

Special Thematic Issue for Current Biotechnology

Title of thematic issue: **Effects of natural products and derivatives on Non-communicable diseases**

Guest Editors: Dr. S. Srinivasan

Aims & Scope:

Non-communicable diseases (NCDs) continue to be important public health problems in the world, being responsible for sizeable mortality and morbidity. Current lifestyle such as inactive or sedentary living and consuming unhealthy food has a marked contribution in the development of NCDs worldwide. Even the rural people are increasingly adapting urbanized lifestyle and these risks are largely man-made and relate to how we live, age, work and play. Premature death and disability due to NCDs can therefore be viewed as failures of a broader socioeconomic system. According to the latest WHO reports, NCDs cause 35 million of the 53 million annual deaths worldwide. Further, 82% of all deaths occurs in low and middle-income countries and in 2020, it is predicted that these diseases will be causing 7 out of every 10 deaths in developing countries. Considering the future burden of NCDs and our existing health care system we should emphasize the need to prioritize the prevention and control of NCDs. Our strategies should be directed to monitor the incidence of NCDs along with their risk factors. The expensive costs of modern medicines and impediments on the quality of life indicate that alternative strategies are required for better treatments of NCDs. Natural products are the most representative form of conventional therapy as compared to any other traditional medicine systems. They have chemically diverse structures that differ from synthetic and combinatorial compounds, which are associated with the diverse, intricate, and distinct characteristics of natural products and result in various pharmacological effects in clinic. It was reported that more than 70% of 1562 new approved drugs introduced between 1981 and 2014 are of natural origins. Consequently, the current thematic issue was focussed to explicate the impact of natural products on NCDs. This finding may shed clear light on the therapeutic potential of natural products against NCDs.

Keywords: Non-communicable diseases, Natural products, Phytochemicals, Nutraceuticals

Subtopics:

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

Diabetes mellitus, Cancer biology, Atherosclerosis, Antioxidant, Anti inflammatory effect, Natural products, Phytochemicals, Nutraceuticals, *In vitro* analysis and *In silico* study.

Schedule:

- ◇ Manuscript submission deadline: 3 Month
- ◇ Peer Review Due: 15 Days
- ◇ Revision Due: 1 Month
- ◇ Announcement of acceptance by the Guest Editors: 1 Month
- ◇ Final manuscripts due: 1 Month

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