



# Evidence-Based Complementary and Alternative Medicine

## Special Issue on Natural Active Ingredients for Diabetes and Metabolism Disorders Treatment

# CALL FOR PAPERS

In the modern and contemporary world, the incidence of metabolic disorders and diabetes (especially type 2) is rising continuously due to modernization in life style and unhealthy dietary habits. Herbal medicines can be beneficial against such ailments. Indeed, nature is the best cooker of medicines due to the fact that natural products have been optimized to interact optimally with the biological systems through a long natural selection process. Natural products therefore have been a source of therapeutics for millennia, and during the past century many drugs were developed from natural sources. Currently, we are witnessing a great progress in evidence-based modern medicine and pharmacology. The characterization of pharmacological and biological effects of herbal-based medicines is becoming more competitive and complex, with the involvement in this research area of experts belonging to different scientific fields, including botany, chemistry, biochemistry, immunology, molecular biology, and bioinformatics. However, despite this great progress in evidence-based modern medicine and pharmacology, traditional medicinal plants continue to be practiced without regulations in many countries. It is crucial hence to keep on studying medicinal plants efficacy *in vitro* and *in vivo* including their toxicity in order to prevent their abuse.

We invite investigators to contribute original research and review articles dealing with the physiological as well as molecular and biochemical efficacy of medicinal plants and natural active compounds in treating metabolic disorders and diabetes *in vitro* and *in vivo*. We are interested in articles that explore aspects of medicinal plants and their active compounds in metabolic disorders, insulin sensitizing, and particularly in the research of new molecular targets directly related to metabolic disorders, for example, abdominal obesity, dyslipidemia, hypertension, and hyperglycemia and type 2 diabetes mellitus.

Potential topics include, but are not limited to:

- ▶ Isolation and characterization of novel medicinal plants active compounds possessing antidiabetic and metabolic disorders potential benefits
- ▶ Recent advances in drug discovery from medicinal plants with antidiabetic and anti-metabolic disorders potentials
- ▶ Identification and validation of novel targets of medicinal plants and active compounds insulin sensitizer, as well as studies of related fuel metabolism
- ▶ Identification of the cellular target of the effective antidiabetic plant extract(s), for example, proteins and genes involved in the insulin action pathway
- ▶ Medicinal plants affecting gut microbiota and the host's metabolism (associated with diabetes and obesity) and the extraction of energy in animal models

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### Manuscript Due

Friday, 20 May 2016

### First Round of Reviews

Friday, 12 August 2016

### Publication Date

Friday, 7 October 2016

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/ecam/dmdt/>.