



# ENRICO BORRELLI, MD, PhD, FEBO

DoB: April 5<sup>th</sup>, 1988

Ph: +39 3472235943

Email: [borrelli.enrico@yahoo.com](mailto:borrelli.enrico@yahoo.com); [enrico.borrelli@unito.it](mailto:enrico.borrelli@unito.it)

Personal Scopus: <https://www.scopus.com/authid/detail.uri?authorId=56197063800>

Personal ORCID: <https://orcid.org/0000-0003-2815-5031>

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## CURRENT POSITIONS

**November 2023-currently:** Head - Medical Retina Unit c/o Department of Ophthalmology, "City of Health and Science" Hospital, Turin, Italy.

**November 2023-currently:** Associate Professor of Ophthalmology c/o University of Turin, Turin, Italy.

**November 2023-currently:** Senior Consultant – Retinal Imaging Lab c/o University of Turin, Turin, Italy.

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## PREVIOUS POSITIONS

**February 2019-October 2023:** Medical Retina Specialist c/o Department of Ophthalmology, San Raffaele Hospital, Vita-Salute San Raffaele University, Milan, Italy.

**January 2020-October 2023:** Academic Tutor in the "Ophthalmology Residency Program" at the Medical School, Vita-Salute San Raffaele University, Milan, Italy.

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## EDUCATION

**October 2019-October 2022:** International PhD Course in Molecular Medicine c/o Vita-Salute San Raffaele University, Milan, Italy. Argument: Surviving diabetes without complications: a patient-driven approach. Tutors: Prof. Giuseppe Querques and Dr. Michael Ip (UCLA).

**December 2018-December 2019:** Clinical Fellowship in Medical Retina c/o Vita-Salute San Raffaele University, Milan, Italy. Tutors: Prof. Francesco Bandello and Prof. Giuseppe Querques.

**December 2014- December 2018:** Residency in Ophthalmology c/o Department of Ophthalmology, University G. D'Annunzio Chieti-Pescara, Chieti, Italy. Tutors: Prof. Leonardo Mastropasqua, Prof. Paolo Carpineto. Final score: 70/70 cum Laude.

**October 2016-October 2017:** International Research Fellowship in Ophthalmology c/o Doheny Eye Institute, University of California Los Angeles (UCLA), Los Angeles, CA, USA. Tutor: Dr. Srinivas Sadda.

**2007-2013:** Medical School – Vita-Salute San Raffaele University, Milan, Italy. Dissertation: "Ocular vascular features in mitochondrial optic neuropathies". Final score: summa cum Laude.

## POST-DEGREE CLINICAL/RESEARCH ELECTIVES

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**September 2013-September 2014:** Clinical Internship c/o Department of Ophthalmology, San Raffaele Hospital, Vita-Salute San Raffaele University, Milan, Italy. Tutors: Prof. Francesco Bandello, Prof. Giuseppe Querques, and Dr. Piero Barboni.

## PRE-DEGREE CLINICAL/RESEARCH ELECTIVES

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**March 2012-September 2013:** Internship c/o Department of Ophthalmology, San Raffaele Hospital, Vita-Salute San Raffaele University, Milan, Italy. Tutors: Prof. Francesco Bandello, Prof. Giuseppe Querques, Dr. Piero Barboni.

**September 2011-February 2012:** Internship c/o Department of Urology, San Raffaele Hospital, Vita-Salute San Raffaele University, Milan, Italy. Tutor: Prof. Francesco Montorsi.

**March 2011-July 2011:** Internship c/o Department of Cardiology, San Raffaele Hospital, Vita-Salute San Raffaele University, Milan, Italy. Tutor: Dr. Alfredo Castelli.

**September 2010-February 2011:** Internship c/o Department of Internal Medicine, San Raffaele Hospital, Vita-Salute San Raffaele University, Milan, Italy. Tutor: Prof. Lorenzo Dagna.

## MEDICAL AND SURGICAL ACTIVITIES

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**2014-currently:** Experience as first or second operator in more than 500 surgical/parasurgical treatments, including cataract extraction, retinal laser treatment and photodynamic therapy.

**2014-currently:** Advanced multimodal imaging, diagnostics, and treatment (~10000 procedures/year) mainly for retinal and macular diseases.

## PUBLICATIONS

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1. **Borrelli E**, Bandello F, Boon CJF, Carelli V, Lenaers G, Reibaldi M, Sadda SR, Sadun AA, Sarraf D, Yu-Wai-Man P, Barboni P. Mitochondrial retinopathies and optic neuropathies: the impact of retinal imaging on modern understanding of pathogenesis, diagnosis, and management. *Prog Retin Eye Res.* 2024 May 2:101264. doi: 10.1016/j.preteyeres.2024.101264. Epub ahead of print. PMID: 38703886.
2. Vallino V, Berni A, Coletto A, Serafino S, Bandello F, Reibaldi M, **Borrelli E**. Structural OCT and OCT angiography biomarkers associated with the development and progression of geographic atrophy in AMD. *Graefes Arch Clin Exp Ophthalmol.* 2024 Apr 30. doi: 10.1007/s00417-024-06497-8. Epub ahead of print. PMID: 38689123.
3. Ricardi F, Oakley J, Russakoff D, Boscia G, Caselgrandi P, Gelormini F, Ghilardi A, Pintore G, Tibaldi T, Marolo P, Bandello F, Reibaldi M, **Borrelli E**. Validation of a deep learning model for automatic detection and quantification of five OCT critical retinal features associated with neovascular age-related macular degeneration. *Br J Ophthalmol.* 2024 Mar 14:bjo-2023-324647. doi: 10.1136/bjo-2023-324647. Epub ahead of print. PMID: 38485214.
4. Ricardi F, Reccalenda I, Boscia G, Gelormini F, Cimososi F, Novarese C, Marolo P, Parisi G, Bandello F, **Borrelli E**, Reibaldi M. Retinal OCT biomarkers associated with reading performance in patients with persistent vs. resolved diabetic macular edema. *Eur J Ophthalmol.* 2024 Apr 18:11206721241248682. doi: 10.1177/11206721241248682. Epub ahead of print. PMID: 38632942.

5. Grassi MO, Viggiano P, **Borrelli E**, Boscia G, Molfetta T, Malerba MG, D'Addario M, Giancipoli E, Alessio G, Boscia F. Comparative Study on Anti-VEGF in Wet Age-Related Macular Degeneration in the Setting Based on Lean Methodology from the Bari Intravitreal Injection Registry (BIVIR). *Ophthalmol Ther*. 2024 Apr 15. doi: 10.1007/s40123-024-00927-w. Epub ahead of print. PMID: 38619788.
  6. **Borrelli E**, Barresi C, Ricardi F, Berni A, Grosso D, Viggiano P, Marolo P, Introini U, Reibaldi M, Bandello F. Distinct Pathways of Macular Atrophy in Type 3 Macular Neovascularization Associated With AMD. *Invest Ophthalmol Vis Sci*. 2024 Mar 5;65(3):18. doi: 10.1167/iovs.65.3.18. PMID: 38470327; PMCID: PMC10939139.
  7. Viggiano P, Vujosevic S, Palumbo F, Grassi MO, Boscia G, **Borrelli E**, Reibaldi M, Sborgia L, Molfetta T, Evangelista F, Alessio G, Boscia F. Optical coherence tomography biomarkers indicating visual enhancement in diabetic macular edema resolved through anti-VEGF therapy: OCT biomarkers in resolved DME. *Photodiagnosis Photodyn Ther*. 2024 Mar 7:104042. doi: 10.1016/j.pdpdt.2024.104042. Epub ahead of print. PMID: 38460657.
  8. Parisi G, Gelormini F, Ricardi F, **Borrelli E**, Parisi F, Belluardo G, Azzaro L, Marolo P, D'antico S, Salafia M, Reibaldi M. Platelet rich plasma for primary macular hole: A case series. *Eur J Ophthalmol*. 2024 Feb 29:11206721241234419. doi: 10.1177/11206721241234419. Epub ahead of print. PMID: 38425189.
  9. Gelormini F, Vallino V, Breazzano MP, Pasini B, Reibaldi M, **Borrelli E**. Multimodal Imaging of a novel MFSD8/CLN7 mutation associated with non-syndromic symmetric adult-onset macular dystrophy. *Retin Cases Brief Rep*. 2024 Feb 26. doi: 10.1097/ICB.0000000000001553. Epub ahead of print. PMID: 38412107.
  10. Gelormini F, Parisi G, Vallino V, Ricardi F, Marolo P, **Borrelli E**, Reibaldi M. Pitchfork sign following pars Plana vitrectomy for idiopathic epiretinal membrane: A case report. *Eur J Ophthalmol*. 2024 Feb 26:11206721241234426. doi: 10.1177/11206721241234426. Epub ahead of print. PMID: 38409823.
  11. **Borrelli E**, Barresi C, Berni A, Viggiano P, Reibaldi M, Introini U, Bandello F. OCT risk factors for 2-year foveal involvement in non-treated eyes with extrafoveal geographic atrophy and AMD. *Graefes Arch Clin Exp Ophthalmol*. 2024 Feb 8. doi: 10.1007/s00417-024-06399-9. Epub ahead of print. PMID: 38326629.
  12. Ricardi F,\* **Borrelli E**,\* Boscia G, Gelormini F, Marica V, Conte F, Viggiano P, Marolo P, Bandello F, Reibaldi M. Relationship of Topographic Distribution of Macular Atrophy Secondary to Neovascular AMD and Reading Performance. *Invest Ophthalmol Vis Sci*. 2024 Jan 2;65(1):44. doi: 10.1167/iovs.65.1.44. PMID: 38289615; PMCID: PMC10833051.
- \*co-first authors
13. Gelormini F, D'antico S, Ricardi F, Parisi G, **Borrelli E**, Marolo P, Conte F, Salafia M, Reibaldi M. Platelet concentrates in macular hole surgery. A journey through the labyrinth of terminology, preparation, and application: a comprehensive review. *Graefes Arch Clin Exp Ophthalmol*. 2024 Jan 25. doi: 10.1007/s00417-023-06365-x. Epub ahead of print. PMID: 38270630.
  14. Boscia G, Pozharitskiy N, Grassi MO, **Borrelli E**, D'Addario M, Alessio G, Boscia F, Viggiano P. Choroidal remodeling following different anti-VEGF therapies in neovascular AMD. *Sci Rep*. 2024 Jan 22;14(1):1941. doi: 10.1038/s41598-024-52315-w. PMID: 38253789; PMCID: PMC10803349.
  15. Battista M, Coutinho CP, Berni A, **Borrelli E**, Galzignato A, Lari G, Checchin L, Pizza IC, Brotto L, Nucci P, Bandello F, Cascavilla ML, Barboni P. Sectorial Ganglion Cell Complex Thickness as Biomarker of Vision Outcome in Patients With Dominant Optic Atrophy. *Invest Ophthalmol Vis Sci*. 2024 Jan 2;65(1):24. doi: 10.1167/iovs.65.1.24. PMID: 38193759; PMCID: PMC10784844.
  16. Boscia G, Ricardi F, Gelormini F, Marica V, Conte F, Ghilardi A, Viggiano P, Marolo P, Bandello F, **Borrelli E**,\* Reibaldi M.\* Inter-session repeatability of reading performance measures in patients with neovascular AMD. *Retina*. 2023 Dec 6. doi: 10.1097/IAE.0000000000004015. Epub ahead of print. PMID: 38064659.
- \*co-first authors
17. Viggiano P, Miere A, **Borrelli E**, Boscia G, Grassi MO, Souied EH, Alessio G, Boscia F. The Impact of Diabetic Retinopathy on the Choriocapillaris in Neovascular AMD. *Invest Ophthalmol Vis Sci*. 2023 Nov 1;64(14):32. doi: 10.1167/iovs.64.14.32. PMID: 37988106; PMCID: PMC10668630.
  18. **Borrelli E**, Reibaldi M, Barresi C, Berni A, Introini U, Bandello F. Choroidal Hyper-Reflective Foci in Geographic Atrophy. *Invest Ophthalmol Vis Sci*. 2023 Nov 1;64(14):5. doi: 10.1167/iovs.64.14.5. PMID: 37922157; PMCID: PMC10629518.
  19. Viggiano P, Buonamassa R, Grassi MO, Boscia G, **Borrelli E**, Landini L, Evangelista F, Malerba MG, Alessio G, Boscia F. Immediate effect of anti-VEGF injections on optic nerve head: Correlation between intraocular pressure and anatomical peripapillary changes. *Eur J Ophthalmol*. 2023 Oct 29:11206721231210749. doi: 10.1177/11206721231210749. Epub ahead of print. PMID: 37899575.

20. Viggiano P, Landini L, Grassi MO, Boscia G, **Borrelli E**, Sborgia G, Alessio G, Boscia F. Effects of diabetic retinopathy on longitudinal morphological changes in AMD-associated type 1 macular neovascularization. *Sci Rep.* 2023 Sep 28;13(1):16337. doi: 10.1038/s41598-023-43635-4. PMID: 37770616; PMCID: PMC10539526.
21. Viggiano P, Boscia G, **Borrelli E**, Toto L, Grassi MO, Evangelista F, Giancipoli E, Alessio G, Boscia F. Choriocapillaris Reperfusion in Resolved Chronic Central Serous Chorioretinopathy Treated with Eplerenone: Long-Term Effects on the Fellow Eye. *Ophthalmol Ther.* 2023 Dec;12(6):3199-3210. doi: 10.1007/s40123-023-00816-8. Epub 2023 Sep 25. PMID: 37747638; PMCID: PMC10640459.
22. **Borrelli E**, Berni A, Mastropasqua L, Querques G, Sadda SR, Sarraf D, Bandello F. Pushing Retinal Imaging Forward: Innovations and Their Clinical Meaning - The 2022 Ophthalmologica Lecture. *Ophthalmologica.* 2023;246(5-6):278-294. doi: 10.1159/000533910. Epub 2023 Sep 13. PMID: 37703839.
23. **Borrelli E**, Oakley JD, Iaccarino G, Russakoff DB, Battista M, Grosso D, Borghesan F, Barresi C, Sacconi R, Bandello F, Querques G. Deep-learning based automated quantification of critical optical coherence tomography features in neovascular age-related macular degeneration. *Eye (Lond).* 2023 Sep 5. doi: 10.1038/s41433-023-02720-8. Epub ahead of print. PMID: 37670143.
24. **Borrelli E**, Cascavilla ML, Lari G, De Negri AM, Battista M, Galzignato A, Coutinho C, Berni A, Barresi C, Ricciotti G, Bandello F, Barboni P. Peripapillary hyperreflective ovoid mass-like structures (PHOMS) in patients with acute Leber's hereditary optic neuropathy. *Graefes Arch Clin Exp Ophthalmol.* 2023 Aug 16. doi: 10.1007/s00417-023-06205-y. Epub ahead of print. PMID: 37584789.
25. Tombolini B, Battista M, **Borrelli E**, Frontino G, Bandello F, Barboni P, Cascavilla ML. Wolfram Syndrome: Only a Neurodegenerative Disease or Also a Maculopathy? *J Neuroophthalmol.* 2023 Aug 14. doi: 10.1097/WNO.0000000000001981. Epub ahead of print. PMID: 37581949.
26. Marolo P, Ribero S, Caselgrandi P, Ghilardi A, de Sanctis U, Parisi G, Fallico M, **Borrelli E**, Ortoncelli M, Gelato F, Mastorino L, Tibaldi T, Rocuzzo G, Quaglino P, Reibaldi M. Ocular Surface Disease in Patients With Atopic Dermatitis Treated With Dupilumab: A Prospective Case-Control Study. *Cornea.* 2023 Jul 4. doi: 10.1097/ICO.0000000000003341. Epub ahead of print. PMID: 37404010.
27. Barresi C, Chhablani J, Dolz-Marco R, Gallego-Pinazo R, Berni A, Bandello F, **Borrelli E**. Retinal neurodegeneration in age-related macular degeneration. *Eur J Ophthalmol.* 2023 Jul 2:11206721231186166. doi: 10.1177/11206721231186166. Epub ahead of print. PMID: 37394731.
28. Marolo P, **Borrelli E**, Gelormini F, Boscia G, Parisi G, Fallico M, Barresi C, Lari G, Berni A, Bandello F, Reibaldi M. Retinal Thickness Deviation: A New OCT Parameter for Assessing Diabetic Macular Edema. *J Clin Med.* 2023 Jun 11;12(12):3976. doi: 10.3390/jcm12123976. PMID: 37373669; PMCID: PMC10299100.
29. **Borrelli E**, Barresi C, Battista M, Berni A, Ricardi F, Cascavilla ML, Reibaldi M, Bandello F. Prevalence and Morphologic Biomarkers of Metamorphopsia in eyes with "Resolved" Chronic Central Serous Chorioretinopathy. *Retina.* 2023 May 23. doi: 10.1097/IAE.0000000000003845. Epub ahead of print. PMID: 37229754.
30. **Borrelli E**, Quarta A, Pozzi E, Fallara G, Pennisi F, Casaluci M, Lamanna F, Querques L, Sacconi R, Bandello F, Montorsi F, Salonia A, Querques G. The retinal neurovascular coupling is impaired in men with vasculogenic erectile dysfunction. *Sci Rep.* 2023 May 22;13(1):8237. doi: 10.1038/s41598-023-35339-6. PMID: 37217570; PMCID: PMC10203266.
31. **Borrelli E**, Barresi C, Lari G, Berni A, Battista M, Reibaldi M, Cascavilla ML, Bandello F. Capturing the Transition From Intermediate to Neovascular AMD: Longitudinal Inner Retinal Thinning and Factors Associated With Neuronal Loss. *Invest Ophthalmol Vis Sci.* 2023 Apr 3;64(4):21. doi: 10.1167/iovs.64.4.21. PMID: 37074695; PMCID: PMC10132315.
32. Bandello F, **Borrelli E**, Trevisi M, Lattanzio R, Sacconi R, Querques G. Imaging Biomarkers of Mesopic and Dark-Adapted Macular Functions in Eyes With Treatment-Naïve Mild Diabetic Retinopathy. *Am J Ophthalmol.* 2023 Apr 12;253:56-64. doi: 10.1016/j.ajo.2023.04.005. Epub ahead of print. PMID: 37059317.
33. Viggiano P, Grassi MO, Bisceglia G, Boscia G, **Borrelli E**, Malerba MG, Fracchiolla A, Alessio G, Boscia F. Short-term peripapillary structural and vascular changes following anti-VEGF vs. Dexamethasone intravitreal therapy in patients with DME. *Eur J Ophthalmol.* 2023 Mar 20:11206721231163615. doi: 10.1177/11206721231163615. Epub ahead of print. PMID: 36938676.
34. Singh SR, Vaidya H, **Borrelli E**, Chhablani J. Foveal photoreceptor disruption in ocular diseases: An optical coherence tomography-based differential diagnosis. *Surv Ophthalmol.* 2023 Jul-Aug;68(4):655-668. doi: 10.1016/j.survophthal.2023.03.003. Epub 2023 Mar 18. PMID: 36934831.

35. **Borrelli E**, Barresi C, Feo A, Lari G, Grosso D, Querques L, Sacconi R, Bandello F, Querques G. Imaging biomarkers and clinical factors associated with the rate of progressive inner and outer retinal thinning in patients with diabetic macular edema. *Sci Rep*. 2023 Feb 24;13(1):3224. doi: 10.1038/s41598-023-30432-2. PMID: 36828954; PMCID: PMC9958084.
36. Ventre L, Fallico M, Longo A, Parisi G, Russo A, Bonfiglio V, Marolo P, Caselgrandi P, Avitabile T, **Borrelli E**, Reibaldi M. Reply. *Retina*. 2023 Apr 1;43(4):e27. doi: 10.1097/IAE.0000000000003752. PMID: 36796036.
37. Battista M, Cascavilla ML, **Borrelli E**, Barresi C, Lari G, Caporali L, Viganò C, Berni A, Carelli V, Bandello F, Barboni P. Choroidal vascularity index in hereditary optic neuropathies. *Eye (Lond)*. 2023 Feb 7. doi: 10.1038/s41433-023-02383-5. Epub ahead of print. PMID: 36747110.
38. Zhang L, Van Dijk EHC, **Borrelli E**, Fragiotta S, Breazzano MP. OCT and OCT Angiography Update: Clinical Application to Age-Related Macular Degeneration, Central Serous Chorioretinopathy, Macular Telangiectasia, and Diabetic Retinopathy. *Diagnostics (Basel)*. 2023 Jan 8;13(2):232. doi: 10.3390/diagnostics13020232. PMID: 36673042; PMCID: PMC9858550.
39. **Borrelli E**, Viganò C, Battista M, Sacconi R, Senni C, Querques L, Grosso D, Bandello F, Querques G. Individual vs. combined imaging modalities for diagnosing neovascular central serous chorioretinopathy. *Graefes Arch Clin Exp Ophthalmol*. 2023 May;261(5):1267-1273. doi: 10.1007/s00417-022-05924-y. Epub 2022 Nov 28. PMID: 36441229.
40. **Borrelli E**, Berni A, Cascavilla ML, Barresi C, Battista M, Lari G, Reibaldi M, Bandello F, Barboni P. Visual Outcomes and Optical Coherence Tomography Biomarkers of Vision Improvement in Patients With Leber Hereditary Optic Neuropathy Treated With Idebenone. *Am J Ophthalmol*. 2023 Mar;247:35-41. doi: 10.1016/j.ajo.2022.11.004. Epub 2022 Nov 12. PMID: 36375592.
41. Viggiano P, Grassi MO, Boscia G, Pignataro M, Petruzzella G, **Borrelli E**, Molfetta T, Alessio G, Boscia F. Short-Term Morphofunctional Changes in Previously Treated Neovascular AMD Eyes Switched to Brolucizumab. *J Clin Med*. 2022 Sep 21;11(19):5517. doi: 10.3390/jcm11195517. PMID: 36233385; PMCID: PMC9570643.
42. Halouani S, Le HM, Querques G, **Borrelli E**, Sacconi R, Battista M, Jung C, Souied EH, Miere A. CHOROIDAL VASCULARITY INDEX IN HYDROXYCHLOROQUINE TOXIC RETINOPATHY: A Quantitative Comparative Analysis Using Enhanced Depth Imaging In Spectral Domain Optical Coherence Tomography. *Retina*. 2023 Jan 1;43(1):94-101. doi: 10.1097/IAE.0000000000003638. PMID: 36201756.
43. Viggiano P, Grassi MO, Pignataro M, Boscia G, **Borrelli E**, Molfetta T, Evangelista F, Alessio G, Boscia F. Topographical Analysis of the Choriocapillaris Reperfusion After Loading Anti-VEGF Therapy in Neovascular AMD. *Transl Vis Sci Technol*. 2022 Sep 1;11(9):18. doi: 10.1167/tvst.11.9.18. PMID: 36135978; PMCID: PMC9513736.
44. Mano F, Yonekawa Y, Kakiyama S, Fortun J, **Borrelli E**, Bandello F, Murata T, Kusaka S, Dispenzieri A, Pulido JS. CHOROIDAL AMYLOID DEPOSITION: A Multicenter Study of Amyloid Lesions Identified in Late Indocyanine Green Angiography. *Retina*. 2022 Oct 1;42(10):1989-1994. doi: 10.1097/IAE.0000000000003551. PMID: 36129270.
45. Ventre L, Fallico M, Longo A, Parisi G, Russo A, Bonfiglio V, Marolo P, Caselgrandi P, Avitabile T, **Borrelli E**, Reibaldi M. CONVENTIONAL INTERNAL LIMITING MEMBRANE PEELING VERSUS INVERTED FLAP FOR SMALL-TO-MEDIUM IDIOPATHIC MACULAR HOLE: A Randomized Trial. *Retina*. 2022 Dec 1;42(12):2251-2257. doi: 10.1097/IAE.0000000000003622. Epub 2022 Sep 6. PMID: 36084331; PMCID: PMC9665942.
46. **Borrelli E**, Battista M, Barresi C, Grosso D, Gabela MC, Quarta A, Saladino A, Sacconi R, Querques L, Bandello F, Querques G. INNER AND OUTER CHOROIDAL CHANGES IN THE FELLOW EYE OF PATIENTS WITH UNILATERAL CENTRAL SEROUS CHORIORETINOPATHY. *Retina*. 2022 Jul 1;42(7):1238-1247. doi: 10.1097/IAE.0000000000003452. PMID: 35723918.
47. Carbonelli M, La Morgia C, Romagnoli M, Amore G, D'Agati P, Valentino ML, Caporali L, Cascavilla ML, Battista M, **Borrelli E**, Di Renzo A, Parisi V, Balducci N, Carelli V, Barboni P. Capturing the Pattern of Transition From Carrier to Affected in Leber Hereditary Optic Neuropathy. *Am J Ophthalmol*. 2022 Sep;241:71-79. doi: 10.1016/j.ajo.2022.04.016. Epub 2022 May 2. PMID: 35513027.
48. Le HM, Souied EH, Halouani S, **Borrelli E**, Chapron T, Querques G, Miere A. Quantitative Analysis of Choriocapillaris Using Swept-Source Optical Coherence Tomography Angiography in Eyes with Angioid Streaks. *J Clin Med*. 2022 Apr 11;11(8):2134. doi: 10.3390/jcm11082134. PMID: 35456229; PMCID: PMC9026537.
49. Sahoo NK, Ong J, Selvam A, Maltsev D, Sacconi R, Venkatesh R, Reddy NG, Madan S, Tombolini B, Lima LH, Pramil V, Anantharaman G, Casella AM, Ledesma-Gil G, Waheed N, **Borrelli E**, Querques G, Chhablani J. Longitudinal follow-up and outcome analysis in central serous chorioretinopathy. *Eye (Lond)*. 2023 Mar;37(4):732-738. doi: 10.1038/s41433-022-02044-z. Epub 2022 Apr 1. PMID: 35365777; PMCID: PMC9998630.
50. Cozzupoli GM, **Borrelli E**, Capuano V, Sacconi R, Astroz P, Battista M, Bandello F, Souied E, Querques G. InCASEOf scoring system for distinction between pachychoroid-associated macular neovascularization and neovascular age-related macular degeneration in patients older than 50 years. *Sci Rep*. 2022 Feb 21;12(1):2938. doi: 10.1038/s41598-022-06968-0. PMID: 35190608; PMCID: PMC8861109.

51. Battista M, Sacconi R, **Borrelli E**, Crepaldi A, Fantaguzzi F, Costanzo E, De Geronimo D, Parravano M, Bandello F, Querques G. Discerning Between Macular Hemorrhages Due to Macular Neovascularization or Due to Spontaneous Bruch's Membrane Rupture in High Myopia: A Comparative Analysis Between OCTA and Fluorescein Angiography. *Ophthalmol Ther*. 2022 Apr;11(2):821-831. doi: 10.1007/s40123-022-00484-0. Epub 2022 Feb 20. PMID: 35184253; PMCID: PMC8927552.
52. Battista M, Cascavilla ML, Grosso D, **Borrelli E**, Frontino G, Amore G, Carbonelli M, Bonfanti R, Rigamonti A, Barresi C, Viganò C, Tombolini B, Crepaldi A, Montemagni M, La Morgia C, Bandello F, Barboni P. Retinal vascular impairment in Wolfram syndrome: an optical coherence tomography angiography study. *Sci Rep*. 2022 Feb 8;12(1):2103. doi: 10.1038/s41598-022-06150-6. PMID: 35136185; PMCID: PMC8825854.
53. Tombolini B, **Borrelli E**, Sacconi R, Bandello F, Querques G. Diabetic macular ischemia. *Acta Diabetol*. 2022 Jun;59(6):751-759. doi: 10.1007/s00592-021-01844-1. Epub 2022 Feb 8. PMID: 35133500.
54. **Borrelli E**, Bandello F, Souied EH, Barresi C, Miere A, Querques L, Sacconi R, Querques G. Neovascular age-related macular degeneration: advancement in retinal imaging builds a bridge between histopathology and clinical findings. *Graefes Arch Clin Exp Ophthalmol*. 2022 Jul;260(7):2087-2093. doi: 10.1007/s00417-022-05577-x. Epub 2022 Feb 5. PMID: 35122134.
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\*co-first authors

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## BOOK CHAPTERS

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2. **Borrelli E**, Souied E, Querques G. "Neovascular age-related macular degeneration". In "Ryan's Retina – 7<sup>th</sup> Edition". Editors: Srinivas Sadda, Andrew Schachat, Charles Wilkinson, David Hinton, Peter Wiedemann, K. Bailey Freund, David Sarraf. Publisher: Elsevier, Amsterdam, Netherlands. 2022. ISBN: 9780323722131.
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## INTERNATIONAL MEETINGS (Speaker)

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**March 2024: Borrelli E (invited speaker).** "*Topographical assessment of the outer choroidal vessels in geographic atrophy*". Presented at the "8<sup>th</sup> San Raffaele OCT and Retina Forum" meeting, Milan, Italy.

**February 2024: Borrelli E (invited speaker).** "*Type-3 Macular Vascularization: Retinal Angiomas Proliferation (RAP) In Age-Related Macular Degeneration*". Presented at the "Rutgers New Jersey Medical School - Institute of Ophthalmology and Visual Science Ophthalmology Grand Rounds" virtual meeting.

**February 2024: Borrelli E (paper submission).** "*Distinct Pathways and Incidence of Macular Atrophy in Type 3 Macular Neovascularization Associated with AMD*". Presented at the "47<sup>th</sup> Macula Society" meeting, Palm Springs, California, USA.

**December 2023: Borrelli E (invited speaker).** "*How to interpret OCT findings: which we cannot miss*". Presented at the "2023 ICOOR-Floretina" meeting, Rome, Italy.

**December 2023: Borrelli E (invited speaker).** "*Type 3 macular neovascularization: different patterns revealed by structural OCT*". Presented at the "2023 ICOOR-Floretina" meeting, Rome, Italy.

**December 2023: Borrelli E (invited speaker).** "*Macular function and morphology in diabetics*". Presented at the "2023 ICOOR-Floretina" meeting, Rome, Italy.

**December 2023: Borrelli E (invited speaker).** "*OCT biomarkers in geographic atrophy*". Presented at the "2023 ICOOR-Floretina" meeting, Rome, Italy.

**November 2023: Borrelli E (invited speaker).** "*New generation imaging biomarkers in retinal vascular diseases*". Presented at the "ARVO Biomarkers in Ophthalmology" virtual meeting.

**November 2023: Borrelli E (invited speaker).** "*AI to detect biomarkers associated with the prognosis and progression in eyes with neovascular AMD*". Presented at the "ARVO Biomarkers in Ophthalmology" virtual meeting.

**November 2023: Borrelli E (invited speaker).** "*The importance of structural OCT in central serous chorioretinopathy*". Presented at the "XV Azerbaijan YO Conference and Azerbaijan YO Forum" virtual meeting.

**October 2023: Borrelli E (invited speaker).** "*OCT and OCTA parameters revisited*". Presented at the 2023 Euretina Congress, Amsterdam, Netherlands.

**October 2023: Borrelli E (paper submission).** "*OCT Risk Factors for 2-Year Foveal Involvement in non-treated eyes with Extrafoveal Geographic Atrophy and Age-Related Macular Degeneration*". Presented at the 2023 Euretina Congress, Amsterdam, Netherlands.

**October 2023: Borrelli E (invited speaker).** "*The role of mitochondria in geographic atrophy progression in age-related macular degeneration*". Presented at the 2023 Euretina Congress, Amsterdam, Netherlands.

**October 2023: Borrelli E (invited speaker).** "*Basic approach to initial review of OCT images of the retina and choroid*". Presented at the 2023 Euretina Congress, Amsterdam, Netherlands.

**August 2023: Borrelli E (invited speaker).** *“The importance of structural OCT in the assessment of patients with central serous chorioretinopathy”*. Presented at the 20th EVRS Meeting, Cappadocia, Turkey.

**July 2023: Borrelli E (invited speaker).** *“Capturing the transition from intermediate to neovascular AMD longitudinal inner retinal thinning and factors associated with neuronal loss”*. Presented at the “Indian Imaging” virtual meeting.

**June 2023: Borrelli E (paper submission).** *“Deep learning-based topographical quantification of retinal fluids in type 3 macular neovascularization”*. Presented at the “Asia Pacific Retinal Imaging Society (APRIS)” meeting, Seoul, South Korea.

**June 2023: Borrelli E (invited speaker).** *“Defining response to anti-VEGF treatment in nAMD”*. Presented at the “XXIII Congress Italian Society of Vitreoretinal Surgery (GIVRE)” meeting, Trieste, Italy.

**June 2023: Borrelli E (invited speaker).** *“The importance of structural OCT in the assessment of patients with central serous chorioretinopathy”*. Presented at the “XXIII Congress Italian Society of Vitreoretinal Surgery (GIVRE)” meeting, Trieste, Italy.

**March 2023: Borrelli E (paper submission).** *“Capturing the Transition from Intermediate to Neovascular AMD: Longitudinal Inner Retinal Thinning and Factors associated with Neuronal Loss”*. Presented at the “International Retinal Imaging Symposium 2023” meeting, Los Angeles, California, USA.

**March 2023: Borrelli E (invited speaker).** *“Biomarkers in Geographic Atrophy”*. Presented at the “7<sup>th</sup> San Raffaele OCT and Retina Forum” meeting, Milan, Italy.

**March 2023: Borrelli E (invited speaker).** *“OCT biomarkers predicting reading performance in patients with neovascular AMD”*. Presented at the “7<sup>th</sup> San Raffaele OCT and Retina Forum” meeting, Milan, Italy.

**March 2023: Borrelli E (invited speaker).** *“Rosario Brancato Retina Award Lecture: Imaging to better understand AMD”*. Presented at the “7<sup>th</sup> San Raffaele OCT and Retina Forum” meeting, Milan, Italy.

**December 2022: Borrelli E (invited speaker).** *“OCT angiography and retinal anatomy”*. Presented at the “ICOOR-Floretina” meeting, Rome, Italy.

**December 2022: Borrelli E (invited speaker).** *“Deep learning to quantify clinical features in patients with neovascular age-related macular degeneration”*. Presented at the “ICOOR-Floretina” meeting, Rome, Italy.

**December 2022: Borrelli E (invited speaker).** *“My approach to the basic interpretation of OCT”*. Presented at the “ICOOR-Floretina” meeting, Rome, Italy.

**December 2022: Borrelli E (invited speaker).** *“How aflibercept changed our clinical practice”*. Presented at the “ICOOR-Floretina” meeting, Rome, Italy.

**December 2022: Borrelli E (invited speaker).** *“Fundus autofluorescence”*. Presented at the “ICOOR-Floretina” meeting, Rome, Italy.

**November 2022: Borrelli E (invited speaker).** *“Retinal neuronal loss in patients with AMD”*. Presented at the Turkish Ophthalmological Association 56th meeting, Ankara, Turkey.

**September 2022: Borrelli E (invited speaker).** *“Pushing retinal imaging forward: innovations and their clinical meaning. The Ophthalmologica lecture”*. Presented at the 2022 Euretina Congress, Hamburg, Germany.

**April 2022: Borrelli E (paper submission).** *“Inner and Outer Choroidal Changes in the Fellow Eye of Patients with Unilateral Central Serous Chorioretinopathy”*. Presented at the 2022 InTRIS virtual meeting.

**April 2022: Borrelli E (invited speaker).** *“Long-term visual outcomes and morphologic biomarkers of vision loss in eyes with diabetic macular edema treated with anti-VEGF therapy”*. Oral presentation at the OCT and Retina Forum, Milan, Italy.

**December 2021: Borrelli E (invited speaker).** *“Longitudinal assessment of Type 3 Macular Neovascularization using three-dimensional volume rendering OCTA”*. Presented at the “ICOOR-Floretina” meeting, Rome, Italy.

**November 2021: Borrelli E (invited speaker).** *“OCTA: Role in tracking response to anti-VEGF, guiding re-treatment strategies & common pitfalls in interpretation”*. Presented at the “Delhi Retina 2021” virtual meeting.

**November 2021: Borrelli E (invited speaker).** *“Aiuto dell'analisi informatica nella valutazione delle alterazioni vascolari della retina”*. Presented at the “Giovani ricercatori presentano le novità 2022 in retina medica” meeting, Chiasso, Switzerland.

**November 2021: Borrelli E (invited speaker).** *“OCTA in clinical practice: utility and pitfalls to avoid”*. Presented at the “Danish Ophthalmology Society” virtual meeting.

**November 2021: Borrelli E (invited speaker).** *“The choriocapillaris in intermediate AMD”*. Presented at the Turkish Ophthalmological Association 55th meeting, Ankara, Turkey.

**October 2021: Borrelli E (paper submission).** *“Long-term visual outcomes and morphologic biomarkers of vision loss in eyes with diabetic macular edema treated with anti-VEGF therapy”*. Oral presentation at the “EASDec 2021 annual meeting”, Odense, Denmark.

**September 2021: Borrelli E (invited speaker).** *“Influence of binarization thresholds on macular perfusion quantification”*. Presented at the virtual 2021 Euretina Congress.

**September 2021: Borrelli E (invited speaker).** *“Anti-VEGF therapy in pachychoroid disease”*. Presented at the virtual 2021 Euretina Congress.

**September 2021: Borrelli E (paper submission).** *“Deep-Learning based Automated Quantification of Critical OCT Features in Neovascular Age-related Macular Degeneration”*. Presented at the virtual 2021 Euretina Congress.

**August 2021: Borrelli E (paper submission).** *“Using Three-Dimensional OCTA Metrics Improves Repeatability on Quantification of Ischemia in Eyes with Diabetic Macular Edema”*. Presented at the “APRIS 2021” virtual meeting.

**July 2021: Borrelli E (invited speaker).** *“Choriocapillaris in AMD and Pachychoroid”*. Presented at the “Angiogenesis 2021” virtual meeting.

**April 2021: Borrelli E, Battista M; Vella G; Sacconi R; Querques L; Grosso D; Bandello F; Querques G (paper submission).** *“Three-year OCT Predictive Factors of Disease Recurrence in eyes with Successfully Treated Myopic Choroidal Neovascularization”*. Poster presentation at the Virtual ARVO 2021 Annual Meeting.

**April 2021: Borrelli E (invited speaker).** *“3D volume rendered OCTA in type 3 MNV”*. Presented at the Retina in progress virtual meeting.

**April 2021: Borrelli E (invited speaker).** *“Volume rendered three-dimensional OCTA in diabetes”*. Presented at the OCT and Retina Forum virtual meeting.

**December 2020: Borrelli E (invited speaker).** *“OCT Risk Factors for 3-Year Development of Macular Complications in eyes with “Resolved” Chronic Central Serous Chorioretinopathy”*. Presented at the Turkish TOA Virtual Symposium.

**August 2020: Borrelli E (paper submission).** *“OCT Risk Factors for 3-Year Development of Macular Complications in eyes with “Resolved” Chronic Central Serous Chorioretinopathy”*. Presented at the Asia Pacific Retinal Imaging Society (APRIS) virtual meeting.

**December 2019: Borrelli E (invited speaker).** *“Variables used to characterize choroidal perfusion: what is their relationship?”*. Presented at the 7th International Meeting on OCT Angiography and Advances in Imaging, Rome, Italy.

**September 2019: Borrelli E (invited speaker).** *“The choroid in AMD”*. Presented at the 19<sup>th</sup> Euretina Congress, Paris, France.

**September 2019: Borrelli E (invited speaker).** *“Choroid and diabetes”*. Presented at the 19<sup>th</sup> Euretina Congress, Paris, France.

**July 2019: Borrelli E (paper submission).** *“Metabolic autofluorescence in AMD”*. Presented at the Asia Pacific Retinal Imaging Society (APRIS) meeting, Seoul, South Korea.

**June 2019: Borrelli E (paper submission).** *“Metabolic studies in AMD”*. Presented at the Floretina Congress, Florence, Italy.

**March 2019: Borrelli E (invited speaker).** *“Diabetic choroidopathy”*. Presented at the Retina 2019 meeting, Rome, Italy.

**March 2019: Borrelli E, Parravano MC, Sacconi R, Querques G, and Bandello F (paper submission).** *“Impact of bleaching on photoreceptors in different intermediate AMD phenotypes”*. Presented at the 2019 InTRIS meeting, Los Angeles, USA.

**March 2019: Borrelli E (invited speaker).** *“Impact of bleaching on photoreceptors in different intermediate AMD phenotypes”*. Presented at the 5th OCT forum meeting, Milan, Italy.

**March 2018: Borrelli E, Mastropasqua R, Senatore A, Palmieri M, Toto L, Sadda SR, Mastropasqua L (paper submission).** *“Impact of Choriocapillaris Flow on Multifocal Electroretinography in Intermediate Age-related Macular Degeneration Eyes”*. Poster presentation at the Cophy 2018 Annual Meeting, Athens, Greece.

**March 2018: Borrelli E, Nittala M, Abdelfattah N, Lei J, Hariri A, Shi Y, Fan W, Cozzi M, Sarao V, Lanzetta P, Staurenghi G, Sadda SR (paper submission).** *“Comparison of short-wavelength blue-light autofluorescence and conventional blue-light autofluorescence in geographic atrophy”*. Poster presentation at the Cophy 2018 Annual Meeting, Athens, Greece.

**December 2017: Borrelli E (invited speaker).** *“Choriocapillaris in intermediate AMD”*. Oral presentation at the 5th International OCT Angiography and “En Face” OCT Congress, Rome, Italy.

**December 2017: Borrelli E, Mastropasqua L (paper submission).** *“OCTA in intermediate AMD”*. Oral presentation at the 5th International OCT Angiography and “En Face” OCT Congress, Rome, Italy.

**October 2017: Borrelli E (invited speaker).** *“Green Emission Fluorophores in Eyes with Atrophic Age-Related Macular Degeneration”*. Oral presentation at the “Fellows Forum”, Doheny Eye Institute, UCLA, Los Angeles, CA, USA.

**September 2017: Borrelli E (invited speaker).** *“Recent Advances in Fundus Autofluorescence Imaging in Atrophic Age-related Macular Degeneration”*. Oral presentation at the Young Retina Specialists (YOURS) Symposium, 17th EURETINA Congress, Barcelona, Spain.

**May 2017: Borrelli E, Uji A, Sarraf D, Sadda SR (paper submission).** *“Choriocapillaris changes in intermediate age-related macular degeneration with and without fellow neovascular eyes”*. Oral paper presentation at the ARVO 2017 Annual Meeting, Baltimore, USA.

**May 2016: Borrelli E, Toto L, Carpineto P, Mastropasqua R, Di Antonio L, Palmieri M, Pinto F, Mastropasqua L (paper submission).** *“Evaluation of both native and pathological vascular changes occurring during the Aflibercept intravitreal injections' loading phase in treatment-naïve wet AMD patients”*. Poster presentation at the ARVO 2016 Annual Meeting, Seattle, USA.

**March 2014: Borrelli E, Cascavilla ML, Venturini M, Triolo G, Milesi J, Lembo A, La Morgia C, Carelli V, Bandello FM, Barboni P (paper submission).** *“Ocular vascular features in mitochondrial optic neuropathies”*. Poster presentation at the 40th Annual Meeting of the North American Neuro-Ophthalmology Society, Puerto Rico.

## **INTERNATIONAL MEETINGS (Panelist, Moderator and Chair)**

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**December 2023:** Chair during the *“YORIS COURSE: Breaking news from YORIS”* session at the “2023 ICOOR-Floretina” meeting, Rome, Italy.

**December 2023:** Chair during the *“FREE PAPERS - DIABETIC RETINOPATHY 2 & DME: TREATMENT”* session at the “2023 ICOOR-Floretina” meeting, Rome, Italy.

**November 2023:** Chair during the *“Artificial intelligence to define the prognosis in age-related macular degeneration”* session at the “ARVO Biomarkers in Ophthalmology” virtual meeting.

**November 2023:** Chair during the *“New generation imaging biomarkers in retinal diseases”* session at the “ARVO Biomarkers in Ophthalmology” virtual meeting.

**October 2022:** Chair during the *“OCT: approach for a proper acquisition and interpretation of images”* session at the 2023 Euretina Congress, Amsterdam, Netherlands.

**June 2023:** Panelist during the “Dry AMD new incoming treatments: will they change our lives?” session at the “XXIII Congress Italian Society of Vitreoretinal Surgery (GIVRE)” meeting, Trieste, Italy.

**March 2023:** Moderator during the “Non-neovascular AMD II” session at the “International Retinal Imaging Symposium 2023” meeting, Los Angeles, California, USA.

**February 2023:** Chair during the “The clinician-scientist: An international perspective” session at the “ARVO Advance Conference” virtual meeting.

**December 2022:** Chair during the “YORIS IMAGING COURSE: WHAT’S NEW IN RETINAL IMAGING?” at the “ICOOR-Floretina” meeting, Rome, Italy.

**October 2022:** Chair during the “Navigating a Career as a Clinician Scientist” at the “American Academy of Ophthalmology” meeting, Chicago, Illinois, USA.

**September 2022:** Chair during the “Free Paper Session 12: Imaging 2” at the 2022 Euretina Congress, Hamburg, Germany.

## INVENTIONS/PATENT

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**2017:** Co-inventor with Dr. Srinivas R. Sadda of a software which highlights the region of geographic atrophy using color autofluorescence. The Doheny Eye Institute (University California Los Angeles, Los Angeles, CA, USA) licensed this software to Centervue (Padua, Italy).

## AWARDS AND GRANTS

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**August 2023 - Grant (€ 263,806.00):** EURETINA Retinal Medicine Clinical Research grant scheme for the project entitled “The role of mitochondria in geographic atrophy progression in age-related macular degeneration” (Principal Investigator).

**March 2023 - Award (€ 30,000.00):** “2023 Rosario Brancato Retina Award” at OCT and Retina Forum meeting 2023, Milan.

**September 2022 - Award:** “2022 Ophthalmologica Award & Keynote Lecture” at Euretina meeting 2022, Hamburg.

**November 2021 - Award:** “Young Ophthalmologist’s Medal” from the PAX EYE CENTER (Switzerland).

**August 2019 - Grant (US \$ 30,000.00):** GOAP (Global Ophthalmology Awards Program) Research Award for the project entitled “Surviving diabetes without complications: A patient-driven approach” (Principal Investigator).

**May 2017 - Grant (US \$ 750.00):** 1st prize best poster/paper presentation Doheny Eye Institute - UCLA at ARVO 2017, Baltimore, USA

**May 2017 - Grant (US \$ 750.00):** Retina Research Foundation/Joseph M. and Eula C. Lawrence Travel Grant at ARVO 2017, Baltimore, USA.

**May 2016 - Award:** “Favaloro” – at SOM meeting 2016, Bari, Italy.

## INVOLVEMENT IN SCIENTIFIC SOCIETIES

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Member of the ARVO Member-in-Training (MIT) Committee (Section Retina) 2021-2023

Member of the ARVO Professional Development and Education Committee (Section Retina) 2024-2027

Co-founder and current Vice-President of YORIS (Young Ophthalmology Retinal Imaging Society). This no-profit society promotes research and knowledge in retinal imaging among young ophthalmologists. YORIS currently counts more than 500 international members from all over the world.

Member of the Macula Society (2023-ongoing)

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## OTHER TEACHING AND SCIENTIFIC ACTIVITIES

Associate Editor for *American Journal of Ophthalmology International* (Retina section).

Associate Editor for *Therapeutic Advances in Ophthalmology*.

Associate Editor for *Frontiers in Neurology* (Ophthalmology section).

Associate Editor for *European Journal of Ophthalmology*.

Section Editor for *Eye* (Retina section).

Editorial Board Member for *TVST*.

Editorial Assistant for *Canadian Journal of Ophthalmology*.

Reviewer for *Progress in Retinal and Eye Research*, *Ophthalmology*, *American Journal of Ophthalmology*, *Ophthalmology Retina*, *British Journal of Ophthalmology*, *Retina*, *Investigative Ophthalmology & Visual Science*, *Ophthalmologica*, *Acta Diabetologica*, *Acta Ophthalmologica*, *Arquivos Brasileiros de Oftalmologia*, *BioDrugs*, *Biomed research international*, *BMC Ophthalmology*, *BMJ Open Diabetes Research*, *Expert Review of Ophthalmology*, *Eye and Vision*, *Graefe's Archive for Clinical and Experimental Ophthalmology*, *Journal of Biophotonics*, *Journal of Immunology Research*, *Journal of the Mechanical Behavior of Biomedical Materials*, *Ophthalmic Research*, *Ophthalmology Science*, *European Journal of Ophthalmology*, *Retinal cases and brief reports*, *Therapeutic Advances in Ophthalmology*, *Traslational Scientific Reports*, *Frontiers in Neurology*, *International Ophthalmology*, *Mitochondrion*, and *PlosOne* journals.

Faculty role at the European School for Advanced Studies in Ophthalmology (ESASO).

Faculty role at the Venice Ophthalmology Summer School (2023).

Scientific advisor for AbbVie, Apellis Pharmaceuticals, Bayer, Novartis, Roche, Zeiss.

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## PROFESSIONAL PROFILES

<https://www.scopus.com/authid/detail.uri?authorId=56197063800>

<https://pubmed.ncbi.nlm.nih.gov/?term=borrelli+enrico&sort=date>

<https://www.researchgate.net/profile/Enrico-Borrelli>

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## LANGUAGES

**First language:** Italian. **Other language:** English.

## PERSONAL INTERESTS

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Tennis, Soccer, Travels.