Website address: www.niscair.res.in; http://nopr.niscair.res.in

Indian Journal of Chemistry

Sect. B: Organic Chemistry including Medicinal Chemistry

VOL. 58B

NUMBER 9

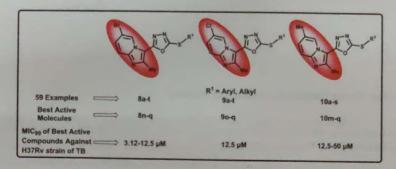
September 2019

CONTENTS

Papers

Synthesis of 1,3,4-oxadiazole and imidazo[1,2-a]pyridine based molecular hybrids and their in vitro antituberculosis and cytotoxicity studies

1,3,4-Oxadiazole substituted imidazo[1,2-a]pyridine based molecular hybrids have been synthesized and evaluated against *Mycobacterium tuberculosis* H37Rv. Out of 59 compounds synthesized, ten compounds show activity in the range of 3.125-12.5 µM.



Shiv Shyam Maurya, Tannu Priya Gosain, Saqib Kidwai, Ramandeep Singh & Diwan S Rawat*

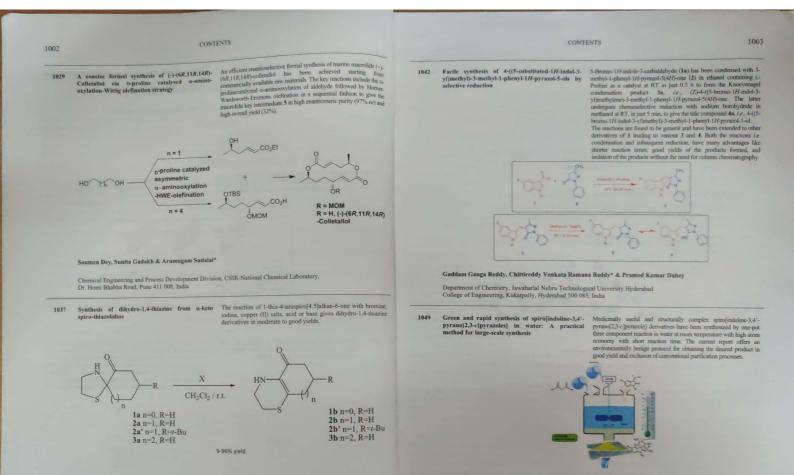
Department of Chemistry, University of Delhi, Delhi 110 007, India

1019 Proline catalyzed sequential α-amination/ Prins/ Ritter amidation of aldehydes: New method of construction of tetrahydropyran units

An efficient "one-pot" synthetic method toward highly substituted tetrahydrofuran (THP) units is reported. The key transformation involves an atom-efficient sequential proline catalyzed α -amination of aldehydes to give α -aminated aldehydes in situ and the subsequent cyclomerization with homoallylic alcohols under Prins/Ritter conditions. Notably, this method provides access to enantiopure 1,2-syn and 1,4-anti diaminoalcohols via reductive ring opening of THP units.

Brijbhushan Ahuja, Sunita Gadakh & Arumugam Sudalai*

Chemical Engineering and Process Development Division, CSIR-National Chemical Laboratory, Dr. Homi Bhabha Road, Pune 411 008, India



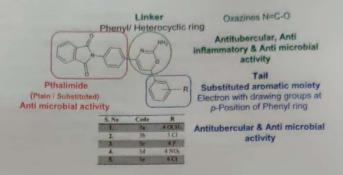
INDIAN J CHEM, 58B (9)2019

Takamitsu Utsukihara*, Masatoshi Matsushita, Eri Miyamoto, Hikaru Murakami & C Akira Horiuchi

Hakodate National College of Technology, Tokura-cho, Hakodate 042-8501, Japan

INDIAN J CHEM, 58B (9)2019

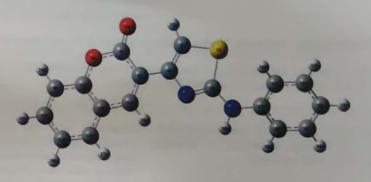
Design, docking, synthesis and biological evaluation of novel isoindole-1,3-(2H)-diones



T Raj Kumar* & L V Vamsi Krishna

Department of Pharmaceutical Chemistry, Creative Educational Society's College of Pharmacy, NH-7, Chinnatekur, Kurnool 518 218, India

1063 Geometrical and electronic parameters of 2arylamino-4-(3-coumarinyl)thiazoles by means of theoretical method



J Brindha, S Mahil Rani, V S Chithra & T F Abbs Fen Reji*

Department of Chemistry, Nesamony Memorial Christian College, Marthandam 629 165, India

Authors for correspondence are indicated by (*)