



Semaphorins, Plexins, and Neuropilin Functions in the Tumor Microenvironment

Guest Editor:

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Message from the Guest Editor

The tumor microenvironment is characterized by a complex signaling cross-talk between cancer cells and a range of different stromal cell populations, including those forming tumor vessels, cancer-associated fibroblasts and macrophages, as well as other infiltrating leucocytes responsible for the immune response. Accumulating evidence indicates that Semaphorins have a prominent role as regulatory cues for both tumor and stromal cells, since their aberrant expression and activity in this pathological setting recalls their multifaceted functions during embryo development, adult tissue homeostasis, and immunity. Main semaphorin receptors are the Plexins and the Neuropilins. Notably Neuropilins are furthermore serving as co-receptors and signaling regulators for VEGF and a range of other extracellular cues acting in the tumor microenvironment, such as TGFbeta, HGF, EGF, etc. This Special Issue aims at publishing novel and relevant research data related to the full spectrum of topics indicated above, as well as review articles surveying seminal findings and recent progress in the field.





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Message from the Editor-in-Chief

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