BioTechniques Focus

Epigenetics

A Changing Perspective

Epigenetics research has changed the way we look at gene expression and inheritance. Scientists have discovered that heritable changes in DNA through epigenetic marks and histone modifications play important roles in many biological processes—not to mention, problems with these marks have been linked to human disease. Methods to analyze epigenetic markings are advancing quickly as researchers develop new tools to better understand their effects on cellular processes. In *BioTechniques Focus: Epigenetics*, a series of articles examines the latest techniques and methods for DNA methylation analysis. It is our hope that with these articles, readers will gain better insights into the process of DNA methylation, how it is currently studied, and where these studies might lead in the future.

BioTechniques 49:i (*BioTechniques Focus: Epigenetics* October 2010)
doi 10.2144/000113521

INTRODUCTION

- i **A Changing Perspective**
The Editors, BioTechniques
doi 10.2144/000113521

REVIEW

- iii **Advances in genome-wide DNA methylation analysis**
Romi Gupta, Arvindhan Nagarajan, and Narendra Wajapeyee
doi 10.2144/000113493

REPORT

- xiii **Sensitive measurement of unmethylated repeat DNA sequences by end-specific PCR**
Keith N. Rand and Peter L. Molloy
doi 10.2144/000113494