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DNA Methylation and Complex Human Disease

Michel Neidhart

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DNA Methylation and Complex Human Disease reviews the possibilities of methyl-group-based epigenetic biomarkers of major diseases, tailored epigenetic therapies, and the future uses of high-throughput methylome technologies.

This volume includes many pertinent advances in disease-bearing research, including obesity, type II diabetes, schizophrenia, and autoimmunity. DNA methylation is also discussed as a plasma and serum test for non-invasive screening, diagnostic and prognostic tests, as compared to biopsy-driven gene expression analysis, factors which have led to the use of DNA methylation as a potential tool for determining cancer risk, and diagnosis between benign and malignant disease.

Therapies are at the heart of this volume and the possibilities of DNA demethylation. In cancer, unlike genetic mutations, DNA methylation and histone modifications are reversible and thus have shown great potential in the race for effective treatments. In addition, the authors present the importance of high-throughput methylome analysis, not only in cancer, but also in non-neoplastic diseases such as rheumatoid arthritis.

- Discusses breaking biomarker research in major disease families of current health concern and research interest, including obesity, type II diabetes, schizophrenia, and autoimmunity
- Summarizes advances not only relevant to cancer, but also in non-neoplastic disease, currently an emerging field
- Describes wholly new concepts, including the linking of metabolic pathways with epigenetics
- Provides translational researchers with the knowledge of both basic research and clinic applications of DNA methylation in human diseases

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