Special Issue

Underlying Mechanisms of Brain Cancer Spreading

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.

Guest Editors

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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