTBT01 in the Treatment of Corneal Persistent Epithelial Defects". TissueTech. Code: TTBT01-CR001. Bascom Palmer Eye Institute (2018). Principal investigator.
9. "Randomized, Crossover Study of the Pharmacodynamic Activity of P-321 Ophthalmic Solution Compared to Placebo in Subjects with Dry Eye Disease Characterized by Low Tear Volume." Parion Sciences. Code: MOD00016357. Bascom Palmer Eye Institute (2017). Co-investigator.
10. "A Prospective, Multi-Center, Randomized, Double-Masked, Positive Controlled, Phase 3 Clinical Trial Designed to Evaluate the Safety and Efficacy of Iontophoretic Dexamethasone Phosphate Ophthalmic Solution Compared to Prednisolone Acetate Ophthalmic Suspension (1%) in Patients with Non-Infectious Anterior Segment Uveitis." Eyegate Pharmaceuticals Inc. Code: MODCR00001192. Bascom Palmer Eye Institute (2017). Co-investigator.
11. "A Multi-Center Study of the Safety and Efficacy of Bevacizumab in High-Risk Corneal Transplant Survival." US Department of Defense. Code: MOD00016558. Bascom Palmer Eye Institute (2017). Co-investigator.
12. "Ensayo clínico en fase IV para evaluar las variantes genéticas de la vía del VEGF como biomarcadores de eficacia del tratamiento con aflibercept en pacientes con degeneración macular asociada a la edad (DMAE) neovascular." Estudio BIOIMAGE. Code: IMO-AFLI-2013-01. Department of Ophthalmology, Clínica Universidad de Navarra (2013). Co-investigator.
13. "A randomized, double masked, active controlled, phase III study of the efficacy and safety of repeated doses of intravitreal VEGF Trap-Eye in subjects with diabetic macular edema." Code: Bayer 91745 VIVID-DME. Department of Ophthalmology, Clínica Universidad de Navarra (2013). Co-investigator.
14. "Establecimiento del protocolo inicial en el tratamiento de la neovascularización coroidea asociada a la miopía magna con inyección intravítrea de Bevacizumab: 3 vs 1". Code: IOBA-04-12. Department of Ophthalmology, Clínica Universidad de Navarra (2012). Co-investigator.
15. "Eficacia y seguridad del implante Express en cirugía combinada. Estudio prospectivo, multicéntrico y comparativo". Department of Ophthalmology, Clínica Universidad de Navarra (2012). Co-investigator.
16. "Eficacia y seguridad de las gotas oftálmicas de 10 mg/ml de brinzolamida / 2 mg/ml de brimonidina (suspensión) en comparación con las gotas oftálmicas de 10 mg/ml de brinzolamida (suspensión) + las gotas oftálmicas de 2 mg/ml de brimonidina (solución) en pacientes con glaucoma de ángulo abierto o hipertensión ocular". Code: C-10-041. Laboratorios Alcon Cusí. Department of Ophthalmology, Clínica Universidad de Navarra (2011-2012). Co-investigator.

17. “Ensayo fase II del inhibidor de MEK GSK y gemcitabina frente a placebo y gemcitabina en sujetos con cáncer de páncreas metastásico”. Department of Oncology, Clínica Universidad de Navarra (2011). Co-investigator.
18. “Ensayo fase I SYL040012. Tolerancia y efecto sobre la presión intraocular en sujetos con tensión ocular ≥ 21 ”. Department of Ophthalmology, Clínica Universidad de Navarra (2010-2011). Co-investigator.

OPHTHALMIC SOCIETIES & ASSOCIATIONS

American Academy of Ophthalmology (AAO) - Member
 Association for Research in Vision and Ophthalmology (ARVO) – Member
 Pan-American Association of Ophthalmology (PAAO) – Member
 Cornea Society – Member
 American Society of Cataract and Refractive Surgery (ASCRS) - Member
 Pan-American Cornea Society (PanCornea) - Board Member
 Eye Bank Association of America (EBAA) – Member

EDITORIAL RESPONSABILITIES (REVIEWER)

Since 2013	Journal of Cataract and Refractive Surgery
Since 2013	Tissue and Cell
Since 2013	Journal of Refractive Surgery
Since 2015	Free Radical Research
Since 2016	JSM Biotechnology & Biomedical Engineering
Since 2017	PLoS ONE
Since 2017	Acta Biomaterialia
Since 2017	Translational Vision Science & Technology
Since 2017	Scientific Reports
Since 2018	Experimental Eye Research
Since 2019	Cornea
Since 2019	British Journal of Ophthalmology
Since 2020	Ophthalmology
Since 2020	Progress in Retinal and Eye Research
Since 2021	Case Reports in Ophthalmology
Since 2021	Graefe's Archive for Clinical and Experimental Ophthalmology
Since 2022	The Ocular Surface
Since 2023	Frontiers in Medicine (Review Editor)