

### **Recent Trends in Herbal Medicine – Attributes to Diabetics**

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### **PLENARY LECTURE**

Today life science research is marching towards providing insights into the crucial events that are involved in life sustenance. The physiological responses to the outcome of the various anthropogenic activities have started to threaten the life sustainability capacity of earth. Unraveling the secrets of life at molecular level could be achieved through molecular biology techniques.

Molecular biology is the branch of biology that deals with the molecular basis of biological activity. It overlaps with other areas of biology and chemistry, particularly genetics and biochemistry. Molecular biology chiefly concerns itself with understanding the interactions between the various systems of a cell, including the interactions between the different types of DNA, RNA and protein biosynthesis as well as learning how these interactions are regulated.

Understanding the molecular mechanisms of the metabolic defects that produce disease is used to find out more and more treatment procedures that are modified from time to time through various research findings.

Diabetes is a disease that is caused due to the involvement of many defects in major metabolic pathways. Currently the uses of herbal preparations have improved the longevity of the patients and are easy to consume and are made available even for the common man. Preparations made from Ginseng, *Gymnema sylvestre*, Garlic, Fenugreek etc have been proven to be rich sources of antioxidants that prevent damages to cells at molecular level. Study of molecular mechanisms can unravel the secrets behind the cause and also the cure for the disease.

It is clear that not only diabetes, other diseases can also be treated effectively

If research is done at molecular level and hence molecular medicine is found to play a major role in future medical research. Recent Trends in Herbal Medicine – Attributes to Diabetics.

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