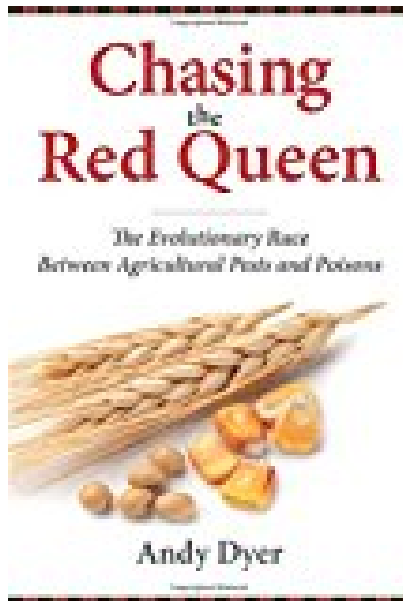


Chasing the Red Queen The Evolutionary Race Between Agricultural Pests and Poisons



BOOK DETAILS

- Author : Dr. Andy Dyer
- Pages : 240 Pages
- Publisher : Island Press
- Language : English
- ISBN : 1610915194

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BOOK SYNOPSIS

In the race to feed the world's seven billion people, we are at a standstill. Over the past century, we have developed increasingly potent and sophisticated pesticides, yet in 2014, the average percentage of U.S. crops lost to agricultural pests was no less than in 1944. To use a metaphor the field of evolutionary biology borrowed from Alice in Wonderland, farmers must run ever faster to stay in the same place— i.e., produce the same yields. With *Chasing the Red Queen*, Andy Dyer offers the first book to apply the Red Queen Hypothesis to agriculture. He illustrates that when selection pressure increases, species evolve in response, creating a never-ending, perpetually-escalating competition between predator (us) and prey (bugs and weeds). The result is farmers are caught in a vicious cycle of chemical dependence, stuck using increasingly dangerous and expensive toxics to beat back progressively resistant pests. To break the cycle, we must learn the science behind it. Dyer examines one of the world's most pressing problems as a biological case study. He presents key concepts, from Darwin's principles of natural selection to genetic variation and adaptive phenotypes. Understanding the fundamentals of ecology and biology is the first step to "playing the Red Queen," and escaping her unwinnable race. The book's novel frame will help students, researchers, and policy-makers alike apply that knowledge to the critical task of achieving food security.

CHASING THE RED QUEEN THE EVOLUTIONARY RACE BETWEEN

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