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Multidrug Resistance in Cancer: Pharmacological Strategies

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Message from the Guest Editor

Multidrug resistance is one of the major obstacles in current cancer treatment. Various mechanisms have been proposed for the development of drug resistance in cancers. To overcome the multidrug resistance in cancer treatment, small molecules, natural products, peptides, and nanotherapeutics have been developed in recent years. The most explored therapeutic target for combating multidrug resistance cancer is P-glycoprotein (P-gp), which belongs to the ABC transporter family. In addition, multidrug resistant cancer cells show selective sensitivity to some compounds. It has been proposed that P-gp-overexpressing cells are more sensitive to increased reactive oxygen species, to agents interfering the metabolic pathways related to cellular energy, and to alteration of membrane composition, and that they influence the elimination of endogenous toxic catabolites. However, the underlying mechanisms of collateral sensitivity have not been fully evaluated. This Special Issue welcomes studies, including original articles and reviews that investigate pharmacological strategies to overcome multidrug resistance in cancer treatment, ranging from basic research to clinical studies.

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