

## Tentative Outline

### Special Thematic Issue for Current Neuropharmacology

**Title of thematic issue: Neuromodulation of the response to neuropathic pain in chronic diseases.**

*Guest Editor: Dr Alfonso Alfaro-Rodriguez*

**Aims & Scope:** Multiple lines of research are being developed to address the physiopathology and molecular mechanisms involved in the modulation of neuropathic pain in chronic diseases, however, the results of these studies have generated great controversy. The world agenda in terms of biomedical research focused on chronic-degenerative diseases such as cancer, diabetes, obesity, rheumatic diseases, neurodegenerative diseases, etc. Given their high incidence and the impact on the economy of the population in developed and developing countries, especially in the latter, this is why interdisciplinary research teams in the public and private initiative are working on finding new strategies to diagnose, prevent and treat them. We can identify a common denominator in the pathogenesis of chronic degenerative diseases; Pain, considered a priority during pharmacological treatment because it has negative consequences on the quality and lifestyle of the patient. In the context addressed in this Issue, we consider Neuropathic Pain as the main factor to be resolved, which has different characteristics and depending on the pathology treated, different origins. There are several mechanisms in which the body modulates or attempts to modulate the nociceptive abnormal response generated by nerve damage present in neuropathic conditions. This thematic issue will provide us with new evidence on diagnostic and therapeutic strategies for a better understanding of the pathophysiological and molecular mechanisms of neuropathic pain for the development of new treatment strategies in the treatment of chronic pain suffered by these patients.

**Keywords:** Neuropathic Pain, depression and pain, Parkinson's pain, Cancers pain, drug-delivery strategies, Therapeutic Potential of Ultrasound in pain treatment.

#### Subtopics:

The subtopics to be covered within this issue are listed below:

- 1.- Neurophysiology of Neuropathic Pain in Parkinson's Disease.
- 2.- Therapeutic Potential of Ultrasound Neuromodulation for Neuropathic Pain: An Outlook
- 3.- Depression and Pain: Neurobiology and use of antidepressant.
- 4.- Neurophysiological mechanisms related to pain management in bone tumors.
- 5.- Invasive and Not Invasive Electrical Neuromodulation in Trigeminal Nerve Neuralgia: A Meta-Analysis
- 6.- Neuromodulative Approaches for Pain Treatment in Gynecological Cancers.
- 7.- Novel drug-delivery strategies for the treatment of neuropathic pain.
- 8.- Complex Regional Pain Syndrome Evolving into Full-blown Fibromyalgia. Pathogenetic Commonalities.



#### Schedule:

- Manuscript submission deadline: April 15 2020
- Peer Review Due: April 30 2020
- Revision Due: June 15 2020

- Announcement of acceptance by the Guest Editors: June 30, 2020
- Final manuscripts due: July 2020

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