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## Phytochemical and Pharmacological Investigation of *Ocimum canum*

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In the present study the *Ocimum canum* leaf are selected for antidiabetic, hepatoprotective and antioxidant activity. The different solvent extracts of selected medicinal plant were tested for their antidiabetic and hepatoprotective activity. It has been observed that the antidiabetic activity reported by petroleum ether extract of the plants exhibited maximum percentage. Hence, they were further screened for *in-vivo* antioxidant study. In case of hepatoprotective activity the aqueous extract of *Ocimum canum* possesses maximum action. Further its *in-vivo* antioxidant activity was studied. In order to detect the oxidative stress in lipid peroxidation in liver checked its *in-vivo* antioxidant parameter like reduced glutathione (GSH), thiobarbituric acid reactive substances (TBARS), Catalase (CAT) and superoxide dismutase (SOD) which justify the antioxidant property, hepatoprotective and antioxidant effect of the plant.

By through analytical works i.e. by through isolation techniques like TLC, HPLC the responsible phytoconstituents were confirmed. By the help of different spectrophotometric technique like Infrared spectrophotometric techniques and nuclear magnetic resonance techniques the responsible functional groups and the molecular structure of the active constituents were reported. The biochemical observations were supplemented by histopathological examination of pancreas and liver section. In histopathological observation it was showed that the petroleum ether extract of *Ocimum canum* possess effectively antidiabetic and hepatoprotective property. From this study it was concluded that petroleum ether extract of *Ocimum canum* leaf shown antioxidant, hypoglycemic and hepatoprotective action.

### Biography:

Dr. Alok Kumar Dash is working as an Assistant Professor in Institute of Pharmacy, V.B.S. Purvanchal University, U.P., India. His field of research focuses on Medicinal chemistry, Natural Products Chemistry, pharmacological screening of drugs. He has more than 40 publications and 2 patents in his credit. He is having 11 years of experience in research and teaching. He grabs Asian Admirable Achievers globally reputed 'Rashtriya Gaurav Award'-2017, Bharat Vikas Award, "Certificate of Excellence in Reviewing-2017, Best Moderator Award and has been serving as an editorial board member of many International Journal. He had delivered many Invited lecture across the globe like London, Beijing, Lasvegas, USA etc.