

# Patagotitan mayorum: New study describes the biggest dinosaur ever

9 August 2017, by Seth Borenstein



Reconstruction of Patagotitan mayorum. Credit: Jorge Gonzalez

A study proclaims a newly named species the heavyweight champion of all dinosaurs, making the scary Tyrannosaurus rex look like a munchkin.

At 76 tons (69 metric tons), the plant-eating behemoth was as heavy as a space shuttle.

The dinosaur's fossils were found in southern Argentina in 2012. Researchers who examined and dated them said the long-necked creature was the biggest of a group of large dinosaurs called titanosaurs.

"There was one small part of the family that went crazy on size," said Diego Pol of the Egidio Feruglio paleontology museum in Argentina, co-author of the study published Tuesday in the journal *Proceedings of the Royal Society B*.

The researchers named the dinosaur Patagotitan mayorum after the Patagonia region where it was found and the Greek word titan, which means large. The second name honors a ranch family that hosted the researchers.

Six fossils of the species were studied and dated to about 100 million years ago, based on ash found around them, Pol said. The dinosaur averaged 122 feet long (37 meters) and was nearly 20 feet high (6 meters) at the shoulder.

A cast of the dinosaur's skeleton is already on display at the American Museum of Natural History. It's so big that the dinosaur's head sticks out into a hallway at the New York museum .



Reconstruction of the dinosaur Patagotitan mayorum. Credit: Museum of Paleontology / Egidio Feruglio

Legendary T. rex and other meat-eaters "look like dwarfs when you put them against one of these giant titanosaurs," Pol said. "It's like when you put an elephant by a lion."

Scientists have known titanosaurs for a while, but this is a new species and even a new genus, which is a larger grouping, Pol said. Another titanosaur called Argentinosaurus was previously thought to be the largest.

"I don't think they were scary at all," Pol said. "They were probably massive big slow-moving animals."

"Getting up. Walking around. Trying to run. It's

really challenging for large animals," he said.

The big question is how did these dinosaurs get so big, Pol said. Researchers are still studying it, but said it probably has to do with an explosion of flowering plants at the time. Along with a forest, it was like an all-you-can-eat buffet for these dinosaurs and they just got bigger.

"It's hard to argue this isn't a big deal when it concerns the (probable) largest land animal ever discovered," University of Maryland paleontologist Thomas Holtz, who wasn't part of the study, said in an email.

Kristi Curry Rodgers, a paleontologist at Macalester College who wasn't part of the study, praised the work as important. She said the fact that Patagotitan's bones show signs that they haven't completed their growth "means that there are even bigger [dinosaurs](#) out there to discover."

**More information:** A new giant titanosaur sheds light on body mass evolution amongst sauropod dinosaurs, *Proceedings of the Royal Society B*, [rspb.royalsocietypublishing.org ... .1098/rspb.2017.1219](https://royalsocietypublishing.org/doi/10.1098/rspb.2017.1219)

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