

Special Issue

Microenvironmental Signalling in Tumorigenesis and Anti-Cancer Drugs Resistance

Message from the Guest Editor

The role of the tumor microenvironment in the induction, modulation, regulation, and conditioning of cancer's evolution phases is well recognized and constantly revealing new molecular details. Understanding the complex interaction of the underlying cellular elements and the molecular signaling networks acting in the tumor microenvironment is at the core of many yet unanswered or partially answered questions. In this context, new "Omics" technologies along with a growing number of computational tools have become available for interpreting the complexity originating at the single-cell level within the same studied biological specimen, disclosing a wider landscape.

Last but not least, the tumor microenvironment plays a critical role in determining the responsiveness, resistance, and potential recurrence of molecular target drugs and gene/cellular-mediated therapies. As a result, any basic, translational, and clinical study shedding new light on tumor-microenvironment-regulated signals is instrumental for the advancement of our cumulative understanding of cancer and how to effectively personalize present and future treatments.

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