

# Researchers Document Mechanical Twitch in Rod Photoreceptors During Light Detection

by GOAI



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An international research team has, for the first time, documented a small mechanical “twitch” in living human and rodent eyes when a rod photoreceptor detects light. The study, led by researchers from Nanyang Technological University (NTU) in Singapore, observed this phenomenon in real-time, marking a significant milestone in understanding how the eye processes light during night vision.

The findings reveal that this twitch occurs precisely at the moment when rod photoreceptors—specialized cells responsible for low-light vision—respond to light stimuli. The research involved studying both human and rodent eyes to capture this subtle movement. This discovery provides new insights into the mechanics of night vision and could contribute to further studies on visual processing and related disorders.