

## Special Issue

# Semaphorins, Plexins, and Neuropilin Functions in the Tumor Microenvironment

### 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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### Guest Editor

Prof. Dr. Luca Tamagnone  
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### Deadline for manuscript submissions

closed (15 December 2018)



## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

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