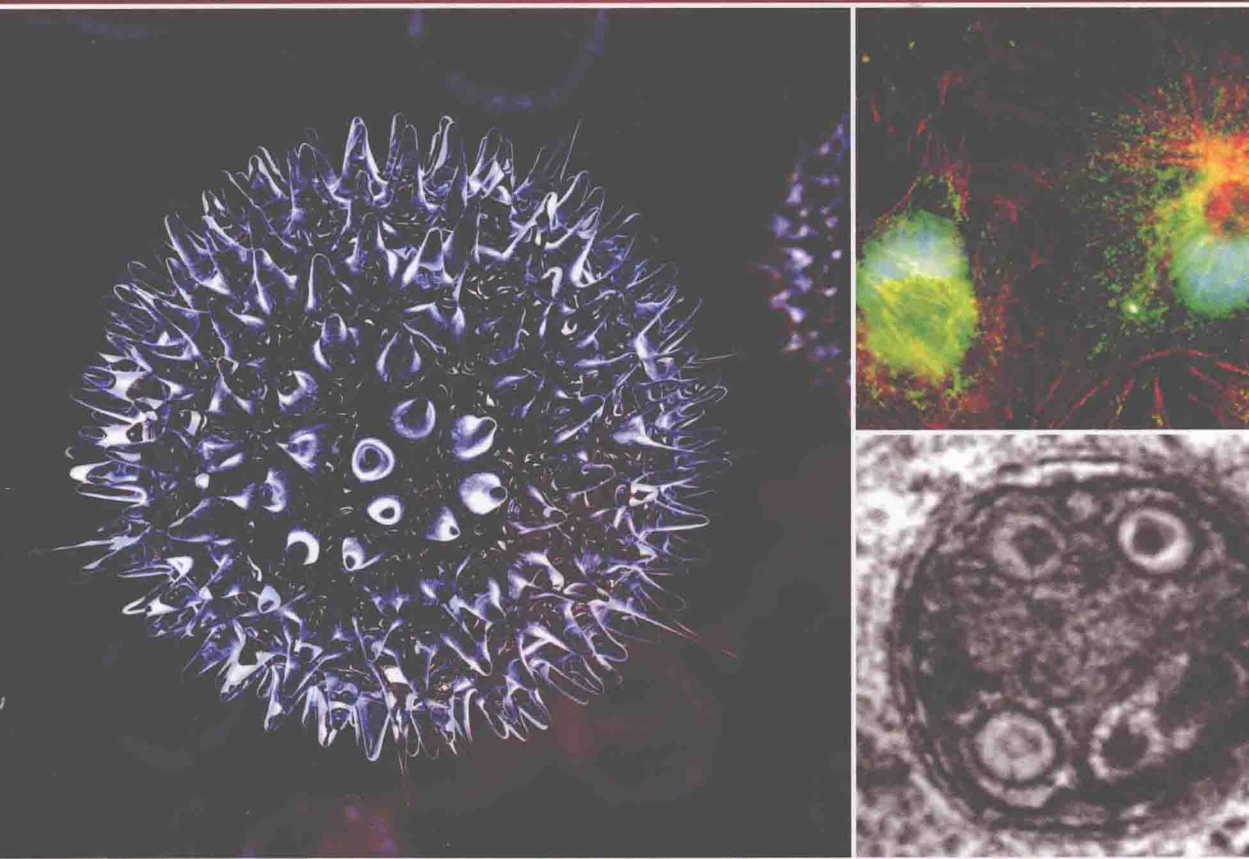


AUTOPHAGY, INFECTION, AND THE IMMUNE RESPONSE

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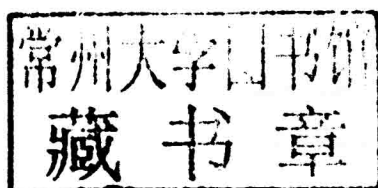


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William T. Jackson and Michele S. Swanson



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PREFACE

Since the discovery nearly 20 years ago that pathogenic bacteria and viruses intimately associate with autophagosomal membranes, scientists have determined that autophagy is a critical component of innate and acquired immunity. Of course, as with all aspects of the host immune response, some pathogens have turned autophagy to their advantage. For this volume, experts in the fields of bacteriology, virology, mycology, parasitology, immunology, and cell biology describe the cellular mechanisms of autophagosome formation and maturation, its contribution to host defenses, and the mechanisms pathogenic microbes have acquired to overcome and subvert this formidable barrier to infection. In addition, specialists discuss current efforts to exploit knowledge of the autophagy pathway to improve vaccine design. Accordingly, this thorough examination of an extraordinary cellular battleground between host and pathogen can stimulate ongoing research to understand and to manipulate autophagy to improve human health.

William T. Jackson
Michele S. Swanson

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William T. Jackson
Michele S. Swanson

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