

Amaze the mouse species immune to the scorpion's horrible venom

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The **Arizona scorpion** possesses a very strong venom, and their stings cause terrible pain that lasts for hours that can even lead to death for victims. Therefore, even predators always seek to avoid the scary tail of this scorpion species.



But there is a species that is not afraid, even consider this scary scorpion to be one of his favorite foods. It is the mouse *Onychomys*, a mammal in the Cricetidae family, belonging to the Rodent. They were discovered in 1874 and often live in Mexico, Arizona, New Mexico, Nevada, Utah and the United States.

The reason why these rats are immune to scorpion toxins is that they possess two sodium proteins Nav1.7 and Nav1.8. These are substances found in pain-sensing cells and are capable of transmitting many other sensitive proteins to harmful chemicals, abnormal temperatures, and large mechanical pressures.



When these sensory proteins transfer signals to Nav1.7 and Nav1.8, they react and change the structure and are transmitted to the cells. Pain-sensing cells produce nerve impulses, which travel along the fibers into the spinal cord. Then the signals are transferred to sensory and brain neurons. Here, the signals will be interpreted as pain.

But in *Onychomys* mice, when scorpion venom enters the body, it reacts to the protein Nav1.8, preventing pain signals from reaching the brain.

Perhaps this *Onychomys* mouse has evolved to be able to resist venom, making it possible to hunt venom animals.

In the video, the *Onychomys* rat licks its feet before attacking, killing and eating the scorpion. The first part, they handle the tail is the scorpion venom.

Many other poisonous animals also become prey to *Onychomys* mice.

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