Pain and Inflammation Management by Using Bioactive Molecules Derived from Medicinal Plants or Natural Products

As the guest editors of the Current Molecular Pharmacology, we are glad to publish the special issue on the “Pain and Inflammation Management by Using Bioactive Molecules Derived from Medicinal Plants or Natural Products,” receiving enough number of accepted articles. The major drawback of this special issue was in vivo and in vitro anti-inflammatory and antinociceptive evaluations of the medicinal plants which have ethnobotanical usage. Indeed, natural products have proved to be a rich source of therapeutic agents. Due to the side effects caused mostly by synthetic drugs, interest in natural products is growing rapidly, and research into natural products has advanced tremendously in academia and pharmaceutical companies. Therefore, the articles accepted for publication in this special issue provide scientific evidence for the ethnomedicinal features and lead to the development of new drug candidates. To date, many scientific studies have revealed the anti-inflammatory and analgesic active components from natural products. This special issue includes six review/research articles addressing the effectiveness of natural remedies used for anti-inflammatory and analgesic purposes and three researches regarding the antinociceptive and anti-inflammatory effects of Platanus orientalis, Berberis baluchistanica, and Rosa canina. Moreover, polyphenols as potential therapeutics for pain and inflammation in spinal cord injury, pain perception and management, and phytotherapeutic and natural compound applications for age-related, inflammatory, and serious eye ailments are also presented herein. These articles represent in vivo and in vitro bioactivity tests, phytochemical analysis, and activity mechanism assays, all of which are essential for scientific confirmation of natural products’ utilization in complementary medicine.

Taking above mentioned studies into account, Current Molecular Pharmacology is pleased to publish the “Special Issue on the Pain and Inflammation Management by Using Bioactive Molecules Derived from Medicinal Plants or Natural Products”. We would like to express our gratitude to all authors for their contributions. We hope the readers will benefit from this special issue as an academic reference.

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