

Special Issue on **Chemokines in CNS Inflammation**

CALL FOR PAPERS

Upon CNS inflammation, chemokines, like other inflammatory mediators, contribute to beneficial and controlled inflammatory responses limiting the causative stimulus and promote neuroregeneration. Chemokine systems have been implicated in a wide range of neuropathologies including brain trauma, stroke, multiple sclerosis, and neurodegeneration.

Within the last decade, several seminal concepts have been introduced demonstrating that particular chemokines can act as “tickets to the brain” or specific cue molecules, given that they are produced constitutively in certain brain regions, such as the choroid plexus. This is thought to be instrumental for immune surveillance of the subarachnoid and perivascular spaces of healthy individuals. Production of specific chemokines in the CNS contributes to clearance of local infections, by attraction and activation of inflammatory cells. In contrast, aberrant production of chemokines may facilitate establishment of tumors or chronic autoimmunity in the brain and spinal cord.

The complex nature of chemokine-induced trafficking of immune cells needs to be elucidated further to understand the numerous effects of this class of mediators in CNS inflammation.

With this call, we invite researchers to contribute original research articles as well as review articles that address new concepts, mechanisms, and significance of chemokines in models of acute and chronic neurological disorders.

Potential topics include but are not limited to the following:

- ▶ Chemokine-chemokine receptor interactions required for immune cells migration to the CNS
- ▶ Chemokines as immune cell attractants in established CNS diseases
- ▶ Chemokines as mediators of CNS regeneration
- ▶ Chemokines as pleiotropic factors in CNS inflammatory diseases
- ▶ Chemokines as modulators of BBB permeability
- ▶ Contribution of chemokine pathways to neurodegeneration

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

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First Round of Reviews

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