

# Indian Journal of Chemistry

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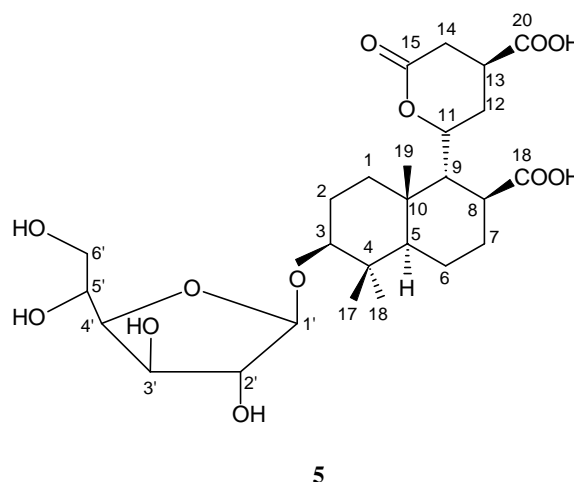
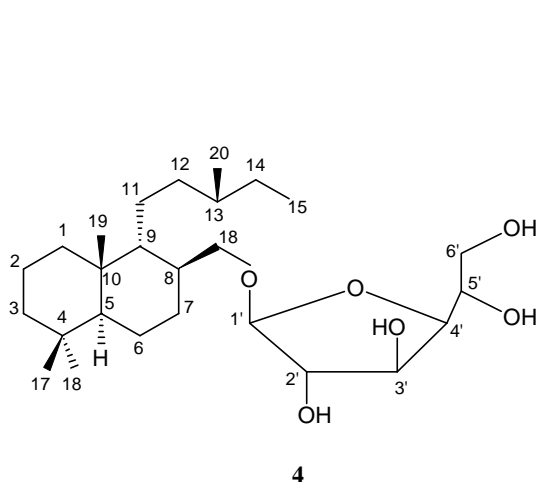
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#### Papers

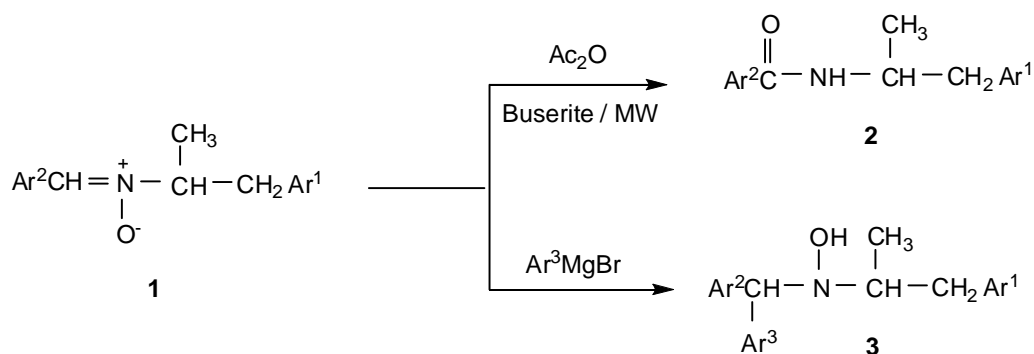
- 641 Diterpenic labdane galactofuranosides from the roots of *Calotropis procera* (Ait.) R. Br.**
- Two labdane-type diterpenic galactosides characterized as labdan-18-ol- $\beta$ -D-galactofuranoside **4** and labdan-3 $\beta$ -ol-11,15-olide-18,20-dioic acid-3 $\beta$ -D-galactofuranoside **5** have been isolated for the first time from the roots of *Calotropis procera* (Ait.) R. Br. (Asclepiadaceae) along with the known compound *n*-decanoyl- $\beta$ -D-glucopyranoside **1**, *n*-hexacosanoyl- $\beta$ -D-glucopyranoside **2** and *n*-octadecanoyl- $\beta$ -D-glucopyranoside **3**. The structures of all these phytoconstituents have been established on the basis of spectral data analysis and chemical reactions.



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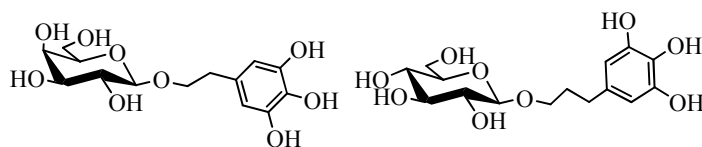
- 646 Acetic anhydride induced rearrangement and Grignard addition on C-phenyl-N-(1-methyl-2-aryl)ethyl nitrones** Acetic anhydride induced rearrangement of C-phenyl-N-(1-methyl-2-aryl)ethyl nitrones and the addition of Grignard reagent on these nitrones, yielding substituted amides and hydroxylamines respectively, have been described.



**Chinnadurai Amutha, Sivaperuman Saravanan & Shanmugam Muthusubramanian\***

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- 654 Synthesis of salidoside analogues and their ability of DPPH radical scavenging activity** 2-(3,4,5-Trihydroxyphenyl)ethyl  $\beta$ -D-galactopyranoside and 3-(3,4,5-Trihydroxyphenyl)propyl  $\beta$ -D-glucopyranoside exhibited significant activity with  $\text{EC}_{50}$  values of 35.85  $\mu\text{M}$  and 36.71  $\mu\text{M}$ , respectively.

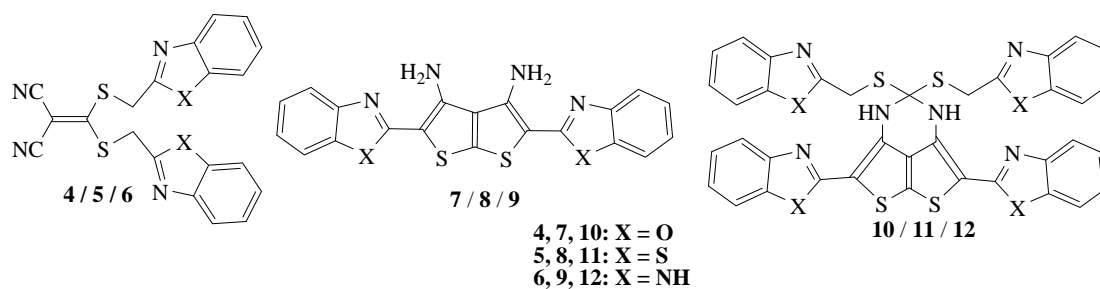


**Cheng Zheng, Yibing Guo, Ying Meng, SuFeng Dou, Jian Shao & YuMin Yang\***

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## 665 Heterocyclization reactions of ketene dithiolates

The reaction of ketene dithiolates in the presence of  $K_2CO_3$  lead to bithioalkylated products and thienothiophene derivatives depending on the strength of the base. The 1,5-diamino groups in thienothiophene compounds are subjected to heterocyclization under PTC conditions to get a variety of fused heterocycles.

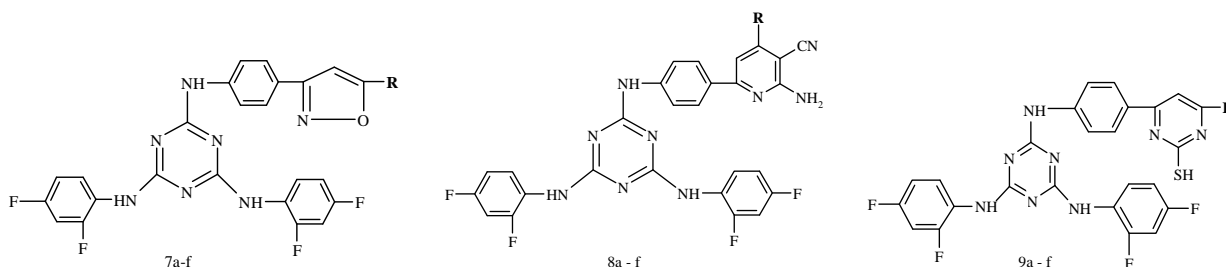


**Bhumireddy Chinnachennaiahgari Venkatesh, Nabhubygari Mahaboob Basha, Adivireddy Padmaja & Venkatapuram Padmavathi\***

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## 671 Antimicrobial evaluation of some novel isoxazoles, cyanopyridines and pyrimidinthiones

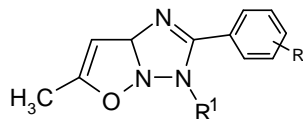
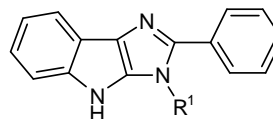
The title compounds **7a-f**, **8a-f** and **9a-f** have been prepared from chalcones **6a-f** having *s*-triazine nucleus. These chalcones on cyclisation with hydroxyl amine hydrochloride in the presence of alkali and malononitrile in the presence of ammonium acetate give isoxazoles **7a-f** and cyanopyridines **8a-f** respectively. Chalcones **6a-f** on condensation with thiourea in the presence of alkali give pyrimidinthiones **9a-f**. Structures of newly synthesised compounds have been established on the basis of their elemental analysis, IR and  $^1H$  NMR spectral data. All the synthesised compounds have been screened for their antimicrobial activity.



**Anjani Solankee\*, Kirti Patel & Rajnikant Patel**

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- 677** **Synthesis of some new isoxazolyldihydro[1,2,4]triazolo[1,5-*b*] isoxazoles and dihydroimidazo[4,5-*b*]indolylisoxazoles as possible biodynamic agents** Synthesis of new isoxazolyldihydro[1,2,4]triazolo[1,5-*b*]isoxazoles and imidazo[4,5-*b*]indolyl isoxazoles have been achieved by interaction of isoxazole Schiff base with isoxazole amines and isatin respectively.

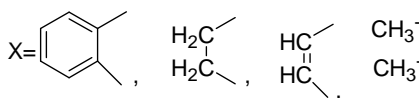
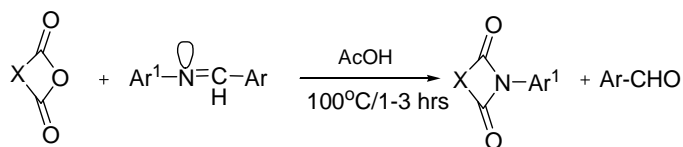
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### Notes

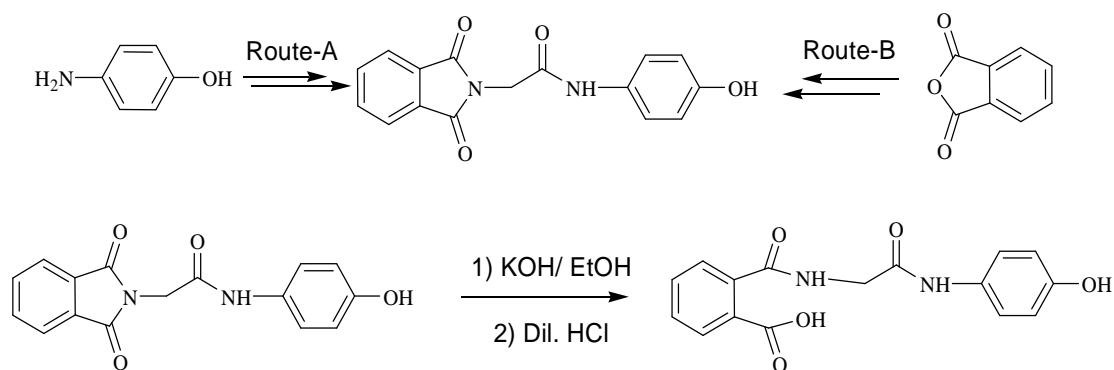
- 686** **Studies on reactions of anhydrides with Schiff bases** Reactions of various anhydrides with Schiff bases, which are sources of both amines and aldehydes, have been studied.



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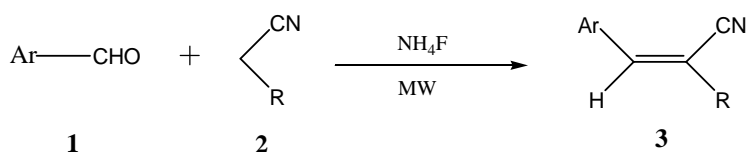
- 691** **Synthesis of a novel water soluble phthalimide derivative of acetaminophen as potential analgesic and antipyretic agent** A short process for the preparation of water soluble, potential analgesic compound, N-[(4-hydroxy-phenylcarbamoyl)-methyl]-phthalamic acid has been developed.



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- 694** **Ammonium fluoride as an inexpensive catalyst for Knoevenagel condensation in solvent-free conditions under microwave irradiation** Ammonium fluoride ( $\text{NH}_4\text{F}$ ) has been found to be an inexpensive catalyst for Knoevenagel condensation between aromatic aldehydes **1** and active methylene compounds **2** to afford arylidene derivatives **3** in excellent yields.

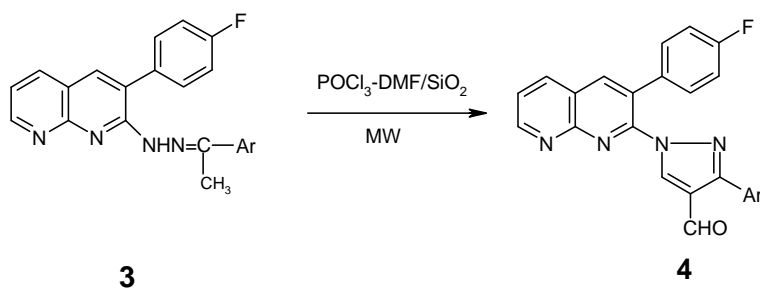


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**698 Green synthesis and antibacterial activity of 3-aryl-4-formyl-1-[3-(4-fluorophenyl)-1,8-naphthyridin-2-yl]pyrazoles**

An efficient and convenient method for the synthesis of 3-aryl-4-formyl-1-[3-(4-fluorophenyl)-1,8-naphthyridin-2-yl]pyrazoles **4** from acetophenone 3-(4-fluorophenyl)-1,8-naphthyridin-2-ylhydrazones **3** is achieved using  $\text{POCl}_3$ -DMF over silica gel under microwave irradiation. The structural assignments of compounds **3** and **4** are based on their elemental analyses and spectral (IR,  $^1\text{H}$  NMR and MS) data. The compounds **4** have been screened for their antibacterial activity.



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