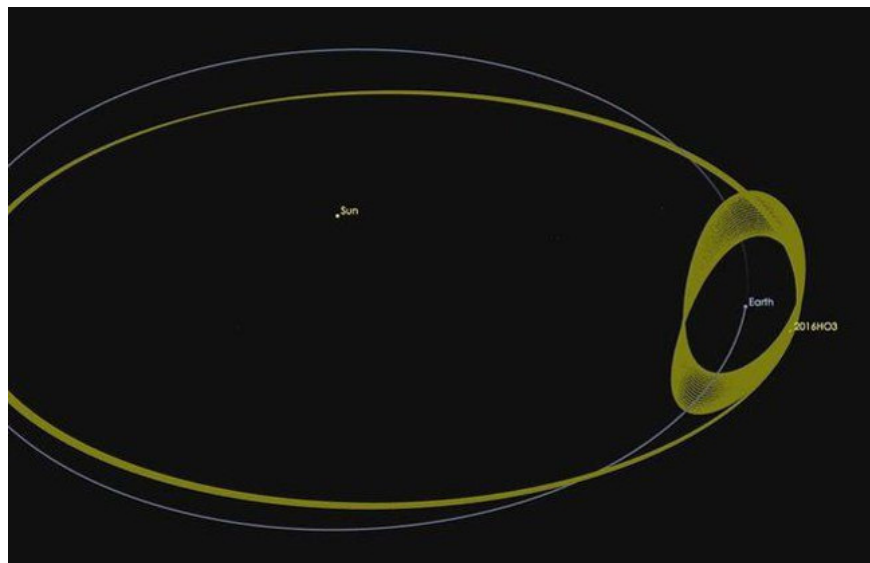


10 most impressive scientific discoveries in the world in the first 6 months of 2016

The Earth has two moons, discovering the ninth planet, finding methods of near-endless data storage ... are the most discoverable and outstanding findings and discoveries of scientists. Study from early 2016 to now.

The Earth has two moons, discovering the ninth planet, finding methods of near-endless data storage . are the most discoverable and outstanding findings and discoveries of scientists. Study from early 2016 to now.

1. Discover a new "Moon" around Earth



On April 27, **2016**, NASA scientists discovered an asteroid named **2016 HO3** when the telescope was located in Haleakala, Hawaii was surveying Pan-STARRS object 1.

The trajectory of this asteroid is quite special, HO3 has a faster movement speed than Earth and is closer to the Sun. Causing HP3 to tilt at an angle of 8 degrees and a cycle around the Sun is 365.93 days (Earth's 365.24 days). According to asteroid scientists, the diameter is about 40m to 100m smaller. much more than our main moon (3.474km).

This asteroid has been around the Earth for nearly a century and will continue like that for several hundred years. Its orbit is elliptical with an average distance of 38 to 100 times that of the Earth.

2. Carbon Dioxide penetrates into the soil can become solid rock

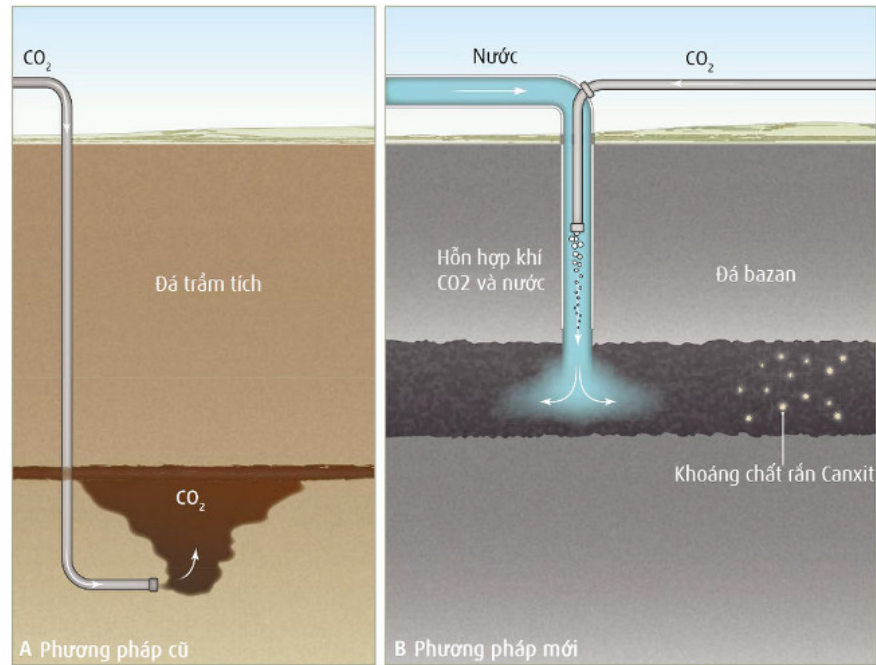


Photo: P. Huey / Science

Iceland scientists have successfully developed a technique that allows **storing carbon emissions by turning them into rocks that** prevent them from entering the atmosphere, affecting the greenhouse effect, limiting the process of warming up. bridge.

The team devised a method to accelerate the natural process of converting basalt into carbon dioxide, then becoming limestone by pumping CO₂ gas and groundwater into volcanic rocks in Iceland. In nature, this process usually takes hundreds, even thousands of years, but scientists in Iceland have shortened the time to 2 years.

When carbon is sucked into a rock that can be stored underground or used as a building material to never release CO₂ into the atmosphere.

3. Therapy for stroke using stem cells

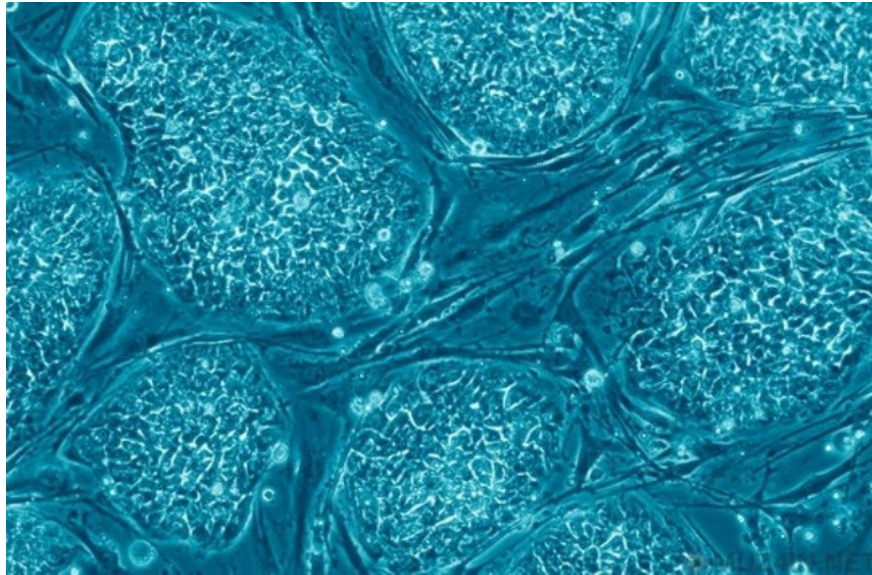
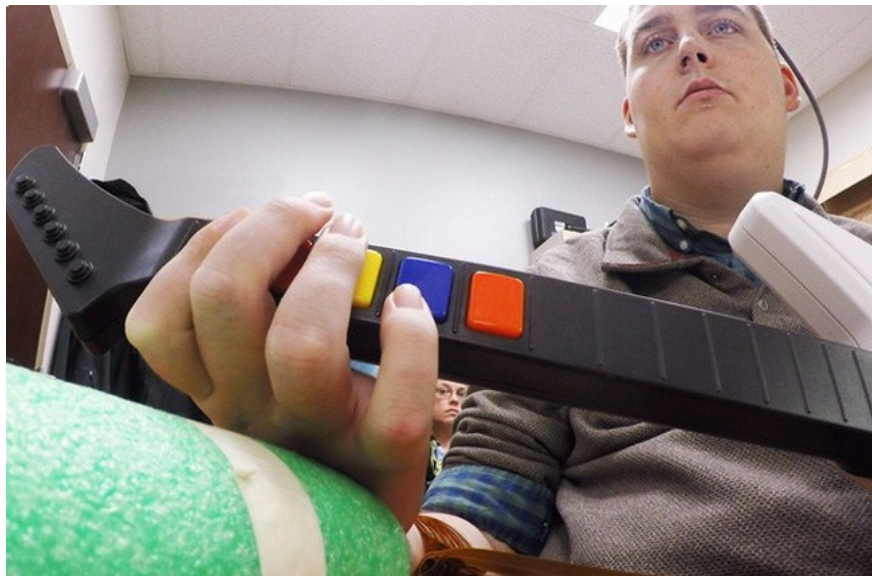


Photo Nissim Benvenisty

Scientists at Stanford University (USA) conducted a treatment trial for 18 patients with stroke with stem cells. Among them were 11 women and 7 men, aged 33 to 75, patients with motor disabilities, some with paralysis, while others were unable to walk.

All patients received stem cell transplantation, including drilling a hole into the skull and injecting **SB623 cells** into the area of the brain damaged by stroke. One month after treatment, patients began to show signs of recovery, and these improvements continued for at least 1 year and more than 2 years for some patients.

4. Implant the chip in the brain to help the paralyzed person manipulate the hand as they think



Ian Burkhardt could play Guitar Hero after being implanted into the brain.

Ian Burkhardt , a man who had suffered from the chest down for six years, was able to move his finger.

The chip was implanted in Burkhart's left brain, making it possible for him to transmit signals from his brain to his right hand and make it move, holding the cup. Even this new technology could help Burkhart's fingers move independently to play Guitar Hero.

This is also the first time a person with polio can regain the ability to move simply, thanks to the advancement of medicine. Scientists hope from Burkhart's success, in the near future technology will be an effective way to help paralyzed people with four limbs regain control.

5. SpaceX successfully landed a missile



SpaceX's rocket successfully landed on the floating platform in the middle of the sea

On April 8, 2016, **SpaceX** Space Technology Corporation founded by Elon Musk made the first landing of the unmanned rocket to the floating platform in the middle of the Atlantic. Their success will save money and the time between each launch due to the reuse of the rocket and will most likely pave the way for a new era of aerospace history.

6. Detecting fish walking and climbing walls



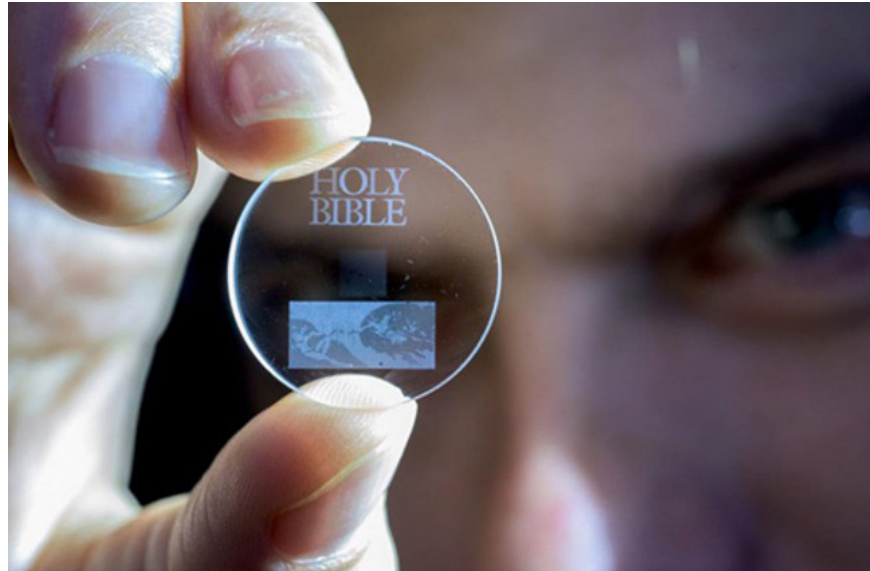
A group of researchers from the New Jersey Institute of Technology discovered a blind fish species that knows walking and climbing like a four-legged animal on a trip to Thailand.

Scientists said **that Thailand's cave fish , Cryptotora thamicola,** is the only living fish that is capable of walking just like terrestrial vertebrates, can even climb over high rock.

Their pelvis is very complex, connected to the spine with the ribs extending along the body, helping the hind legs support the body off the ground, similar to land-based four-legged animals. . In addition, their vertebrae are also stacked on top of each other, helping the spine to be sturdy, serving for travel.

Scientists hope this fish will help explain the way in which human ancestors evolved from deep seabeds to the ground, from a fish swimming in the water until becoming a species of bones. living on land about 300 million years ago.

7. Find out almost endless data storage methods



Scientists at Southampton University in the UK have created a new form of data storage, which helps to encode information into the tiny nanostructures contained in glass. It is called a " *5-dimensional disk* ", can **store about 360TB of data, with an estimated life of up to 13.8 billion years in temperatures up to 1000 ° C.**

Data is recorded on devices that use ultra-fast lasers through short and intense light pulses. Each file is written in three layers of nanostructures that are only 5 micrometers.

8. Detecting the 9th planet in the solar system



In January 2016, based on astronomical observations and computer models, astronomers from the California Institute of Technology (Caltech) argue that in our solar system there is a giant planet (onion) 9th planet) has never been known as " *planet X* ".

The planet is 10 times larger than the Earth, and is "floating" in the Kuiper belt. It is 149 billion kilometers from the Sun, 75 times farther away from Pluto and takes 10,000 to 20,000 years to spin around the Sun.

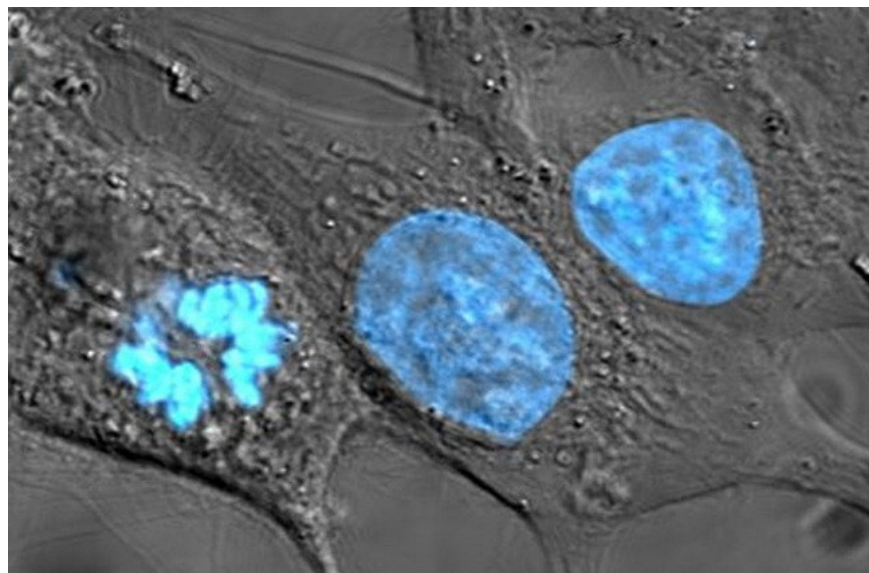
9. Detect a new element



In January 2016, scientist Curtis Cooper and colleagues in the Great Internet group Mersenne Prime Search (GIMPS) announced the latest and greatest primes ever with 22,338,618 million digits. This number is 4 times larger than the old record and is named $2^{74,207,281} - 1$ with the code **M74207281**.

$2^{74,207,281} - 1$ was searched by scientists Curtis Cooper and colleagues in the Great Internet Mersenne Prime Search group (GIMPS). This is the result of many volunteers' efforts to find larger prime numbers of the form $2n-1$ according to the Mersenne algorithm. The record for the largest number of primes previously announced by Cooper's group and they broke the record four times.

10. Light genetically modified 800 million years ago led to multicellular life



The researchers found an **ancient GK-PID molecule** , about 800 million years ago, that is the root of the unicellular entity evolving into multicellular organizations like today. Molecules are found like a carabiner molecule, which can pull chromosomes close together to latch inside the cell membrane when separation occurs. This allows cells to reproduce properly and avoid cancer cell formation.

You finished reading the article "**10 most impressive scientific discoveries in the world in the first 6 months of 2016**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.