

Tentative Outline

Special Issue for Current Medicinal Chemistry

Guest Editors: Dr. Dejan Stojkovic

Co-Guest Editors: Dr. Milos Nikolic, Dr. Marina Sokovic

Medicinal Plants and Mushrooms as Unfailing Source of Pharmacological Active Molecules for the Treatment and Supportive Therapy in Chronic Diseases and Conditions

Aims & Scope:

Medicinal plants and mushrooms present a valuable source of chemicals with potential therapeutic properties. They are widely used in traditional medicine as supportive therapeutics for chronic conditions and diseases. In recent years there are extensive studies in the area of medicinal plants and mushroom research dealing with their various pharmacological effects. The need for update reviews on this subject is necessary, since this is hot topic area. Many *in vitro* studies describe beneficial effects of plants and mushrooms for human health, highlighting promising pharmacological effects. Clinical and animal studies to confirm *in vitro* findings are also conducted but with less extent.

This thematic issue will cover the effects of medicinal plants, mushrooms and isolated compounds from them on chronic diseases and conditions. The role of bioactive compounds from mushrooms in skin disorders will be described within this thematic issue, as well as the effects of plant extracts and isolated compounds in the treatment and prevention of chronic skin conditions. The inhibitory effects of medicinal plants and compounds on enzymes linked with chronic diseases therapy will be presented. Therapeutic potential of Lamiaceae plants in cardiovascular diseases will be covered, as well as plant products as antidiabetic agents. Anticancer activity of sesquiterpene lactones - compounds isolated from plants will be reviewed. Furthermore, medicinal plants and mushrooms as an alternative therapy for the treatment of chronic *sinusitis* and *tonsillitis* will be presented by the authors, as well as beneficial effects of fruits consumption in prevention and management of type 2 diabetes.

Keywords:

Medicinal plants and mushrooms, sesquiterpene lactones, anticancer activity.

Subtopics:

- Medicinal plants effects in chronic diseases and disorders.
- The effects of mushrooms in chronic diseases and conditions.
- Beneficial effects of isolated compounds from plants and mushrooms in chronic diseases.
- Therapeutic potential of natural matrices in cardiovascular diseases, diabetes, chronic skin conditions, cancer and other chronic disorders.

Schedule:

January 2020