

Weekly Science & Technology Report

Gateway to the most important science and technology news headlines of the week

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Watching Fish Thoughts

Ever wonder what's going through a fish's mind? While we won't develop underwater telepathy anytime soon, Saitama University can now show us the raw activity. Researchers have learned that injecting zebrafish larvae with green fluorescent protein puts on a light show whenever their neurons fire, illustrating very clearly just which brain regions are active in a given situation, such as chasing down a paramecium for food. The method is more effective and longer-lasting than using dye, and also provides further insight: scientists can clearly spot the neural path when the zebrafish spots and reacts to its prey. As the protein is relevant to humans as well, its longevity could lead to better, longer-term drug testing that shows the cause-and-effect link. Just don't expect as much in the way of mental fireworks. Filed under: Science, AltCommentsVia: WiredSource: Current Biology

[Watching Fish Thoughts \(http://www.technologyreview.com/view/510686/watching-fish-thoughts/\)](http://www.technologyreview.com/view/510686/watching-fish-thoughts/)

Scientists record the neuronal activity of a fish brain as the animal watches its prey. Scientists in Japan have recorded the neuronal activity of a fish as it eyes its dinner, the first live ...

Fri 1 Feb 13 from MIT Technology Review

[Video: Fish Neurons Fire in Real-Time as It Stalks Prey \(http://www.wired.com/wiredscience/2013/02/fish-neuron-video/\)](http://www.wired.com/wiredscience/2013/02/fish-neuron-video/)

Studying the links between brain and behavior may have just gotten easier. For the first time, neuroscientists have found a way to watch neurons fire in an independently moving animal. Though ...

Fri 1 Feb 13 from Wired Science

[News in Brief: As fish watch prey, researchers watch fish's brains \(http://www.sciencenews.org/view/generic/id/347995/description/News_in_Brief_As_fish_watch_prey_researchers_watch_fishs_brains\)](http://www.sciencenews.org/view/generic/id/347995/description/News_in_Brief_As_fish_watch_prey_researchers_watch_fishs_brains)

Nerve cells glow, allowing real-time observations

Thu 31 Jan 13 from ScienceNews

[What's Your Fish Thinking? \(http://news.sciencemag.org/sciencenow/2013/01/whats-your-fish-thinking.html?rss=1\)](http://news.sciencemag.org/sciencenow/2013/01/whats-your-fish-thinking.html?rss=1)

New technique allows scientists to watch a freely moving animal's neurons fire in real time

Thu 31 Jan 13 from Science Now

[Fluorescent protein lets us read a fish's thoughts \(http://www.newscientist.com/article/dn23123-fluorescent-protein-lets-us-read-a-fishs-thoughts.html?cmpid=RSSINSNSI2012-GLOBALonline-news\)](http://www.newscientist.com/article/dn23123-fluorescent-protein-lets-us-read-a-fishs-thoughts.html?cmpid=RSSINSNSI2012-GLOBALonline-news)

A groundbreaking technique produces a moving light inside a zebrafish's brain as different areas respond to what its eyes see

Thu 31 Jan 13 from Newscientist

[This is what a fish thought looks like \(http://phys.org/news/2013-01-fish-thought.html\)](http://phys.org/news/2013-01-fish-thought.html)

For the first time, researchers have been able to see a thought "swim" through the brain of a living fish. The new technology is a useful tool for studies of perception. It might even find use ...

Thu 31 Jan 13 from Phys.org

[See how a fish thinks! Incredible video that shows a thought swimming through the brain of a Zebrafish \(http://www.dailymail.co.uk/sciencetech/article-2272094/See-fish-thinks-Incredible-video-shows-thought-swimming-brain-Zebrafish.html?ITO=1490&ns_mchannel=rss&ns_campaign=1490\)](http://www.dailymail.co.uk/sciencetech/article-2272094/See-fish-thinks-Incredible-video-shows-thought-swimming-brain-Zebrafish.html?ITO=1490&ns_mchannel=rss&ns_campaign=1490)

Scientists in Japan used a special gene which lights up when brain activity increases calcium levels. For the first time a video shows a fish's brain glowing purple in response to seeing food.

Fri 1 Feb 13 from Daily Mail

[Visualized: a fish brain lights up while on the prowl \(video\) \(http://www.engadget.com/2013/02/01/visualized-a-fish-brain-lights-up-while-on-the-prowl/\)](http://www.engadget.com/2013/02/01/visualized-a-fish-brain-lights-up-while-on-the-prowl/)

Ever wonder what's going through a fish's mind? While we won't develop underwater telepathy anytime soon, Saitama University can now show us the raw activity. Researchers have learned that ...

Fri 1 Feb 13 from Engadget

[Scientists capture first video of a thought forming \(in a fish\) \(http://www.dvice.com/2013-2-1/scientists-capture-first-video-thought-forming-fish\)](http://www.dvice.com/2013-2-1/scientists-capture-first-video-thought-forming-fish)

A team of researchers from Japan's National Institute of Genetics have successfully captured a zebrafish's thoughts on video as it spied some food.

Fri 1 Feb 13 from Dvice

[Thoughts, in a brain, captured on video for the first time \(http://www.extremetech.com/extreme/147328-thoughts-in-a-brain-captured-on-video-for-the-first-time?utm_source=rss&utm_medium=rss&utm_campaign=thoughts-in-a-brain-captured-on-video-for-the-first-time\)](http://www.extremetech.com/extreme/147328-thoughts-in-a-brain-captured-on-video-for-the-first-time?utm_source=rss&utm_medium=rss&utm_campaign=thoughts-in-a-brain-captured-on-video-for-the-first-time)

Scientists in Japan have just released fantastic new video showing the workings of the brain of a fish as it ponders the finer points of a paramecium dinner. How will these new techniques lead ...

Fri 1 Feb 13 from Extremetech

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