

Surname: Nicolò
Name: Massimo
Date of Birth: 24 February 1970
massimonicolo@gmail.com

Instruction:

- Degree in medicine on July 1994 at the University of Genova, Italy Title of the thesis "Recent Innovations on the treatment of choroidal melanoma"
- March 1995 through August 1996 *Research Fellow* in the molecular biology of the retina laboratory of the New England Eye Center-Tufts University di Boston
- Residency in Ophthalmology (1998-2002) at the University Eye Clinic of Genova, Italy
- Research Fellowship (2002-2003) at the University Eye Clinic of Genova, Italy.
- Ph.D. on biology and pathology of ageing at the University of Genova, Italy (2003-2006).

Actual Position:

Assistant Professor at Clinica Oculistica Di.N.O.G.Mi. University of Genova, IRCCS San Martino IST, Viale Benedetto XV - 16132, Italy.

Foreign experiences:

- August 1992 attending the Retina Service of Will's Eye Hospital of Philadelphia, USA
- September 1994 attending the transfusional center of the Besançon Hospital, France to learn the technique to preserve corneas at +31°C.
- November-December 1994 attending the ophthalmology service of Saint Roch Hospital in Nice, France
- March 1995 through August 1996 *Research Fellow* in the molecular biology of the retina laboratory of the New England Eye Center-Tufts University di Boston where he took part to the generation of knock-out mice for the rodopsin and transducin gene.
- August-September 1996 attending the Neurogenetic Unit-Harvard Medical School where he started experiments of viral gene therapy for retinoblastoma.
July-September 1998: winner of a fellowship to learn the comparative genomic hybridization (CGH) at the cytogenetic laboratory (Prof. C. Turc Carel) of the CHU in Nice, France.
- May 1998 attending the eye pathology laboratory directed by Dr. R. Green at the Wilmer Eye Institute - Johns Hopkins University in Baltimore, USA.
- June 1999 attending the Vitreo Retina Macula New York Consultants (Dr. L. Yannuzzi) in New York, USA.

Dr. Nicolò is at the head of a clinical and basic science research team formed by ophthalmologists, orthoptists, biologists, and nurses. He actively collaborates with bioengineers.

He teaches medical retina at the ophthalmologist residency program and medical school of the University of Genova.

Main Areas of Interest

- studying the effect of laser light at different energy and emission in continuous wave or subthreshold on macular disease.
- degenerative and vascular disease of the retina and macula and new diagnostic and therapeutic technologies to maculopathy.
- platform I-maculaweb (degenerazionemaculare.it) for managing patients suffering from degenerative and vascular diseases of the macula.
- setting up a telescreening platform for diabetic retinopathy.
- basic science interest concerning the effects of anti-angiogenic drugs (bevacizumab, ranibizumab and aflibercept) on cell lines of retinal pigment epithelium, and endothelial cells.

Participation in multi-center clinical trials

Principal investigator in the following clinical trials:

1. Perseus-IT study (non-interventional prospective study to evaluate the efficacy of aflibercept (Eylea®) in patients "naive" with exudative age-related macular degeneration diagnosis in clinical practice standards in Italian) (being approval)
2. Study Spectri (A phase III, multicenter, randomized, double-masked, sham-controlled study to assess the efficacy and safety of larpalizumab intravitreally administered to patients with geographic atrophy secondary to age-related macular degeneration)
3. Study Sequoia (A phase III, multicenter, randomized, double-masked, controlled study to assess the efficacy and safety Safety and Efficacy of Abicipar Pegol in Patients with Neovascular Age-related Macular Degeneration)

He is principal investigator and national coordinator of the follow clinical trials:

- Clinical Study Protocol No. BAY 86-5321/16598 (AZURE study) An open-label, randomized, active-controlled, parallel-group, Phase-3b study of the efficacy, safety, and tolerability of 2 mg aflibercept administered by intravitreal injections using two different treatment regimens to subjects with neovascular age-related macular degeneration (nAMD)
- Clinical Study Protocol No. BAY 86-5321/17850 (AQUA study) Open-label Phase-4 study to examine the change of vision-related quality of life in subjects with diabetic macular edema (DME) during treatment with intravitreal injections of 2 mg aflibercept according to EU label for the first year of treatment
- Clinical Study Protocol BAY 86-5231/17613 (VIOLET study) An open-label, randomized, active-controlled, parallel-group, Phase-3b study of the efficacy, safety, and tolerability of three different treatment regimens of 2 mg Aflibercept administered by intravitreal injections to subjects with diabetic macular edema (DME).

Partecipation in Scientific Societies

- He sit in the scientific committee and administration board of the Italian Macula Foundation (fondazionemacula.it)
- He is in the board of the Italian Society of Retina - Società Italiana Retina (SIR)
- He is founder and in the board of the Società degli Oftalmologi Universitari (SOU)
- He is *scientific referee* for the following *peer review* journals: American Journal of Ophthalmology, Retina, Eur. J. Ophthalmology, Graefes Archives Clinical Experimental Ophthalmology, Ophthalmic Surgery Lasers and Imaging Retina.
- He is founder of the webplatform www.occhioallaretina.it
- He is founder of the webplatform imaculaweb.com designed in collaboration with bioengineers of the University of Genova, Italy.

1. Puddu A, Sanguineti R, Traverso CE, Viviani GL, Nicolò M Ophthalmic Surg Lasers Imaging Retina. 2016 Feb 1;47(2):180-2 Response to anti-VEGF-A treatment of retinal pigment epithelial cells in vitro..Eur J Ophthalmol. 2016 Apr 12:0
2. Nicolo M, Rosa Raffaella, Musetti Donatella, Musolino Maria, Carlo E. Traverso Early Swept-source Optical Coherence Tomography Angiography Findings in Unilateral Acute Idiopathic Maculopathy (UAIM) Ophthalmic Surg Lasers Imaging Retina.
3. Puddu A, Sanguineti R, Traverso CE, Viviani GL, Nicolò M Response to anti-VEGF-A treatment of endothelial cells in vitro. Exp Eye Res. 2016 Jan 4;146:128-136. doi: 10.1016/j.exer.2015.12.014.
4. Fraccaro P, Nicolò M., Bonetto M, Giacomini M, Weller P, Traverso CE, Prospero M, O Sullivan D (2015). Combining macula clinical signs and patient characteristics for age-related macular degeneration diagnosis: a machine learning approach. BMC Ophthalmology, vol. 15; p. 10-20, ISSN: 1471-2415, doi: 10.1186/1471-2415-15-10

5. Menchini U, Bandello F, De Angelis V, Ricci F, Bonavia L, Viola F, Muscianisi E, Nicolò M. Ranibizumab for Visual Impairment due to Diabetic Macular Edema: Real-World Evidence in the Italian Population (PRIDE Study). *J Ophthalmol.* 2015;2015:324841.
6. Fraccaro P, Nicolo M, Bonetto M, Giacomini M, Weller P, Traverso CE, Prosperi M, O Sullivan D. Combining macula clinical signs and patient characteristics for age-related macular degeneration diagnosis: a machine learning approach. *BMC Ophthalmol.* 2015 Jan 27;15(1):10.
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8. Musetti, D., Nicolò, M., Bagnis, A., Traverso, C.E. Chorioretinal folds: Associated disorders and a related maculopathy (2014) *American Journal of Ophthalmology*, 158 (2), p. 409
9. Nicolò M, Eandi CM, Alovise C, Grignolo FM, Traverso CE, Musetti D, Cardillo Piccolino F. Half-fluence versus half-dose photodynamic therapy in chronic central serous chorioretinopathy. *Am J Ophthalmol.* 2014 May;157(5):1033-1037.e2. doi: 10.1016/j.ajo.2014.01.022. Epub 2014 Jan 30. PMID: 24487046 [PubMed - in process]
10. Nicolo M, Traverso CE, Wong RW. Diagnostic and Therapeutic Challenges. *Retina.* 2014 Jan;34(1):198-202. doi: 10.1097/IAE.0b013e3182919c9e. No abstract available. PMID: 23743640 [PubMed - indexed for MEDLINE]
11. Fungi A, Nicolò M, Yzer S, Traverso CE, Yannuzzi LA. Eales Disease Associated with Serpiginous Choroiditis. *Arch Ophthalmol* 2012 Mar;153(3):474-480. PMID: 23743640 [PubMed - indexed for MEDLINE]
12. Puddu A, Sanguineti R, Durante A, Nicolò M, and Viviani G. Vascular Endothelial Growth Factor-C secretion is increased by Advanced Glycation End Products: possible implication in ocular neovascularization. *Molecular Vision* 2012;18: 2509-2517. PMID: 23112566 [PubMed - indexed for MEDLINE]
13. Nicolò M, Zoli D, Musolino M, Traverso CE. Association Between the Efficacy of Half-Dose Photodynamic Therapy With Indocyanine Green Angiography and Optical Coherence Tomography Findings in the Treatment of Central Serous Chorioretinopathy. *Am J Ophthalmol*, 2012 Mar;153(3):474-480. PMID: 22019224 [PubMed - indexed for MEDLINE]
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16. Nicolò M, Nasciuti F, Lai S, Ghiglione D, Borgia L, Calabria G. Intravitreal triamcinolone acetonide as primary treatment for diffuse diabetic macular edema: a prospective noncomparative interventional case series. *Eur J Ophthalmol.* 2006 Jan-Feb;16(1):129-33. PMID: 16496256 [PubMed - indexed for MEDLINE]
17. Nicolò M, Ghiglione D, Lai S, Nasciuti F, Cicinelli S, Calabria G. Occult with no classic choroidal neovascularization secondary to age-related macular degeneration treated by intravitreal triamcinolone and photodynamic therapy with verteporfin. *Retina.* 2006 Jan;26(1):58-64. PMID: 16395140 [PubMed - indexed for MEDLINE]

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