

CALL FOR PAPERS

The acute inflammatory response is an essential physiological response to protect cells and tissues from infection and other harmful stimuli. However, under chronic conditions, inflammation may promote undesirable responses leading to disease. This situation may occur not only in the periphery but also in the central nervous system (CNS). Indeed, chronic neuroinflammation is a key feature in the pathogenesis and progression of infectious and noninfectious neuropathologies. The increase of microglia, astrocytes (brain-resident cells), and perivascular macrophages together with the release of proinflammatory mediators and the recruitment of components of the adaptive immunity may result in myelin and neuron damage leading to neuronal dysfunctions. The magnitude of these events is regulated not only by events occurring in the CNS but also by those occurring in the periphery. In addition, many of the components which increased during neuroinflammation have a dual role; they not only may promote neuroinflammation and damage but also may participate in repairing central tissues. It is then important to understand the role of the immune system in neuroinflammation in order to be able to regulate this function to alleviate the health problems related to infection and injury to the CNS.

The purpose of this special issue is to publish high-quality original research papers as well as review articles addressing recent issues on the role of the immune response in the inflammatory response of the CNS and the consequences this may have on important health issues.

We invite investigators to contribute their original research work and review articles addressing the biochemistry, cell biology, function, and pathology of the immune response to inflammation of the CNS.

Potential topics include but are not limited to the following:

- ▶ Role of astrocytes and microglia in neuroinflammation
- ▶ Migration of leukocytes into the CNS
- ▶ Role of chemokines and cytokines in CNS inflammation
- ▶ Signal transduction pathways regulating immune response in the brain
- ▶ Influence of the peripheral immune response to neuroinflammation
- ▶ Role of lymphocytes in resolution of neuroinflammation
- ▶ Role of glia cells in resolution of neuroinflammation
- ▶ Bacteria-induced neuroinflammation
- ▶ Parasites-induced neuroinflammation
- ▶ Neuroinflammation in multiple sclerosis
- ▶ Experimental allergic encephalitis
- ▶ Neuroinflammation in Alzheimer's and Parkinson's diseases
- ▶ Therapeutic strategies for cytokine-related CNS disorders

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/mi/imn/>.

Lead Guest Editor

Carlos Rosales, Universidad Nacional Autónoma de México, Mexico City, Mexico
carosal@unam.mx

Guest Editors

Edda Scitutto, Universidad Nacional Autónoma de México, Mexico City, Mexico
edda@unam.mx

Anahí C. Krauser, Universidad Nacional Autónoma de México, Mexico City, Mexico
anahi.chavarria@gmail.com

Oscar Bottasso, Universidad Nacional de Rosario, Rosario, Argentina
oscarbottasso@yahoo.com.ar

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First Round of Reviews

Friday, 12 May 2017

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