

# Diabetes, Hypertension and Metabolic Syndrome

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## Synthetic routes harnessing the plant biodiversity for the better management of diabetes

Diabetes is metabolic syndrome and is major death leading disease due to the glucose over and under production or insulin deficiency. Research into this field has generated the need to pave the unmet path of diabetes treatment. Traditional plants have been used to treat and cure various diseases, and this has led to increased use of medicinal plants in the search for new drugs from nature. The discovery of new drugs is often established based on the knowledge that plant extracts can be used to treat diseases in humans. The plants are potential sources of natural bioactive compounds that are, but not limited to, secondary metabolites. Similarly, we tried to explore the potential of several plants species like *Scoparia Dulcis* and citrus fruits which already possess sugar lowering activities, further helps us in rationalizing the hypothesis for the development of potential synthetic compounds, which showed better activity as compared to marketed antidiabetic drugs.

### Biography

Young Pharmaceutical chemistry Faculty in India, awarded a "Young Researcher award" in the national conference on Recent Trends in Biomedical sciences 2020, India. Researcher in the field of Medicinal Chemistry, Organic Chemistry, Drug Discovery and Design, In-Silico Drug Designing, Molecular Biology and Instrumental Analysis with main focus in discovery of small molecules for the management of Diabetes and Cancer, Synthetic organic chemistry encompassing asymmetric synthesis, Heterocyclic chemistry.

Dr. Kaur has significant research achievements in the field of pharmacy, with a published patent and multiple publications in peer reviewed journals of high repute with a impact factors ranging

from 1.8 – 5.3 (total published papers: 16). SB/FT/CS-087/2014) from 2015 till 2018. In addition to this, Dr. Kaur received University Honor Award of appreciation in Academics (Ph.D, 2015-2018 and M.Pharm, 2013-2015). Also received Best Presentation Award for research during PhD in the International Conference of Pharmacy (ICP- 2017).

She has also supervised many Graduate students for capstone projects and currently supervising 3 graduate students (total guided: 10) and 2 PhD scholars. Dr. Kaur, has been invited as Guest speaker at 18th international conference on Targeted Drug delivery and Drug designing during December 06-08, 2017 at Dallas, Texas, USA. Also served as Presenting Author in prestigious national and international conferences. She is a member of Indian Pharmacy Graduate Association, IPGA. Dr. Kaur has an hindex : 7; i10-index = 7 and citations: 130.

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