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## Synthesis and enzyme inhibition study of dihydrofurocumarin and dihydrofuropyrane compunds

**Asli Ustalar** and **Mehmet Yilmaz** Kocaeli University, Turkey

Coumarin derivatives such as *Scopoletin, Esculatin, Fercoprolone, Hohneliacoumarin, Angelicin, Psoralen and Aureptene* have been found in nature and they possess many biological activities varying from anticancer, antioxidant, antibacterial, antifungal and anticougulant. It is well known that Mn(OAc)3 have been used as radical oxidant in the synthesis of dihydrofuran derivatives forming C-C bond between active methylene compounds and alkenes. In here, we performed the reaction of of 4-hydroxycoumarin and 4-hydroxypyrane with conjugated amide and esters promoted by Mn(OAc)3 leading to dihydrofurocoumarins and dihydrofuropyranes in moderate to good yields. All new compounds were characterisized by spectroscopic techniques. Also, we investigated enzyme (cGMP PDE- cyclic guanozine mono phosphate phosphodiesterase) inhibitions of these compounds.

## **Biography**

Asli Ustalar has completed his MS from Kocaeli University. She is a PhD student in Kocaeli University.

asliustalar@hotmail.com

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