

<b>Navigation Links</b>
Biology News
Medicine News
Biology Products
Medicine Products
Biology Definition
Medicine Definition
Biology Technology
Medicine Technology
Biology Dictionary
Medicine Dictionary
<b>Biology Navigation</b>
AIDS/HIV
Bioinformatics
Biotechnology
Biochemistry
Cancer
Cell Biology
Developmental Biology
Ecology
Environment
Evolution
Food Technology
Gene
Genetics
Genomics
Health/Medicine
<b>Medical Navigation</b>
Abortion
Aches
ADHD
Addiction
Alcohol
Allergy
Alternative Medicine
Alzheimer's Dementia
Anxiety/Stress
Arthritis
Autism
Bacteria
Blood
Bird Flu/Avian Flu
Bones

HOME >> **BIOLOGY** >> **NEWS** **M**

## Barrow scientists solve 200-year-old scientific debate involving visual illusions

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The artwork has been at the center of a debate over whether the brain or the eye is behind the perception of illusory motion.

Dr. Martinez-Conde's laboratory recently discovered that microsaccades, a small, unconscious eye movement that occurs when humans fixate their eyes, are critical to normal vision. The team of scientists conducted the Enigma study to see if microsaccades are also behind the perception of this illusion. Based on their study, the hypothesis suggesting the illusion originates solely in the brain was ruled out.

Participants in the study observed the Enigma illusion while their eye movements were simultaneously recorded with high precision cameras. Microsaccade rates increased before the illusory motion sped up and decreased before the motion slowed, revealing a direct link between the eye movements and the illusion.

"We have discovered that this illusion originates with eye movements and not solely the brain as previously thought," says Dr. Martinez-Conde. "The findings from the study could help design future prosthetics for patients with brain damage or brain lesions that affect the perception of motion."

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Page: 1

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