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Titolo	Insect cell cultures : fundamental and applied aspects // edited by J.M. Vlak ... [et al.]
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Edizione	[1st ed. 2002.]
Descrizione fisica	1 online resource (325 p.)
Collana	Current applications in cell culture engineering ; ; vol. 2
Altri autori (Persone)	VlakJ. M
Disciplina	660/.6
Soggetti	Insect cell biotechnology Insects - Viruses Insects - Cytology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Insect Cell Lines -- Development and characterization of insect cell lines -- New approaches to insect tissue culture -- Transgenic insect cells: mosquito cell mutants and the dihydrofolate reductase gene -- Insect cell physiology -- Insect cell cultivation: growth and kinetics -- Medium design for insect cell culture -- Viruses -- Baculovirus-insect cell interactions -- Replication patterns and cytopathology of cells infected with baculoviruses -- Construction of baculovirus recombinants -- Passage effect of virus infection in insect cells -- Post-translational modifications in insect cells -- Productivity of insect cells for recombinant proteins -- Chaperone and foldase coexpression in the baculovirus-insect cell expression system -- Engineering Aspects -- Shear sensitivity of insect cells -- Insect cell bioreactors -- Perfusion bioreactors for the production of recombinant proteins in insect cells -- Immobilization of insect cells -- Modelling baculovirus infection of insect cells in culture -- Scale up aspects of sparged insect-cell bioreactors -- Oxygen gradients in small and big sparged insect-cell bioreactors -- Downstream processing of insect cell cultures -- Applications -- Parvovirus diagnostics and vaccine production in insect cells -- Classical swine fever virus diagnostics and vaccine

production in insect cells -- Production of multidomain complement glycoproteins in insect cells -- Economic and Regulatory Aspects -- Economics of baculovirus-insect cell production systems -- Safety aspects of insect cell culture -- Regulatory issues in the use of insect-cell culture.

Sommario/riassunto

A comprehensive reference work covering the key issues in insect cell cultures, this text includes 30 review papers on such topics as: cell lines (development, characterisation, physiology, cultivation and medium design); viruses (virus-cell interactions, replication, recombinant construction, infection kinetics, post-translational modification and passage effects); engineering (shear, bioreactors including perfusion, immobilisation, scale-up and modelling, downstream processing); applications; and economics and regulatory aspects.; This text should be useful for cell biologists, biochemists, molecular biologists, virologists, immunologists and other basic and applied disciplines related to cell culture engineering, both academic and industrial.
