“Natural Products Chemistry and Drug Design - 2020” (Part - II)

The proposed thematic issue is intended to deal with the pharmacological and mediciobiological applications of potential active chemicals derived from natural products. The proposed thematic issue titled, “Natural Products Chemistry and Drug Design - 2020” to Bentham Science under the journal of Cardiovascular and Hematological Agents in Medicinal Chemistry is comprised of 16 research and review articles. The side effects associated with conventional treatment regimen prompted the researchers to explore alternative strategies, among which natural products assume a greater role. The key findings to be published under this theme will be more prompt and the chemical entities of the natural products identified will be helpful for the treatment of diseases and also enable future researches to design the drugs. Substantially, the publications under this theme would identify natural products which will be useful in the treatment of debilitating diseases like cardiovascular diseases, diabetes, arthritis, cancer, liver diseases, etc., Advancements in the technology involved in the production of natural products and their efficacies in the drug designing would be given priority; thus identifying and highlighting their pharmaceutical applications. From the above details, the proposal concludes that this thematic issue will be a milestone for future endeavors and prospective research.

Following are the research and review articles of the thematic issue with 15 papers presenting current review and research articles for various interactions related to plant materials, ayurvedic and allopathic drugs. The CHAMC 18(1): 2020 issue deals with 5 articles, and the current issue 18(2): 2020 deals with 5 articles and the following is a brief description of selected articles:

The focus of the current review article by Arumugam et al., is on the impact of medicinal plants in the treatment of oral and dental diseases with the updated information and novel approaches towards preventive oral care using the herbs and plants [1]. The review article by Arumugam et al., focused on natural sweeteners from the Stevia rebaudiana plant source [2]. The current review by Alagaraj et al., is an attempt to document the potential of Toddalia asiatica (Linn.) phytoconstituents, which contribute to pharmacological actions [3]. The research article by V.V.S. Uddandrao et al., deals with the anti-oxide trend and anti-diabetic activity on polyherbal formulation [4]. The research article by Jagadeesh et al., is a milestone. It focusses on the bioactive sterol that exhibits potential cytotoxic activity against MDA-MD-231 (human breast cancer) and EL4 (mouse T cell lymphoma) cells. The study findings and data might provide new insights into the possible therapeutic and pharmaceutical uses in the design of anti-cancer drugs from this edible mushroom [5].

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