

Epigenomics In Health And Disease

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Description. Epigenomics in Health and Disease discusses the next generation sequencing technologies shaping our current knowledge with regards to the role of epigenetics in normal development, aging, and disease. It includes the consequences for diagnostics, prognostics, and disease-based therapies made possible by the study of the complete set of epigenetic modifications to the genetic material of human cells.

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Epigenetic mechanisms, such as postranslational modifications of chromatin (DNA and histones), play pivotal roles in development, cell differentiation and cell identity. Inappropriate regulation of epigenetic mechanisms has been implicated in common human diseases. Moreover, there has been a recent explosion of activity in the fields of RNA epigenetics and non-coding RNAs, which have become integral parts of the field of gene expression.

Epigenetics and Epigenomics in Health and Disease ...

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Environmental Epigenomics in Health and Disease ...

Interaction, Frontiers in Epigenomics, and other journals. As principal investigator in the university's Plant Biotechnology laboratory, he studies genetic and epigenetic regulation of plant response to stress, including ... health and disease. epigenetics ((...

Epigenetics in Health and Disease

Environmental Epigenomics in Health and Disease: Epigenetics and Complex Diseases Epigenetics and Human Health: Amazon.co.uk: Randy L. Jirtle, Frederick L. Tyson: Books

Environmental Epigenomics in Health and Disease ...

Investigating the effects of the environment on the epigenetic regulation of biological processes and disease susceptibility is a goal in the NIEHS 2012-2017 Strategic Plan.. NIEHS is currently supporting epigenetics research that is accelerating the understanding of human biology and the role of the environment in disease.

Epigenetics - National Institute of Environmental Health ...

Understand how the field of epigenomics is currently applied in the diagnosis, treatment and monitoring of certain cancers, for example prostate cancer. Compare and contrast the different genomic technologies and bioinformatics techniques used to interrogate the epigenome in the context of human health and disease.

Epigenetics in Human Health and Diseases - Genomics ...

Environmental Epigenomics in Health and Disease: Epigenetics and Disease Origins (Epigenetics and Human Health) eBook: Jirtle, Randy L, Tyson, Frederick L.: Amazon.co.uk: Kindle Store

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