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While drug therapies developed in the last 50 years have markedly improved the management of some types of cancers, treatment outcomes, and drug side-effects for the most common types remain unacceptable. However, recent technological advances are leading to improved therapies based on targeting distinct biological pathways in cancer cells. Chemistry and Pharmacology of Anticancer Drugs is a comprehensive survey of all families of anticancer agents currently in use or in advanced stages of clinical trials, including biologicals.

The book is unique in providing molecular structures for all anticancer drugs, discussing them in terms of history, chemistry, mechanism of action, structure-function relationships, and pharmacology. It also provides some relevant information on side effects, dosing, and formulation. The author, a renowned scientist in cancer research and drug development, also provides up-to-date information on the drug discovery process, including new research tools, tumor-targeting strategies, and fundamental concepts in the emerging areas of personalized medicine (e.g., oncogenomics) and chemoprevention.

Chemistry and Pharmacology of Anticancer Drugs is an indispensable resource for cancer researchers, medicinal chemists, and other biomedical scientists involved in the development of new anticancer treatments. Its breadth of coverage also makes it suitable for undergraduate and postgraduate courses in medicine, pharmacy, nursing, and related disciplines.