

The nation's leader in vision research.

The mission of the National Eye Institute is to eliminate vision loss and improve quality of life through vision research.

[Learn more about NEI](https://www.nei.nih.gov/about) (<https://www.nei.nih.gov/about>)

Eye Conditions A to Z

Get information about common eye conditions and diseases.

(<https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases>)

Clinical Trials

Learn how you can get involved in cutting-edge vision research.

(<https://www.nei.nih.gov/research/clinical-trials>)

Popular Eye Health Topics

- [Keep Your Eyes Healthy](https://www.nei.nih.gov/learn-about-eye-health/healthy-vision/keep-your-eyes-healthy) (<https://www.nei.nih.gov/learn-about-eye-health/healthy-vision/keep-your-eyes-healthy>)
- [Get Help Paying for Eye Care](https://www.nei.nih.gov/learn-about-eye-health/healthy-vision/get-help-paying-eye-care) (<https://www.nei.nih.gov/learn-about-eye-health/healthy-vision/get-help-paying-eye-care>)
- [Color Blindness](https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/color-blindness) (<https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/color-blindness>)
- [Diabetic Retinopathy](https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/diabetic-retinopathy) (<https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/diabetic-retinopathy>)
- [Finding an Eye Doctor](https://www.nei.nih.gov/learn-about-eye-health/healthy-vision/finding-eye-doctor) (<https://www.nei.nih.gov/learn-about-eye-health/healthy-vision/finding-eye-doctor>)
- [Floater](https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/floater)s (<https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/floater>)
- [Retinal Detachment](https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/retinal-detachment) (<https://www.nei.nih.gov/learn-about-eye-health/eye-conditions-and-diseases/retinal-detachment>)

[Explore NEI's eye health information](https://www.nei.nih.gov/learn-about-eye-health) (<https://www.nei.nih.gov/learn-about-eye-health>)

En español

[Busque información de salud de los ojos en español](#)

Announcing the 2025 Eye on the Future Teen Video Contest Winners

Four talented students have been named grand prize winners of NEI's 2025 Eye on the Future teen video contest. The contest aims to get young people interested in science and research. High school students were asked to submit a short video exploring science in their world, science in action, or science in their future. Winners were selected based on scientific context, relevance, creativity, and their ability to engage viewers.

[Watch the winning videos](#)

(<https://www.nei.nih.gov/learn-about-eye-health/campaigns/eye-future-teen-video-contest/meet-past-winners>)

NEI funded research sheds new light on immune cell interactions in retina

(<https://www.nei.nih.gov/about/news-and-events/news/nei-funded-research-sheds-new-light-immune-cell-interactions-retina>)

July 25, 2025

Outreach Materials

Explore printable handouts, fact sheets, and other materials about eye health.

(<https://www.nei.nih.gov/learn-about-eye-health/resources-for-health-educators/outreach-materials>)

NEI Research News

Check out the latest NEI news – including updates on NEI's current research and research that NEI funds.

(<https://www.nei.nih.gov/about/news-and-events/news>)

During most eye infections or injuries, neutrophils, immune cells found in the blood, are usually the first line of defense. However, new research shows retina responds differently than other tissues in the body.

New research uncovers link between cancer pathway and blood-retina barrier function

(<https://www.nei.nih.gov/about/news-and-events/news/new-research-uncovers-link-between-cancer-pathway-and-blood-retina-barrier-function>)

July 11, 2025

A National Eye Institute-funded research team at the University of Minnesota Medical School discovered that a cancer signaling pathway has previously unrecognized roles in retina and brain blood vessels.

Eye cells "rewire" themselves when vision begins to fail

(<https://www.nei.nih.gov/about/news-and-events/news/eye-cells-rewire-themselves-when-vision-begins-fail>)

July 7, 2025

A new study funded by the National Eye Institute shows that certain retinal cells can rewire themselves when vision begins to deteriorate in retinitis pigmentosa, a genetic eye disease that leads to progressive blindness.

See more news stories (<https://www.nei.nih.gov/about/news-and-events/news>)

Funding for Vision Research

NEI funds more than 1,500 research and training grants to vision scientists across the country and around the world.

Learn more about funding opportunities (<https://www.nei.nih.gov/grants-and-training/funding-opportunities>)

NEI Research Initiatives

These NEI initiatives support challenging, high-impact vision research. Current priorities include:

- Anterior Segment Initiative
(<https://www.nei.nih.gov/about/goals-and-accomplishments/nei-research-initiatives/anterior-segment-initiative>)
- Translational Research
(<https://www.nei.nih.gov/about/goals-and-accomplishments/nei-research-initiatives/translational-research>)
- eyeGENE® (<https://eyegene.nih.gov>)
- International Research
(<https://www.nei.nih.gov/about/goals-and-accomplishments/nei-research-initiatives/international-vision-research>)
- 3-D Retina Organoid Challenge
(<https://www.nei.nih.gov/about/goals-and-accomplishments/nei-research-initiatives/3-d-retina-organoid-challenge-3-d-roc>)
- Regenerative Medicine
(<https://www.nei.nih.gov/about/goals-and-accomplishments/nei-research-initiatives/regenerative-medicine>)
- Vision Health and Population Sciences
(<https://www.nei.nih.gov/about/goals-and-accomplishments/nei-research-initiatives/vision-health-and-population-sciences>)
- Data Science and Health Informatics
(<https://www.nei.nih.gov/about/goals-and-accomplishments/nei-research-initiatives/data-science-and-health-informatics>)
- Audacious Goals Initiative
(<https://www.nei.nih.gov/about/goals-and-accomplishments/nei-research-initiatives/audacious-goals-initiative>)

NEI Funding Opportunities

(<https://grants.nih.gov/funding/searchguide/index.html#/?>

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Learn more about research at NEI (<https://www.nei.nih.gov/research/>)