

# Leandro Inferrera



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## Education and training

- 2023 **Qualification as Associate Professor in Ophthalmology**  
**Italian Ministry of Education**  
Italy
- 2020 - 2024 **PhD in Translation Molecular Medicine and Surgery**  
**University of Messina, Messina, Italy**  
Thesis: "OCT-based deep-learning models for the identification of retinal key signs"  
Advisor: Prof. Pasquale Aragona
- 2016 - 2020 **Residence School in Ophthalmology**  
**University of Messina, Messina, Italy, with a score of 50/50 and honor**  
Thesis: "Clinical and Instrumental Evaluation of the Efficacy of rh-NGF in Moderate to Severe Neurotrophic Keratitis"  
Advisor: Prof. Pasquale Aragona
- 2011 - 2015 **Master Degree in Medicine and Surgery**  
**University Hospital G. Martino, Messina, Italy. Graduated with highest honors: 110/110**  
Thesis: "Role of the A2A Receptor in the Treatment of Glucocorticoid-Induced Osteoporosis"  
Advisor: Prof. Francesco Squadrito
- 2006 - 2010 **BSc in Biotechnology**  
**University of Messina, Messina, Italy. Graduated with highest honor: 110/110**  
Thesis: "Inflammatory Profile of a New Nutraceutical: Flavocoxid"  
Advisor: Prof. Francesco Squadrito

## Work experience

- 2022 - present **Research Fellow in Ophthalmology**  
**University of Trieste, Trieste, Italy. Department of Ophthalmology**  
Project title: "Addressing screening for retinal diseases: development of a deep learning model capable of identifying retinal pathologies on images coming from an acquisition system OCT"  
Advisor: Prof. Daniele Tognetto
- 2022 - present **Teaching experience as Research Fellow in Ophthalmology**  
**University of Trieste, Trieste, Italy. Department of Ophthalmology**  
- Medical School in Medicine and Surgery  
- Residence School in Ophthalmology

- 2022 - present | **Medical Doctor in Ophthalmology**  
**University of Trieste, Trieste, Italy. Department of Ophthalmology**  
Advisor: Prof. Daniele Tognetto
- 2019 | **Primary surgeon**  
**University of Messina, Messina, Italy**  
Eye Research Centre & Dr. Agarwal's Eye Hospital, Chennai, India.  
Advisor: Dr. Amar Agarwal
- 2010 | **Biotechnologist Fellow**  
**University of Turin, Turin, Italy. Department of Industrial Biotechnologies, Department of Mathematical, Physical, and Natural Sciences.**

## Oral presentation

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- 2016 - present | **Guest speaker in national and international congress**  
ESCRS, Floretina ICOOR, GIVRE and others

## Skill

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### Ophthalmology

- Conducting thorough eye exams to assess and diagnose various ocular conditions.
- Proficient in using advanced diagnostic tools such as OCT, corneal tomography, corneal confocal microscopy, fundus photography, and slit-lamp biomicroscopy.
- Effective in managing patients with chronic eye conditions such as glaucoma and macular degeneration.

### Teaching

- Designed and implemented educational programs for medical students and residents.
- Delivered engaging lectures on medical and ophthalmological topics.
- Provided guidance and support to students, interns, and junior doctors.
- Skilled in hands-on teaching and clinical supervision.
- Utilized online platforms to enhance teaching and learning.
- Successfully mentored students through thesis projects, from proposal to final defence.

### Management and leadership

- Proven ability to lead and motivate a diverse team of healthcare professionals.
- Experienced in planning, executing, and overseeing medical projects and initiatives.
- Competent in managing budgets and resources efficiently.
- Effective in resolving conflicts and fostering a collaborative work environment.
- Excellent verbal and written communication skills, essential for effective leadership.

## Publications

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**Neurosymbolic AI Approach for Dry and Wet AMD Classification Using OCT Images**  
Miladinović A., ..., Inferrera L.<sup>2</sup>, IFMBE Proceedings, Springer, 2025, doi: 10.1007/978-3-031-96538-8\_10

**Nutrient-Driven Antioxidant Interventions for Prevention of Age-Related and Diabetic Cataracts.**

Giglio R. et al., *Nutrients*. 2025, doi: 10.3390/nu17111885.

**The efficacy of a netilmicin/dexamethasone gel combination in the treatment of posterior blepharitis in moderate-severe dry eye patients.**

Oliverio G.W., Inferreral L. et al, *Eur J Ophthalmol*. 2025, doi: 10.1177/11206721241293175.

**Immediate sequential bilateral cataract surgery: Prevalence, attitudes and concerns Among Italian ophthalmologists.**

Tavolato M. et al., *Eur J Ophthalmol*. 2025, doi: 10.1177/11206721241272156.

Corresponding author: Inferrera L.

**Six Cases of Polypoidal Choroidal Vasculopathy in Eyes with Choroidal Nevi**

Gaggino A., Inferrera L. et al., *Case Rep Ophthalmol*. 2025, doi: 10.1159/000543643

Corresponding author: Inferrera L.

**External limiting membrane aperture as a reliable and predictive prognostic factor in macular hole surgery**

Guerin G.M. et al., *Eur J Ophthal*. 2025, doi: 10.1177/112067212513341

**Evaluating deep learning models for classifying OCT images with limited data and noisy labels  
A. Miladinović**

Miladinović A., ..., Inferrera L.<sup>2</sup>, *Sci Rep* 2024, doi: 10.1038/s41598-024-81127-1

**Long-term outcomes of canaloplasty and phaco-canaloplasty in the treatment of open angle glaucoma: a single-surgeon experience**

Tognetto D. et al., *Int Ophthalmol*. 2024 doi: 10.1007/s10792-024-03174-x

**Extensive Contact Lens Wear Modulates Expression of miRNA-320 and miRNA-423-5p in the Human Corneal Epithelium: Possible Biomarkers of Corneal Health and Environmental Impact.**

Roszkowska A.M. et al. *Genes*. 2024; 15(6):816. <https://doi.org/10.3390/genes15060816>

**Phacoemulsification Wound Burn and Its Management.**

Giglio R. et al., *Case Rep Ophthalmol*. 2024, doi: 10.1159/000537741.

**OCT-based deep-learning models for the identification of retinal key signs.**

Inferrera L.<sup>1</sup> et al., *Sci Rep*. 2023, doi: 10.1038/s41598-023-41362-4.

Corresponding author: Inferrera L.

**Corneal epithelial changes in a patient treated with belantamab mafodotin.**

Inferrera L.<sup>1</sup> et al., *Taiwan Journal of Ophthalmology* 2023., doi: 10.4103/tjo.TJO-D-22-00171

Corresponding author: Inferrera L.

**Risdiplam in Patients Previously Treated with Other Therapies for Spinal Muscular Atrophy: An Interim Analysis from the JEWELFISH Study.**

Chiriboga et al., *Neurol Ther* 2023, <https://doi.org/10.1007/s40120-023-00444-1>

**One-Year Results of Photorefractive Keratectomy for Myopia and Compound Myopic Astigmatism with 210 nm Wavelength All Solid-State Laser for Refractive Surgery.**

Roszkowska A.M., et al., *J Clin Med*. 2023, doi: 10.3390/jcm12134311.

**Corneal Sub-Basal Nerve Plexus in Non-Diabetic Small Fiber Polyneuropathies and the Diagnostic Role of In Vivo Corneal Confocal Microscopy.**

Roszkowska A.M. et al. *J Clin Med*. 2023, doi: 10.3390/jcm12020664.

**Clinical Efficacy, Tolerability and Safety of a New Multiple-Action Eyedrop in Subjects with Moderate to Severe Dry Eye.**

Roszkowska A.M. et al. J Clin Med. 2022 Nov 26;11(23):6975. doi: 10.3390/jcm11236975.

**Clinical and instrumental assessment of the corneal healing in moderate and severe neurotrophic keratopathy treated with rh-NGF (Cenegermin).**

Roszkowska A.M. et al. Eur J Ophthalmol. 2022 Nov;32(6):3402-3410. doi: 10.1177/11206721221097584.

**Spontaneous Dural Carotid-Cavernous Fistula Treated with Microcoil Insertion.**

Meduri A. et al. Applied Sciences. 2022; 12(19):10103. <https://doi.org/10.3390/app121910103>

**Changes in Anterior Segment Morphology and Intraocular Pressure after Cataract Surgery in Non-glaucomatous Eyes.**

Giglio R. et al. Klin Monbl Augenheilkd. 2023 Apr;240(4):449-455. English. doi: 10.1055/a-2013-2374.

**Bilateral Implantation of Multifocal Intraocular Lenses: 10-Year Follow-Up.**

Giglio R. et al. Klin Monbl Augenheilkd. 2023 Apr;240(4):426-434. English. doi: 10.1055/a-2031-2556.

**Neurotrophic Keratopathy in Systemic Diseases: A Case Series on Patients Treated With rh-NGF.**

Meduri A. et al. Front Med (Lausanne). 2022 May 30;9:920688. doi: 10.3389/fmed.2022.920688.

**Clinical and instrumental assessment of the corneal healing in moderate and severe neurotrophic keratopathy treated with rh-NGF (Cenegermin).**

Roszkowska A.M. et al. Eur J Ophthalmol. 2022 Apr 27;11206721221097584. doi: 10.1177/11206721221097584

**Sutureless Amniotic Membrane Transplantation in Inflammatory Corneal Perforations.**

Meduri A. et al. Applied Sciences. 2022; 12(8):3924. <https://doi.org/10.3390/app12083924>

**The Role of Hi-Tech Devices in Assessment of Corneal Healing in Patients with Neurotrophic Keratopathy.**

Inferrera L.<sup>1</sup> et al. J Clin Med. 2022 Mar 14;11(6):1602. doi: 10.3390/jcm11061602.

**Surgical treatment of the pathologies of lacrimal pathway Nasal and Paranasal Sinus Surgery: State of the Art and Future Perspectives**

Catalani M et al. 2021, pp. 267-285

**The Propeller Myocutaneous Flap of the Upper Eyelid: Anatomical Study and its Clinical Implication.**

Delia G. et al. Journal of Craniofacial Surgery: October 2021 - Volume 32 - Issue 7 - p 2475-2478

**Combined Phialemonium curvatum and Acanthamoeba Keratitis: The Importance of Early Diagnosis and Specific Therapy. Cornea.**

Roszkowska A.M. et al. 2021 Oct 1;40(10):1340-1343. doi: 10.1097/ICO.0000000000002660

**Oral Aminoacids Supplementation Improves Corneal Reinnervation After Photorefractive Keratectomy: A Confocal-Based Investigation.**

Roszkowska A.M. et al. Front Pharmacol. 2021 Jul 26;12:680734. doi: 10.3389/fphar.2021.680734

**Use of Lacrimal Symptoms Questionnaire After Punctoplasty Surgery: Retrospective Data of Technical Strategy.**

Meduri A. et al. J Craniofac Surg. 2021 Jul 7. doi: 10.1097/SCS.00000000000007813

**The ocular microbiome and microbiota and their effects on ocular surface pathophysiology and disorders.**

Aragona P. et al. *Surv Ophthalmol.* 2021 Nov-Dec;66(6):907-925.  
doi: 10.1016/j.survophthal.2021.03.010

**Impact of corneal parameters, refractive error and age on density and morphology of the subbasal nerve plexus fibers in healthy adults.**

Roszkowska A.M. et al. *Sci Rep.* 2021 Mar 16;11(1):6076. doi: 10.1038/s41598-021-85597-5

**Ophthalmologic Manifestations of Primary Sjögren's Syndrome.**

Roszkowska A.M. et al. *Genes (Basel).* 2021 Mar 4;12(3):365. doi: 10.3390/genes12030365

**Multimodal Imaging in Susac Syndrome: A Case Report and Literature Review.**

Bagaglia S.M. et al. *Int. J. Environ. Res. Public Health* 2021, 18, 3435. doi: 10.3390/ijerph18073435

**Optical Coherence Tomography Predictors of Favorable Functional Response in Naive Diabetic Macular Edema Eyes Treated with Dexamethasone Implants as a First-Line Agent.**

Meduri A. et al. *Journal of Ophthalmology* Volume 2021, Article ID 6639418, 5 pages doi: 10.1155/2021/6639418

**Safety and Tolerability of an Eye Drop Based on 0.6% Povidone-Iodine Nanoemulsion in Dry Eye Patients.**

Oliverio G.W. et al. *J Ocul Pharmacol Ther.* 2021 Mar;37(2):90-96. doi:10.1089/jop.2020.0085.

**Intraconal Retro-Orbital B-Type Antoni Neurinoma Causing Vision Loss.**

Bagaglia S.M. et al. *J Craniofac Surg.* 2020 Jul 7. DOI: 10.1097/SCS.0000000000006726

**Surgical Treatment of Dacryocystitis by Using a Venous Catheter.**

Meduri A. et al. *J Craniofac Surg.* 2020 Jun;31(4):1120-1121. DOI: 10.1097/SCS.0000000000006237

**The Application of a Venous Catheter for the Surgical Treatment of Punctal Occlusion.**

Meduri A. et al. *J Craniofac Surg.* 2020 May 19. DOI:10.1097/SCS.0000000000006536.

**The Use of a Venous Catheter as a Stent for Treatment of Acquired Punctal and Canalicular Stenosis.**

Meduri A. et al. *J Craniofac Surg.* Nov-Dec 2019;30(8):2544-2545.  
DOI: 10.1097/SCS.0000000000005743

**Treatment of the Pterygium: Autologous Conjunctival Implant Associated with Phototherapeutic Keratectomy (PTK), Second Experience.**

Fiorini P.F. et al. *Journal of Optometry and Ophthalmology* Nov 2019; DOI: JOO-1-001

**Scleral pockets for an innovative technique of intrascleral fixation of intraocular lens**

Postorino M. et al. *Eur. J Ophthalmol.* 2019 Jul 29;1120672119866018. DOI: 10.1177/1120672119866018

**La cheratite neurotrofica: valutazioni attuali e trattamenti innovativi.**

Mastropasqua L. et al. *Italian review of ophthalmology* n°4 2018.

**The Use of a Double Suture and Conjunctival Cuts in the Lateral Tarsal Strip: A New Approach to Involutional Ectropion.**

Meduri A. et al. *J Craniofac Surg.* 2018 Nov;29(8):2312-2315. DOI:10.1097/SCS.0000000000004838

**Capitolo: Congiuntiviti infettive. Algoritmo diagnostico terapeutico delle infezioni oculari.**

Aragona P. et al. *L'Oculista italiano* 2018

## Editorial board member

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| **BMC Ophthalmology**

## Language

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| **Italian** – Native

| **English** - Proficient