



## Venomous: How Earth's Deadliest Creatures Mastered Biochemistry

Christie Wilcox

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#### A thrilling tale of encounters with nature's masters of biochemistry

From the coasts of Indonesia to the rainforests of Peru, venomous animals are everywhere? and often lurking out of sight. Humans have feared them for centuries, long considering them the assassins and pariahs of the natural world.

Now, in *Venomous*, the biologist Christie Wilcox investigates and illuminates the animals of our nightmares, arguing that they hold the keys to a deeper understanding of evolution, adaptation, and immunity. She reveals just how venoms function and what they do to the human body. With Wilcox as our guide, we encounter a jellyfish with tentacles covered in stinging cells that can kill humans in minutes; a two-inch caterpillar with toxic bristles that trigger hemorrhaging; and a stunning blue-ringed octopus capable of inducing total paralysis. How do these animals go about their deadly work? How did they develop such intricate, potent toxins? Wilcox takes us around the world and down to the cellular level to find out.

Throughout her journey, Wilcox meets the intrepid scientists who risk their lives studying these lethal beasts, as well as "self-immunizers" who deliberately expose themselves to snakebites. Along the way, she puts her own life on the line, narrowly avoiding being envenomated herself. Drawing on her own research, Wilcox explains how venom scientists are untangling the mechanisms of some of our most devastating diseases, and reports on pharmacologists who are already exploiting venoms to produce lifesaving drugs. We discover that venomous creatures are in fact keystone species that play crucial roles in their ecosystems and ours?and for this alone, they ought to be protected and appreciated.

Thrilling and surprising at every turn, *Venomous* will change everything you thought you knew about the planet's most dangerous animals.

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