

1. Record Nr.	UNINA9910811730503321
Titolo	New developments in chromatin research [[electronic resource] /] / Neil M. Simpson and Valerie J. Stewart, editors
Pubbl/distr/stampa	New York, : Nova Science Publishers, 2012
ISBN	1-62081-832-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (249 p.)
Collana	Genetics--research and issues Cell biology research progress
Altri autori (Persone)	SimpsonNeil M StewartValerie J
Disciplina	572.8/7
Soggetti	Chromatin - Research - Methodology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Nova biomedical.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Library of Congress Cataloging-in-Publication Data -- Contents -- Preface -- The Varied Functions of Aurora Kinases A and B in Mitosis and Carcinogenesis -- Abstract -- Introduction -- Aurora A Kinase -- Aurora A Localization -- Regulation of Aurora A Protein Levels -- Aurora A Mitotic Functions -- Aurora A Functions in Mitotic Entry and Centrosomal Regulation -- Aurora A Functions in Spindle Assembly -- Regulation of Aurora A Activity -- Aurora A and Cancer -- Aurora B Kinase -- Aurora B Localization -- Regulation of Aurora B Levels -- Regulation of Aurora B Activity -- Aurora B Mitotic Functions -- Aurora B Functions in Chromosome Structure and Alignment -- Aurora B Functions in Chromosome Segregation and Anaphase Onset -- Aurora B Functions in Cytokinesis -- Aurora B and Cancer -- Perspectives - Is there a Signaling Cross-Talk between Aurora A and Aurora B? -- Acknowledgments -- References -- Chromatin Structure and Epigenetics -- Abstract -- 1. Introduction -- 2. Chromatin Structure and Nucleosome Dynamics -- 2.1. DNA Structure and Chromatin Fibers -- 2.2. Nucleosome Positioning -- 2.3. Nucleosome Dynamics and Gene Regulation -- 3. Histone Post-Translational Modifications and Chromatin Structure -- 3.1. Types of Histone Post-Translational Modifications -- 3.1.1. Histone Acetylation -- 3.1.2. Histone Methylation -- 3.1.3. Other Modifications -- 3.2. Crosstalk between Histone Post-Translational Modifications -- 3.3. Distribution

of Histone PTMs within Genomic Domains -- 4. DNA Modifications and Chromatin Structure -- 4.1. DNA Methylation and Demethylation -- 4.1.1. DNA Methylation -- 4.1.2. DNA Demethylation -- 4.2. Crosstalk between DNA Marks and Histone PTMs -- 4.3. MBP Function as Chromatin Architectural Proteins -- Conclusion -- Acknowledgements -- Grant Information -- References.

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