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Molecular Mechanisms of Cancer Drug Resistance

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Message from the Guest Editors

Drug resistance, existing before treatment (intrinsic) or generated after therapy (acquired), is responsible for most cancer relapses and associated deaths. Drug resistance arises not only with classical chemotherapy but also, more recently, with tumor-target and immunotarget therapies.

The heterogeneity among patients, tumors, and cancer microenvironments and the adaptability of cancer cells in evading therapies make it more challenging to address drug resistance. Although our knowledge in understanding drug resistance over the past decade has definitively grown, gaps remain in identifying the biological, pharmacodynamic, and pharmacokinetic causes behind drug resistance and designing cancer therapies and schedules to overcome it.

This Special Issue aims to respond to this clinical need, with studies leading to the discovery of significant biomarkers for the development of a new combination of anticancer treatments that prevent or overcome potential resistance. Furthermore, emphasizing the pharmacological action of anticancer drugs may help to challenge complexity by better predicting optimal strategies.

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Message from the Editor-in-Chief

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