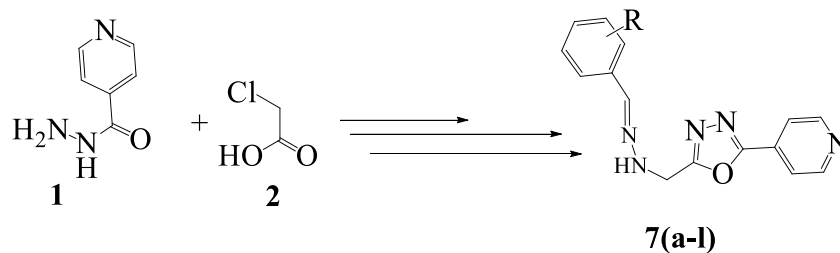


**DESIGN, SYNTHESIS, CHARACTERIZATION AND ANTIOXIDANT PROPERTIES
OF SOME NOVEL OXADIAZOLE DERIVATIVES: STRUCTURE ACTIVITY
RELATIONSHIPS**

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Scheme 1. Synthesis of 1,3,4-oxadiazoles and their derivatives

1,3,4-oxadiazoles and their derivatives, which displayed excellent biological properties like antioxidant agent and anticancer agents [1,2]. A new series of 2,5-disubstituted 1,3,4-oxadiazoles were designed and synthesized by using environmentally friendly approach. All compounds formed in prominent yield and were mainly characterized by ¹H-NMR, ¹³C-NMR and mass spectroscopic studies. Synthesized compounds were screened for their antioxidant potential and showed promising antioxidant results. Among all, methoxy substituted motif gave higher biological activity. While compounds **7d**, **7f** and **7e** delivered excellent biological properties than other compounds. In fact, total compounds gave high antioxidant properties in DPPH method.

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