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Chemoresistance in Solid Tumours

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Message from the Guest Editors

Current precision medicine for solid tumours comprises a combination of appropriate cytotoxic agents and molecularly targeted drugs for each molecular subtype. Since molecular subtypes provide appropriate therapeutic targets, various molecular subtypes have been explored by gene mutation, gene expression, and protein expression. However, this tumour heterogeneity is considered one of the main reasons for chemoresistance, since refractory solid tumours exhibit high tumour heterogeneity and cannot be eliminated by several anticancer drugs. Although the cancer stem cell theory has been accepted as a model that can resolve tumour heterogeneity, tumour heterogeneity remains unresolved because cancer cells have the plasticity to revert from non-cancer stem cells to cancer stem cells. In addition, the microenvironment is one of the factors contributing to chemotherapeutic resistance in solid tumours. The prognosis for patients with highly advanced solid tumours remains poor because tumour heterogeneity, the plasticity inherent in cancer cells, and the contribution of the microenvironment to chemotherapy resistance remain unresolved.

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Message from the Editor-in-Chief

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