



Special Issue

ABC Transporters in Multidrug-Resistant Cancer

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Special Issue Introduction

ABC transporters, such as P-glycoprotein and ABCG2, are known to confer multidrug resistance in cancer, thus rendering previously sensitive cancer cells multi-resistant to a large range of chemically unrelated compounds.

The mechanisms of multidrug resistance and the implications for clinical drug resistance will be discussed.

The aim of this SI is to sum up the latest knowledge on the role and function of ABC transporters in cancer.

Specifically, the latest development within the following topics will be reviewed:

- How cancer cells increase MDR1 (ABCB1) expression.
- Evidence for the importance of ABC transporters in cancer.
- Regulation of the expression and trafficking of ABCG2.
- Defeating multidrug resistance in cancer: a new twist on an old story.

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