# **Special Issue**

# The Role of Neuroimmune Inflammation in Chemotherapy-Induced Side Effects

# 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 chemotherapyinduced 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

## **Guest Editors**

Dr. Silvia Franchi

Department of Pharmacological and Biomolecular Sciences, Università degli Studi di Milano, Milano, Italy

#### Dr. Lorenzo Di Cesare Mannelli

Department of Neuroscience, Psychology, Drug Research and Child Health (NEUROFARBA), Pharmacology and Toxicology Section, University of Florence, 50139 Florence, Italy

## Deadline for manuscript submissions

closed (31 July 2022)



# International Journal of Molecular Sciences

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International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

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# Message from the Editor-in-Chief

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#### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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