

The Enzyme Inhibitory Potentials of Different Extracts from *Linaria genistifolia* subsp. *genistifolia*

Authors : Gokhan Zengin, Abdurrahman Aktumsek

Abstract : The key enzyme inhibitory theory is one of the most accepted strategies in the treatment of global health problems including Alzheimer's Disease and Diabetes mellitus. For this reason, the enzyme inhibitory potentials of different solvent extracts from *Linaria genistifolia* subsp. *genistifolia* were investigated against cholinesterase, and tyrosinase. The in vitro enzyme inhibitory potentials were measured with a microplate reader. The acetone and methanol extracts exhibited the strongest enzyme inhibitory effects on cholinesterase. However, the water extract was only active on tyrosinase. The results suggested that *Linaria genistifolia* subsp. *genistifolia* could be considered as a source of natural enzyme inhibitors for the treatment of major health problems.

Keywords : enzyme inhibitors, cholinesterase, tyrosinase, *linaria*, Turkey

Conference Title : ICBSET 2016 : International Conference on Biological Science, Engineering and Technology

Conference Location : Los Angeles, United States

Conference Dates : April 05-06, 2016