

## STEMazing NEWS



### **Karate Cockroach!**

The emerald wasp attempts to sting a cockroach. The poison will subdue the cockroach so that the wasp can lay an egg inside the roach's body so that its young can eat the roach from inside out. About 2/3 of roaches fight off this attack with a karate chop. See and read more at <https://www.nytimes.com/video/science/10000006213475/the-cockroach-karate-kick-that-fends-off-wasps.html>



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## STEMintersting NEWS



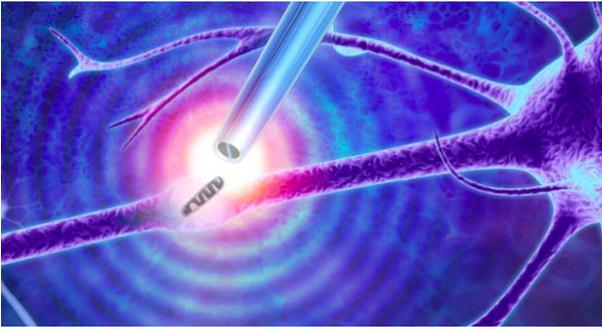
## CATCHING PLASTIC!

A 600-meter net is being deployed in the Pacific Ocean to collect plastic waste. Estimates place the number of plastic piece floating about in the North Atlantic alone to be 1.8 trillion pieces. The system is designed to remove larger pieces that account for 90% of the plastic. Some worry that this system may draw attention away from the real problem of using and disposing of too much plastics. Read and see more at: <https://www.sciencenews.org/article/massive-net-being-deployed-pick-plastic-pacific>



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## NANOTWEEZERS

Exploring a living cell requires poking a tiny probe inside and snatching the interesting organelle or molecule. Until now the process killed the cell because the probes were so large they ripped the cell membrane. Now, an incredibly tiny glass rod with the tip equipped with an electric tweezer can attach to small piece of molecules and remove them without killing the cell. Read and see more at:  
<https://www.sciencenews.org/article/new-nanotweezers-let-scientists-do-biopsies-living-cells>

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### **A VOICE IN A CROWD!**

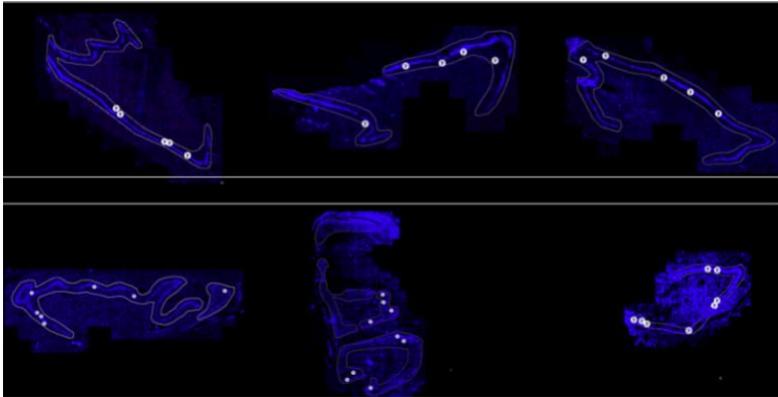
It is easy for humans to concentrate on one voice in a crowd. We automatically remove all the other noise and focus attention on what one person is saying. When you ask a machine to do the same thing—it cannot, until now. A new Artificial Intelligence coding system has been designed to listen-in to a crowd conversation and to hone in on just one voice using both video and voice cues. See and read more at:

<https://www.sciencenews.org/article/new-ai-can-focus-one-voice-crowd>



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## BRAIN DRAIN?

Classic neurobiology has taught that our brains stop making new cells after childhood. New studies, however, have refuted this belief. The photo above shows nursery cells in a young brain as compared to an older brain. In a study of brains of a range of ages, scientists discovered the footprint of molecules required to make new cells in people age 20 to 70. There is still hope for all of us! See and read more at <https://www.sciencenews.org/article/human-brains-make-new-nerve-cells-and-lots-them-well-old-age>

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