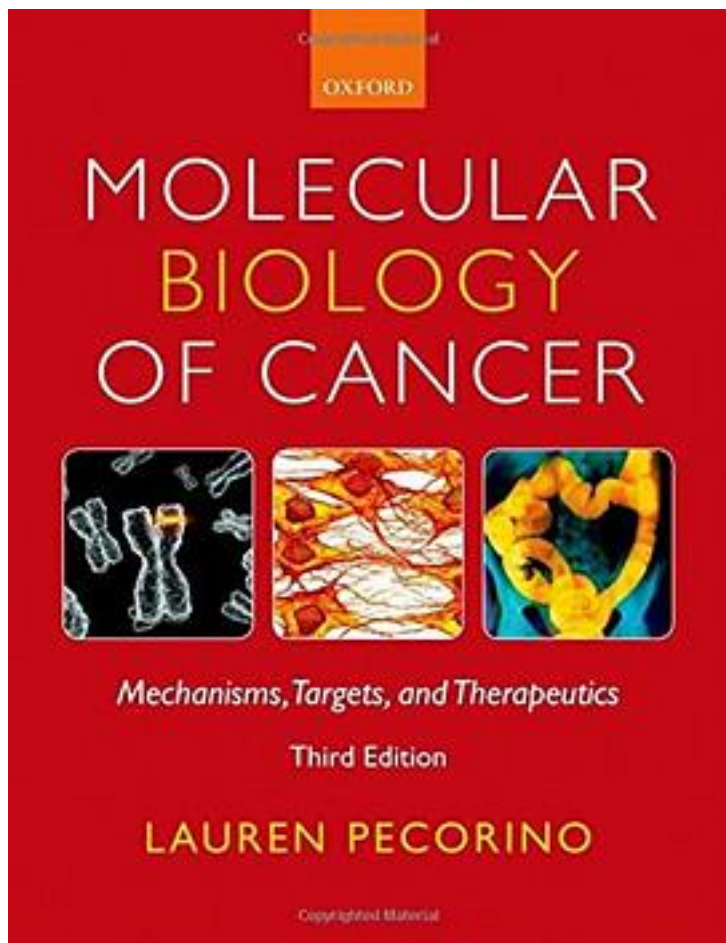


# Molecular Biology of Cancer



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Many of the cells in our body undergo tightly regulated replication to enable growth to occur, and to ensure that damaged or worn out tissues are replaced. Regulation is mediated via many different mechanisms; it is when these mechanisms fail, and

regulation is lost, that cancer can result. Recent advances in molecular cell biology have greatly expanded our understanding of the processes and mechanisms which underpin the regulation of cell replication, and what is happening at the molecular level when these fail. The second edition of *The Molecular Biology of Cancer: Mechanisms, Targets, and Therapeutics* gives a fresh approach to the study of the molecular basis of cancer, by showing how our understanding of the defective mechanisms which drive cancer is leading to the development of new targeted therapeutic agents. Opening with an overview of the key hallmarks of cancer as a disease state, the book then leads us through the principal components of the regulatory machinery through which cell division is controlled, and explains how the failure of these components can lead to the onset of cancer. Uniquely, within each chapter, students are shown how this molecular knowledge is being applied to develop new targeted therapeutic strategies. Written with the student learner in mind, the book features a variety of learning features to help students engage with, and master, the concepts presented. The emphasis is not on exhaustive coverage of the field, but on acquiring a solid understanding of the essentials of the subject - and an appreciation of how a theoretical understanding can be transformed into therapeutic benefit. *The Molecular Biology of Cancer* is an invaluable resource for any student wishing to gain an insight into the molecular basis of the disease, and possible solutions for its effective control. Online Resource Centre The Online Resource Centre features: For registered adopters of the book: \* Figures from the book available to download, to facilitate lecture preparation \* A testbank of multiple-choice questions, with feedback linked to the book, for use in formative or summative assessment For students: \* A web link library, giving easy access to relevant online resources \* Hyperlinks to primary literature articles cited in the text

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