Nuclear Architecture and Dynamics

Volume 2

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Nuclear Architecture and Dynamics provides a definitive resource for biophysicists, molecular and cellular biologists whose research involves a deep understanding of the organization of the genome and the mechanisms that pertain to its proper reading, maintenance, and replication by the cell. This book brings together the biochemical and physical characteristics of genome organization, providing a relevant framework in which to interpret the control of gene expression and cell differentiation.

A group of international experts, including biologists, physicists, mathematicians, and bioinformaticians offer thorough discussion of foundational aspects of the nuclear dynamics and architecture field, as well as current developments, fresh perspectives, and their relevance to nuclear function and physiological processes.

Key Features

- Highlights the link between the biochemistry and the biophysics of chromatin
- Deciphers the complex interplay between numerous biochemical factors at task in the nucleus and the physical state of chromatin
- Provides a collective view of the field by a large, diverse group of authors with both physics and biology backgrounds

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