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A comprehensive study on ethno pharmacological antidiabetic potential of traditional medicinal plants of India

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In India, from ancient times, different parts of medicinal plants have been used to cure specific diseases and are a major source of many potent and powerful drugs. Of late, natural phytochemicals have gained a lot of attention as they have shown tremendous promise in promoting human health. Diabetes mellitus which is one of the common diseases the world over, has been defined as a group of metabolic disorders distinguished mainly by hyperglycemia induced by impaired insulin secretion, insulin resistance or both entities in varying proportions. Around 90-95% of patients (285 million) suffer with type 2 diabetes (T2D) or non insulin dependent diabetes mellitus. This number might exceed 435 million in 2030 due to life style changes. Despite availability of known antidiabetic drugs in the market, diabetes and its associated complications continue to pose a formidable challenge. In addition to oral agents and insulin therapy, phytotherapy is an alternative that provides a range of natural resources with hypoglycemic effects and has been effectively employed as an antidiabetic and antihyperlipidemic remedy. This presentation will enhance further research on the potential use of medicinal plants having antidiabetic potential including hypoglycemic activity, insulin mimetic activity and antioxidant activity. The study will be invaluable to stakeholders in the fields of ethnopharmacology, natural product chemistry and drug discovery research.

Biography

Elizabeth Margaret N J current position is as a Reader and Head of the Botany department in St. Ann's Degree College for Women, Hyderabad. She completed her M. Sc. (Master of Science), M. Phil. (Master of Philosophy), Ph.D. (Doctor of Philosophy) in Botany. And she is having a professional experience with 33 years of teaching Botanical Sciences. She is working as dean for Student Affairs. She is member of an advisory board - Program Committee at London International Conference on Education (2014 – 2017) London, UK. She published her research articles in National and International Journals.

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