Special Issue

Microsatellite Instability and Cancers

Message from the Guest Editors

Microsatellite instability (MSI) was first described in inherited malignancies associated with Lynch syndrome and later in sporadic colon, gastric, and endometrial cancers. MSI tumors develop through a distinctive molecular pathway characterized by genetic instability in numerous microsatellite DNA repeat sequences throughout the genome and are associated with inactivating alterations in mismatch repair genes (MMR). MMR / MSI testing is important for identifying Lynch syndrome but also for decision making of adjuvant chemotherapy in colorectal cancer (CRC) and today has become indispensable in testing many tumors due to the high efficacy of immune checkpoints inhibitors in dMMR / MSI tumors. Recent advances have greatly contributed to increasing our knowledge of dMMR/MSI cancers, laying the foundation for personalized medicine of dMMR/MSI tumors.

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Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

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