



Studies in Natural Products Chemistry: Chapter 12. Development and Discovery Avenues in Bioactive Natural Products for Glycemic Novel Therapeutics

Suresh R. Naik, Ganesh R. Kokil

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Bioactive natural products are an excellent source of novel therapeutics. The search for bioactive molecules from nature continues to play a major role in developing new generation natural products of therapeutic importance. The present critical review includes research work carried out by active researchers in natural products' chemistry, pharmacology and therapeutics, and their implications in antidiabetic medications. This compiled scientific information will be a useful resource for future research especially in indentifying promising leads and direction for the development of novel drugs including useful adjuvants for the treatment of diabetic patient. The present therapeutic approaches in the treatment of diabetes are mainly focused to lower the elevated blood glucose by reducing its absorption in gastrointestinal tract, enhancing the sensitivity of insulin, controlling or modulating hepatic glucose output, and increased utilization of the glucose by the peripheral tissues. Involvement of oxidative stress and its impact on the cellular damage in diabetes mellitus has been established and could be a useful paradigm for the development of novel antihyperglycemics along with other therapeutic strategies. The present review also highlights the effects of various herbs, phytoconstituents, phytochemicals, microbial metabolites, and products of marine origins on hyperglycemic/diabetic conditions. Furthermore, efforts were made to discuss novel molecular targets such as insulin-signaling pathways, peroxisome proliferative activating receptor- γ , and G-protein-coupled receptors that are participating in enhancing/influencing insulin secretion, critical carbohydrate metabolism pathways, endoplasmic reticulum stress-related pathways, intracellular events associated intracellular inflammation, and chromatin-modification pathways involvement in antidiabetic activity and their significance.

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