The Role of Neuroimmune Inflammation in Chemotherapy-Induced Side Effects

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Message from the Guest Editors

Chemotherapy has increased the survival rate in cancer patients; however, despite the undisputed benefits, antitumoral drugs cause a wide range of known and little-known side effects, such as chemotherapy-induced neuropathy (CIN), chemotherapy-induced cognitive impairment (CICI). Emerging evidence indicates that neuroimmune inflammation at the peripheral and central nervous system level plays a pivotal role in the development of such complications. Infiltrated and resident immune cells or glial cells interact with the neuronal component, promoting a sensitization process and maladaptive plasticity that contribute to the progression of damage and finally result in clinical complications. In this scenario, both classic and newer biomolecules could represent novel pharmacological targets to counteract the development of chemotherapy-induced side effects but could also represent potential biomarkers to predict them.This Special Issue aims to collect recent findings regarding the role of neuroimmune inflammation in chemotherapy-induced side effects, identifying mechanisms and novel controlling networks or suggesting new potential pharmacological approaches to counteract or predict them

Special Issue

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Message from the Editor-in-Chief

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