

# Myopia

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National Eye Institute Myopia, also called near- or short-sightedness, is a refractive defect of the eye in which collimated light produces image focus in front of the retina when accommodation is relaxed. Those with myopia see nearby objects clearly but distant objects appear blurred. With myopia, the eyeball is too long, or the cornea is too steep, so images are focused in the vitreous inside the eye rather than on the retina at the back of the eye. The opposite defect of myopia is hyperopia or "farsightedness" or "long-sightedness" - this is where the cornea is too flat or the eye is too short. Mainstream ophthalmologists and optometrists most commonly correct myopia through the use of corrective lenses, such as glasses or contact lenses. It may also be corrected by refractive surgery, such as LASIK. The corrective lenses have a negative optical power which compensates for the excessive positive diopters of the myopic eye. In some cases, pinhole glasses are used by patients with low-level myopia. These work by reducing the blur circle formed on the retina. ( [From the Wikipedia article Myopia](#) .)

## Recent Publications on Myopia:



- [AC and AG dinucleotide repeats in the PAX6 P1 promoter are associated with high myopia.](#)  
*PURPOSE:* The PAX6 gene, located at the reported myopia locus MYP7 on...13th November, 2009  
- Mol Vis. 2009 Nov 5;15:2239-48.
- [Implantable Collamer Lens Implantation and Limbal Relaxing Incisions for the Correction of Hyperopic Astigmatism After Laser In Situ Keratomileusis.](#)  
*PURPOSE::* To report on a patient in whom hyperopic Implantable Collamer...13th November, 2009  
From the \*Department of Ophthalmology, Kitasato University School of- Cornea. 2009 Nov 11. ([DOI Direct Link](#))
- [\[Ranibizumab as treatment for myopic choroidal neovascularization.\]](#)  
*OBJECTIVE:* To evaluate the efficacy of intravitreal Ranibizumab as...11th November, 2009  
Servicio de Oftalmología, Hospital Universitario Miguel Servet, Zaragoza,- Arch Soc Esp Oftalmol. 2009 Oct;84(10):507-14.
- [Levodopa Inhibits the Development of Form-Deprivation Myopia in Guinea Pigs.](#)  
*PURPOSE.:* It has been shown that visual deprivation leads to a myopic...11th November, 2009  
\*MD daggerBS Department of Ophthalmology (MJ, LS, LF, WX, TQ), and- Optom Vis Sci. 2009 Nov 5. ([DOI Direct Link](#))
- [Laser refractive correction of myopia in visually impaired patients improves visual acuity.](#)  
*Abstract. Purpose:* To retrospectively evaluate the visual and refractive...11th November, 2009  
Department of Ophthalmology, University of Helsinki, Finland.- Acta Ophthalmol. 2009 Nov 7. ([DOI Direct Link](#))
- [Definition of high myopia by parapapillary atrophy. The Beijing Eye Study.](#)  
*Abstract. Purpose:* To retrospectively evaluate the visual and refractive...11th November, 2009

- Beijing Institute of Ophthalmology, Beijing Tongren Hospital, Capital- Acta Ophthalmol. 2009 Nov 7. ([DOI Direct Link](#))
- [Sonic hedgehog expression and its role in form-deprivation myopia in mice.](#)  
*PURPOSE: To investigate whether sonic hedgehog (Shh) plays a role in...*11th November, 2009  
Department of Ophthalmology, Eye, Ear, Nose, Throat Hospital, Fudan- Curr Eye Res. 2009 Aug;34(8):623-35.
  - [Aqueous humor level of sCD44 in patients with degenerative myopia and primary open-angle glaucoma.](#)  
*ABSTRACT: BACKGROUND: The transmembrane glycoprotein CD44 is a major...*10th November, 2009  
- BMC Res Notes. 2009 Nov 8;2(1):224. ([DOI Direct Link](#))
  - [Depth-resolved measurement of ocular fundus pulsations by low-coherence tissue interferometry.](#)  
*A device that allows for the measurement of ocular fundus pulsations at...*10th November, 2009  
Medical University of Vienna, Center for Biomedical Engineering and- J Biomed Opt. 2009 Sep-Oct;14(5):054047. ([DOI Direct Link](#))
  - [Choroidal Thickness in Healthy Japanese Subjects.](#)  
*PURPOSE. To study the posterior choroidal thickness and its profile based...*7th November, 2009  
Ophthalmology, Osaka University Medical School, Suita, Japan.- Invest Ophthalmol Vis Sci. 2009 Nov 5. ([DOI Direct Link](#))
  - [Axial length: An underestimated endophenotype of myopia.](#)  
*Myopia is a major threat for vision health across the world. Around 1 in 4...*7th November, 2009  
Centre of Physiopathology, INSERM U563, Purpan Hospital, Toulouse 31024,- Med Hypotheses. 2009 Nov 3. ([DOI Direct Link](#))
  - [Restoring the spiritual: reflections on arrogance and myopia-allopathic and holistic.](#)  
*Over the past two decades, researchers have successfully accumulated lots...*6th November, 2009  
Department of Psychiatry and Behavioral Sciences, Duke University Medical- J Relig Health. 2009 Dec;48(4):482-95. ([DOI Direct Link](#))
  - [One year outcomes of a bilateral randomized prospective clinical trial comparing PRK with Mitomycin C and LASIK.](#)  
*AIM: To compare one year follow-up results of photorefractive keratectomy...*6th November, 2009  
Brazil.- Br J Ophthalmol. 2009 Nov 4. ([DOI Direct Link](#))
  - [Illumination with monochromatic long-wavelength light promotes myopic shift and ocular elongation in newborn pigmented guinea pigs.](#)  
*The purpose of this study was to determine whether long-wavelength light...*6th November, 2009  
Department of Ophthalmology, Peking Union Medical College Hospital, Peking- Cutan Ocul Toxicol. 2009;28(4):176-80. ([DOI Direct Link](#))
  - [\[Effect of infrared low-intensity laser therapy on orbital circulation in children with progressive short-handedness\]](#)  
*This work was designed to study effect of low-intensity infrared laser...*4th November, 2009  
- Vopr Kurortol Fizioter Lech Fiz Kult. 2009 Sep-Oct;(5):37-9.

## BioNews Results for Myopia

- [QLT Inc. - Pharmaceuticals & Healthcare - Deals and Alliances Profile - new report released](#)  
*PR inside: Nov 13 2009 11:00AM Matching: myopia*
- [One year outcomes of a bilateral randomized prospective clinical trial comparing PRK with Mitomycin C and LASIK](#)  
*British Journal of Ophthalmology: Nov 5 2009 4:03AM Matching: myopia*
- [Myopia Is Protective Against Diabetic Retinopathy, New Study Says](#)  
*Medscape: Nov 5 2009 4:27PM Matching: myopia*

- [Developers blasted for biotech myopia](#)  
*Business Weekly UK: Nov 5 2009 7:29PM Matching: myopia*
- [Phakic Angle-Supported Intraocular Lens Offers Viable Alternative to Laser Vision Correction: Presented at AAO](#)  
*Doctors Guide: Oct 29 2009 8:29PM Matching: myopia*
- [AAO: Mixed Results for Pediatric Eye Surgery](#)  
*MedPage Today: Oct 29 2009 3:41PM Matching: myopia*
- [AAO: Myopia May Minimize Diabetic Eye Damage](#)  
*MedPage Today: Oct 28 2009 6:42PM Matching: myopia*
- [Long-Term Data Show LASIK Is Safe, Effective in Children: Presented at AAO-PAAO](#)  
*Doctors Guide: Oct 28 2009 2:47AM Matching: myopia*
- [AAO: Myopia May Reduce Risk of Diabetic Retinopathy](#)  
*Modern Medicine: Oct 28 2009 5:35AM Matching: myopia*
- [Clinical Review of Corneal Inlays to Correct Presbyopia: Presented at AAO-PAAO](#)  
*Doctors Guide: Oct 28 2009 2:45AM Matching: myopia*
- [Clues To Visual Variant Alzheimer's; Myopia And Diabetic Retinopathy Risk](#)  
*MediLexicon: Oct 26 2009 6:40PM Matching: myopia*
- [Medical News: Clues To Visual Variant Alzheimer's; Myopia And Diabetic Retinopathy Risk](#)  
*Medical News Today: Oct 26 2009 3:14PM Matching: myopia*
- [Clues To Visual Variant Alzheimer's; Myopia And Diabetic Retinopathy Risk](#)  
*Medical News Today: Oct 26 2009 12:08PM Matching: myopia*
- [Clues to visual variant Alzheimer's; myopia and diabetic retinopathy risk](#)  
*Genetic Engineering News: Oct 25 2009 4:17PM Matching: myopia*
- [LASIK with custom ablation offers better outcomes than conventional ablation](#)  
*PCON SuperSite: Oct 23 2009 11:52PM Matching: myopia*

#### Myopia Clinical Trials:



- [Myopia Control With Simultaneous Vision Approach](#)

#### Myopia Patents:



- 7544194- [Method of generating a control program for a device for photorefractive corneal surgery of the eye](#)
- 7563787- [Substituted pyrazole compounds](#)
- 7566129- [Ophthalmologic apparatus](#)
- 7566133- [Designing method of optical system](#)

- 7566721- [Substituted thienol\[2,3-d\]pyrimidines as kinase inhibitors](#)
- 7567349- [Speckle reduction in optical coherence tomography by path length encoded angular compounding](#)
- 7569597- [Isoindoline compounds and methods of their use](#)
- 7572442- [Selected antibody compositions for binding to aminophospholipids](#)
- 7572448- [Combined cancer treatment methods using selected antibodies to aminophospholipids](#)
- 7572781- [Prodrugs for use as ophthalmic agents](#)
- 7572831- [Composition containing chalcone](#)
- 7563255- [Implantable drug delivery device and use thereof](#)
- 7562982- [Generalized presbyopic correction methodology](#)
- 7560551- [Aurora kinase modulators and method of use](#)
- 7545515- [Object shaping device](#)
- 7547102- [Wavefront propagation from one plane to another](#)
- 7549745- [Apparatus and method for correcting for aberrations in a lens system](#)
- 7551293- [Method and apparatus for three-dimensional spectrally encoded imaging](#)
- 7553019- [Variable focus spectacles](#)
- 7556375- [Soft lens orthokeratology](#)
- 7556378- [Intraoperative estimation of intraocular lens power](#)
- 7556554- [Apparatus and method for manufacturing optical objects](#)
- 7559650- [Manufacturing techniques for the production of hydrodynamic multifocal contact lenses](#)
- 7559652- [Adaptive optic ophthalmic design system](#)
- 7573640- [Multi-plane optical apparatus](#)
- 7575322- [Auto-alignment and auto-focus system and method](#)
- 7594727- [Vision modification with reflected image](#)
- 7595043- [Method for processing and using adipose-derived stem cells](#)
- 7595047- [Compositions and methods for promoting or inhibiting angiogenesis](#)
- 7597442- [Polarizing ophthalmic lens adapted to a wearer's eye/head behavior](#)
- 7604350- [Method for calculating an ophthalmic lens and corresponding lens](#)
- 7608635- [Pyrazole compounds that modulate HSP90 activity](#)
- 7611244- [Adaptive optics for compensating for optical aberrations in an imaging process](#)
- 7611245- [Placido projector for corneal topography system](#)
- 7611704- [Compositions and methods for treating viral infections using antibodies and immunoconjugates to aminophospholipids](#)
- 7614747- [Automated vision screening apparatus and method](#)
- 7594726- [Variable focus optical devices](#)
- 7594725- [Contact lens and methods of manufacture and fitting such lenses and computer program product](#)
- 7592330- [Methods and compositions for preserving the viability of photoreceptor cells](#)
- 7576916- [Light guide optical device](#)
- 7582081- [Systems and methods for corneal surface ablation to correct hyperopia](#)
- 7584756- [Apparatus and method for correction of aberrations in laser system optics](#)
- 7585074- [Hybrid contact lens system and method](#)
- 7585075- [Corneal onlays and wavefront aberration correction to enhance vision](#)
- 7585517- [Transscleral delivery](#)
- 7585670- [Automated methods for isolating and using clinically safe adipose derived regenerative cells](#)
- 7588332- [Enhanced electro-active lens system](#)
- 7589057- [Oil-in-water method for making alpha-2 agonist polymeric drug delivery systems](#)
- 7592324- [RNAi-mediated inhibition of ocular targets](#)
- 7615223- [Selected immunoconjugates for binding to aminophospholipids](#)

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