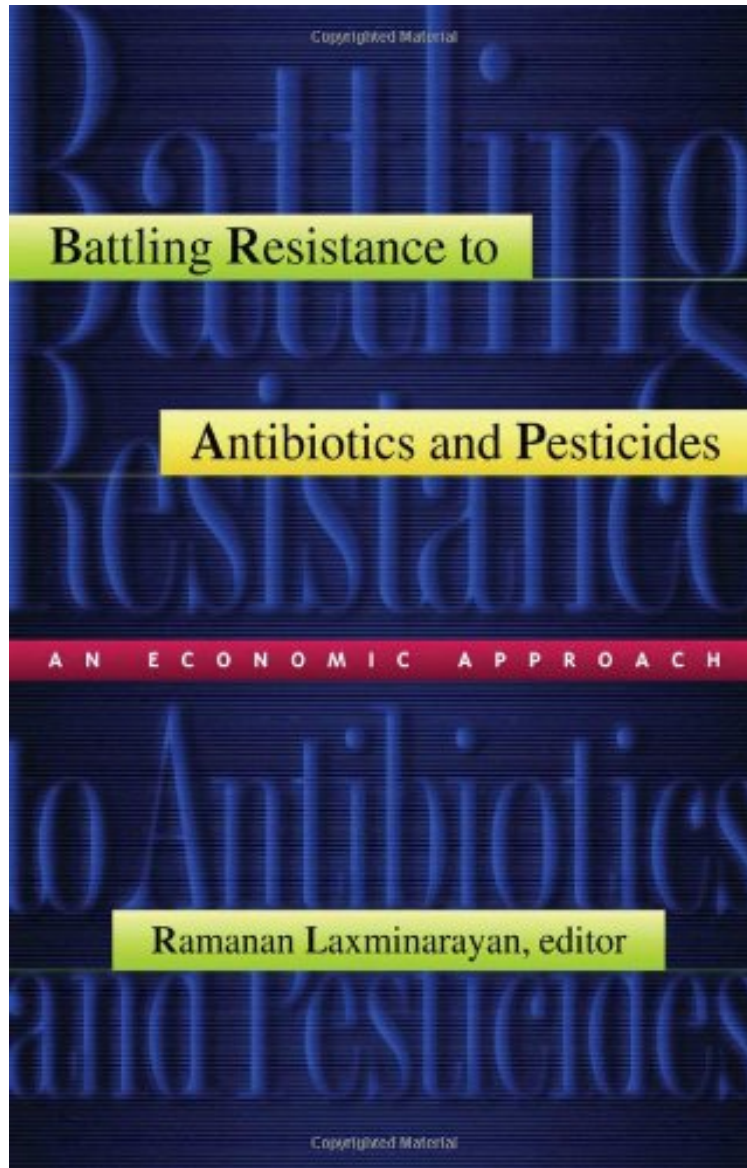


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The increasing resistance of bacteria to antibiotics, and pests to pesticides, threatens to undo some of the most remarkable advances made in public health and agriculture during the past century. Though the potential consequences of increased antibiotic and pesticide resistance are far reaching, regulatory efforts to address the problem are at a very early stage. *Battling Resistance to Antibiotics and Pesticides* moves such discussions forward by presenting cutting edge research and the first comprehensive application of economic tools to analyze how antibiotics and pesticides should be used to maximize their value to society. Laxminarayan and his contributors explore lessons from past experiences with resistance, especially in agriculture. They consider what incentives would be ideal for the individuals who prescribe or apply antibiotics and pesticides, and what would be ideal for the firms engaged in developing and producing these products. The chapters in this groundbreaking book reflect the fact that efforts to combat resistance will require contributions from a broad range of scholars and professionals, representing a broad range of expertise. The analysis demonstrates that, for all these participants, an understanding of economic issues is an essential complement to knowledge of medical or biological factors. The book provides economists with an overview of relevant scientific issues, as well as a variety of analytical approaches to studying the economics of resistance. It offers policymakers detailed analyses of the multiple dimensions of resistance and discusses the future strategies to combat and manage resistance. For professionals in medicine, public health, and agriculture, the book translates the economic approaches into usable guidance for daily practice and decisionmaking.

'...a welcome addition to the small existing literature on the effects of antibiotic and pesticide resistance. It provides a good review of both the analytical tools used to study the effects of resistance, as well as of the economic policy measures that might be available to fight resistance to antibiotics and pesticides.' *Environment International*

'Interesting and diverse, the contents reflect the beginnings of an economics of resistance that is likely to grow in importance.' Marc Lipsitch, Harvard School of Public Health

"Focuses on an issue of pressing social importance..The chapters will be of interest in resource, environmental, and agricultural economics. The discussion will have an audience with scholars and professionals in the biological and health sciences." -- Eric Van Dusen, Economics Research Service, U.S. Department of Agriculture

About the Author Ramanan is a senior fellow at Resources for the Future in Washington, DC. His research includes the integration of epidemiological models of infectious disease transmission and the economic analysis of public health problems. He has worked with the World Health Organization on evaluating malaria treatment policy in Africa, and recently served on a National Academy of Science/Institute of Medicine Committee on the Economics of Anti-malarial Drugs. He teaches international health policy in the Johns Hopkins Bloomberg School of Public Health, and development economics at the Johns Hopkins University's Paul H. Nitze School of Advanced International Studies.