



News

Health & Medicine

EUREKA! SCIENCE

Related Pages:
[Science News](#)
[Marine Biology](#)

[Life science and nanotech](#)

Fast-track functional proteomics, bioresearch with FEI nanotech tools
www.fei.com

[Writing & Editing Network](#)

Science, medical, tech/engineering, IT, education & business topics.
www.writingnetwork.com

[Load Frame](#)

Load Frames for Soil/Asphalt Testing, Digital/Analog Computer
www.humboldtmg.com

[Ads by Goooooogle](#)

[Advertise on this site](#)

Simply Love Science?

Try googling:
 science books
 inventions
 archeology
 human genome project
 astronomy
 science software

Information for this article was provided by [EurekAlert!](#)

[Ads by Goooooogle](#)

[Ads by Google](#)

- [Air Force](#)
- [US Military News](#)
- [Marine Corps](#)
- [Army News](#)

Researchers at Barrow Neurological Institute resolve 40-year eye movement, visibility controversy

[News server access](#)

Usenet newsgroup servers no download limits on binaries, mp3
www.newsgroup-binaries.com



Search

For more than 40 years, a scientific controversy has raged over whether microsaccades, rapid eye movements that occur when a person's gaze is fixated, are responsible for visibility.

Research conducted at Barrow Neurological Institute in Phoenix has recently resolved the debate, establishing that microsaccades are indeed responsible for driving 80 percent of our visual experience.

[Newsgroup Servers](#)

Directory of newsgroup server providers. Find servers fast.
[Newsgroup-Server.WebHelpGuide.com](#)

EUREKA! SCIENCE

Home
 I Can Do That!
 Ask Dr. Pat

- Science in the News
- [agriculture & plants](#)
- [archaeology](#)
- [astronomy](#)
- [behavior & learning](#)
- [biology](#)
- [endangered species](#)
- [health & diet](#)
- [health & medicine](#)
- [land animals](#)
- [marine biology](#)
- [multimedia](#)
- [our earth](#)
- [physics](#)

Even when eyes are fixated carefully on an object, they continue to make tiny movements called fixational eye movements. These movements cause nearly constant stimulation of the retina. "If our eye was perfectly still during fixation, the world would quickly fade from view due to the fact that the neurons in our eyes and brain quickly adapt to non-changing stimulation," said lead researcher Dr. Susana Martinez-Conde.

There are three types of fixational eye movements: microsaccades, which are fast movements that travel in a straight line; drifts, which are slow curvy motions that occur between microsaccades; and tremors, which are very fast, extremely small oscillations of the eye superimposed on drifts.

"It is critical that we know which of these fixational eye movements is primarily responsible for keeping the world from fading because in normal visual conditions we fixate our gaze 80 percent of the time," said Dr. Martinez-Conde. Her lab established the vital role of microsaccades in vision by measuring fixational eye movements in subjects whose gaze was concentrated on one object.

Not only does this new discovery resolve a scientific debate, it also brings new hope to patients who are blind much of the time due to fixational eye movement problems.

[Usenet News Server](#)

Helpful Links for Usenet News Server
www.toseeka.com

[All the News Servers](#)

All the News Servers Savings Find Local News Servers Here!
News.Servers.AlltheIndustrials.com

[Download Usenet Via Web](#)

Browse Usenet Pictures and Videos Download Binaries From The Web!
UsenetBinaries.com/Usenet

[Advertise on this site](#)



email us

Eureka! Science products are