Molecular Drivers of Responsiveness to Cancer Immunotherapy

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Message from the Guest Editors

Cancer immunotherapeutics such as cancer vaccines and immune checkpoint inhibitors act by activating the immune system against cancer. Despite recent advances and encouraging successes, the pressing problem is the resistance to these treatments in the majority of patients; for example, only <10–15% of patients respond to checkpoint inhibitors such as anti-PD-1 and anti-CTLA-4. Therefore, understanding the mechanisms of resistance to immunotherapy as well as developing treatments to overcome resistance and improve responsiveness are critical areas of research. This Special Issue of the *International Journal of Molecular Sciences* will discuss emerging concepts in these areas. The topics will encompass molecular and cellular mechanisms of resistance to checkpoint blockade and anti-tumor vaccines, innate and acquired resistance, pathways of immunosuppression including suppressor cell populations, and approaches combining chemo-radiation or other targeted treatments to improve immunotherapy responsiveness and overall efficacy.

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Special Issue

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Message from the Editor-in-Chief

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