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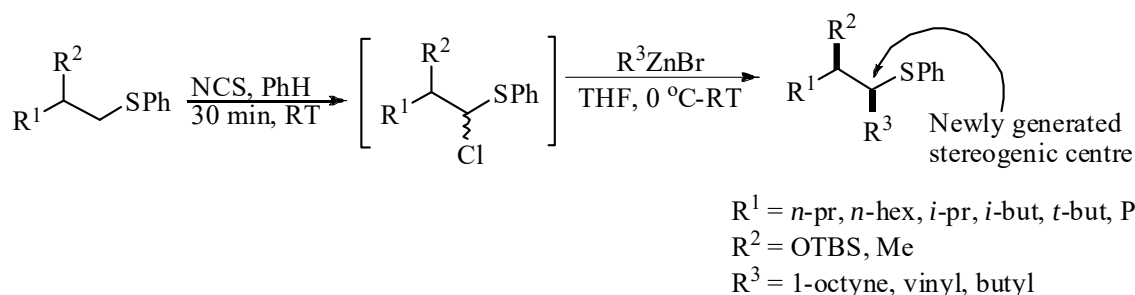
NUMBER 3

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Papers

- 327 Stereoselective carbon–carbon bond formation via 1,2-asymmetric induction by a β -substituent in the reaction of α -chloro sulfides with organozinc reagents



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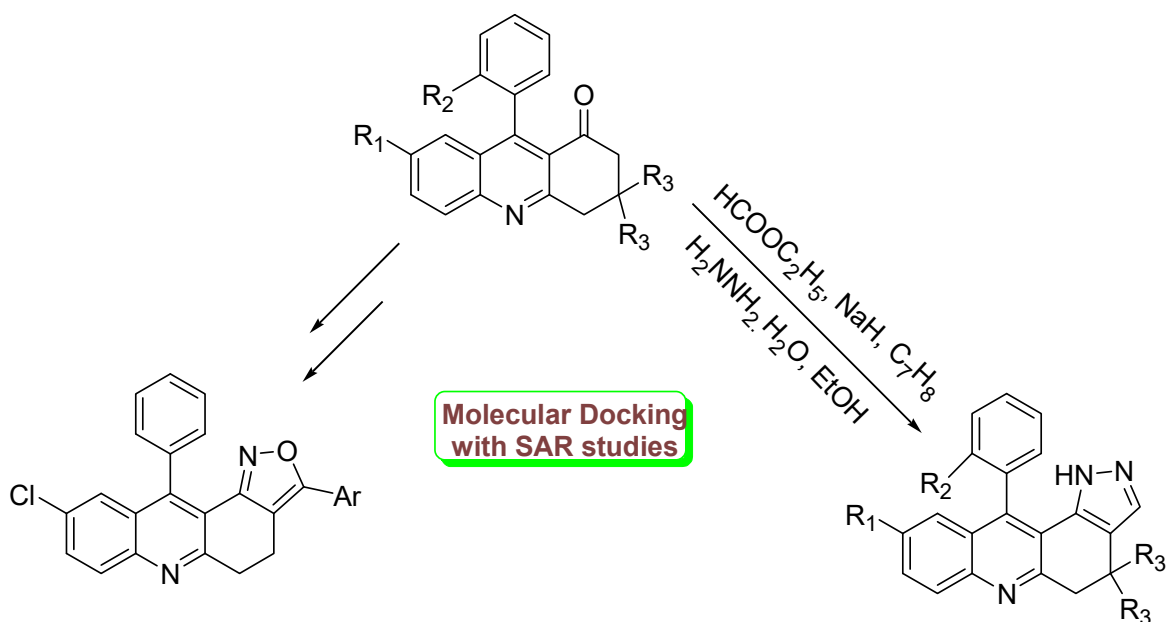
- 340 Chemoselective synthesis of 1,1-diacetates under solvent-free condition using efficient heterogeneous ecofriendly catalyst: P_2O_5 /kaolin

An efficient and chemoselective method for the preparation of acylals from different aldehydes and acetic anhydride using kaolin supported catalyst (P_2O_5) under solvent-free conditions is described herein. The present protocol highlights use of an inexpensive and non-toxic catalyst support *i.e.*, natural kaolin. Preparation of the supported catalyst is easy, the process is simple in operation, maintaining solvent free conditions, with short reaction times, high yields and affording selective protection of aldehyde in presence of ketone.

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- 345 An expedient synthesis of isoxazolo- and pyrazolo-[3,4-*a*]acridines with molecular docking studies** Synthesis of isoxazolo[3,4-*a*]acridines from 7-chloro-9-phenyl-2-(aryl-2'-ylmethylene)-3,4-dihydroacridin-1(2*H*)-one and pyrazolo[3,4-*a*] acridines has been directly achieved from 3,4-dihydro acridin-1(2*H*)-ones by Claisen condensation with ethyl formate/sodium hydride in toluene followed by hydrazine hydrate treatment. All the synthesised compounds have been subjected to docking studies.



R Satheeshkumar, K Praveenkumar, P Shanmughavel & K J Rajendra Prasad*

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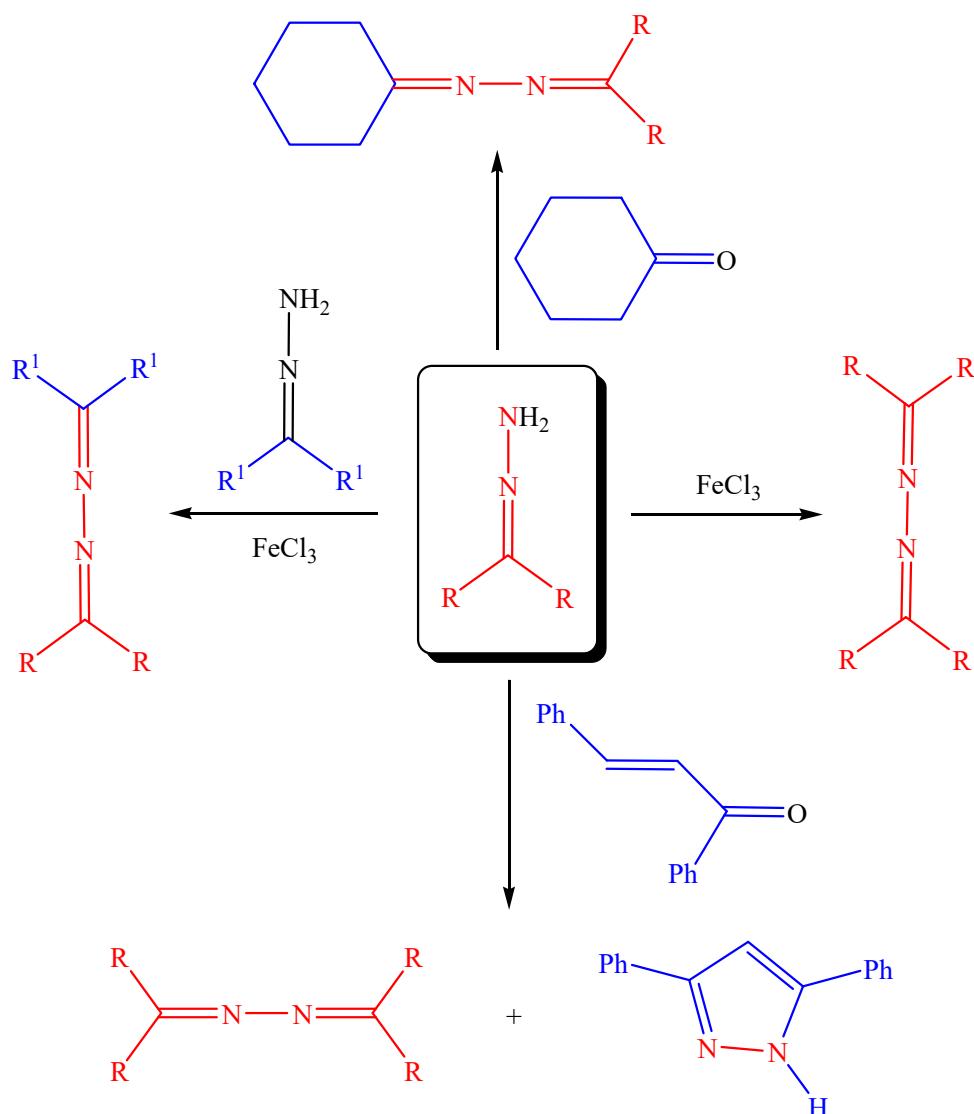
- 355 Synthesis of mordant azo dyes using supported diazonium ions and Brönsted acidic ionic liquids**

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362 Metal-free and FeCl₃-catalyzed synthesis of azines and 3,5-diphenyl-1H-pyrazole from hydrazones and/or ketones monitored by high resolution ESI⁺-MS

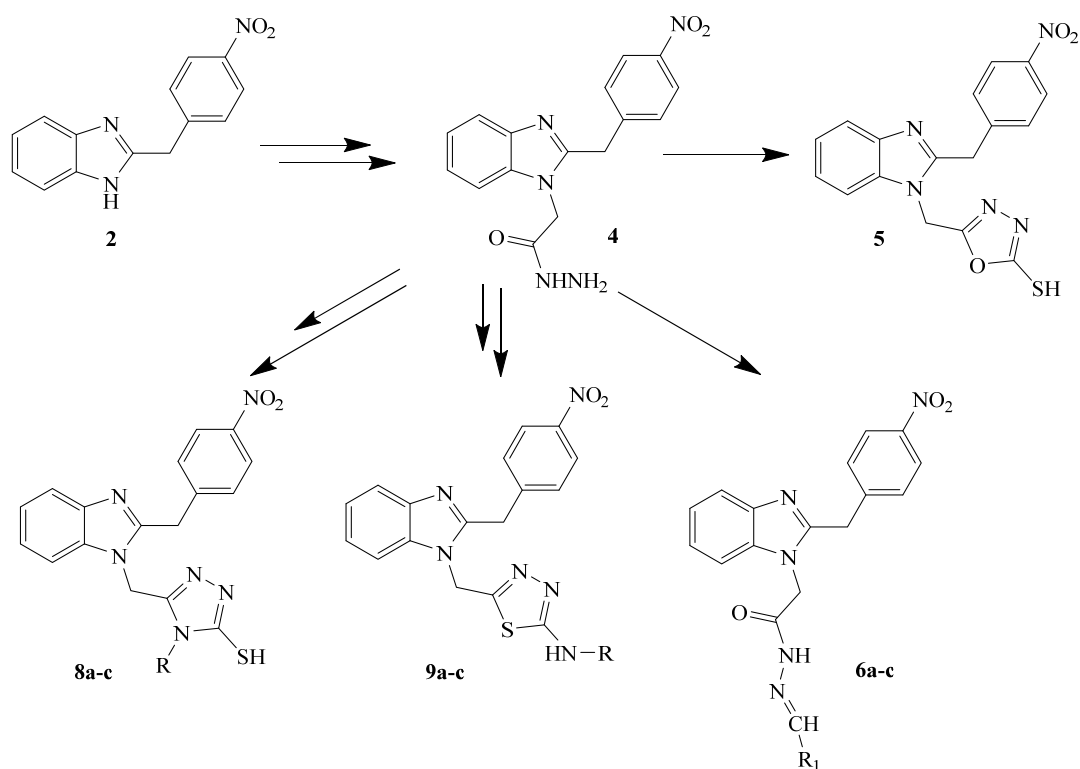
9-Fluorenone azine **2a** or benzophenone azine **2b** have been synthesized, respectively, by treatment of 9-fluorenone hydrazone **1a** or benzophenone hydrazone **1b** with FeCl₃ Lewis acid catalyst in CHCl₃. Treatment of **1a** and **1b** with FeCl₃ affords the asymmetrical azine 1-(diphenylmethylene)-2-(9H-fluoren-9-ylidene)hydrazine **2c**. 1,3-Diphenyl-2-propanone **3** reacts with hydrazine to produce 1-((E)-1,3-diphenylallylidene)hydrazine **3a**. Under prolonged heating, **3a** undergoes a cyclization to yield 3,5-diphenyl-1H-pyrazole **4**. Chalcone **3** reacts with **1a** or **1b** to produce a mixture of **4** and **2a** or **4** and **2b**, respectively. The reaction of cyclohexanone **5** with hydrazine leads to the formation of 1,2-dicyclohexylidene hydrazine **6**. Ketone **5** reacts with **1a** or **1b** to give the asymmetrical azine product **6a** or **6b**, respectively.



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- 374 Synthesis and antioxidant, antiurease and anti-xanthine oxidase activities of some new benzimidazoles bearing triazole, oxadiazole, thiadiazole and imin function



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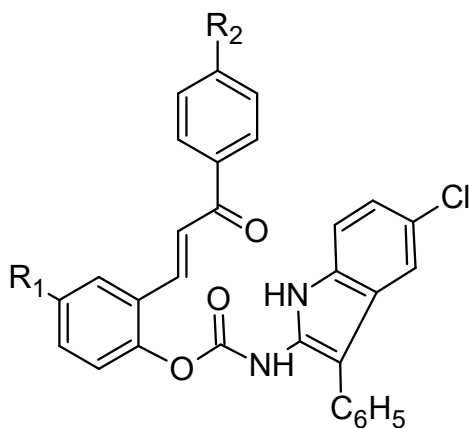
- 385 Synthesis and antimicrobial evaluation of novel 5-substituted-2-(*p*-tert-butylphenyl)benzoxazoles

Meryem Taşcı, Ozlem Temiz-Arpaci*, Fatma Kaynak-Onurdag & Suzan Okten

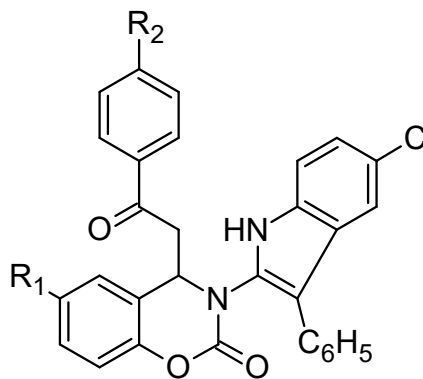
Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry, 06100, Tandogan, Ankara, Turkey

390 **Synthesis and antimicrobial activity of some 5-chloro-3-phenyl-1*H*-indole-2-carbonyl azide derivatives**

In the present investigation, a series of new 6-substituted-3-(5-chloro-3-phenyl-1*H*-indole-2-yl)-3,4-dihydro-4-substituted-phenacyl-2*H*-1,3-benzoxazin-2-ones **7a-f** have been synthesized by two methods. One method is *via* carbamates **6a-f** and another method is directly from 5-chloro-3-phenyl-1*H*-indole-2-carbonyl azide **2** and chalcones **5a-f**. All these compounds have been screened for their antimicrobial activities.



(6 a-f)



(7 a-f)

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