



One Health: People, Animals, and the Environment

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Emerging infectious diseases are often due to environmental disruption, which exposes microbes to a different niche that selects for new virulence traits and facilitates transmission between animals and humans. Thus, health of humans also depends upon health of animals and the environment a concept called *One Health*. This book presents core concepts, compelling evidence, successful applications, and remaining challenges of *One Health* approaches to thwarting the threat of emerging infectious disease.

Written by scientists working in the field, this book will provide a series of "stories" about how disruption of the environment and transmission from animal hosts is responsible for emerging human and animal diseases.

- Explains the concept of *One Health* and the history of the *One Health* paradigm shift .
- Traces the emergence of devastating new diseases in both animals and humans.
- Presents case histories of notable, new zoonoses, including West Nile virus, hantavirus, Lyme disease, SARS, and salmonella.
- Links several epidemic zoonoses with the environmental factors that promote them.
- Offers insight into the mechanisms of microbial evolution toward pathogenicity.
- Discusses the many causes behind the emergence of antibiotic resistance.
- Presents new technologies and approaches for public health disease surveillance.
- Offers political and bureaucratic strategies for promoting the global acceptance of *One Health*.

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