



## Ahindra Nag

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### Biography

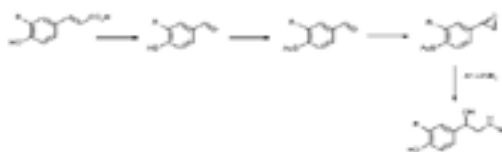
Ahindra Nag is an Associate Professor of Organic Chemistry in Chemistry Department, Indian Institute of Technology, Kharagpur, India. He has 32 years of teaching and research experience. He has published 80 journal papers and 10 text books. He has guided 10 students and was Visiting Scientist and Visiting Professor in different universities such as Taiwan (Academia sinica), Rome (Campobossa) and America (Tennessee).

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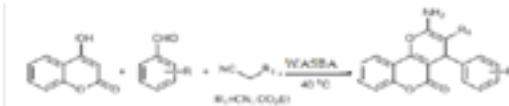
## GREENER PROTOCOLS BIOLOGICAL AND PHARMACEUTICAL COMPOUNDS

$\beta$ -amino alcohols and its derivatives are the versatile intermediates for synthesis of biologically active natural compounds. For ring opening of epoxides, several groups have been used various type of catalyst like lewis acids, metal salts, lanthanide halides, triflates, boranes, heterogeneous catalysis, ionic liquids and alumina. But we have synthesized these derivatives by synthesis of new type of epoxides by using this below mentioned synthetic route (Scheme 1), Where ACC juice has been used. Again, we are interested to synthesize biscoumarins and pyranocoumarins which have also biological and pharmaceutical applications. Biscoumarin and bis indoyl methane which can be used to treat anaphylaxis, cardiac arrest and superficial bleeding has been synthesized using waste material (Scheme 2).

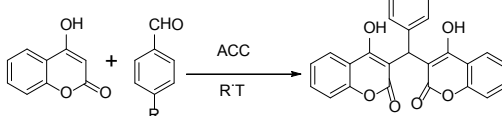
### Scheme 1



### Scheme 2



### Scheme 3



### Scheme 4

