



Insect Transgenesis: Methods and Applications

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Imagine scientists controlling the transmission of certain diseases through the genetic modification of mosquitoes. Eradicating harmful insects without the use of pesticides. Or increasing the fertility of some insects who in turn eat harmful arthropods or even a plant pathogen. Those are just a few of the real-world applications of insect transgenesis, which offers substantial benefits to humankind-whether it be in improving agricultural productivity or reducing the spread of insect-vectored diseases.

Insect Transgenesis: Methods and Applications is the first publication to describe in a comprehensive manner the various methodologies available, possible applications, and the risk assessment and regulatory issues involved in this fascinating area of research.

Divided into several areas of interest, the book starts with an overview of the history and methodology of insect gene transfer. The book then examines gene targeting by homologous recombination and recombination systems, and systems for transgenic selection, including visible eye color markers, chemical resistance, and fluorescent proteins. Other sections consider the use of various vector systems to integrate DNA into a host genome or to express foreign genes in a host organism.

The work concludes with strategies for the use of transgenic insects, including examples for agricultural pests and vectors of disease. Of particular interest are the final chapters that discuss risk assessment considerations and governmental regulatory procedures for the transport and release of transgenic insects.

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Editorial Review

Review

... covers a dynamic and diverse field of research activities ... provide[s] an extremely useful breadth and depth of information within one volume ... Insect Transgenesis: Methods and Applications is a welcome and highly recommended addition to the bookshelf of insect molecular biologists. ...brings together major contributors to present a wide-ranging overview of the history, approaches, methodologies and applications of insect transgenesis. ...The editors have done a fine job of allowing the authors enough freedom while still ensuring sufficient consistency for the chapters to form a coherent whole....cross-referencing between chapters is extremely good for such a multi-author text.

Peter F. Billingsley, Department of Zoology, University of Aberdeen, Scotland

... a highly technical and scholarly treatise of the state of the art and science of one of the daughter fields of modern genetics ... for a complete and focused discussion of the techniques and applications of genetically manipulated insects, this reviewer strongly recommends Insect Transgenesis.

-Abelardo C. Moncayo, Ph.D., University of Texas Medical Branch, Galveston, USA in Annals of the Entomological Society of America

Users Review

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Dennis Ramirez:

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