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Epigenetic Regulation in the Nervous System addresses current understanding of the roles of epigenetic processes at the molecular/cellular level, their impact on neural development and behavior, and the potential roles of these mechanisms in neurological and psychiatric disorders. This award-winning volume spans molecular epigenetics, development, cellular physiology and

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Epigenetic Regulation in the Nervous System: Basic Mechanisms and Clinical Impact: Amazon.co.uk: J. David Sweatt: Books

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With regard to the nervous system, epigenetic alterations play a role in a diverse set of processes and have been implicated in a variety of disorders. Gaining a more complete understanding of the essential components and underlying mechanisms involved in epigenetic regulation could lead to novel treatments for a number of neurological and psychiatric conditions.

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~~Epigenetic modifications in the nervous system and their ...~~

Epigenetic Regulation in the Nervous System addresses current understanding of the roles of epigenetic processes at the molecular/cellular level, their impact on neural development and behavior, and the potential roles of these mechanisms in neurological and psychiatric disorders. This award-winning volume spans molecular epigenetics ...

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~~Epigenetic Regulation in the Nervous System: Basic ...~~

Genetic and epigenetic editing in nervous system Jeremy J. Day, PhD Numerous neuronal functions depend on the precise spatiotemporal regulation of gene expression, and the cellular machinery that contributes to this regulation is frequently disrupted in neurodevelopmental, neuropsychiatric, and neurological disease states.

~~Genetic and epigenetic editing in nervous system~~

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~~Epigenetic Impact~~ Epigenetic factors and processes are, not surprisingly, implicated in nervous system disease pathophysiology through several emerging paradigms – mutations and genetic variation in genes encoding epigenetic factors; impairments in epigenetic factor expression, localization, and function; epigenetic mechanisms modulating disease-associated factors and pathways; and the presence of deregulated epigenetic profiles in central and peripheral tissues.

~~Epigenetic mechanisms underlying nervous system diseases~~

Other epigenetic regulators include noncoding RNAs (ncRNAs). These regulators allow for differential gene expression in diverse tissues despite all cells having the same genomic DNA sequence. Working synergistically, they control chromatin compaction and play crucial roles in embryogenesis, X-chromosome inactivation,

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Clinical Impact and imprinting, and are important in the development and homeostasis of the nervous system.

~~Epigenetic regulation~~ | Neurology

Epigenetic Regulation It has been over 30 years since DNA methylation was first postulated to be a heritable modification capable of influencing gene expression 35,70 . The addition of a methyl-group to the cytosine base does not change the primary DNA sequence and is therefore considered to be an epigenetic modification, literally meaning to act "on top of" or "in addition" to genetics.

~~Epigenetic Regulation~~

Epigenetic Regulation in the Nervous System addresses current

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~~Understanding of the roles of epigenetic processes at the molecular/cellular level, their impact on neural development and behavior, and the potential roles of these mechanisms in neurological and psychiatric disorders. This award-winning volume spans molecular epigenetics, development, cellular physiology and biochemistry, synaptic ...~~

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Neuroepigenetics is a newly emerging field in neurobiology that addresses the epigenetic mechanism of gene expression regulation in various postmitotic neurons, both over time and in response to environmental stimuli.

~~The Role of Epigenetic Mechanisms in the Regulation of ...~~

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~~Clinical Impact~~ Epigenetic Regulation. Epigenetic regulation affects long-term potentiation (LTP), which is a long-lasting enhancement of signal transmission between two neurons and represents a physiological form of synaptic plasticity underlying learning and memory formation. From: Epigenetics in Psychiatry, 2014. Related terms: Autism Spectrum Disorders

~~Epigenetic Regulation — an overview | ScienceDirect Topics~~

We investigated whether epigenetic mechanisms regulate chronic stress-induced visceral pain in the peripheral nervous systems of rats. **METHODS:** Male rats were subjected to 1 hour of water avoidance stress each day, or given daily subcutaneous injections of corticosterone, for 10 consecutive days.

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