

Mechanisms of Apoptosis Evasion in Treatment-Resistant Carcinoma

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ABSTRACT

Evasion of apoptosis is a core hallmark of cancer and a driver of therapy resistance. We dissected apoptotic priming in matched pre- and post-treatment biopsies using BH3 profiling. Resistant tumours showed reduced mitochondrial priming and a shift in dependence from BCL-2 to MCL-1, which BH3-mimetic combination therapy reversed in ex vivo culture.

KEYWORDS

apoptosis, treatment resistance, BH3 profiling, MCL-1

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