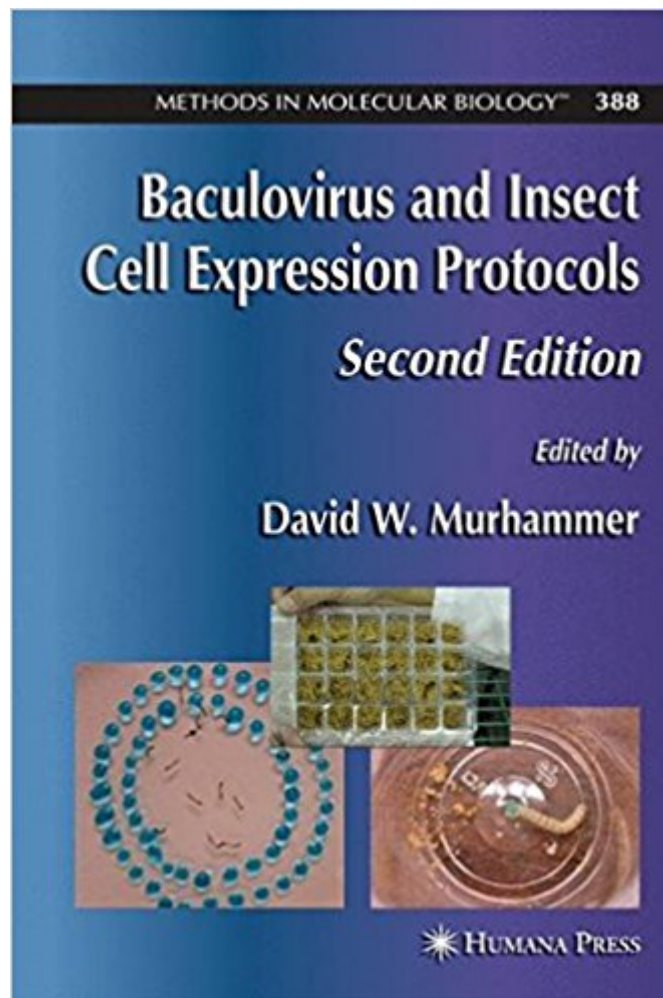




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Baculovirus And Insect Cell Expression Protocols (Methods In Molecular Biology)



Synopsis

Baculovirus Expression Protocols, Second Edition, provides the detailed steps required to perform the techniques involved with the use of baculoviruses and insect cell culture and discusses problems that may be encountered. This newly-revised and updated edition provides a cutting edge step-by-step guide for biochemists, molecular biologists, biochemical engineers and others using the BEVS and/or insect cells for producing recombinant proteins. Furthermore, Baculovirus Expression Protocols, Second Edition, provides assistance to scientists and engineers interested in developing and producing baculovirus insecticides. Authors list all available insect cell lines and provide methods for isolating new cell lines. The procedures involved in producing products, both at laboratory scale and large scale, are discussed, as well as the production in insect larvae. It is hoped that this volume will not only aid the user in successfully completing the tasks described herein, but will also stimulate the development of improved techniques and new applications of baculoviruses and insect cell culture. Timely and thorough, this volume will become an essential reference for anyone using baculoviruses and insect cell culture.

Book Information

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The third edition of this volume expands upon the previous two editions with new and up-to-date methods and protocols. Chapters include step-by-step procedures involved in quantifying cell growth, baculovirus infection and cell metabolism, methods to isolate new cell

lines and develop your own serum-free medium, and routine maintenance and storage of insect cell lines and baculoviruses, small- and large-scale recombinant protein production with the BEVS in both insect and mammalian cell culture and in insect larvae, production and characterization of baculoviruses, green fluorescent protein, tubular reactors and RNAi, and baculovirus/insect cell system to study apoptosis and generating envelop-modified baculovirus for gene delivery into mammalian cells. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key tips on troubleshooting and avoiding known pitfalls.Â Â Authoritative and practical, Baculovirus and Insect Cell Expression Protocols, Third Edition aims to not only aid the user in successfully completing the tasks described, but also stimulate the development of improved techniques and new applications of baculoviruses and insect cell culture. --This text refers to the Paperback edition.

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