



Forest Pathology: From Genes to Landscapes

John E. Lundquist

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As ecological threats to forest health and sustainability intensify and new threats emerge, forest pathology plays an increasingly important role. *Forest Pathology: From Genes to Landscapes* presents a comprehensive treatment of emerging topics in forest health, providing clarity about these issues and the unique challenges they present.

This book offers reviews on both basic and applied research and covers in depth topics including, genomics, molecular epidemiology, bark beetle/disease interactions, ecosystem pathology, pathogenesis, blue stain, development of transgenic hosts, operational disease resistance strategies, non-timber impacts, spatial analysis of diseased landscapes, and landscape pathology. It clearly illustrates how forest pathology is not just about controlling tree diseases, but has taken on many new dimensions, cutting across many disciplines.

Many forest pathologists wear more than one hat they are molecular biologists, spatial statisticians, geographic information specialists, remote sensing experts, and more. What unifies them is that they study the interactions of small, rapidly developing microorganisms within big, spatially heterogeneous, slow-developing forests. Spanning these vast scales makes forest pathology unique.

This book will be of use for forest pathology scientists and professionals, forest managers and ecologists, molecular biologists and geneticists, and landscape ecologists. It may be used by researchers as a guide to previous work, by extension agents as a source of the most recent information, and by managers as a vehicle for applying the most appropriate science. It is also an excellent teaching resource for courses in forest pathology and entomology, forest and shade tree pathology, forest ecology, disturbance ecology, landscape ecology, forest health, conservation biology, and molecular epidemiology.

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