



# Viral Pathogenesis, Third Edition: From Basics to Systems Biology

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*Viral Pathogenesis: From Basics to Systems Biology, Third Edition*, has been thoroughly updated to cover topical advances in the evolving field of viral pathogenesis, while also providing the requisite classic foundational information for which it is recognized.

The book provides key coverage of the newfound ability to profile molecular events on a system-wide scale, which has led to a deeper understanding of virus-host interactions, host signaling and molecular-interaction networks, and the role of host genetics in determining disease outcome.

In addition, the content has been augmented with short chapters on seminal breakthroughs and profiles of their progenitors, as well as short commentaries on important or controversial issues in the field. Thus, the reader will be given a view of virology research with perspectives on issues such as biomedical ethics, public health policy, and human health. In summary, the third edition will give the student a sense of the exciting new perspectives on viral pathogenesis that have been provided by recent developments in genomics, computation, modeling, and systems biology.

- Covers all aspects of viral infection, including viral entry, replication, and release, as well as innate and adaptive immunity and viral pathogenesis
- Provides a fresh perspective on the approaches used to understand how viruses cause disease
- Features molecular profiling techniques, whole genome sequencing, and innovative computational methods
- Highlights the use of contemporary approaches and the insights they provide to the field

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### **Editorial Review**

#### **About the Author**

Dr. Katze is Professor of Microbiology at the University of Washington and Associate Director for Molecular Sciences and Core Staff Scientist at the Washington National Primate Research Center. He has studied virus-host interactions for 35 years and is an international leader in applying systems biology approaches to infectious disease research. He is an author of over 300 papers and reviews, the majority of which are related to the use of high-throughput and computational methods. He has received the Milstein Award from the International Society of Interferon and Cytokine Research, the Dozor Scholar Award from the Israeli Microbiology Society, and is a Fellow of the American Academy of Microbiology.

Dr. Korth is a Senior Research Scientist in the Department of Microbiology at the University of Washington. He specializes in technical and medical writing and the effective communication of scientific concepts in grants, contracts, and the professional literature. He is a member of the American Medical Writers Association and holds a BA in psychology from the University of Wisconsin-Eau Claire, a BS in microbiology and BSMT in medical technology from the University of Montana, and a PhD in microbiology from the University of Washington. His research interests are in the use of systems biology approaches to study viral pathogenesis.

Dr. Law is a Senior Research Scientist in the Department of Microbiology at the University of Washington. Her research interests are in the use of high-throughput and computational approaches to study virus-host interactions. She has managed several large programs that utilize different animal models, high-throughput technologies such as microarray and RNS-seq assays, and computational approaches to define the host response to a variety of viruses including influenza, SARS, MERS, and SIV. The overarching goal of these studies is to identify host targets for therapeutic interventions. She holds a BA in chemistry from the University of Colorado and a PhD in biochemistry from Washington State University.

Neal Nathanson is emeritus Professor of Microbiology at the University of Pennsylvania. He has spent most of his 50-year career working on the pathogenesis of a wide variety of viral infections, using animal models to investigate the viral and host determinants of disease. He edited the prior two editions of *Viral Pathogenesis*.

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