

Special Issue

Plant Extracts with Antihyperglycemic and Antidiabetic Effects

Message from the Guest Editor

Diabetes mellitus is a chronic metabolic disease marked by high blood sugar levels due to abnormal insulin synthesis or action. Currently, the global prevalence of diabetes is 9.3%; this figure will reach 10.2% by 2030 and 10.9% by 2045. In diabetic patients, postprandial hyperglycemia is involved in plasmatic and cellular proteins which take part in the development of diabetes complications. In this regard, diabetes mellitus management requires accurate postprandial glycemic control through decreasing glucose absorption.

Different treatments are currently used to manage diabetes, such as insulin, dietetic therapies, and pharmacotherapy. Since antiquity, people have used plants to perfume themselves, clothe themselves, feed themselves, and heal themselves. Indeed, thanks to the availability, low cost, and therapeutic effectiveness of these natural products, the population rate that uses medicinal plants to treat disease spills is high and estimated as 80%, according to a WHO report. This Special Issue will aim to study the antihyperglycemic and antidiabetic effects of medicinal plant extracts and shed light on the possible mechanisms of these effects.

Guest Editor

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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