

Special Issue

Decoding Cancer's Immune Escape: Insights into MHC Class I Antigen Presentation Dysfunction

Message from the Guest Editors

Antigen Processing and Presentation Machinery (APM) is a complex system that plays a critical role in the immune system's ability to detect and respond to foreign molecules. Cancer cells are able to evade the immune system by altering the way they present antigens, or by downregulating the expression of MHC molecules on their surface. One way that cancer cells can evade the immune system is through a process called "immunoediting", which involves the selection of cancer cells that are able to evade the immune response, leading to the development of "immunoedited" tumors that are resistant to attack by T cells. Some cancer types have been found to have a high frequency of mutations and defects in APM, making them more susceptible to immune system detection. Understanding the mechanisms by which cancer cells evade the immune system through alterations in APM can aid in developing new cancer immunotherapies. The Special Issue will welcome the latest research articles and reviews focused on APM and cancer research, which will emphasize the underlying molecular features of the neoplastic disease, with the aim of developing more effective therapeutic approaches.

Guest Editors

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