



Chasing the Red Queen: The Coevolution of Pests and Poisons

By Andy Dyer

Island Press. Paperback. Book Condition: new. BRAND NEW, Chasing the Red Queen: The Coevolution of Pests and Poisons, Andy Dyer, This book presents key concepts for students to understand chemical resistance in agriculture and apply that knowledge to achieving global food security. 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. 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...



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