

Special Issue

Clinical Advances in the Management of Melanoma

Message from the Guest Editors

Melanoma management has undergone transformative clinical advances in recent years, driven by breakthroughs in targeted therapies and immunomodulation. This review highlights key innovations shaping contemporary treatment paradigms, including BRAF/MEK inhibitors for mutation-specific targeting, immune checkpoint inhibitors such as anti-PD-1/CTLA-4, and TIL adoptive cell therapy that have improved survival in advanced disease. Emerging approaches such as oncolytic viruses, cancer vaccines, bispecific T-cell Engagers (BiTEs), bispecific antibodies, and combination regimens are discussed, with attention to their real-world efficacy and safety profiles.

Additionally, we address challenges in treatment sequencing, the clinical utility of adjuvant and neoadjuvant strategies for stage III/IV resectable melanoma, resistance mechanisms, and biomarker and liquid-biopsy development to guide personalized decision-making. The integration of these innovations into multidisciplinary care models underscores the importance of tailored therapies in optimizing patient outcomes.

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