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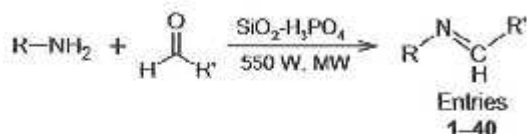
NUMBER 6

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CONTENTS

Papers

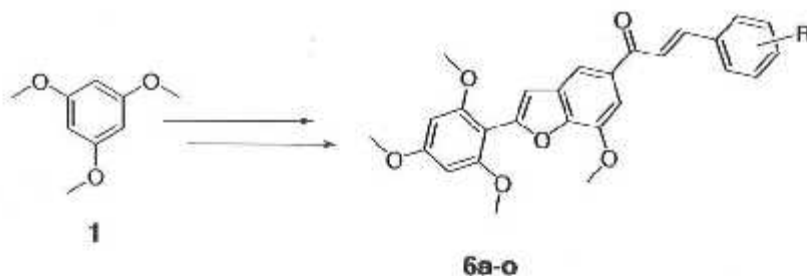
- 779 **SiO₂-H₃PO₄ catalyzed condensation of amines and aldehydes: Solvent-free synthesis of some *E*-imines, spectral correlations of (*E*)-*N*-(substituted benzylidene)-1-benzylpiperidin-4-amines and XRD structure of (*E*)-*N*-(4-nitrobenzylidene)-1-benzylpiperidin-4-amine**
- A series of Schiff bases (aryl *E*-imines) including (*E*)-*N*-(substituted benzylidene)-1-benzylpiperidin-4-amines have been derived from the SiO₂-H₃PO₄ catalyzed solvent-free condensation of aryl amines including 1-benzylpiperidin amines and substituted benzaldehydes under microwave irradiation.



P Mayavel, K Thirumurthy, S Dineshkumar & G Thirunarayanan*

Department of Chemistry, Annamalai University, Annamalainagar 608 002, India

- 791 **Synthesis of chalcone derivatives of benzo[h]furan as potential antibacterial agents**

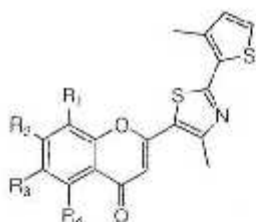


Krishna Reddy V, Venkateswara Rao J*, Bhaskar Reddy I, Ram B & Balram B

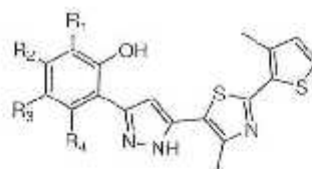
Department of Chemistry, Bapatla Engineering College, Bapatla 522 101, Guntur (Dist), India

798 **Synthesis and biological screening of some novel thiazolyl chromones and pyrazoles**

Esterification of acid **2** with 2-hydroxy acetophenones **1** yields compound **3** which are converted to β -diketones **4** by Baker-Venkattraman transformation. A series of 2-substituted chromones **5** are obtained by acid catalysed intramolecular cyclization of β -diketones. Substituted pyrazoles **6** have been obtained from chromones **5**. All the synthesized compounds are confirmed by the spectroscopic techniques. Chromones and pyrazoles have been evaluated for their antibacterial and antifungal efficacy.



5b-f



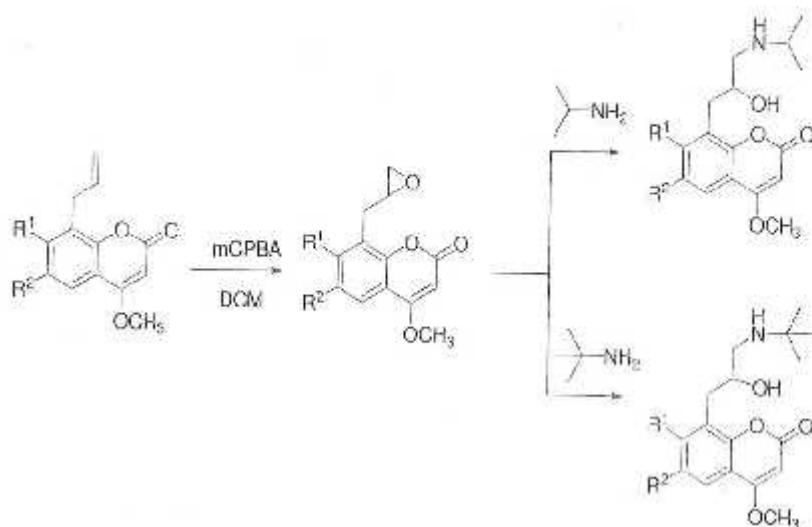
6b-f

B K Karale*, S J Takate, S P Salve, B H Zaware & S S Jadhav

Department of Chemistry, Radhabai Kale Mahila Mahavidyalaya (University of Pune), Ahmednagar 414 001, India

805 **Synthesis of novel 8-[2-hydroxy-3-(alkylamino)propyl]-4-methoxy coumarins**

A series of new 8-[2-hydroxy-3-(alkylamino)propyl]-4-methoxy coumarins have been synthesized from 3-allyl-2-hydroxy acetophenones *via* key intermediate 8-(2-oxetane methyl)-4-methoxy coumarins by regioselective opening of epoxide with alkyl amines.



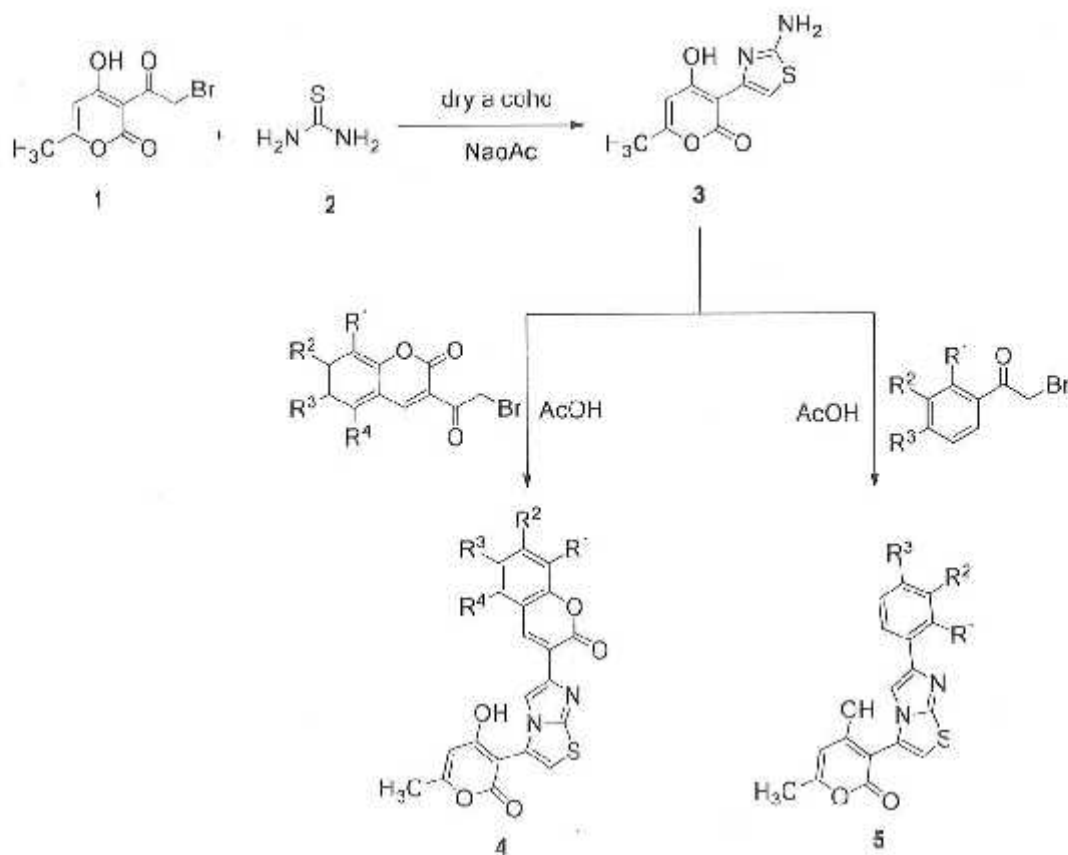
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Notes

811 Synthesis of substituted 3-(3-(4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl)imidazo[2,1-b]thiazol-6-yl)-2H-chromen-2-ones and substituted 4-hydroxy-6-methyl-3-(6-phenylimidazo[2,1-b]thiazol-3-yl)-2H-pyran-2-one derivatives

An easy, highly efficient and a new convenient two-step approach to the synthesis of 3-(3-(4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl)imidazo[2,1-b]thiazol-6-yl)-2H-chromen-2-one derivatives and 4-hydroxy-6-methyl-3-(6-phenylimidazo[2,1-b]thiazol-3-yl)-2H-pyran-2-one derivatives is described. These compounds have been synthesized from 3-(2-bromoacetyl)-4-hydroxy-6-methyl-2H-pyran-2-one, thiourea, various 3-(2-bromoacetyl)-2H-chromen-2-ones and phenacyl bromides in good yields. The structures of newly prepared compounds have been confirmed by their analytical and spectral data.

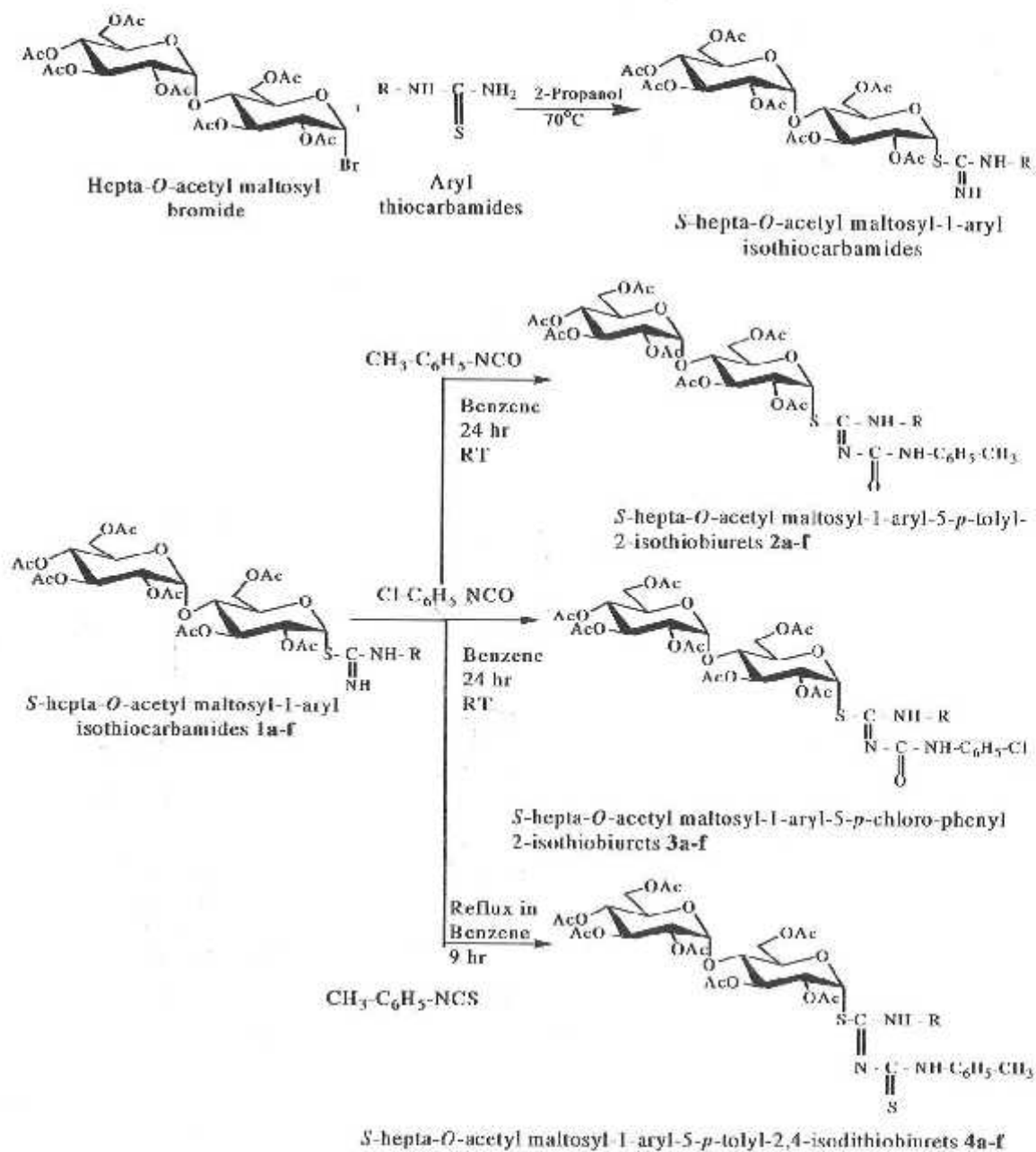


Bade Thirupaiah & Rajeswar Rao Vedula*

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815 Synthesis and characterization of per-acetylated *S*-maltosyl 2-isothiobiurets and 2,4-isodithiobiurets and their *in vitro* antimicrobial activity

A series of *S*-hepta-*O*-acetyl-maltosyl-1-aryl-5-*p*-tolyl-2-isothiobiurets, *S*-hepta-*O*-acetyl-maltosyl-1-aryl-5-*p*-chloro-phenyl-2-isothiobiurets and *S*-maltosyl-1-aryl-5-*p*-tolyl-2, 4-isodithiobiurets have been synthesized by the interaction of various *S*-hepta-*O*-acetyl maltosyl-1-aryl isothiocarbamides with *p*-tolyl isocyanate, *p*-chloro-phenyl isocyanate and *p*-tolyl isothiocyanate respectively.

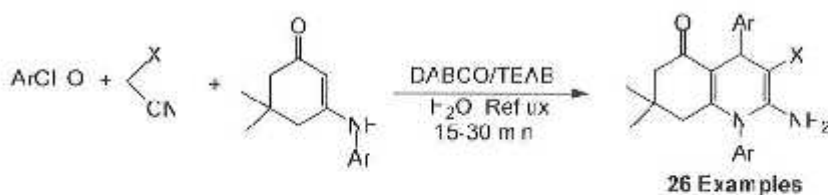


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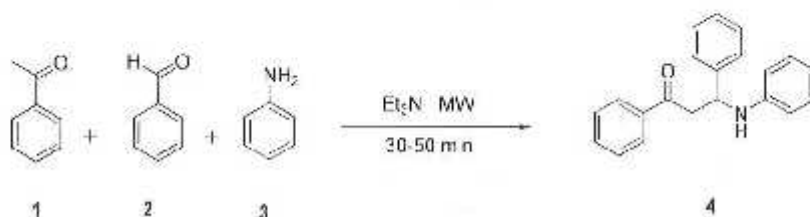
821 **Eco-friendly and ingenious multicomponent synthesis of *N*-arylquinolines using DABCO/TEAB in water**

An easy, improved, and environmentally benign synthesis of *N*-arylquinolines is reported *via* one-pot multicomponent reaction of aromatic aldehydes, active methylene compounds and 3-arylamino-5,5-dimethylcyclohex-2-enone utilizing catalytic amount of combined diazabicyclo-2,2,2-octane (DABCO) and tetrabutylammonium bromide (TEAB) in water under reflux in excellent yields.



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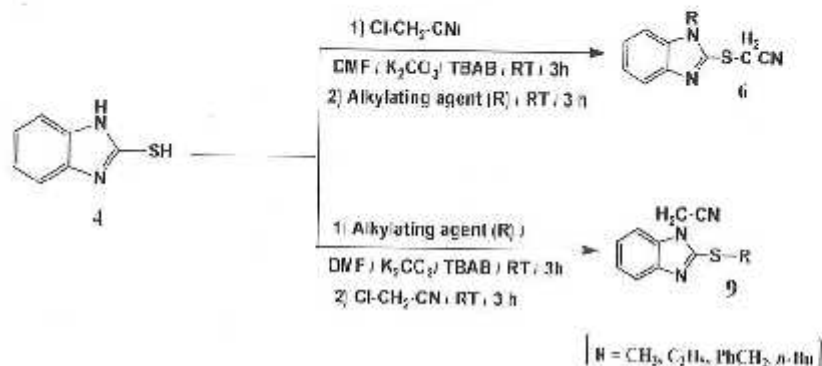
825 **Synthesis of β -aminoketone by reaction of amide and activated chalcone in microwave irradiation**

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829 **Highly efficient tandem syntheses of unsymmetrically substituted isomeric *S,N*-disubstituted-2-mercaptobenzimidazoles**

Syntheses of unsymmetrically substituted isomeric *S,N*-disubstituted-2-mercaptobenzimidazoles have been developed *via* tandem fashion by treatment of 2-mercaptobenzimidazole **4** with chloroacetonitrile.

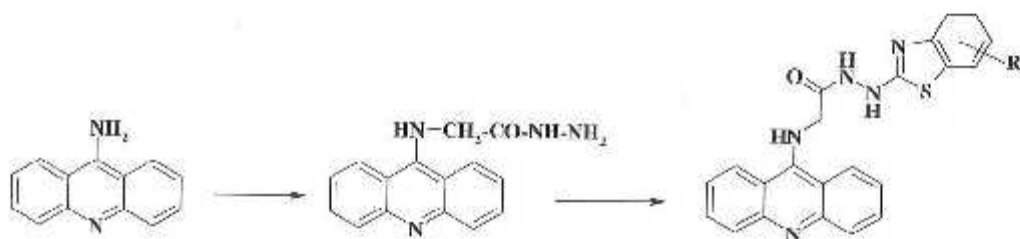


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833 **Ecofriendly synthesis of some benzothiazoles containing acridine moiety and their antimicrobial activity**

Efficient synthesis of benzothiazoles containing acridine moiety have been attempted by employing environmentally benign microwave method at room temperature. (Acridin-9-yl-amino)-acetic acid *N*-(benzothiazol-2-yl) hydrazides have been prepared by intramolecular oxidative cyclisation of (acridin-9-yl-amino)-acetic acid *N*-(*N'*-aryl-thioamido)-hydrazides using bromine in acetic acid. The structures of title compounds have been established by IR, ^1H NMR and mass spectroscopic data besides elemental analysis. This developed synthetic route is found to be satisfactory with improved yields, easy work up procedure with no environmental pollution. All the compounds are screened for their antimicrobial response against some selected microorganisms.



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