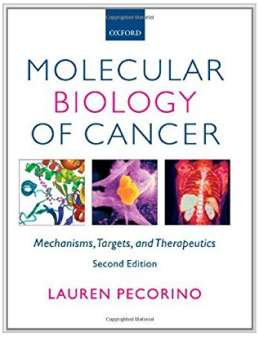

Molecular Biology of Cancer: Mechanisms, Targets, and Therapeutics

By Lauren Pecorino

Molecular Biology of Cancer: Mechanisms, Targets, and Therapeutics By Lauren Pecorino

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.

Now in its second edition, *The Molecular Biology of Cancer: Mechanisms, Targets, and Therapeutics* gives a fresh approach to the study of the molecular basis of cancer. Written with the undergraduate student in mind, Lauren Pecorino focuses on 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 corrupted with the onset of cancer. Within each chapter, students are shown how this molecular knowledge is being applied to develop new targeted therapeutic strategies.

Ideal for courses in the molecular biology of cancer and cancer biology, *The Molecular Biology of Cancer*, Second Edition, is an invaluable resource for any student wishing to gain insight into the molecular basis of the disease and formulate possible solutions for its effective control.

New to this Edition

· Updated research

· Three brand new chapters:
- "The Cell Cycle": Gives extended treatment of this central aspect of cancer biology
- "Infections and Inflammation": Focuses on the relationship between infectious

agents and inflammation and the onset of cancer
- "The Cancer Industry": Provides an overview of the process through which drugs are developed and tested

· Enhanced coverage of apoptosis

· Over 25 new figures plus a new color plate section

· A new "How do we know that?" feature, in which experimental methods and results are discussed, thus shedding light on how our understanding of cancer biology is developed

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· A **companion website** featuring additional resources for both instructors and students:
- For instructors, the site offers figures from the book available to download and a testbank of multiple-choice questions with feedback linked to the book for use in formative or summative assessment
- For students, the website features a web link library as well as hyperlinks to primary literature articles cited in the text

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Editorial Review

Review
`Review from previous edition The author's infectious enthusiasm as a teacher comes across on every page of this beautifully illustrated book. To guide her readers through this increasingly complex field, she introduces some novel features, including "Special interest" boxes, sections labelled, "Pause to think," well-designed chapter highlights and aids to "Memory refreshment." Given the speed of development of this field, the book is remarkably up to date.' Sir David Weatherall, Emeritus Regius Professor of Medicine, Oxford University in THES Textbook Guide - February 2006

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`Review of current edition: The textbook is clearly written and the author does a great job of introducing some of the more fundamental concepts. The book is organized well and the topics flow smoothly and logically. The book also nicely pulls in current therapeutic approaches with the molecular lesions that are responsible for the generation of cancer. ' Professor Deobrah Vestal, Department of Biological Sciences, University of Toledo, USA.

About the Author

Lauren Pecorino is Senior Lecturer and Biochemistry Program Leader at the University of Greenwich, UK.

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