

Synergistic Effects of Immunotherapy and Chemotherapy in Reducing Drug Resistance in Leukemia Cells

Abstract Category : Experimental Hematology / Oncology

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Introduction

Leukemia remains a major challenge in oncology due to drug resistance. Combining immunotherapy with chemotherapy may enhance therapeutic efficacy.

Methods

A comprehensive review and computational model predicted the effects of immunotherapy plus chemotherapy on resistant leukemia cells. Parameters included drug resistance markers, proliferation, and apoptosis.

Results

Combination therapy reduced resistance, increased apoptosis, decreased proliferation, and minimized toxicity to healthy cells. These results suggest improved treatment outcomes.

Discussion & Conclusion

Combining immunotherapy with chemotherapy may effectively overcome drug resistance in leukemia. Although this study is based on computational modeling, the results align well with available experimental data and suggest a strong potential for future clinical application.