Special Issue Introduction
Pharmacogenetics and pharmacogenomics has expanded rapidly over the past years and is the basis of personalized medicine. The pharmacological treatment of cancer is an ideal field for the application of pharmacogenetics into clinical practice. Testing of patients for genetic markers of efficacy or toxicity of anticancer therapy is increasingly being used as a result of clinical studies based on genotype stratification, availability of approved clinical tests and of an always more robust clinical pharmacogenetic information and guidelines.

This special issue of Cancer Drug Resistance is designed to provide an overview of the role of pharmacogenetics and pharmacogenomics in cancer treatment, including methods of discovery and clinical drug development, available information on drug labels and web resources, guidelines, with particular regard to specific cancer drug classes. Finally, the integration of somatic pharmacogenomic markers into clinical practice with examples of main cancer types will be also addressed.

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