

## 2,000-year-old skeleton found at Mediterranean shipwreck

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Excavations in 2016 at the Antikythera Shipwreck produced a nearly intact skull, including the cranial parietal bones. Credit: Brett Seymour, EUA/WHOI/ARGO

Archeologists have discovered a 2,000-year-old human skeleton at the same Mediterranean shipwreck that yielded the most sophisticated piece of technology, a clockwork, to survive Antiquity, *Nature* reported Monday.

If DNA can be prised from the remains, found on August 31 off the coast of the Greek island Antikythera, it may reveal clues as to the skeleton's identity, the science journal said.

The surprisingly well-preserved bones—including a partial skull, two [arm bones](#), several ribs and two femurs—could also unlock secrets about the famous first-century BC merchant ship which probably foundered during a storm.

The Greek government has yet to give permission for DNA testing.

The skeleton is a rare find. The bodies of shipwreck victims are usually swept away or eaten by fish, and rarely survive decades, much less centuries.

"We don't know of anything else like it," Brendan Foley, an underwater archeologist at Woodshole Oceanographic Institution in Massachusetts and co-director of the excavation, told *Nature*.

A first look suggests that the skeletal remains come from a young man, according to Hannes Schroeder, an expert in ancient DNA analysis from Denmark Museum of Natural History.

"It doesn't look like bones that are 2,000 years old," he told *Nature*.

Schroeder was especially pleased at the recovery of the petrous bones—located behind the ear—that tend to preserve DNA better than other parts of the skeleton or teeth.

"If there's any DNA, then from what we know, it'll be there," he told *Nature*.

DNA recovery could reveal hair and eye colour, as well as ancestry and

geographic origin, he added.

The wreck, sitting in nearly 50 metres (165 feet) of water, was first discovered by sponge divers in 1900, and is widely believed to be the first ever investigated by archeologists.



Skeletal remains in situ on the Antikythera Shipwreck: skull and long bones from arm and leg. Credit: Brett Seymour, EUA/WHOI/ARGO

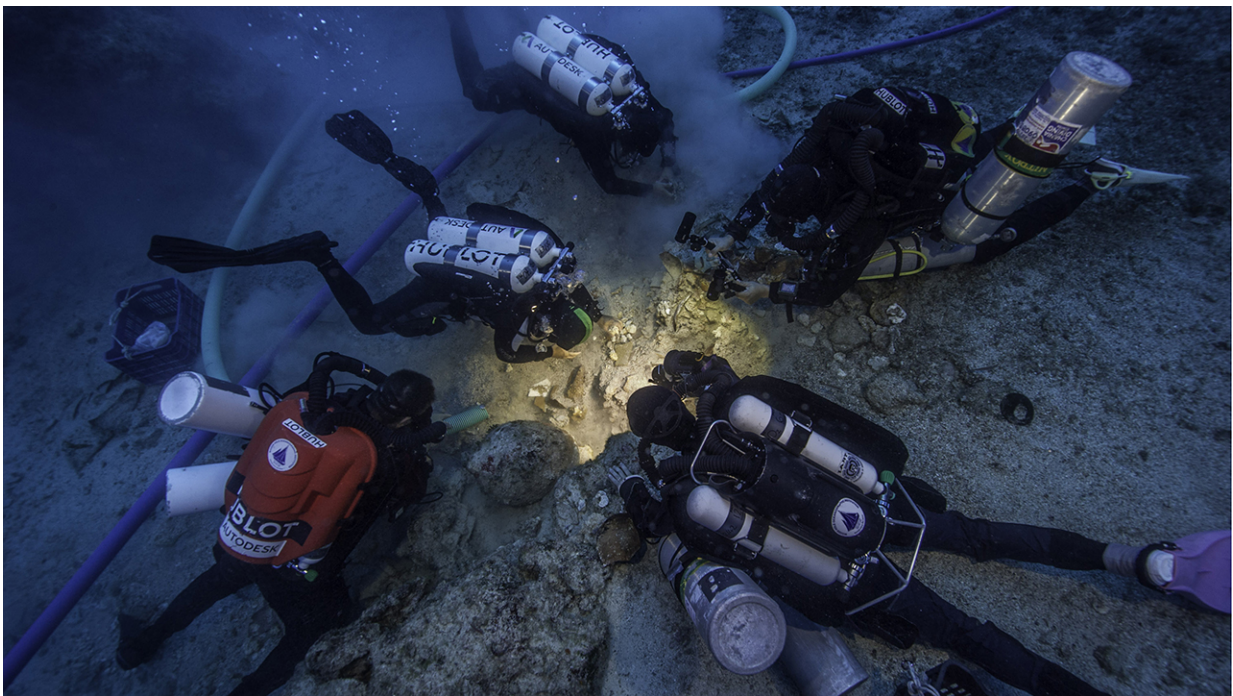
The prize find was the so-called Antikythera Mechanism, a device from the 2nd-century BC, which is sometimes called the world's oldest computer.

The highly complex device is composed of some 40 bronze cogs and gears and was used by the ancient Greeks to track the cycles of the solar

system.

It took another 1,500 years for an astrological clock of similar sophistication to be made in Europe.

The oldest DNA ever retrieved from modern human remains was about 45,000 years old.



Archaeologists Brendan Foley, Theotokis Theodoulou and Alex Tourtas excavate the Antikythera Shipwreck skeletal remains, assisted by Nikolas Giannoulakis and Gemma Smith. Credit: Brett Seymour, EUA/WHOI/ARGO

**More information:** Jo Marchant. Human skeleton found on famed Antikythera shipwreck, *Nature* (2016). [DOI: 10.1038/537462a](https://doi.org/10.1038/537462a)

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