Underlying Mechanisms of Brain Cancer Spreading

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Message from the Guest Editors

Dissemination of tumor cells from the primary tumor causes healthy tissue infiltration and metastatic disease, and it hampers the efficacy of current cancer treatments. It is triggered by the transient or permanent induction of motility and invasiveness in the tumor cells. An essential prerequisite for primary brain tumor cell migration and invasion is the remodeling of the actin and tubulin cytoskeletons, which not only provide force, traction and rigidity but also scaffold signaling complexes in a spatially controlled manner. Hence, blocking motility and invasiveness by targeting pro-migratory cytoskeleton dynamics in tumor cells could prevent local tumor cell invasion, further dissemination from proximal metastases and the evolution towards a more aggressive phenotype.

In this special issue we soliciting manuscripts that focus on the molecular, genetic and cellular mechanisms of brain cancer spreading.

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Special issue

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Message from the Editor-in-Chief

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