Special Issue

Predictive Biomarkers in Cancer

Message from the Guest Editor

In recent years, functional gene analysis of malignant tumors has progressed, and many cancer-related genes have been identified. Detection of genetic mutations by immunohistochemical staining and PCR methods using cancer tissues, as well as detection of somatic mutations useful as biomarkers of malignancy from genetic analysis using next-generation sequencers (NGS), is now providing important information for determining cancer treatment strategies. Histopathological diagnosis is an important tool in the conventional diagnosis of cancer. However, in the treatment of cancer, many therapeutic agents based on genetic abnormalities of cancer-related molecules have been challenged as molecularly targeted therapies, resulting in an improved prognosis. We hope that this Special Issue will lead to the discovery of new predictive biomarkers in cancer, including histological information obtained from histopathological diagnosis, and to the improvement of prognosis, thereby expanding the range of knowledge from basic research to clinical application.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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