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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.

CURRENT POSITION

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

POST-DEGREE CLINICAL/RESEARCH ELECTIVES

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

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

2014-2021: Experience as first or second operator in more than 500 surgical/parasurgical treatments, including cataract extraction, retinal laser treatment and photodynamic therapy.

2014-2021: Advanced multimodal imaging and diagnostics (~10000 procedures/year) mainly for retinal and macular diseases.

PUBLICATIONS

1. **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.* 2022 Nov 28. doi: 10.1007/s00417-022-05924-y. Epub ahead of print. PMID: 36441229.
2. **Borrelli E**, Berni A, Cascavilla ML, Barresi C, Battista M, Lari G, Reibaldi M, Bandello F, Barboni P. Visual Outcomes and OCT Biomarkers of Vision Improvement in Patients with Leber's Hereditary Optic Neuropathy treated with Idebenone. *Am J Ophthalmol.* 2022 Nov 11:S0002-9394(22)00432-9. doi: 10.1016/j.ajo.2022.11.004. Epub ahead of print. PMID: 36375592.
3. 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.
4. 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.* 2022 Oct 3. doi: 10.1097/IAE.0000000000003638. Epub ahead of print. PMID: 36201756.
5. 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.

6. 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.
7. 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.
8. **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.
9. 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's hereditary optic neuropathy. *Am J Ophthalmol*. 2022 May 2:S0002-9394(22)00166-0. doi: 10.1016/j.ajo.2022.04.016. Epub ahead of print. PMID: 35513027.
10. 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.
11. 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)*. 2022 Apr 1. doi: 10.1038/s41433-022-02044-z. Epub ahead of print. PMID: 35365777.
12. 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.
13. 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.
14. 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.
15. 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.
16. **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 Feb 5. doi: 10.1007/s00417-022-05577-x. Epub ahead of print. PMID: 35122134.
17. Brambati M, **Borrelli E**, Capone L, Querques L, Sacconi R, Battista M, Bandello F, Querques G. Changes in Macular Perfusion After ILUVIEN® Intravitreal Implant for Diabetic Macular Edema: An OCTA Study. *Ophthalmol Ther*. 2022 Apr;11(2):653-660. doi: 10.1007/s40123-022-00455-5. Epub 2022 Jan 28. PMID: 35088300; PMCID: PMC8927530.

18. Corbelli E, Sacconi R, Battista M, Bacherini D, Miere A, **Borrelli E**, Costanzo E, Vella G, Parravano M, Ziccardi L, Sodi A, Rizzo S, Souied EH, Bandello F, Querques G. Choroidal vascularity index in eyes with central macular atrophy secondary to age-related macular degeneration and Stargardt disease. *Graefes Arch Clin Exp Ophthalmol*. 2022 May;260(5):1525-1534. doi: 10.1007/s00417-021-05337-3. Epub 2022 Jan 20. PMID: 35048199.
19. Sacconi R, **Borrelli E**, Balasubramanian S, Vella G, Battista M, Vupparaboina KK, Chhablani J, Bandello F, Querques G. Choroidal vascularity index in leptochoroid: A comparative analysis between reticular pseudodrusen and high myopia. *Eye (Lond)*. 2022 Jan 10. doi: 10.1038/s41433-021-01889-0. Epub ahead of print. PMID: 35001089.
20. Rabiolo A, Fantaguzzi F, Sacconi R, Gelormini F, **Borrelli E**, Triolo G, Bettin P, McNaught AI, Caprioli J, Querques G, Bandello F. Combining Structural and Vascular Parameters to Discriminate Among Glaucoma Patients, Glaucoma Suspects, and Healthy Subjects. *Transl Vis Sci Technol*. 2021 Dec 1;10(14):20. doi: 10.1167/tvst.10.14.20. PMID: 34928324; PMCID: PMC8709930.
21. Calzetti G, Mora P, **Borrelli E**, Sacconi R, Ricciotti G, Carta A, Gandolfi S, Querques G. Short-term changes in retinal and choroidal relative flow volume after anti-VEGF treatment for neovascular age-related macular degeneration. *Sci Rep*. 2021 Dec 9;11(1):23723. doi: 10.1038/s41598-021-03179-x. PMID: 34887454; PMCID: PMC8660908.
22. Fallico M, Lotery A, Maugeri A, Favara G, Barchitta M, Agodi A, Russo A, Longo A, Bonfiglio V, Avitabile T, Marolo P, **Borrelli E**, Parisi G, Cennamo G, Furino C, Reibaldi M. Intravitreal dexamethasone implant versus anti-vascular endothelial growth factor therapy combined with cataract surgery in patients with diabetic macular oedema: a systematic review with meta-analysis. *Eye (Lond)*. 2021 Nov 18. doi: 10.1038/s41433-021-01847-w. Epub ahead of print. PMID: 34795415.
23. **Borrelli E**, Sacconi R, Querques G, Bandello F. Optical coherence tomography angiography in the management of diabetic retinopathy. *Indian J Ophthalmol*. 2021 Nov;69(11):3009-3014. doi: 10.4103/ijo.IJO_1367_21. PMID: 34708736; PMCID: PMC8725121.
24. Sacconi R, Vella G, Battista M, **Borrelli E**, Balasubramanian S, Querques L, Bandello F, Querques G. Choroidal Vascularity Index in Different Cohorts of Dry Age-Related Macular Degeneration. *Transl Vis Sci Technol*. 2021 Oct 4;10(12):26. doi: 10.1167/tvst.10.12.26. PMID: 34665234; PMCID: PMC8543393.
25. **Borrelli E**, Grosso D, Parravano M, Costanzo E, Brambati M, Viganò C, Sacconi R, Querques L, Pina A, De Geronimo D, Bandello F, Querques G. Volume rendered 3D OCTA assessment of macular ischemia in patients with type 1 diabetes and without diabetic retinopathy. *Sci Rep*. 2021 Oct 5;11(1):19793. doi: 10.1038/s41598-021-99297-7. PMID: 34611239; PMCID: PMC8492730.
26. **Borrelli E**, Battista M, Cascavilla ML, Viganò C, Borghesan F, Nicolini N, Clemente L, Sacconi R, Barresi C, Marchese A, Miserocchi E, Modorati G, Bandello F, Querques G. Impact of Structural Changes on Multifocal Electroretinography in Patients With Use of Hydroxychloroquine. *Invest Ophthalmol Vis Sci*. 2021 Sep 2;62(12):28. doi: 10.1167/iovs.62.12.28. PMID: 34581725; PMCID: PMC8479571.
27. Sacconi R, Battista M, **Borrelli E**, Senni C, Tombolini B, Grosso D, Querques L, Bandello F, Querques G. CHOROIDAL VASCULARITY INDEX IS ASSOCIATED WITH GEOGRAPHIC ATROPHY PROGRESSION. *Retina*. 2022 Feb 1;42(2):381-387. doi: 10.1097/IAE.0000000000003305. PMID: 34561405.
28. Barresi C, **Borrelli E**, Fantaguzzi F, Grosso D, Sacconi R, Bandello F, Querques G. Complications Associated with Worse Visual Outcomes in Patients with Exudative Neovascular Age-Related Macular Degeneration. *Ophthalmologica*. 2021;244(6):512-522. doi: 10.1159/000519518. Epub 2021 Sep 13. PMID: 34517374.
29. **Borrelli E**, Grosso D, Barresi C, Lari G, Sacconi R, Senni C, Querques L, Bandello F, Querques G. Long-Term Visual Outcomes and Morphologic Biomarkers of Vision Loss in Eyes With Diabetic Macular Edema Treated With Anti-VEGF Therapy. *Am J Ophthalmol*. 2022 Mar;235:80-89. doi: 10.1016/j.ajo.2021.09.002. Epub 2021 Sep 10. PMID: 34509431.

30. **Borrelli E**, La Morgia C, Querques G. Middle-aged Woman With Bilateral Macular Atrophy, Hearing Loss, and Headache. *JAMA Ophthalmol.* 2021 Nov 1;139(11):1238-1239. doi: 10.1001/jamaophthalmol.2021.0944. PMID: 34499084.
31. Hedels C, Fantaguzzi F, **Borrelli E**, Sacconi R, Querques G. Multimodal Imaging of Peripapillary Hyperreflective Ovoid Mass-Like Structures. *Retina.* 2021 Nov 1;41(11):e75-e76. doi: 10.1097/IAE.0000000000003292. PMID: 34483313.
32. Khorrami Kashi A, Souied E, Fares S, **Borrelli E**, Capuano V, Jung C, Querques G, Mouallem A, Miere A. The Spectrum of Central Choriocapillaris Abnormalities on Swept-Source Optical Coherence Tomography Angiography in the Fellow Eye of Unilateral Exudative Age-Related Macular Degeneration Patients: From Flow Deficits to Subclinical Non-Exudative Neovascularization. *J Clin Med.* 2021 Jun 16;10(12):2658. doi: 10.3390/jcm10122658. PMID: 34208728; PMCID: PMC8234697.
33. Vigano' C, **Borrelli E**, Sacconi R, Brambati M, Bandello F, Querques G. Gliotic tissue simulating a macular neovascularization in full-thickness macular hole. *Eur J Ophthalmol.* 2021 Jun 29:11206721211029501. doi: 10.1177/11206721211029501. Epub ahead of print. PMID: 34187218.
34. Costanzo E, Parravano M, Giannini D, **Borrelli E**, Sacconi R, Querques G. Imaging Biomarkers of 1-Year Activity in Type 1 Macular Neovascularization. *Transl Vis Sci Technol.* 2021 May 3;10(6):18. doi: 10.1167/tvst.10.6.18. PMID: 34111264; PMCID: PMC8131998.
35. **Borrelli E**, Mastropasqua L, Souied E, Sadda S, Vella G, Toto L, Miere A, Corradetti G, Sacconi R, Ferro G, Sarraf D, Querques L, Mastropasqua R, Bandello F, Querques G. Longitudinal assessment of type 3 macular neovascularization using three-dimensional volume-rendering OCTA. *Can J Ophthalmol.* 2021 May 28:S0008-4182(21)00164-2. doi: 10.1016/j.jcjo.2021.04.020. Epub ahead of print. PMID: 34058145.
36. Vella G, Sacconi R, **Borrelli E**, Bandello F, Querques G. Polypoidal choroidal vasculopathy in a patient with early-onset large colloid drusen. *Am J Ophthalmol Case Rep.* 2021 Apr 1;22:101085. doi: 10.1016/j.ajoc.2021.101085. PMID: 33898862; PMCID: PMC8056241.
37. **Borrelli E**, Sacconi R, Battista M, Bandello F, Querques G. Reply to Comment on OCT Risk Factors for 3-Year Development of Macular Complications in eyes with "Resolved" Chronic Central Serous Chorioretinopathy. *Am J Ophthalmol.* 2021 Sep;229:314-317. doi: 10.1016/j.ajo.2021.04.005. Epub 2021 Apr 20. PMID: 33857505.
38. Sacconi R, Brambati M, Miere A, Costanzo E, Capuano V, **Borrelli E**, Battista M, Parravano M, Souied EH, Bandello F, Querques G. Characterisation of macular neovascularisation in geographic atrophy. *Br J Ophthalmol.* 2021 Apr 9:bjophthalmol-2021-318820. doi: 10.1136/bjophthalmol-2021-318820. Epub ahead of print. PMID: 33836986.
39. **Borrelli E**, Sacconi R, Battista M, Bandello F, Querques G. Reply to Comment on: OCT Risk Factors for 3-Year Development of Macular Complications in eyes with "Resolved" Chronic Central Serous Chorioretinopathy. *Am J Ophthalmol.* 2021 Apr 12:S0002-9394(21)00196-3. doi: 10.1016/j.ajo.2021.04.005. Epub ahead of print. PMID: 33857505.
40. **Borrelli E**, Battista M, Vella G, Sacconi R, Querques L, Grosso D, Bandello F, Querques G. Three-year OCT predictive factors of disease recurrence in eyes with successfully treated myopic choroidal neovascularisation. *Br J Ophthalmol.* 2021 Mar 10:bjophthalmol-2020-318440. doi: 10.1136/bjophthalmol-2020-318440. Epub ahead of print. PMID: 33692035.
41. Iovino C, Peiretti E, Tatti F, Querques G, **Borrelli E**, Sacconi R, Chhablani J, Agrawal H, Boon CJF, van Dijk EHC, Cennamo G, Lupidi M, Muzi A, Di Iorio V, Igllicki M, Smadar L, Loewenstein A, Zur D. Photodynamic therapy as a treatment option for peripapillary pachychoroid syndrome: a pilot study. *Eye (Lond).* 2021 Apr 6. doi: 10.1038/s41433-021-01515-z. Epub ahead of print. PMID: 33824506.

42. **Borrelli E**, Battista M, Vella G, Grosso D, Sacconi R, Querques L, Zucchiatti I, Prascina F, Bandello F, Querques G. The COVID-19 Pandemic Has Had Negative Effects on Baseline Clinical Presentation and Outcomes of Patients with Newly Diagnosed Treatment-Naïve Exudative AMD. *J Clin Med*. 2021 Mar 18;10(6):1265. doi: 10.3390/jcm10061265. PMID: 33803808; PMCID: PMC8003286.
43. **Borrelli E**, Sacconi R, Parravano M, Costanzo E, Querques L, Battista M, Grosso D, Giorno P, Bandello F, Querques G. OCTA Assessment of the Diabetic Macula: a Comparison Study among Different Algorithms. *Retina*. 2021 Feb 11. doi: 10.1097/IAE.0000000000003145. Epub ahead of print. PMID: 33587426.
44. Carpineto P, **Borrelli E**, Cerino L, Guarini D, Aharrh-Gnama A, Ciciarelli V, Iafigliola C, Mastropasqua L. Inverted ILM Flap Technique in Idiopathic Full-Thickness Macular Hole Surgery: Functional Outcomes and Their Correlation with Morphologic Findings. *J Ophthalmol*. 2021 Feb 11;2021:6624904.
45. Brambati M, **Borrelli E**, Trevisani F, Bruschi E, Bandello F, Querques G. Bilateral detachment of the neurosensory retina in an apparently asymptomatic woman. *J Hypertens*. 2021 Feb 3. doi: 10.1097/HJH.0000000000002811. Epub ahead of print. PMID: 33560051.
46. **Borrelli E**, Battista M, Sacconi R, Querques G, Bandello F. Optical Coherence Tomography Angiography in Diabetes. *Asia Pac J Ophthalmol (Phila)*. 2021;10(1):20-25. doi:10.1097/APO.0000000000000351
47. **Borrelli E**, Parravano M, Costanzo E, Sacconi R, Querques L, Pennisi F, De Geronimo D, Bandello F, Querques G. Using three-dimensional OCTA metrics improves repeatability on quantification of ischemia in eyes with diabetic macular edema. *Retina*. 2020 Dec 14; Publish Ahead of Print. doi: 10.1097/IAE.0000000000003077. Epub ahead of print. PMID: 33332812.
48. **Borrelli E**, Sacconi R, Zuccaro B, Cavalleri M, Bordato A, Zucchiatti I, Querques L, Bandello F, Querques G. Photoreceptor alteration in intermediate age-related macular degeneration. *Sci Rep*. 2020 Dec 3;10(1):21036. doi: 10.1038/s41598-020-78201-9. PMID: 33273666; PMCID: PMC7713116.
49. Bacherini D, Mastropasqua R, **Borrelli E**, Capuano V, Iovino C, Dragotto F, Caporossi T, Rizzo S, Giansanti F. OCT-A in the Management of Vitreoretinal Diseases and Surgery. *Asia Pac J Ophthalmol (Phila)*. 2021 Jan-Feb 01;10(1):12-19. doi: 10.1097/APO.0000000000000373. PMID: 33512825.
50. Querques G, Sacconi R, Gelormini F, **Borrelli E**, Prascina F, Zucchiatti I, Querques L, Bandello F. Subthreshold laser treatment for reticular pseudodrusen secondary to age-related macular degeneration. *Sci Rep*. 2021 Jan 26;11(1):2193. doi: 10.1038/s41598-021-81810-7. PMID: 33500505; PMCID: PMC7838261.
51. Mai LE H, Souied EH, Querques G, Colantuono D, **Borrelli E**, Sacconi R, Amoroso F, Capuano V, Jung C, Miere A. Choriocapillaris flow impairment in type 3 macular neovascularization: a quantitative analysis using swept-source optical coherence tomography angiography. *Retina*. 2021 Jan 12. doi: 10.1097/IAE.0000000000003119. Epub ahead of print. PMID: 33464024.
52. **Borrelli E**, Battista M, Gelormini F, Sacconi R, Querques L, Vella G, Viganò C, Bandello F, Querques G. Rate of misdiagnosis and clinical usefulness of the correct diagnosis in exudative neovascular maculopathy secondary to AMD versus pachychoroid disease. *Sci Rep*. 2020 Nov 23;10(1):20344. doi: 10.1038/s41598-020-77566-1. PMID: 33230253; PMCID: PMC7684296.
53. Querques G, Sacconi R, Capuano V, Carnevali A, Colantuono D, Battista M, **Borrelli E**, Miere A, Parravano M, Costanzo E, Querques L, Souied EH, Bandello F. Treatment-naïve quiescent macular neovascularization secondary to AMD: The 2019 Young Investigator Lecture of Macula Society. *Eur J Ophthalmol*. 2021 Jan 14:1120672120986370. doi: 10.1177/1120672120986370. Epub ahead of print. PMID: 33445977.
54. **Borrelli E**, Zerbini G, Maestroni S, Sacconi R, Querques L, Zucchiatti I, Bandello F, Querques G. Multimodal imaging to detect in vivo responses to aflibercept therapy in a mouse model of type 3 neovascularization. *Ophthalmologica*. 2020 Nov 16. doi: 10.1159/000513051. Epub ahead of print. PMID: 33197922.

55. Sacconi R, **Borrelli E**, Querques G. Eplerenone for chronic central serous chorioretinopathy. *Lancet*. 2020 Nov 14;396(10262):1556. doi: 10.1016/S0140-6736(20)31610-X. PMID: 33189168.
56. Sacconi R, **Borrelli E**, Querques L, Bandello F, Querques G. Reply to: Non-Exudative Perifoveal Vascular Anomalous Complex: the Subclinical Stage of Perifoveal Exudative Vascular Anomalous Complex? *Am J Ophthalmol*. 2020 Nov 12;223:159. doi: 10.1016/j.ajo.2020.10.009. Epub ahead of print. PMID: 33188740.
57. Colantuono D, Souied EH, **Borrelli E**, Capuano V, Amoroso F, Sacconi R, Jung C, Querques G, Miere A. Quantitative deep vascular complex analysis of different AMD stages on optical coherence tomography angiography. *Eur J Ophthalmol*. 2020 Nov 3:1120672120968758. doi: 10.1177/1120672120968758. Epub ahead of print. PMID: 33143480.
58. **Borrelli E**, Battista M, Sacconi R, Gelormini F, Querques L, Grosso D, Vella G, Bandello F, Querques G. OCT Risk Factors for 3-Year Development of Macular Complications in eyes with "Resolved" Chronic Central Serous Chorioretinopathy. *American Journal of Ophthalmology* 2020 Oct. 10.1016/j.ajo.2020.10.011. Epub ahead of print
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BOOK CHAPTERS

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INTERNATIONAL MEETINGS

December 2022: Borrelli E. *"OCT angiography and retinal anatomy"*. Presented at the "ICOOR-Floretina" meeting, Rome, Italy.

December 2022: Borrelli E. *"Fundus autofluorescence"*. Presented at the "ICOOR-Floretina" meeting, Rome, Italy.

December 2022: Borrelli E. *"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. *"My approach to the basic interpretation of OCT"*. Presented at the "ICOOR-Floretina" meeting, Rome, Italy.

December 2022: Borrelli E. *"How aflibercept changed our clinical practice"*. Presented at the "ICOOR-Floretina" meeting, Rome, Italy.

November 2022: Borrelli E. *"Retinal neuronal loss in patients with AMD"*. Presented at the Turkish Ophthalmological Association 56th meeting, Ankara, Turkey.

September 2022: Borrelli E. *"Pushing retinal imaging forward: innovations and their clinical meaning. The Ophthalmologica lecture"*. Presented at the 2022 Euretina Congress, Hamburg, Germany.

April 2022: Borrelli E. *"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. *"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. *"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. *"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. *"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. *"OCTA in clinical practice: utility and pitfalls to avoid"*. Presented at the "Danish Ophthalmology Society" virtual meeting.

November 2021: Borrelli E. *"The choriocapillaris in intermediate AMD"*. Presented at the Turkish Ophthalmological Association 55th meeting, Ankara, Turkey.

October 2021: Borrelli E. *"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. *"Influence of binarization thresholds on macular perfusion quantification"*. Presented at the virtual 2021 Euretina Congress.

September 2021: Borrelli E. *"Anti-VEGF therapy in pachychoroid disease"*. Presented at the virtual 2021 Euretina Congress.

September 2021: Borrelli E. *"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. *"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. *"Choriocapillaris in AMD and Pachychoroid"*. Presented at the "Angiogenesis 2021" virtual meeting.

May 2021: Borrelli E. *“Linee Guida sull’Imaging con OCTA”*. Presented at the “OCTA: dalla ricerca alla pratica clinica” virtual meeting.

April 2021: Borrelli E, Battista M; Vella G; Sacconi R; Querques L; Grosso D; Bandello F; Querques G. *“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.

May 2021: Borrelli E. *“Linee Guida sull’Imaging con OCTA”*. Presented at the “OCTA: dalla ricerca alla pratica clinica”

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

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

December 2020: Borrelli E. *“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. *“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. *“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. *“The choroid in AMD”*. Presented at the 19th Euretina Congress, Paris, France.

September 2019: Borrelli E. *“Choroid and diabetes”*. Presented at the 19th Euretina Congress, Paris, France.

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

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

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

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

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March 2018: Borrelli E, Mastropasqua R, Senatore A, Palmieri M, Toto L, Sadda SR, Mastropasqua L; *“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. *“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. *“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. *“OCTA in intermediate AMD”*. Oral presentation at the 5th International OCT Angiography and “En Face” OCT Congress, Rome, Italy.

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September 2017: Borrelli E. *“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. “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. “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. “Ocular vascular features in mitochondrial optic neuropathies”. Poster presentation at the 40th Annual Meeting of the North American Neuro-Ophthalmology Society, Puerto Rico.

OTHER TEACHING AND SCIENTIFIC ACTIVITIES

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

Editorial Board Member for Eye (Retina section).

Associate Editor for *Therapeutic Advances in Ophthalmology*.

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

Editorial Assistant for *European Journal of Ophthalmology*.

Editorial Assistant for *Canadian Journal of Ophthalmology*.

Reviewer for *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.

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

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

INVENTIONS/PATENT

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

Award: "2022 Ophthalmologica Award & Keynote Lecture" at Euretina meeting 2022, Hamburg.

Award: "Young Ophthalmologist's Medal" from the PAX EYE CENTER (Switzerland).

Grant (US \$ 30,000): GOAP (Global Ophthalmology Awards Program) Research Award for the project entitled "Surviving diabetes without complications: A patient-driven approach" (Principal Investigator).

Grant (US \$ 750): 1st prize best poster/paper presentation Doheny Eye Institute - UCLA at ARVO 2017, Baltimore, USA

Grant (US \$ 750): Retina Research Foundation/Joseph M. and Eula C. Lawrence Travel Grant at ARVO 2017, Baltimore, USA.

Award: "Favaloro" – at SOM meeting 2016, Bari, Italy.

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>

LANGUAGES

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

PERSONAL INTERESTS

Tennis, Soccer, Travels.