

Special Issue

Molecular Mechanisms and Therapies for Melanoma

Message from the Guest Editor

Melanoma, a rare skin neoplasm, causes most skin cancer deaths, with globally increasing incidence since 1975. Pre-2011, advanced melanoma had a 10% 5-year survival rate; immunotherapies (CTLA-4/PD-1 inhibitors) and BRAF/MEK-targeted therapies now boost metastatic survival to 36%. However, primary resistance or relapse remains common, underscoring the need for new molecular targets and treatments. Recent focus on the tumor microenvironment (TME) in molecular oncology has unveiled its critical role in all stages of melanoma progression, offering promising research directions.

This Special Issue provides insights into the molecular mechanisms of melanoma development, including the role of the tumor microenvironment, as well as recent advances in melanoma therapy, with a focus on novel potential therapeutic targets.

Guest Editor

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