

Tentative Outline

Special Thematic Issue for the journal *Current Nutrition and Food Sciences*

Title of the Thematic Issue: **Natural Products in Human Nutrition and Health**

Guest Editor: Dr. Arunaksharan Narayanankutty

• **Scope of the Thematic Issue:**

Over the past few decades, the incidence of both infectious and degenerative diseases has been significantly increased. These diseases accounts for high mortality among the developing and under developed countries. This has led to the quest for new drug compounds for the management of various diseases. Natural products are important sources of drug candidates which are presently in the various stages of drug development including preclinical and clinical trials. Traditional herbal medicines and their bioactive compounds are one among the major pharmacologically active molecules. The application of these herbal medicines has been useful in the management of microbial infections and chronic diseases such as cancers, cardiovascular diseases and obesity. Apart from the plant products, the animal derived bioactive compounds such as honey polyphenols, venom derived compounds and nutritious molecules are also important in the management of human health. Further, microbial products including antioxidants, pigments and antimicrobial bioactives are also considered as drug candidates.

Keywords: natural products, Nutrition, antioxidants, functional foods, nutraceuticals, anti-inflammatory activity, cancer prevention, chronic diseases.

Sub-topics:

- Nutraceuticals in cancer prevention and their mechanism of action
- Inhibitors of NF-kB, Akt-mTOR, and other signaling pathways
- nhibition of diabetes and secondary diabetic complication by nutraceuticals
- Nutraceuticals in preventing dyslipidemia, obesity and cardiovascular disease
- Dietary nutraceuticals in preventing neurodegenerative disease including Alzheimer's disease
- Bioavailability of nutraceuticals and correlation with disease prevention
- Synthetic derivatives of nutraceuticals in disease prevention

Tentative titles of the articles:

- Anti-obesity agents from herbal medicines: Bench to Bedside
- Role of natural bioactive compounds on NF-kB signaling: Implications in Cancer Prevention
- Natural products and heavy metal toxicity
- Cancer metastasis and natural products; A review of recent updates
- Bioactive phytochemicals in inflammation and implication in chronic diseases
- Chemistry of natural products involved in cancer prevention

Schedule:

- ✧ Thematic issue submission deadline: December 31st 2022

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