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Titolo	Cell Division Machinery and Disease // edited by Monica Gotta, Patrick Meraldi
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Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XIV, 235 p. 33 illus., 32 illus. in color.)
Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 1002
Disciplina	571.84
Soggetti	Cell cycle Cell physiology Cancer - Research Cell Cycle Analysis Cell Physiology Cancer Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1.Meiotic divisions: no place for gender equality -- 2.Consequences of centrosome dysfunction during brain development -- 3.Dividing with extra centrosomes: a double edged sword for cancer cells -- 4. Kinetochores malfunction in human pathologies -- 5.The elephant in the room: the role of microtubules in cancer -- 6.Clinical development of anti-mitotic drugs in cancer -- 7.Mitotic dysfunction associated with aging hallmarks -- 8.Unbalanced Growth, Senescence and Aging -- 9. The spindle orientation machinery beyond mitosis: when cell specialization demands polarization.
Sommario/riassunto	This book critically evaluates the causal link between cell division machinery and disease. Further, it identifies key open questions in the field and the means for exploring them. Throughout the various chapters, internationally known contributors present the evidence for and against a causal link between key elements of the cell division machinery and diseases such as cancer, neuropathologies, aging, and infertility. A more clinically oriented chapter further discusses the current and future applications of anti-mitotic drugs in these diseases.

Cell Division Machinery and Disease is essential reading for graduate or advanced graduate students, researchers or scientists working on cell division as well as clinicians interested in the molecular mechanisms of the discussed diseases.
