

Special Issue

New Evidence and Emerging Strategies in the Management of Testicular Cancer In Vivo and In Vitro

Message from the Guest Editors

Testicular germ cell tumors (TGCTs) are rare cancers that commonly occur in childhood, adolescence and the early stages of adulthood, whose incidence has been increasing in developed countries for at least four decades. In most cases, TGCTs are curable, but frequently these young patients are exposed to the long-term consequences of chemotherapy-related toxicity or the long-term side effects of radiotherapy, which can negatively impact fertility and sexual activity. Therefore, in recent decades, many researchers have focused their attention on targeting molecular pathways to develop new therapeutic approaches that mitigate these reported long-term effects. In this context, emerging in vitro and in vivo studies address some natural bioactive molecules, such as polyphenols and potential anti-cancer properties. Furthermore, recent studies focused on the epigenetic mechanisms associated with TGCT susceptibility, initiation, progression and response to chemotherapy, highlighting the importance of identifying epigenetic biomarkers as powerful tools for diagnostic, prognostic and epigenetic-based therapies.

Guest Editors

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