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**Biomedicine : Cancer Research**

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# Targeted Therapy of Acute Myeloid Leukemia

- **Presents updated contemporary classification systems of myeloid leukemias, their genetic defects and the proteomic alterations characteristic of acute myeloid leukemia**
- **Summarizes and interprets targeted in acute myeloid therapies, along with future therapeutics**
- **Serves as a useful guideline to scientists, translational researchers and clinicians in the field**

This book provides an unprecedented overview of "Targeted Therapies" for acute myeloid leukemias. It aims at an almost comprehensive coverage of the diverse therapeutic strategies that have been developed during the last decade and are now being evaluated in early clinical trials. Paired and authoritative chapters by leading research scientists and clinicians explain basic concepts and clinical translation of topics that include the underlying genetic and proteomic abnormalities of AML, the development of novel nucleoside analogues, the roles of microRNAs, apoptosis regulators Bcl-2 and p53 and of critical cell signaling proteins such as PIM, FLT3, Raf/MEK, PI3K/AKT/mTOR and aurora kinases. Chapters on epigenetic mechanisms, nuclear receptors, cell surface antigens, the hypoxic leukemia microenvironment, stem cells and leukemia metabolism provide insights into leukemia cell vulnerabilities. Cell therapies utilizing T-, NK- and mesenchymal stem cells and progress in hematopoietic transplantation strategies round up this overview of the multi-dimensional therapeutic landscape in which leukemia specialists develop treatment strategies that are expected to make "leukemia history" in the near future.

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