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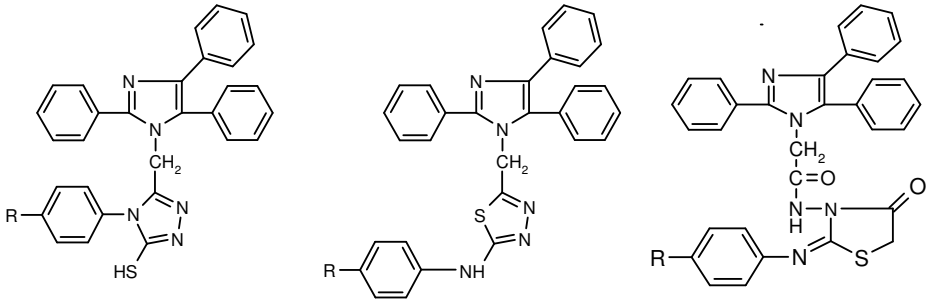
CONTENTS

Papers

207 **Design and synthesis of some azole derivatives containing 2,4,5-triphenyl imidazole moiety as anti-inflammatory and antimicrobial agents**

A series of azole derivatives (**5a-d, 6a-d** and **7a-d**) have been synthesized from (2,4,5-triphenyl-imidazole-1-yl)-acetic acid hydrazide under various reaction conditions. Elemental analysis, IR, ^{1}H NMR and mass spectral data confirmed the structure of the newly synthesized compounds. All the synthesized azole derivatives have been investigated for their anti-inflammatory, antibacterial and antifungal activities and showed moderate to good activity.



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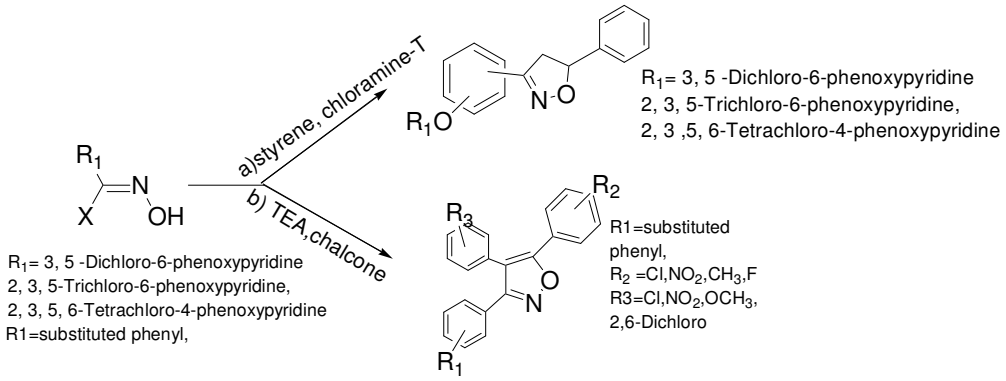
214 **Synthesis of novel 3, 5-disubstituted-4,5-dihydro-isoxazoles and 3,4,5-trisubstituted isoxazoles and their biological activity**

1,3-Dipolar cycloaddition of nitrile oxide generated from substituted pyridinyloxy benzaldoximes with styrene or α,β-unsaturated ketones produces a series of 3,5-disubstituted-4,5-dihydroisoxazoles and 3,4,5-trisubstituted isoxazoles. On the other hand C-chlorooxime reacts with α,β-unsaturated ketones yielding 3,4,5-trisubstituted isoxazoles. The compounds are tested for antimicrobial activity and action on isolated frog heart.



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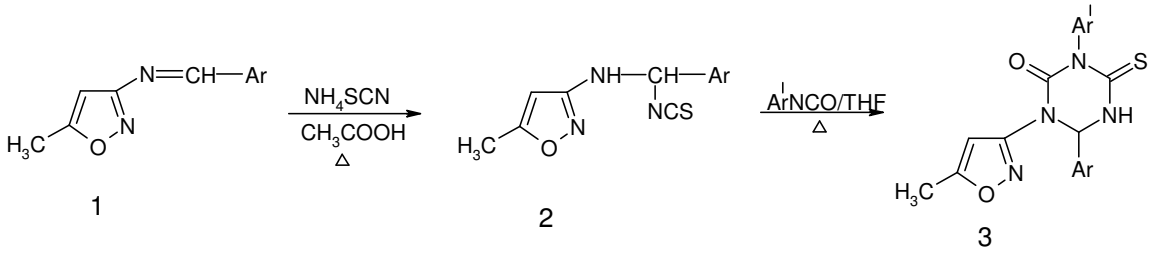

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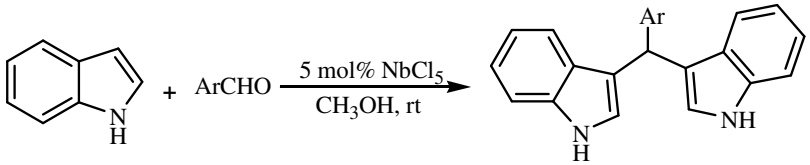
Notes



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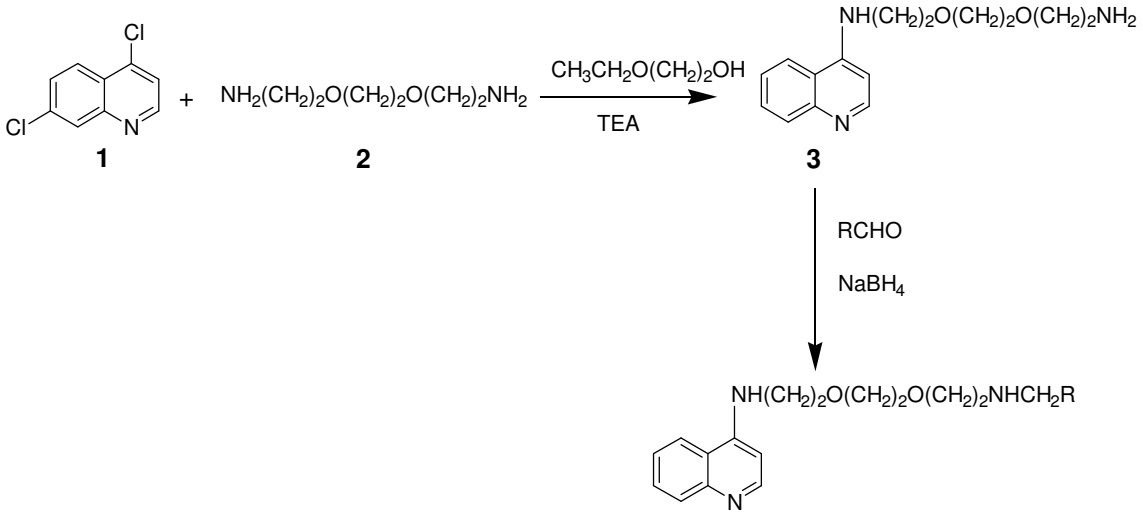
233 **Synthesis and antimalarial activity of novel N-{2-[2-(2-aminoethoxy) ethoxy] ethyl}-7-chloroquinolin-4-amine and its derivatives**

A number of N-{2-[2-(2-aminoethoxy)ethoxy]ethyl}-7-chloroquinolin-4-amine derivatives have been prepared by condensation of N-{2-[2-(2-aminoethoxy) ethoxy] ethyl}-7-chloroquinolin-4-amine with substituted aldehyde and characterized by IR, ^{1}H and ^{13}C NMR, and mass spectral data. These compounds have been screened for *in vitro* antimalarial activity using the Sybr Green assay of *P. falciparum* in culture and the heme detoxification based Heme-HRP assay. 7-Chloro-N-[2-(2-{2-[(2,4-difluoro benzyl) amino] ethoxy} ethoxy) ethyl] quinolin-4-amine has been found to be the most effective with IC_{50} value 60 μM (in Heme-HRP assay) and 48 nM (in *P. falciparum* culture assay). These values compare well with the potency of chloroquine in the respective assays.



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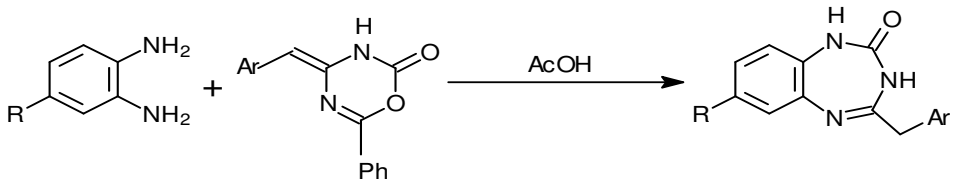
242 **Synthesis of 4-(substituted benzyl)-1*H*, 3*H*-benzo-[*f*]1,3,5-triazepin-2-ones**



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