

# Genetic Engineering

Volume 27

Principles and Methods

**Jane K. Setlow, PhD**

Brookhaven National Laboratory, Upton, NY, USA

## About the Series:

*Genetic Engineering: Principles and Methods* presents state-of-the-art discussions in modern genetics and genetic engineering. Recent volumes have covered gene therapy research, genetic mapping, plant science and technology, transport protein biochemistry, and viral vectors in gene therapy, among many other topics.

## Volume Key Features:

*Genetic Engineering: Principles and Methods*, Volume 27 contains discussions of contemporary and relevant topics in genetics, including:

- Identification and Analysis of MicroRNAs
- Dormancy and the Cell Cycle
- Long distance Peptide and Metal Transport in Plants
- Signaling in Plant Response to Temperature and Water Stresses
- Nutrient Transport and Metabolism in Plants
- Salt Stress Signaling and Mechanisms of Plant Salt Tolerance
- Gene Cloning and Expression
- Assisted Folding and Assembly of Proteins

This principles and methods approach to genetics and genetic engineering is essential reading for all academics, bench scientists, and industry professionals wishing to take advantage of the latest and greatest in this continuously emerging field.

## About the Editor:

**Jane K. Setlow, PhD**, has championed the field of genetics for over 30 years, agreeing to edit *Genetic Engineering: Principles & Methods* since its inception in 1979. An internationally recognized scientist with numerous publications, Dr. Setlow is the former President of the Biophysical Society and the former Chairperson of the NIH Recombinant DNA Molecule Advisory Committee (RAC). Her lab can found at Brookhaven National Laboratory, Upton, New York.

 Springer

[springer.com](http://springer.com)

