

Methods in
Molecular Biology 797

Springer Protocols

David H. Kirn
Ta-Chiang Liu
Stephen H. Thorne *Editors*



Oncolytic Viruses

Methods and Protocols

 Humana Press

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Sudhir Agrawal



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Oncolytic Viruses David H. Kirn, Ta-Chiang Liu, Stephen H. Thorne, 2011-09-27 Since the first report of an engineered oncolytic virus there has been a continuing and steady increase of interest in the field and while bench research remains vital for the translation of research in this field its success depends on breakthroughs in clinical studies *Oncolytic Viruses Methods and Protocols* describes the construction and purification of capsid modified adenoviruses as well as oncolytic adenoviruses presents protocols for many individual virus species including engineering and preparation of oncolytic HSV propagation purification and in vivo testing of oncolytic VSV details properties of oncolytic reovirus and NDV and describes the generation and testing of next generation of oncolytic vaccinia virus As the host immune system plays a critical role in determining efficacy of oncolytic viruses two chapters are devoted to the study of immune response Recent advances in stem cell research have led the field in two distinct directions the use of stem cells as carrier vehicles for oncolytic viruses and the targeting of cancer stem cells As such the volume describes the use of explant tissue samples from patients to potentially provide useful information predicting responses prior to clinical translation Written in the 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 protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and easily accessible *Oncolytic Viruses Methods and Protocols* seeks to serve both professionals and novices with its well honed methodologies in an effort to further our knowledge of this essential and vital field

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some are important sources for pharmaceuticals and others can help to elucidate molecular mechanisms required for a plant's development and its interactions with the biotic or abiotic environment. Functional genomics is vastly lagging behind the speed of genome sequencing as high throughput gene function assays are difficult to design specifically for non-model plants. Bioinformatics tools are useful for gene identification and annotation but are of limited value for predictions concerning gene functions as gene functions are uncovered best by experimental approaches. Virus Induced Gene Silencing (VIGS) is an easy to use fast and reliable method to achieve down regulation of target gene expression. Virus Induced Gene Silencing Methods and Protocols provides detailed protocols for VIGS experiments in several plant species including model and non-model plants. Also included in this book are recently developed protocols for VIGS derived microRNA production in the plant or protein over expression as well as chapters devoted to summarizing the molecular mechanisms of VIGS action and the vector systems developed so far. Written in the 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 protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, Virus Induced Gene Silencing Methods and Protocols serves as a valuable resource for researchers from diverse fields of plant biology interested in experimental approaches to analyzing gene functions.

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