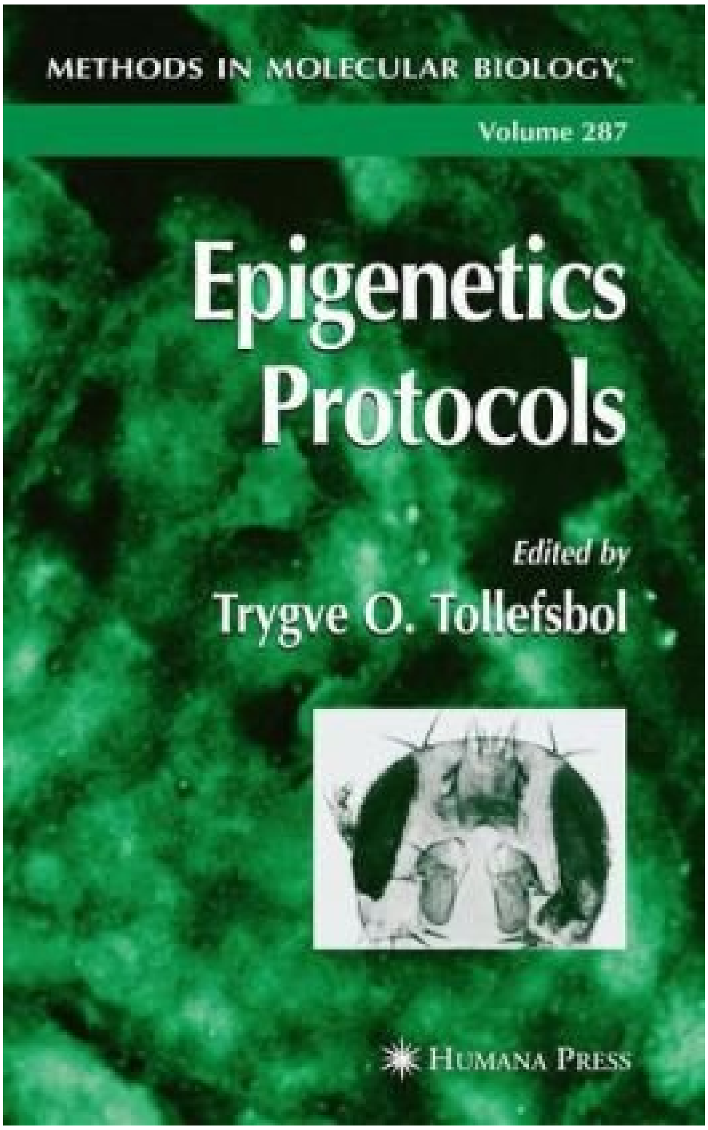
Epigenetics Protocols



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出版者:Humana Pr Inc

出版时间:2004-7

装帧:HRD

isbn:9781588293367

A collection of state-of-the-art methods for epigenetic analysis, including recent breakthrough techniques that have great potential in the rapidly expanding field of non-Mendelian genetics. The authors provide techniques for the analysis of chromatin remodeling, such as histone acetylation and methylation. In addition, methods in newly developed and especially promising areas of epigenetics, such as telomere position effects, quantitative epigenetics, and ADP ribosylation are covered. There is also an updated analysis of techniques involving DNA methylation and its role in the modification, as well as the maintenance, of chromatin structure. Of special interest are potentially revolutionary techniques. These include methods for determining changes in native chromatin, methods of microarray analysis applied to epigenetics, and methylation-sensitive single-strand conformation techniques. The methods are suitable not only for studying fundamental biological processes, but also for investigating possible therapeutic interventions and such diseases as cancer.

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目录:

标签

评论

书评
