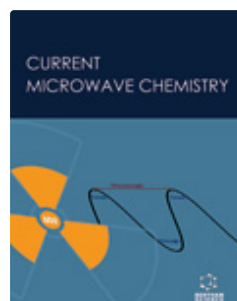




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## Copper Catalyzed Ligand Free Microwave Mediated Synthesis of $\alpha$ -ketoamides from Aromatic Ketones

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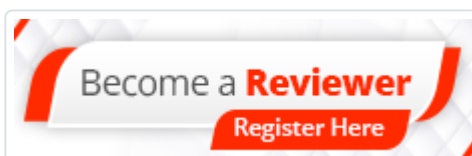
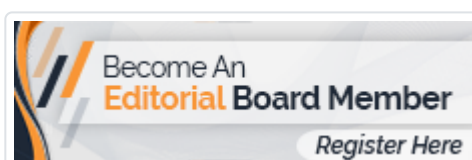
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### Abstract

**Background:** An efficient, microwave assisted, copper catalyzed synthetic protocol for  $\alpha$ - ketoamides has been developed by using secondary amines.

**Methods:** In the synthetic method, the targeted  $\alpha$ -ketoamides were synthesized with the help of microwave by reacting secondary amines and aryl methyl ketones in the presence of copper chloride and hydrogen peroxide.

**Results:**  $\alpha$ -ketoamides were prepared in good yields (within 10mins) with the help of a microwave irradiation. The reported protocol is ligand free and the yields of the derivatives were modest to excellent.

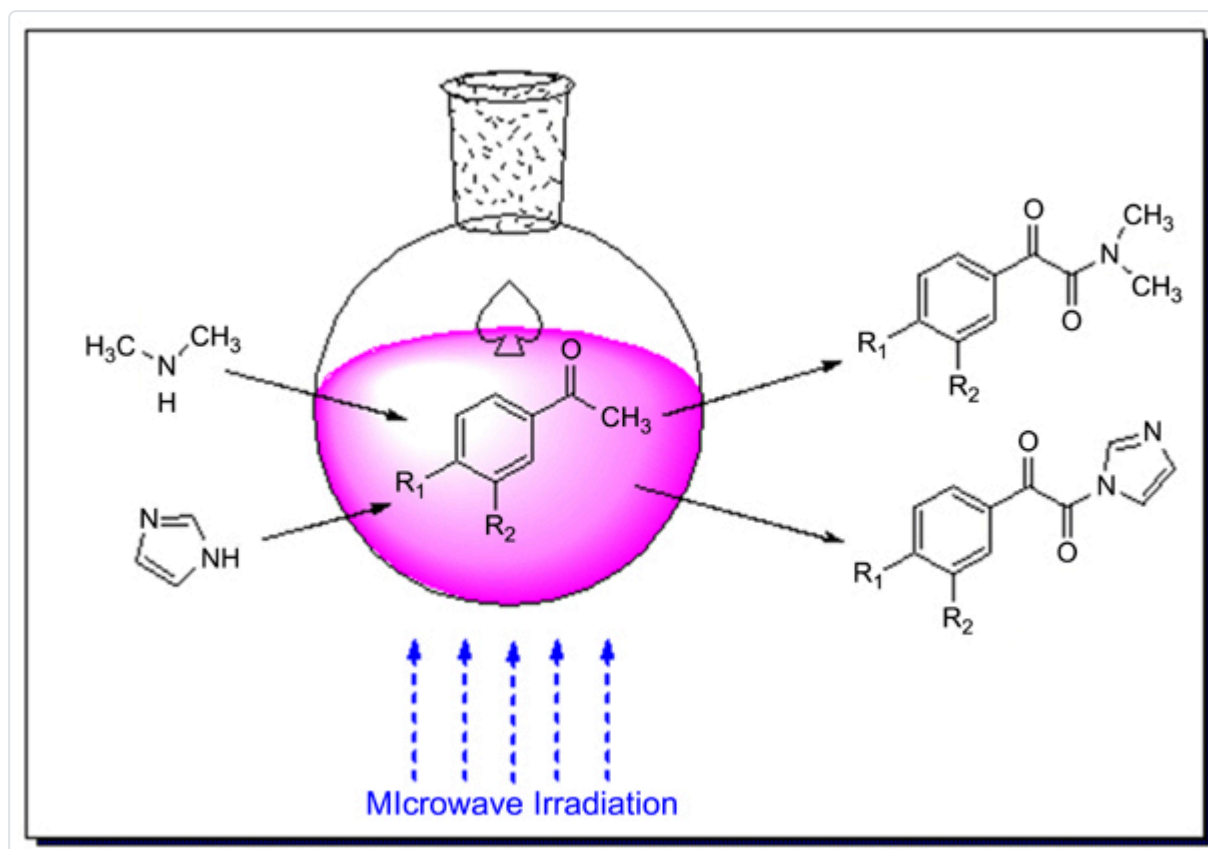
Conclusion: Microwave assisted technique will be a useful alternative method for the preparation of  $\alpha$ -ketoamides.

**Keywords:** [Aryl methyl ketones](#), [copper chloride](#), [microwave](#), [secondary amines](#),  [\$\alpha\$ -ketoamides](#), [synthetic protocol](#).

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