

metabolic syndrome, none of these studies evaluated the mechanisms by which this plant extract perform its anti-hyperglycemic, insulin resistance and anti-obesity actions in metabolic syndrome, which will be a good proceeding toward drug design using this plant material. Hence the need for this awareness to sensitize the researcher in this field who are passionate in drug design to consider the below pathways for *Hunteria umbellata* seeds. *Hunteria umbellata* seed extract may represent a new therapeutic strategy for type-2 diabetes in place of metformin if well studied.

INTRODUCTION

1

A systematic review published by Herman *et al*^[1] revealed that eight out of ten of the world population diagnosed with type-2 diabetes are within developing and developed countries; which indicate the role socio-economic factors played in the demography and dynamics of type-2 diabetes. According to International Diabetes Federation projection, one in every ten (10) adults will be diagnosed with diabetes by 2030^[2]. A year following this press release, type-2 diabetes was described as a global epidemic requiring attention and urgent action^[3]. This data clearly support that expedited actions should be directed towards these countries. Pathophysiologically, failed insulin secretion and insulin resistance drive type-2 diabetes^[4] thus; type-2 diabetes is amenable to insulinotropic drugs^[5]. Due to socio-economic

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ABSTRACT: *Hunteria* is a genus of plant in family Apocynaceae. It comprises of 12 species but more prevalent are *Hunteria umbellata* and *Hunteria zeylanica*. Traditionally *H. umbellata* have been used in the treatment of yaws and sexually transmitted infections, stomach ache, ulcers, diabetes mellitus and dysmenorrhoea. *H. zeylanica* is used to cure prostate but its prolonged use, particularly, at high ...

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A. Adeneye and O. Adeyemi, "Hypoglycemic effects of the aqueous seed extract of *Hunteria umbellata* in normoglycemic and glucose and nicotine induced hyperglycemic rats," International Journal of Natural Products Research, vol. 2, no. 1, pp. 9–18, 2009.

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