

# Paolo Rama

## List of Publications by Year in descending order

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81  
papers

7,607  
citations

87888

38  
h-index

76900

74  
g-index

81  
all docs

81  
docs citations

81  
times ranked

5573  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Limbal Stem-Cell Therapy and Long-Term Corneal Regeneration. New England Journal of Medicine, 2010, 363, 147-155.  | 27.0 | 990       |
| 2  | Location and Clonal Analysis of Stem Cells and Their Differentiated Progeny in the Human Ocular Surface. Journal of Cell Biology, 1999, 145, 769-782.  | 5.2  | 657       |
| 3  | AUTOLOGOUS FIBRIN-CULTURED LIMBAL STEM CELLS PERMANENTLY RESTORE THE CORNEAL SURFACE OF PATIENTS WITH TOTAL LIMBAL STEM CELL DEFICIENCY <sup>1</sup> . Transplantation, 2001, 72, 1478-1485. | 1.0  | 458       |
| 4  | Topical Treatment with Nerve Growth Factor for Corneal Neurotrophic Ulcers. New England Journal of Medicine, 1998, 338, 1174-1180.   | 27.0 | 375       |
| 5  | Vernal keratoconjunctivitis revisited. Ophthalmology, 2000, 107, 1157-1163.  | 5.2  | 371       |
| 6  | Assessment of Corneal Biomechanical Properties and Their Variation with Age. Current Eye Research, 2007, 32, 11-19.  | 1.5  | 336       |
| 7  | Neurotrophic keratitis. Eye, 2003, 17, 989-995.  | 2.1  | 309       |
| 8  | Topical treatment with nerve growth factor for neurotrophic keratitis. Ophthalmology, 2000, 107, 1347-1351.  | 5.2  | 262       |
| 9  | Neurotrophic keratopathy. Progress in Retinal and Eye Research, 2018, 66, 107-131.   | 15.5 | 250       |
| 10 | Biomechanical properties of human and porcine corneas. Experimental Eye Research, 2008, 86, 783-790.   | 2.6  | 198       |
| 11 | Phase II Randomized, Double-Masked, Vehicle-Controlled Trial of Recombinant Human Nerve Growth Factor for Neurotrophic Keratitis. Ophthalmology, 2018, 125, 1332-1343.                       | 5.2  | 188       |
| 12 | Characterization of age-related variation in corneal biomechanical properties. Journal of the Royal Society Interface, 2010, 7, 1475-1485.   | 3.4  | 163       |
| 13 | Excimer Laser Intrastromal Keratomileusis. American Journal of Ophthalmology, 1992, 113, 291-295.  | 3.3  | 151       |
| 14 | Acanthamoeba keratitis with perforation after corneal crosslinking and bandage contact lens use. Journal of Cataract and Refractive Surgery, 2009, 35, 788-791.                              | 1.5  | 132       |
| 15 | Regional variation in the biomechanical properties of the human sclera. Experimental Eye Research, 2010, 90, 624-633.  | 2.6  | 126       |
| 16 | Adult Human Müller Glia Cells Are a Highly Efficient Source of Rod Photoreceptors. Stem Cells, 2011, 29, 344-356.  | 3.2  | 122       |
| 17 | Biological parameters determining the clinical outcome of autologous cultures of limbal stem cells. Regenerative Medicine, 2013, 8, 553-567.   | 1.7  | 117       |
| 18 | Epithelial stem cells in corneal regeneration and epidermal gene therapy. Journal of Pathology, 2009, 217, 217-228.  | 4.5  | 106       |

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|----|--|-----|-----------|
| 19 | Analysis of Limbal Stem Cell Deficiency by Corneal Impression Cytology. <i>Cornea</i> , 2003, 22, 533-538.   | 1.7 | 105       |
| 20 | Age-related variations in the biomechanical properties of human sclera. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 16, 181-191.                           | 3.1 | 104       |
| 21 | Management of neurotrophic keratopathy. <i>Current Opinion in Ophthalmology</i> , 1999, 10, 270-276.   | 2.9 | 102       |
| 22 | Concise Review: Hurdles in a Successful Example of Limbal Stem Cell-based Regenerative Medicine. <i>Stem Cells</i> , 2014, 32, 26-34.  | 3.2 | 95        |
| 23 | Assessment of the epithelium's contribution to corneal biomechanics. <i>Experimental Eye Research</i> , 2008, 86, 445-451.   | 2.6 | 91        |
| 24 | Gamma knife radiosurgery for uveal melanoma: 12 years of experience. <i>British Journal of Ophthalmology</i> , 2009, 93, 40-44.  | 3.9 | 90        |
| 25 | Efficacy of Valacyclovir vs Acyclovir for the Prevention of Recurrent Herpes Simplex Virus Eye Disease: A Pilot Study. <i>American Journal of Ophthalmology</i> , 2007, 144, 547-551.e1. | 3.3 | 81        |
| 26 | Incidence and progression of lens opacities in the Barbados Eye Studies. <i>Ophthalmology</i> , 2000, 107, 1267-1273.  | 5.2 | 70        |
| 27 | Anti-inflammatory and Healing Properties of Nerve Growth Factor in Immune Corneal Ulcers With Stromal Melting. <i>JAMA Ophthalmology</i> , 2000, 118, 1446.                              | 2.4 | 68        |
| 28 | Experimental Assessment of Human Corneal Hysteresis. <i>Current Eye Research</i> , 2008, 33, 205-213.  | 1.5 | 67        |
| 29 | Corneal confocal microscopy reveals trigeminal small sensory fiber neuropathy in amyotrophic lateral sclerosis. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 278.                   | 3.4 | 66        |
| 30 | Safety and Efficacy of Topical Infliximab in a Mouse Model of Ocular Surface Scarring. , 2013, 54, 1680.   |     | 64        |
| 31 | Limbal Stem Cell Transplantation: Clinical Results, Limits, and Perspectives. <i>Stem Cells International</i> , 2018, 2018, 1-12.  | 2.5 | 60        |
| 32 | Phase I Trial of Recombinant Human Nerve Growth Factor for Neurotrophic Keratitis. <i>Ophthalmology</i> , 2018, 125, 1468-1471.  | 5.2 | 56        |
| 33 | In Vitro Evidence of Nerve Growth Factor Effects on Human Conjunctival Epithelial Cell Differentiation and Mucin Gene Expression. , 2009, 50, 4622.                                      |     | 54        |
| 34 | From discovery to approval of an advanced therapy medicinal product-containing stem cells, in the EU. <i>Regenerative Medicine</i> , 2016, 11, 407-420.                                  | 1.7 | 53        |
| 35 | Numerical Study of the Effect of Corneal Layered Structure on Ocular Biomechanics. <i>Current Eye Research</i> , 2009, 34, 26-35.  | 1.5 | 50        |
| 36 | The CORTES Study. <i>Cornea</i> , 2006, 25, 507-515.   | 1.7 | 49        |

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|----|--|-----|-----------|
| 37 | Alkali burn versus suture-induced corneal neovascularization in C57BL/6 mice: An overview of two common animal models of corneal neovascularization. <i>Experimental Eye Research</i> , 2014, 121, 1-4.              | 2.6 | 46        |
| 38 | Ocular Surface Injury Induces Inflammation in the Brain: In Vivo and Ex Vivo Evidence of a Cornealâ€“Trigeminal Axis. , 2014, 55, 6289.  |     | 44        |
| 39 | Diagnosis and Management of Iridocorneal Endothelial Syndrome. <i>BioMed Research International</i> , 2015, 2015, 1-9.   | 1.9 | 44        |
| 40 | Nerve Growth Factor Role on Retinal Ganglion Cell Survival and Axon Regrowth: Effects of Ocular Administration in Experimental Model of Optic Nerve Injury. <i>Molecular Neurobiology</i> , 2019, 56, 1056-1069.     | 4.0 | 42        |
| 41 | NK1 Receptor Antagonists as a New Treatment for Corneal Neovascularization. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 6783-6794.   | 3.3 | 41        |
| 42 | Impending corneal perforation after collagen cross-linking for herpetic keratitis. <i>Journal of Cataract and Refractive Surgery</i> , 2013, 39, 638-641.  | 1.5 | 39        |
| 43 | Modified bigâ€“bubble technique compared to manual dissection deep anterior lamellar keratoplasty in the treatment of keratoconus. <i>Acta Ophthalmologica</i> , 2015, 93, 431-438.                                  | 1.1 | 38        |
| 44 | Further evaluation of amniotic membrane banking for transplantation in ocular surface diseases. <i>Cell and Tissue Banking</i> , 2001, 2, 155-163.   | 1.1 | 37        |
| 45 | Vision from the right stem. <i>Trends in Molecular Medicine</i> , 2011, 17, 1-7.   | 6.7 | 37        |
| 46 | Isolation and genotyping of <i>Acanthamoeba</i> strains from corneal infections in Italy. <i>Journal of Medical Microbiology</i> , 2010, 59, 1324-1330.  | 1.8 | 34        |
| 47 | Cultivated limbal epithelial transplantation. <i>Current Opinion in Ophthalmology</i> , 2017, 28, 387-389.   | 2.9 | 33        |
| 48 | Cogan syndrome in children: early diagnosis and treatment is critical to prognosis. <i>American Journal of Ophthalmology</i> , 2004, 137, 757-758.   | 3.3 | 32        |
| 49 | Substance P Modulation of Human and Murine Corneal Neovascularization. , 2018, 59, 1305.   |     | 32        |
| 50 | Molecular basis for keratoconus: Lack of TrkA expression and its transcriptional repression by Sp3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16795-16800. | 7.1 | 31        |
| 51 | Visual Outcome in Ocular Sarcoidosis: Retrospective Evaluation of Risk Factors. <i>European Journal of Ophthalmology</i> , 2011, 21, 802-810.  | 1.3 | 31        |
| 52 | Substance P and its Inhibition in Ocular Inflammation. <i>Current Drug Targets</i> , 2016, 17, 1265-1274.  | 2.1 | 29        |
| 53 | VesselJ: A New Tool for Semiautomatic Measurement of Corneal Neovascularization. , 2015, 56, 8199.   |     | 26        |
| 54 | Deep anterior lamellar keratoplasty using an original manual technique. <i>British Journal of Ophthalmology</i> , 2013, 97, 23-27.   | 3.9 | 25        |

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|----|--|-----|-----------|
| 55 | Anterior Uveitis Complicating Zoledronic Acid Infusion. <i>Ocular Immunology and Inflammation</i> , 2009, 17, 267-268.   | 1.8 | 24        |
| 56 | Telomerase activity is sufficient to bypass replicative senescence in human limbal and conjunctival but not corneal keratinocytes. <i>European Journal of Cell Biology</i> , 2004, 83, 691-700.                    | 3.6 | 22        |
| 57 | Tumor Necrosis Factor- $\alpha$ Inhibitors as a Treatment of Corneal Hemangiogenesis and Lymphangiogenesis. <i>Eye and Contact Lens</i> , 2015, 41, 72-76.   | 1.6 | 22        |
| 58 | Growth inhibition of formed corneal neovascularization following Fosaprepitant treatment. <i>Acta Ophthalmologica</i> , 2017, 95, e641-e648.   | 1.1 | 22        |
| 59 | Time-Dependent Nerve Growth Factor Signaling Changes in the Rat Retina During Optic Nerve Crush-Induced Degeneration of Retinal Ganglion Cells. <i>International Journal of Molecular Sciences</i> , 2017, 18, 98. | 4.1 | 22        |
| 60 | Corneal collagen cross-linking in paediatric patients affected by keratoconus. <i>British Journal of Ophthalmology</i> , 2018, 102, 248-252.   | 3.9 | 22        |
| 61 | Novel mutations in the CHST6 gene causing macular corneal dystrophy. <i>Clinical Genetics</i> , 2004, 65, 120-125.   | 2.0 | 21        |
| 62 | Double-Biguanide Therapy for Resistant <i>Acanthamoeba</i> Keratitis. <i>Case Reports in Ophthalmology</i> , 2011, 2, 338-342.   | 0.7 | 21        |
| 63 | Rapid molecular identification of fungal pathogens in corneal samples from suspected keratomycosis cases. <i>Journal of Medical Microbiology</i> , 2006, 55, 1505-1509.  | 1.8 | 19        |
| 64 | Topical treatment with nerve growth factor in an animal model of herpetic keratitis. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2007, 246, 121-127.                                     | 1.9 | 19        |
| 65 | Direct sequencing of <i>Scenedosporium apiospermum</i> DNA in the diagnosis of a case of keratitis. <i>Journal of Medical Microbiology</i> , 2005, 54, 897-900.  | 1.8 | 18        |
| 66 | Central Corneal Thickness Reproducibility among Ten Different Instruments. <i>Optometry and Vision Science</i> , 2016, 93, 1371-1379.  | 1.2 | 17        |
| 67 | EFFICACY OF MEDIA ENRICHED WITH NONLACTATE-GENERATING SUBSTRATE FOR ORGAN PRESERVATION. <i>Transplantation</i> , 1999, 67, 800-808.  | 1.0 | 14        |
| 68 | Severe keratitis following corneal cross-linking for keratoconus. <i>Acta Ophthalmologica</i> , 2011, 89, e658-e659.   | 1.1 | 13        |
| 69 | EFFICACY OF ORGAN PRESERVATION MEDIA ENRICHED WITH NONLACTATE-GENERATING SUBSTRATE FOR MAINTAINING TISSUE VIABILITY. <i>Transplantation</i> , 1997, 63, 656-663.   | 1.0 | 11        |
| 70 | Quantifying Ocular Surface Inflammation and Correlating It With Inflammatory Cell Infiltration In Vivo: A Novel Method. , 2015, 56, 7067.  |     | 10        |
| 71 | Trigeminal stereotactic electrolysis induces dry eye in mice. <i>Acta Ophthalmologica</i> , 2013, 91, e162-3.  | 1.1 | 8         |
| 72 | Angiopoietin 2 expression in the cornea and its control of corneal neovascularisation. <i>British Journal of Ophthalmology</i> , 2016, 100, 1005-1010.   | 3.9 | 7         |

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|----|---|-----|-----------|
| 73 | Involvement of the Anterior Segment of the Eye in Patients with Mucopolysaccharidoses: A Review of Reported Cases and Updates on the Latest Diagnostic Instrumentation. <i>Seminars in Ophthalmology</i> , 2017, 32, 707-714. | 1.6 | 5         |
| 74 | Unusual early recurrence of granular dystrophy after deep anterior lamellar keratoplasty: case report. <i>Arquivos Brasileiros De Oftalmologia</i> , 2013, 76, 126-128.   | 0.5 | 4         |
| 75 | In vivo confocal microscopy in goldenhar syndrome: a case report. <i>BMC Ophthalmology</i> , 2013, 13, 55.  | 1.4 | 2         |
| 76 | Response to “Pachymetry-Guided Intrastromal Air Injection (Pachy-Bubble)” for Deep Anterior Lamellar Keratoplasty. <i>Cornea</i> , 2015, 34, e32.   | 1.7 | 2         |
| 77 | Reply: Corneal collagen crosslinking and herpetic keratitis. <i>Journal of Cataract and Refractive Surgery</i> , 2013, 39, 1281.  | 1.5 | 1         |
| 78 | “Salt and Pepper” Corneal Endothelium. <i>Ophthalmology</i> , 2013, 120, 648-649.e1.  | 5.2 | 1         |
| 79 | Autologous Cultivated Limbal Stem Cell Transplantation after Failed Previous Limbal Graft. <i>European Journal of Ophthalmology</i> , 2017, 27, e137-e139.  | 1.3 | 1         |
| 80 | Erratum-title alt-title-type="runhead" /&gt;. , 2018, 59, 6026.   |     | 1         |
| 81 | The twilight zone of stem cells and keratoprostheses. <i>Ocular Surface</i> , 2019, 17, 2-3.  | 4.4 | 1         |