

# Giulio Ferrari MD, PhD

DoB: 03/16/1980

Email:

Ph:

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## Position

**Physician Scientist - Group Leader, S**  
Unit; Eye Repair Lab

, Cornea and Ocular Surface

## Education

University: **Parma, Italy, PhD diploma, Biology and Molecular Pathology**  
Date: 2012-2015

University: **Harvard Medical School, Harvard Clinical and Translational Science Center**  
Introduction to Clinical Investigation Training Course  
Date: October 2010

University: **Harvard Medical School, Schepens Eye Research Institute, and Massachusetts Eye and Ear Infirmiry: Cornea Clinical - Research fellowship**  
Date: Jan 2009-July 2010

University: **Parma, Italy, 50/50 cum laude Diploma in Ophthalmology**  
Date: 2004-2008

University: **UCL Institute of Ophthalmology, London**  
Hon. Research Fellow  
Date: June 2006 - June 2009

University: **Harvard University, Schepens Eye Institute, Boston**  
Michael Young lab (visiting student)  
Date: July-August 2005

University: **Parma, Italy, Medical school**  
Degree (grade): MD 110/110 cum laude  
Date: 1998-2004

## Clinical Skills

- Oculoplastic fellowship, Corneo-plastic Unit. Queen Victoria Hospital, East Grinstead, UK, Jan-March 2015.
- Cataract surgery fellowship: Mahatme Eye Hospital, Maharashtra, India, August-September 2010
- Massachusetts Eye and Ear Infirmiry, Cornea Service, Harvard Medical School, Boston: Cornea Fellowship: January 2009-July 2010
- Ophthalmology Dept. San Raffaele University, Milan: internship April 2008-December 2008

- Ophthalmology Dept. University of Parma: cum laude: residency November 2004-November 2008
- Medical licensing examination (Italy): October 2004-February 2005

## **Awards**

- ARVO travel grant, 2007
- Selected biography for the 2011-2012 Marquis Edition of Who's Who in Medicine and Healthcare
- Italian Society of Ophthalmology: scientific award; 2<sup>nd</sup> classified, 2011
- TFOS (Tear Film and Ocular Surface) travel grant, 2013
- "Exceptionally good review" acknowledgment, IOVS, 2013
- Finalist StartCUP Milano Lombardia "Life Science" section, Oct. 2013
- International Society for Eye Research (ISER) travel fellowship, July 2014
- SIR grant (Scientific Independence for Young Researcher), life science section: scored "ottimo", March 2015.
- ARVO Foundation/Merck Innovative Ophthalmology Research Award in the Ocular Surface category, First Place Prize, 2015
- Point Guard Bioscience Innovation in Ophthalmology Award 2016

## **Research Funding**

- Bietti Eye Foundation Research Fellowship (2009-2012)
- Dompè Pharmaceuticals - Project grant (2012)
- Italian Society of Ophthalmology: scientific award: 1<sup>st</sup> classified (2012)
- Italian Ministry of Health - Young Investigator Grant (2012)
- Italian Ministry of Health - Young Investigator Grant (2014)
- Progetto Professionalita' Grant (2014)
- Theà Pharmaceuticals - Project grant (2014-no deadline)

## **Patents**

International patent application: PCT/EP2012/063067

## **Editorial activity**

- Ad-hoc reviewer for: Journal of Clinical Investigation, British Journal of Ophthalmology, the American Journal of Ophthalmology, Cornea, IOVS, Experimental Eye Research, Acta Ophthalmologica, Clinical and Experimental Immunology, Microvascular Research, Ophthalmology and Eye Diseases, Clinical Ophthalmology, Eye and Brain, Immunopharmacology, Journal of Ocular Pharmacology and Therapeutics, Ophthalmology@Point of Care
- Medefield Healthcare Advisory Board Member

## **Grant review**

Reviewer for the Medical Research Council, UK, Molecular and Cellular Medicine Board (2014-present)

## **Languages**

Italian: (native); English: advanced (IELTS 2015 score: 8); German: good, Chinese: elementary (2013-2014)

## Professional certifications

- Certified to practice medicine and ophthalmology in Italy and Europe
- Professional certification in the USA:  
**ECFMG (Educational Commission of Foreign Medical Graduates) certification obtained (USMLE step 1, 2CK, 2CS).**
- Member of: American Academy of Ophthalmology, Association for Research in Vision and Ophthalmology, Member of the ARVO Animals in Research Committee, Tear Film and Ocular Surface, Società Oftalmologica Italiana.
- Foreign elected member of the American Academy of Ophthalmology, 2013-present

## Peer Reviewed Journal Publications

1. Guo L, Salt TE, Luong V, Wood N, Cheung W, Maass A, **Ferrari G**, Russo-Marie F, Sillito AM, Cheetham ME, Moss SE, Fitzke FW, Cordeiro MF. Targeting amyloid-beta in glaucoma treatment. *Proc Natl Acad Sci USA* 2007 Aug 14;104 (33):13444-9. [IF: 9.598]
2. Nicoli S, **Ferrari G**, Quarta M, Macaluso C, Govoni P, Dallatana D, Santi P. Porcine sclera as a model of human sclera for in vitro transport experiments: histology, SEM, and comparative permeability. *Mol Vis*. 2009;15:259-66. [IF: 2.541]
3. Nicoli S, **Ferrari G**, Quarta M, Macaluso C, Santi P. In vitro transscleral iontophoresis of high molecular weight neutral compounds. *Eur J Pharm Sci*. 2009 Mar 2;36(4-5):486-92. [IF: 2.608]
4. **Ferrari G**, Salvatore Tedesco, Elisabetta Delfini, Claudio Macaluso. Laser Scanning In Vivo Confocal Microscopy in a Case of Terrien's Marginal Degeneration. *Cornea*. 2010 Apr;29(4):471-5. [IF: 1.762]
5. **Ferrari G**, Gemignani F, Macaluso C. Chemotherapy associated peripheral sensory neuropathy assessed using in vivo corneal confocal microscopy. *Arch Neurol*. 2010 Mar;67(3):364-5. [IF: 7.108]
6. Gemignani F, **Ferrari G**, Vitetta F, Giovanelli M, Macaluso C, Marbini A. Non length dependent small fibre neuropathy. Confocal microscopy study of the corneal innervation. *J Neurol Neurosurg Psychiatry*. 2010 Jul;81(7):731-3. [IF: 4.791]
7. Pescina S, **Ferrari G**, Govoni P, Macaluso C, Padula C, Santi P, Nicoli S. In-vitro permeation of bevacizumab through human sclera: effect of iontophoresis application. *Journal of Pharmacy Pharmacol*. 2010;62(9):1189-94 [IF: 1.918]
8. **Ferrari G**, Chauhan S, Ueno H, Nallasamy N, Gandolfi S, Borges L, Dana R. A Novel Mouse Model for Neurotrophic Keratopathy: Trigeminal Nerve Stereotactic Electrolysis through the Brain. *Investigative Ophthalmology and Visual Science* 2011;52(5):2532-9. [IF: 3.597]
9. Pescina S, Santi P, **Ferrari G**, Nicoli S. Trans-scleral delivery of macromolecules. *Therapeutic Delivery*, 2011; 2(10):1331-49. [IF: n/a]

10. **Ferrari G**, Matuska S, Rama P. Double-biguanide therapy for resistant *Acanthamoeba* keratitis. *Case Rep Ophthalmol*, 2011;2:338-42. [IF: 0.23]
11. Ueno H, **Ferrari G**, Chauhan S, Saban D, Takaaki H, Dana R. Dependence of Corneal Stem/Progenitor Cells on Ocular Surface Innervation. Dependence of corneal stem/progenitor cells on ocular surface innervation. *Invest Ophthalmol Vis Sci*. 2012 Feb 21;53(2):867-72. [IF: 3.441]
12. Stevenson W, Cheng SF, Dastjerdi MH, **Ferrari G**, Dana R. Corneal neovascularization and the utility of topical VEGF inhibition: ranibizumab (Lucentis) vs. bevacizumab (Avastin). *Ocul Surf*. 2012 Apr;10(2):67-83. [IF: 2.643]
13. Pescina S, Santi P, **Ferrari G**, Padula C, Cavallini P, Govoni P, Nicoli S. Ex vivo models to evaluate the role of ocular melanin in trans-scleral drug delivery. *European J of Pharm Sci*. 2012 46 (5):475-83[IF: 2.987]
14. Cheng SF, Dastjerdi M, **Ferrari G**, Okanobo A, Bower KS, Ryan DS, Amparo F, Stevenson W, Hamrah P, Nallasamy N, and Dana R. Short-Term Topical Bevacizumab in the Treatment of Stable Corneal Neovascularization. *Am J Ophthalmol*. 2012 Dec;154(6):940-948 [IF: 3.631]
15. **Ferrari G**, Reichegger V, Ludernani L, Delfini E, Macaluso C In vivo evaluation of DSAEK interface with scanning-laser confocal microscopy. *BMC Ophthalmol*. 2012 Aug 1;12(1):32. [IF: 1.444]
16. **Ferrari G**; Ueno H; Bignami F; Rama P; Dana R. Trigeminal stereotactic electrolysis induces dry eye in mice. *Acta Ophthalmol*. 2012 Sep 23. [IF: 2.345]
17. **Ferrari G**, Dastjerdi MH, Okanobo A, Cheng SF, Amparo F, Nallasamy N, Dana R. Topical Ranibizumab as a Treatment of Corneal Neovascularization. *Cornea*. 2013 Jul;32(7):992-7. [IF: 2.360]
18. **Ferrari G**, Hajrasouliha AR, Sadrai ZP, Ueno H, Chauhan SK, Dana R. Nerves and Neovessels Inhibit Each Other in the Cornea. *Invest Ophthalmol Vis Sci*. 2013 Jan 28;54(1):813-20 [IF: 3.661]
19. **Ferrari G**, Bignami F, Giacomini C, Franchini S, Rama P. Safety and Efficacy of Topical Infliximab in a Mouse Model of Ocular Surface Scarring. *Invest Ophthalmol Vis Sci*. 2013 Mar 1;54(3):1680-8. [IF: 3.661]
20. **Ferrari G**, Iuliano L, Viganò M, Rama P. Impending corneal perforation after collagen cross-linking for herpetic keratitis. *J Cataract Refract Surg*. 2013 Apr;39(4):638-41. [IF: 2.552]

21. Amparo F, Dastjerdi MH, Okanobo A, **Ferrari G**, Smaga L, Hamrah P, Jurkunas U, Schaumberg DA, Dana R. Topical Interleukin 1 Receptor Antagonist for Treatment of Dry Eye Disease: A Randomized Clinical Trial. *JAMA Ophthalmol.* 2013 Apr 18;1-9. [IF: 3.318]
22. **Ferrari G**, Viganó M. Images in clinical medicine. Bitot's spot in vitamin A deficiency. *N Engl J Med.* 2013 May 30;368(22):e29. [IF: 54.420]
23. Cheng SF, Dastjerdi MH, **Ferrari G**, Okanobo A, Amparo F, Stevenson W, Hamrah P, Nallasamy N, Dana R, Bower KS, Ryan DS. Reply (Short-Term Topical Bevacizumab in the Treatment of Stable Corneal Neovascularization). *Am J Ophthalmol.* 2013 Jul;156(1):204-5. [IF: 4.021]
24. **Ferrari G**, Nalassamy N, Downs H, Dana R, Oaklander AL. Corneal innervation as a window to peripheral neuropathies. *Exp Eye Res.* 2013 Aug;113:148-50. [IF: 3.017]
25. **Ferrari G**, Iuliano L, Viganò M, Rama P. Reply: Corneal collagen crosslinking and herpetic keratitis. *J Cataract Refract Surg.* 2013 Aug;39(8):1281. [IF: 2.552]
26. Triolo G, **Ferrari G**, Doglioni C, Rama P. In vivo confocal microscopy in Goldenhar Syndrome: a case report. *BMC Ophthalmol.* 2013 Oct 16;13(1):55. [IF: 1.075]
27. **Ferrari G**, Paganoni G, Rama P. *In vivo* corneal confocal microscopy and endothelial surgery. *EMJ Ophth.* 2013;1:23-26. [IF: n/a]
28. Giacomini C, **Ferrari G**, Bignami F, Rama P. Alkali burn versus suture-induced corneal neovascularization in C57BL/6 mice: An overview of two common animal models of corneal neovascularization. *Exp Eye Res.* 2014 Apr;121:1-4. [IF: 2.709]
29. **Ferrari G**, Bignami F, Giacomini C, Capitolo E, Comi G, Chaabane L, Rama P. Ocular surface injury induces inflammation in the brain: in vivo and ex vivo evidence of a corneal-trigeminal axis. *Invest Ophthalmol Vis Sci.* 2014 Aug 21;55(10):6289-300. [IF: 3.404]
30. Bignami F, Giacomini C, Lorusso A, Aramini A, Rama P, **Ferrari G**. NK1 Receptor Antagonists as a New Treatment for Corneal Neovascularization. *Invest Ophthalmol Vis Sci.* 2014 Sep 16;55(10):6783-94. [IF: 3.404]
31. **Ferrari G**, Grisan E, Scarpa F, Fazio R, Comola M, Quattrini A, Comi G, Rama P, Riva N, Corneal confocal microscopy reveals trigeminal small sensory fiber neuropathy in Amyotrophic Lateral Sclerosis. *Front Aging Neurosci.* 2014 Oct 16;6:278. [IF: 4.000]
32. **Ferrari G**, Bignami F, Rama P. TNF-alpha Inhibitors as a Treatment for Corneal Hemangiogenesis and Lymphangiogenesis. *Eye Contact Lens.* 2015 Mar;41(2):72-6. [IF: (2014) 1.466]

33. Bignami F, Rama P, **Ferrari G**. Substance P and its inhibition in ocular inflammation. *Curr Drug Targets*. 2015 Oct 18. [Epub ahead of print]. [IF (2014): 3.021]
34. Rabiolo A, Bignami F, Rama P, **Ferrari G**. Quantifying ocular surface inflammation and correlating it with inflammatory cell infiltration in vivo: a novel method. *Invest Ophthalmol Vis Sci*. 2015 Nov;56(12):7067-75. [IF (2014): 3.404]
35. Rabiolo A, Bignami F, Rama P, **Ferrari G**. VesselJ: A New Tool for Semiautomatic Measurement of Corneal Neovascularization. *Invest Ophthalmol Vis Sci*. 2015 Dec 1;56(13):8199-206. [IF (2014): 3.404]
36. **Ferrari G**, Giacomini C, Bignami F, Moi D, Ranghetti A, Doglioni C, Naldini L, Rama P, Mazzieri R. Angiopoietin 2 expression in the cornea and its control of corneal neovascularisation. *Br J Ophthalmol*. 2016 May 4. [IF (2016): 3.036]
37. Bignami F, Lorusso A, Rama P, **Ferrari G**. Growth inhibition of formed corneal neovascularization following Fosaprepitant treatment. *Acta Ophthalmologica*, 2016, *in press*. [IF (2014): 3.032]

### Peer-Reviewed Abstracts

1. Gandolfi S.A, Aldigeri R, Bonomini S, **Ferrari G**, Sangermani C, Tardini M. Comparison of CD4+CD25+ (Regulatory) T Cell Levels in Patients Affected by Primary Open-Angle Glaucoma and Healthy Subjects (ARVO 2006, poster session).
2. Macaluso C, **Ferrari G**, Control of posterior lamellar donor button adherence in DSAEK surgery. (2006 Joint Meeting with the Asia Pacific Academy of Ophthalmology, Las Vegas, Nov. 2006).
3. Gandolfi S.A, Bacchi G, **Ferrari G**, Sangermani C, Tardini M, Ungaro N. Corneal Endothelial Cell Density in Open Angle Glaucoma. ARVO poster, Miami 2007.
4. **Ferrari G**, Guo L, Wood N, Cheung W, Bex P, Gandolfi S, Cordeiro M. Do Intravitreal Injections Induce Retinal Damage? ARVO poster (**SILO Travel Grant Award**), Miami 2007.
5. Guo L, Salt T.E, Luong V, **Ferrari G**, Cheung W, Wood N, Russo-Marie F, Cheetham M.E, Moss S.E, Cordeiro M.F. Targeting Alzheimer protein beta amyloid for treatment in glaucoma. ARVO poster, Miami 2007.
6. Nicoli S, Quarta M, **Ferrari G**, Santi P. Characterization of human sclera in view of transscleral iontophoresis: determination of the isoelectric point. AAPS (American association of pharmaceutical scientists) paper; San Diego, 2007.
7. Sara Nicoli, **Giulio Ferrari**, Marinella Quarta, Claudio Macaluso, Patrizia Santi. Trans-scleral permeation of bevacizumab: effect of iontophoresis application. AAPS, Atlanta 2008.

8. Nicoli S, **Ferrari G**, Quarta M, Macaluso C, Govoni P, Dallatana D, Santi P. Characterization of human and porcine sclera as in vitro models for transscleral drug delivery. Proceed. Intern. Symp. Control. Rel. Biact. Mater., New York 12-16 July, 2008.
9. **Ferrari G**, Nicoli S, Quarta M, Govoni P, Macaluso C, Santi P. In Vitro Passive and Iontophoretic Permeation of Insulin through Human Sclera. ARVO poster, Miami 2008.
10. Macaluso C, Ruzza A, Ponzin D, **Ferrari G**. Evaluation of a novel device for graft insertion in endothelial keratoplasty. ARVO poster, Miami 2008.
11. Nicoli S, **Ferrari G**, Pescina S, Macaluso C, Santi P. Trans-scleral permeation of bevacizumab: effect of iontophoresis application. (ARVO paper presentation, Miami 2009).
12. Santi P, Pescina S, **Ferrari G**, Macaluso C, Nicoli S. Transscleral iontophoresis of a high molecular weight neutral compound: factors affecting the electroosmotic flow. AAPS, 2009.
13. **Ferrari G**, Gemignani F, Vitetta F, Macaluso C. In vivo confocal laser microscopy of Charcot Marie Tooth 1A patients. (ARVO poster, Miami 2009).
14. Macaluso C, Delfini E, Reichegger V, Luderghani L, **Ferrari G**. In Vivo Corneal Confocal Evaluation of Graft Interface in Descemet Stripping Automated Endothelial Keratoplasty. (ARVO poster, Miami 2009).
15. **Ferrari G**, Okanobo A, Dastjerdi M, Nallassamy N, Dana R. Topical Bevacizumab versus Ranibizumab in the treatment of corneal neovascularization. Paper abstract, Resident & Fellow session; Cornea Society 2009, S. Francisco.
16. Okanobo A, Dastjerdi M, **Ferrari G**, Boynerian A, Chauhan S, Dana R. Topical IL-1 Receptor antagonist for the treatment of dry eye disease. Paper abstract; Cornea Society 2009, S. Francisco.
17. **Ferrari G**, Borges L, Chauhan S, Ueno H, Dana R. A novel model to study nerve-corneal cell interactions: why does cornea need nerves? Poster session, Gordon Cornea Research Conference, Ventura, California, March 2010.
18. **G. Ferrari**, L. Borges, S. Chauhan, R. Dana. Increased Apoptosis in a Novel Murine Model of Neurotrophic Keratopathy Using Central (Brain) Electrocoagulation of the Trigeminal Nerve. ARVO paper session, 2010.
19. H. Ueno, **G. Ferrari**, T. Hattori, T. Funaki, D. Saban, S. Chauhan, R. Dana. Nerve Degeneration Is Associated With Stem Cell Environment. ARVO poster session, 2010.
20. Neri A, C. Macaluso, P. Scaroni, R. Leaci, E. Spaggiari, **G. Ferrari**. Protected Lamellar Corneal Patching of an Unsutured Full-Thickness Graft for Paracentral Corneal Perforations. ARVO poster session, 2010.
21. **G. Ferrari**. DSAEK Interface Evaluation with Scanning-Laser Confocal Microscopy. EuCornea conference, Venice 2010 paper session.

22. **G. Ferrari**. Trigeminal stereotactic electrolysis: a novel model of murine neurotrophic keratopathy. EuCornea conference, Venice 2010 **paper** session.
23. Neri A, R. Leaci, P. Scaroni, E. Delfini, E. Spaggiari, **G. Ferrari**, C. Macaluso. Repair of a Paracentral Corneal Perforation by Temporary Lamellar Corneal Patching of an Unsutured Full-Thickness Graft. EuCornea conference, Venice 2010 **paper** session.
24. Sheng-Fu Cheng; **Giulio Ferrari**; Andre Okanobo; Mohammad H. Dastjerdi; Debra A. Schaumberg, Kraig S. Bower, MD; Denise S. Ryan; Francisco Amparo; Nambi Nallasamy; Reza Dana. Earlier Enhanced Efficacy of Topical Ranibizumab Compared to Bevacizumab in the Treatment of Corneal Neovascularization (NV). Military Vision Symposium, Boston, Sept. 2010.
25. **Ferrari G**, Gemignani F, Vitetta F, Rama P. *In vivo* laser scanning corneal confocal microscopy to study Charcot Marie Tooth 1A patients and other peripheral neuropathies. San Raffaele Scientific Retreat, Stresa, February, 2011.
26. **Ferrari G**, Nallasamy N, Downs H, Dana R, Oaklander AL. Corneal Nerve Imaging As A Biomarker For Paclitaxel-induced Peripheral Neuropathy. ARVO poster session, 2011.
27. Pescina S, Santi P, **Ferrari G**, Nicoli S. In-vitro Model To Study The Role Of Melanin In Transscleral Drug Delivery. ARVO poster session, 2011.
28. Ueno H, **Ferrari G**, Hattori T, Ueno S, Chauhan S, Dana R. Evaluation of Corneal Progenitor Cells in a Murine Model of Neurotrophic Keratopathy . ARVO poster session, 2011.
29. Cheng SF, **Ferrari G**, Okanobo A, Dastjerdi MH, Bower KS, Amparo F, Ryan DS, Dana R. Sustained Efficacy of Topical Bevacizumab in the Treatment of Corneal Neovascularization (NV). ARVO poster session, 2011.
30. Hajrasouliha AR, **Ferrari G**, Ueno H, Sadrai Z, Rama P, Dana R. Reciprocal Inhibition of Nerves and Neovessels in the Cornea. ARVO poster session, 2011. **Selected for e-poster display.**
31. **Ferrari G**. Epithelial stem cells-nerve interactions in the cornea. Associazione Italiana Medici Oculisti, **paper** presentation.
32. **Ferrari G**, Matuska S, Rama P. Cheratite da Herpes simplex keratitis following cultivated corneal autologous stem cell transplantation. Societa' Oftalmologica Italiana (SOI) **paper** presentation.
33. Shikari H, Amparo F, Dastjerdi M, Okanobo A, **Ferrari G**, Dana R. Effect Of Topical IL-1RA On Signs And Symptoms Of Dry Eye Disease In Patients With Ocular Graft-versus-host Disease (GVHD). ARVO poster, 2012
34. **Ferrari G**, Rama P. Trigeminal Stereotactic Electrolysis Induces Dry Eye In Mice, ARVO poster, 2012.



35. Bignami F, **Ferrari G**, Giacomini C, Franchini S, Rama P. Topical Application Of Infliximab (Remicade®) In The Treatment Of Corneal Caustication, ARVO poster, 2012.
36. Tie2-gfp Transgenic Mouse As A New Model To Study Corneal Neovascularization. Chiara Giacomini, **Giulio Ferrari**, Fabio Bignami, Roberta Mazzieri, Davide Moi, Paolo Rama. ARVO poster, 2012.
37. **Ferrari G**, Bignami F, Giacomini C, Rama P. Topical Infliximab as an inhibitor of corneal hemangiogenesis and lymphangiogenesis. ARVO poster, 2013.
38. Bignami F, **Ferrari G**, Giacomini C, Capitolo E, Chaabane L, Rama P. Corneal alkali burn induces inflammatory changes in the central nervous system. ARVO poster, 2013.
39. Chaabane L, Bignami F, Giacomini C, Capitolo E, Rama P, **Ferrari G**. In vivo evidence of corneal inflammation by MRI in alkali burn model, ESMRMB conference, Toulouse 2013.
40. Bignami F, **Ferrari G**, Giacomini C, Capitolo E, Chaabane L, Rama P. *In vivo* high resolution MRI study in a cornea alkali burn model. **Paper** presentation, TFOS, 2013.
41. Substance P and its inhibition in corneal neovascularization. **Ferrari G**, Bignami F, Giacomini C, Rama P. Poster presentation, TFOS 2013.
42. Effects of prolonged use of Oxybuprocaine 0.4% eye drops on normal murine cornea. Giacomini C, **Ferrari G**, Bignami F, Rama P. Poster presentation, TFOS, 2013.
43. Alkali versus suture-induced corneal neovascularization: an overview of two common animal models of corneal neovascularization. Giacomini C, **Ferrari G**, Bignami F, Rama P. ARVO 2014. **Paper** presentation, ARVO 2014, (**Bietti Travel grant winner**).
44. Trigeminal ganglion inflammation following corneal injury. Bignami F, **Ferrari G**, Giacomini C, Rama P. **Paper** presentation, ARVO 2014, (**Bietti travel grant winner**).
45. Substance P expression and its inhibition in corneal neovascularization. **Ferrari G**, Bignami F, Giacomini C, Rama P. Poster presentation, ARVO 2014.
46. Corneal angiogenesis, sensitivity, and visual acuity: a retrospective study. **Ferrari G**, Triolo G, Bignami F, Paganoni G, Rama P. Poster presentation, ARVO 2015.
47. VesselJ: a new tool for automatic measurement of corneal neovascularization ex-vivo. Rabiolo A, Bignami F, Giacomini C, LoRusso A, **Ferrari G**, Rama P. Paper presentation, ARVO 2015.
48. Corneal neovascularization and its potential biomarkers in human tears. Bignami F, Rabiolo A, Giacomini C, **Ferrari G**, Rama P. ARVO poster, 2015.
49. Macrophages, Angiopoietin 2, and Corneal Neovascularization: Translational Implications. **Ferrari G**, Giacomini C, Bignami F, Moi D, Raghetti A, Doglioni C, Naldini L, Paolo Rama P, and Mazzieri R, ARVO poster, 2016.
50. Bignami F, Lorusso A, Rama P, **Ferrari G**. Topical Fosaprepitant treatment in established corneal neovascularization. ARVO poster, 2016

## **Book chapters**

Schaumberg DA, **Ferrari G**. Dry eye disease. In: Johnson GJ, Minassian DC, Weale RA, West SK, Eds. The Epidemiology of Eye Diseases, 3rd edition. London: A Hodder Arnold Publication; 2010.

## **Other publications**

Rabiolo A, Rama P, **Ferrari G**. Neurotrophic Keratitis. Original article. Eyewiki:  
[http://eyewiki.org/NEUROTROPHIC\\_KERATITIS](http://eyewiki.org/NEUROTROPHIC_KERATITIS)

## **Teaching and Educational activity**

Thesis supervisor, Biotechnology MSc degree

Supervisor to 2 post-docs, 3 graduate students, ophthalmology residents.

## **Scientific meetings attended**

- ARVO: 2006, 2007 (**SILO travel grant winner**), 2008, 2009, 2010 (**speaker**), 2011 (**session moderator**), 2012, 2013, 2014 (**Animals in research committee member**), 2015 (Animal in research committee member, **Session moderator**), 2016 (Animal in research committee member).
- Il trapianto lamellare anteriore e di endotelio corneale con microcheratomo. Parma, 3-11-2006
- Cheratoplastica endoteliale con tecnica DSAEK: il punto della situazione. Forlì 20-10-2007
- Biennial Cornea Congress, Boston 2009
- Cornea Society 2009
- American Academy of Ophthalmology 2009 (**speaker**)
- Gordon Cornea Research Conference, March 2010 (**speaker**)
- World Cornea Congress, Boston, April 2010
- ASCRS, Boston, April 2010
- Clinical Course “L’evoluzione della chirurgia del trapianto di cornea” (**speaker**), Parma, March 2010
- Eucornea conference, Venice 2010, Italy (**speaker**)
- International Agency for the Prevention of Blindness, Rome, December 2010 (**invited speaker**)
- Associazione Italiana Medici in Oculistica (**speaker**), Sept 2011
- Societa’ Oftalmologica Italiana November 2011(**speaker**), 2012 (**speaker**), 2013 (**speaker**), 2014 (**speaker**).
- ISER, Berlin, (International Society for Eye Research, ISER (**invited speaker**) Young Investigator Symposium), July 2012
- EuRetina, (**invited speaker**), Rome, February 2013
- TFOS meeting, Taormina, Italy, September 2013 (**session moderator**)
- Societa’ Italiana Uveiti e Malattie Infiammatorie Oculari, Parma, March 2014 (**invited speaker**).
- SITRAC (Societa’ Italiana Trapianto di Cornea). Imaging techniques in corneal infections, Milan, June 2014, (**invited speaker**).
- SICCSO. Aniridia: making the cornea clear, Paestum, Italy, June 2014, (**invited speaker**)

- International Society for Eye Research (ISER), San Francisco, July 2014 (**invited speaker**)
- European Association for Research and Vision (EVER) conference , Nice, October 2015 (**invited speaker**)

*Epik Juri 28/11/2016*