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## SYNTHESIS CHARACTERIZATION OF 1-SUBSTITUTED BIPHENYL DERIVATIVES AS ANTI-OXIDANT AGENTS

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A series of [1, 1'-biphenyl]-4-yl)-3-substitued 2-en-1-one derivatives (4a-h) were synthesized by general acylation methods and [1, 1'-biphenyl]-4-yl)2-oxyethyl substituted derivatives were synthesized by Friedal-crafts acylation and then followed by cyclization of respective derivatives afforded targeted compounds (5a-d). The newly synthesized derivative compounds were characterized by IR, H1NMR, 13C NMR, mass analyses and screened for their *in vitro* antioxidant activity (Scavenging of hydrogen peroxide, scavenging of superoxide radical methods).

## BIOGRAPHY

Sridhar Siddiraju has completed his PhD from Berhampur University, India. He is the Professor of Department of Pharmaceutical Chemistry, Malla Reddy College of Pharmacy. He has over 35 publications in various reputed journals. He is Editorial Board Member of reputed Journals.

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