

Paleontologists report world's biggest *Tyrannosaurus rex*

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The towering and battle-scarred 'Scotty' reported by UAlberta paleontologists is the world's largest *Tyrannosaurus rex* and the largest dinosaur skeleton ever found in Canada. Credit: Amanda Kelley

University of Alberta paleontologists have just reported the world's

biggest *Tyrannosaurus rex* and the largest dinosaur skeleton ever found in Canada. The 13-metre-long *T. rex*, nicknamed "Scotty," lived in prehistoric Saskatchewan 66 million years ago.

"This is the rex of rexes," said Scott Persons, lead author of the study and postdoctoral researcher in the Department of Biological Sciences. "There is considerable size variability among *Tyrannosaurus*. Some individuals were lankier than others and some were more robust. Scotty exemplifies the robust. Take careful measurements of its legs, hips, and even shoulder, and Scotty comes out a bit heftier than other *T. rex* specimens."

Scotty, nicknamed for a celebratory bottle of scotch the night it was discovered, has [leg bones](#) suggesting a living weight of more than 8,800 kg, making it bigger than all other [carnivorous dinosaurs](#). The scientific work on Scotty has been a correspondingly massive project.

The [skeleton](#) was first discovered in 1991, when paleontologists including *T. rex* expert and UAlberta professor Phil Currie were called in on the project. But the hard sandstone that encased the bones took more than a decade to remove—only now have scientists been able to study Scotty fully-assembled and realize how unique a dinosaur it is.

It is not just Scotty's size and weight that set it apart. The Canadian mega rex also lays claim to seniority.

"Scotty is the oldest *T. rex* known," Persons explains. "By which I mean, it would have had the most candles on its last birthday cake. You can get an idea of how old a dinosaur is by cutting into its bones and studying its growth patterns. Scotty is all old growth."

But age is relative, and *T. rexes* grew fast and died young. Scotty was estimated to have only been in its early 30s when it died.

"By Tyrannosaurus standards, it had an unusually [long life](#). And it was a violent one," Persons said. "Riddled across the skeleton are pathologies—spots where scarred [bone](#) records large injuries."

Among Scotty's injuries are broken ribs, an infected jaw, and what may be a bite from another *T. rex* on its tail—battle scars from a long life.

"I think there will always be bigger discoveries to be made," said Persons. "But as of right now, this particular Tyrannosaurus is the largest terrestrial predator known to science."

A new exhibit featuring the skeleton of Scotty is set to open at the Royal Saskatchewan Museum in May 2019.

More information: W. Scott Persons et al, An Older and Exceptionally Large Adult Specimen of *Tyrannosaurus rex*, *The Anatomical Record* (2019). [DOI: 10.1002/ar.24118](https://doi.org/10.1002/ar.24118)

Provided by University of Alberta

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