

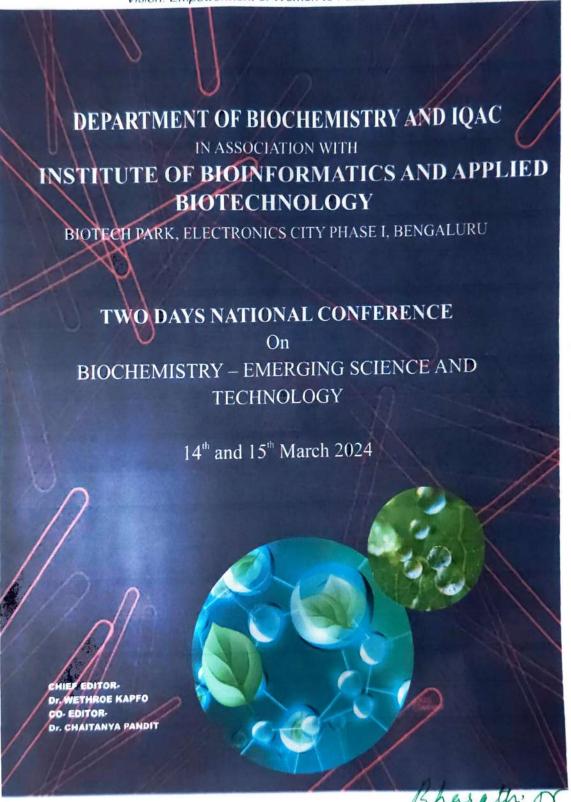
MMK & SDM Mahila Mahavidyalaya

SDM EDUCATIONAL INSTITUTION



Krishnamurthypuram, Mysore
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Current Developments in Phytochemical Research and its Transdisciplinary Applications

MMK & SDM Mahila Mahavidyalaya Krishnamurthypuram, Mysore-570 004

E-PROCEEDINGS OF THE TWO DAYS NATIONAL CONFERENCE ON

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BESTOP08

COMPARISON OF ANTI-DIABETIC ACTIVITY OF SYNTHETIC AND PLANT BASED ARYLTETRALIN DERIVATIVES

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The aryltetralin derivatives were extracted from plant and also synthesized using tetralone as a starting material. They were synthesized by replacing 1, 3-methylene dioxy ring with dimethoxy, hydroxy, methyl, chlorine, and hydrogen and methoxy group. The structure of the final compounds was confirmed by 1 H NMR, 13 C NMR, mass spectra and elemental analysis data and the analogues were screened for anti-diabetic activity. It is noteworthy all the synthesized derivatives exhibits good anti-diabetic activity with respect to extracted aryltetralin compound.

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