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Isolation and characterization of bioactive compounds from some medicinal plants of North East India having anti-diabetic activities**Warjeet S Laitonjam**

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Since ancient times, plants have been an important source of medicine. North-east India is rich of its flora and fauna; the flora of this region includes aromatic and medicinal plants with a number of bioactive compounds. Before the coming of the modern pharmacological medicines, the people of the region were using medicinal plants for the treatment of *Diabetes mellitus*. Even today, people not only in the rural areas but those living in the urban areas are also using these herbal medicines. A report of bioactive compounds isolated from some commonly used medicinal plants of North East India in the indigenous system of health care as anti-diabetics will be highlighted. To study anti-diabetic potential of medicinal plants, first, plants are collected (usually selected on the basis of information obtained from traditional healers and herbalists), extracted and screened for hypoglycemic activity using either *in vitro* or *in vivo* bioassay techniques. Secondly, active ingredients are isolated and identified from plants showing hypoglycemic effects during the screening tests. Thirdly, the blood glucose lowering mechanism of action of the crude plant extract and active ingredients is investigated.

Biography

Warjeet has his expertise in isolation and characterization of bioactive compounds derived from medicinal plants. His area of research work is characterization and synthesis of natural products. He is currently working in department of Chemistry, Manipur University, India.

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