CSIR-NIScPR

34

Indian J Chem (Monthly)
MARCH 2025
CODEN: IJCNI6 64(3)257-342(2025)
ISSN: 0019-5103 (Print); 2583-1321(Online)
indjchem@niscpr.res.in

सीएसआईआर
CSIR
भारत का नवाचार इंजन
The Innovation Engine of India

A CSIR PUBLICATION

Indian Journal of Chemistry

23/4/25
SB

CSIR-National Institute of Science Communication and Policy Research
New Delhi, INDIA

https://niscpr.res.in

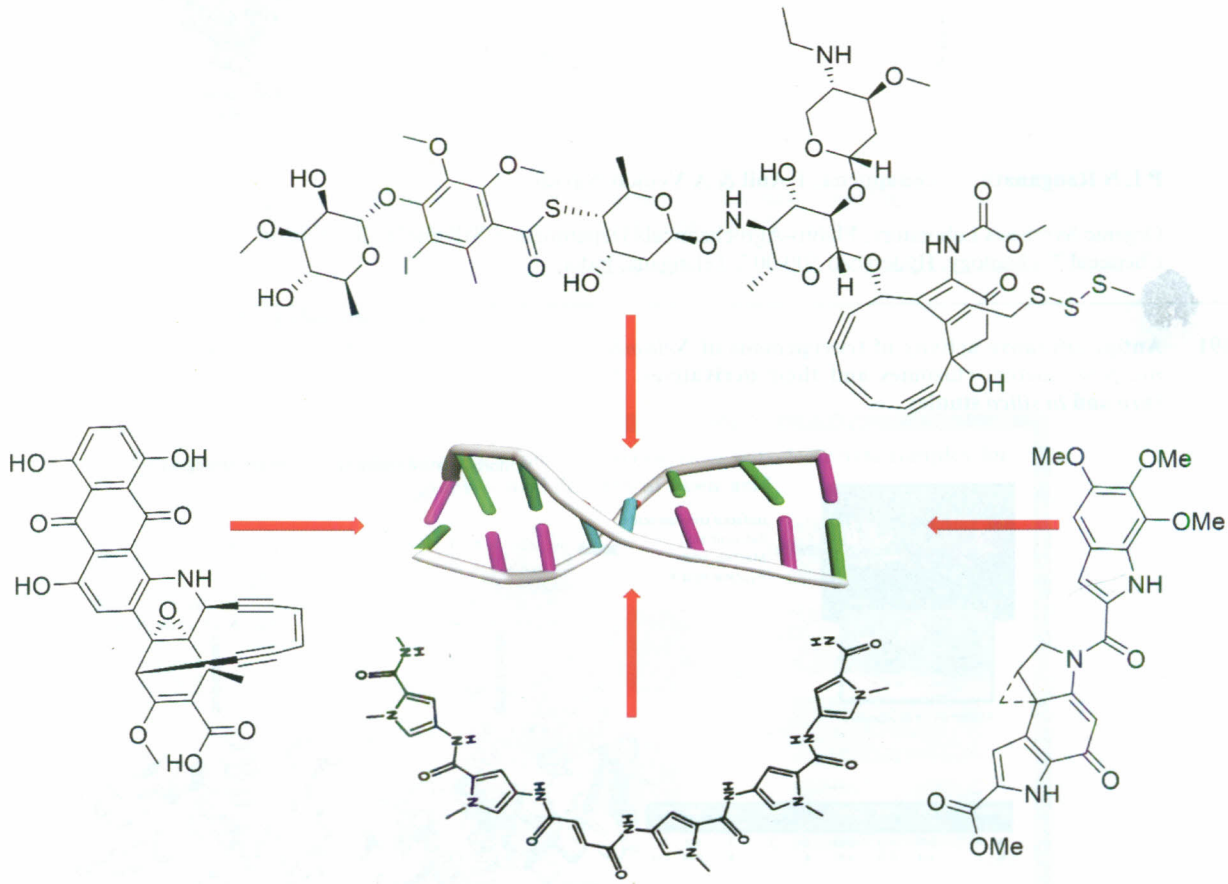
Website address: www.niscair.res.in; http://nopr.niscair.res.in

Indian Journal of Chemistry

VOL. 64 NUMBER 3 MARCH 2025

CONTENTS

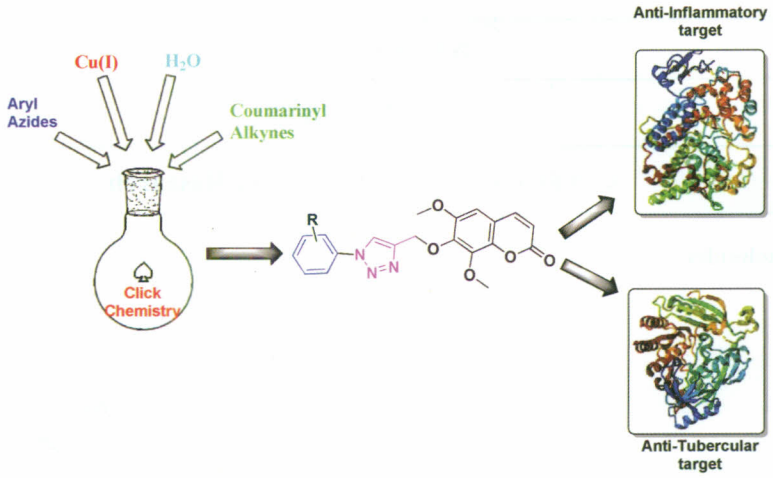
Advances in Contemporary Research



P K Harrishnarayanan, Shreya Banerjee & Erode N Prabhakaran*

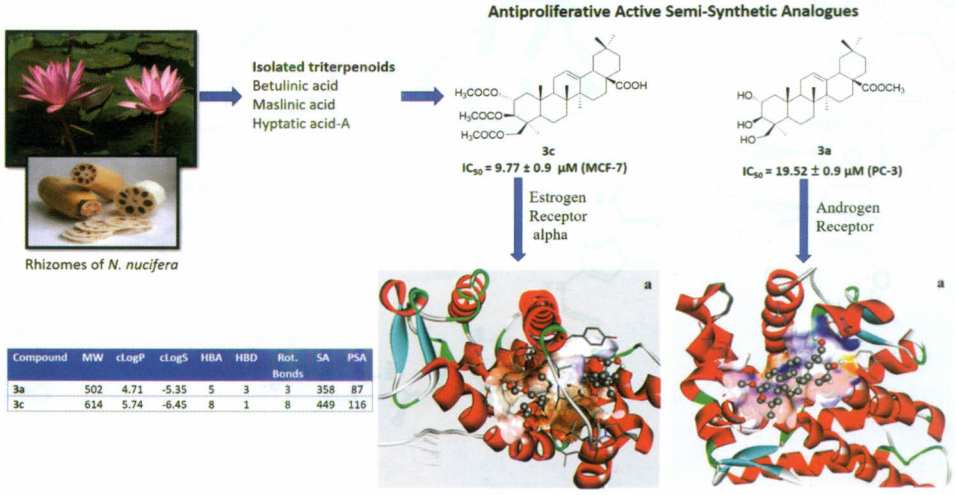
Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, Karnataka, India

Papers



P L N Ranganath, K Annapurna, T Anil & A Venkat Narsaiah*

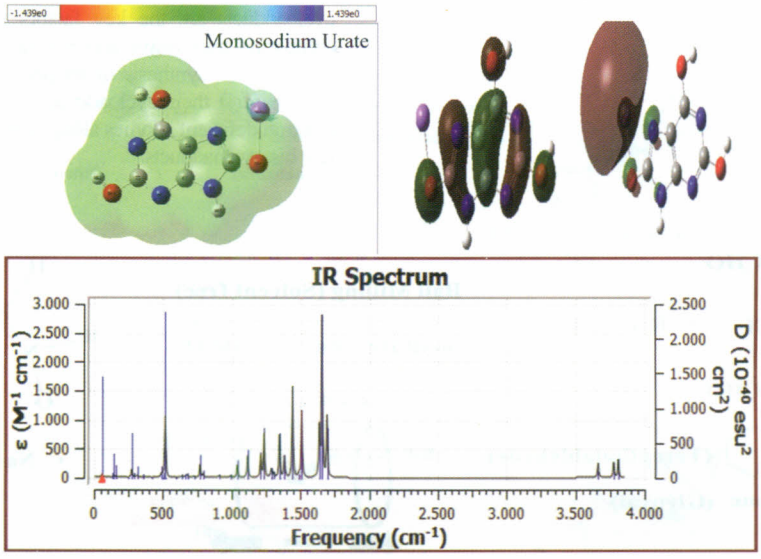
Organic Synthesis Laboratory, Fluoro-Agrochemicals Department, CSIR-Indian Institute of Chemical Technology, Hyderabad 500 007, Telangana, India



Compound	MW	cLogP	cLogS	HBA	HBD	Rot. Bonds	SA	PSA
3a	502	4.71	-5.35	5	3	3	358	87
3c	614	5.74	-6.45	8	1	8	449	116

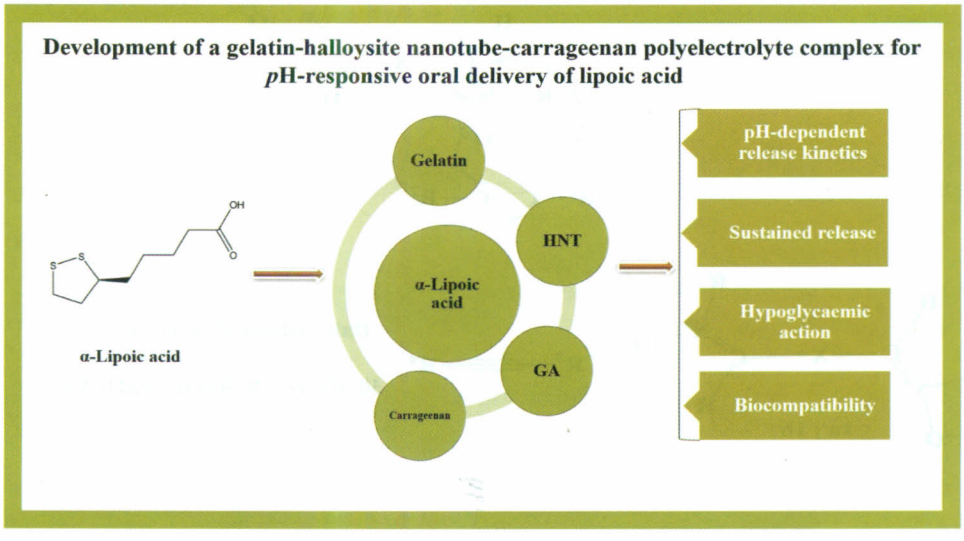
Deepika Singh*, Shiv Kumar, Mahendra P Darokar & Prabir K Chaudhuri

Medicinal Chemistry Division, CSIR-Central Institute of Medicinal and Aromatic Plants, PO CIMAP, Lucknow 226 015, India



M Bouha*, M Echajia, H Essassaoui, Y Aassem & M Berkani

Laboratory of Engineering in Chemistry and Physics of Matter, Department of Chemistry and Environment, Faculty of Science and Technics, Sultan Moulay Slimane University, Beni Mellal, Morocco

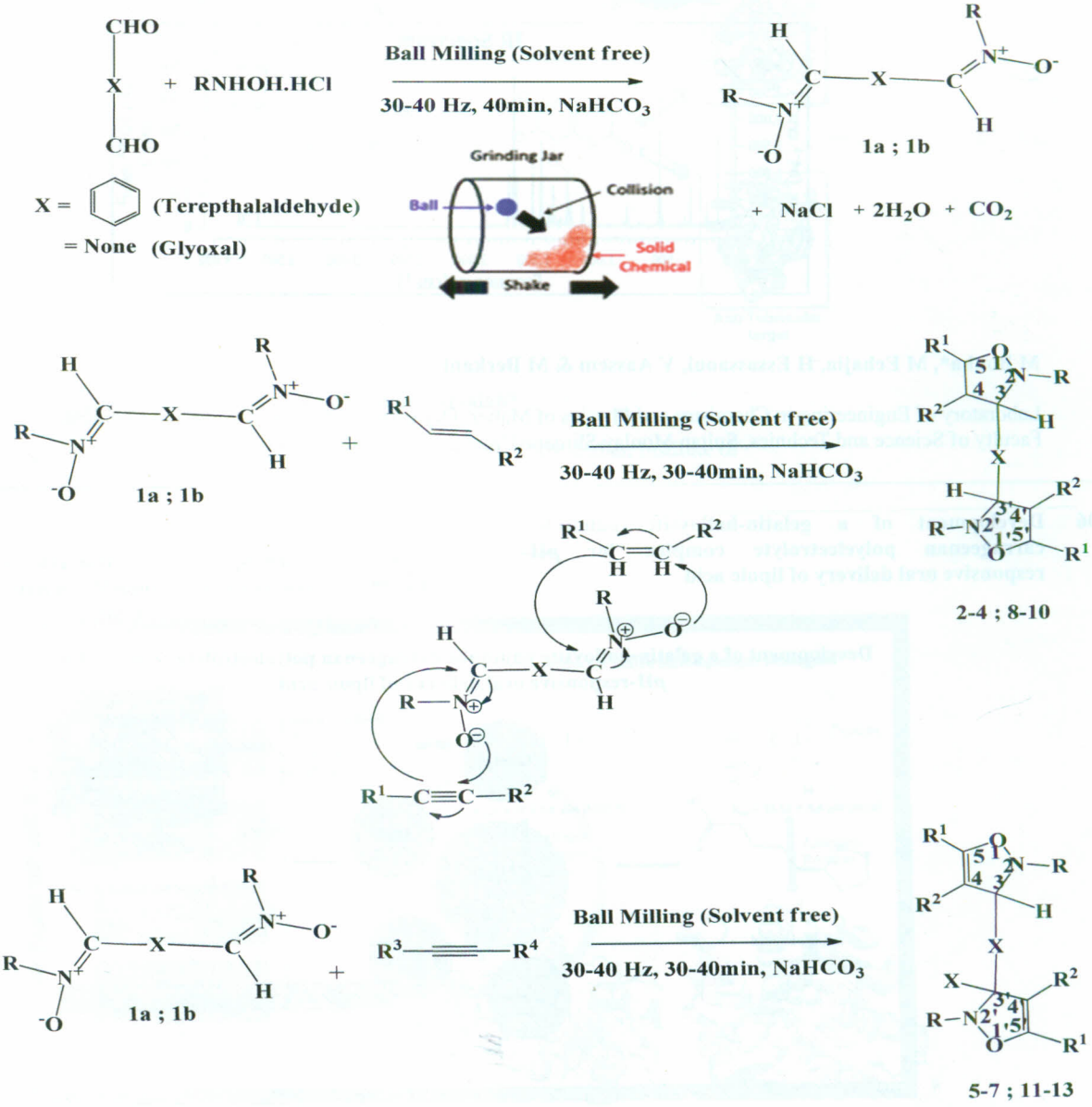


Dikshita Sharma & Tarun K Maji*

Department of Chemical Sciences, Tezpur University, Napaam, Sonitpur 784 028, Assam, India

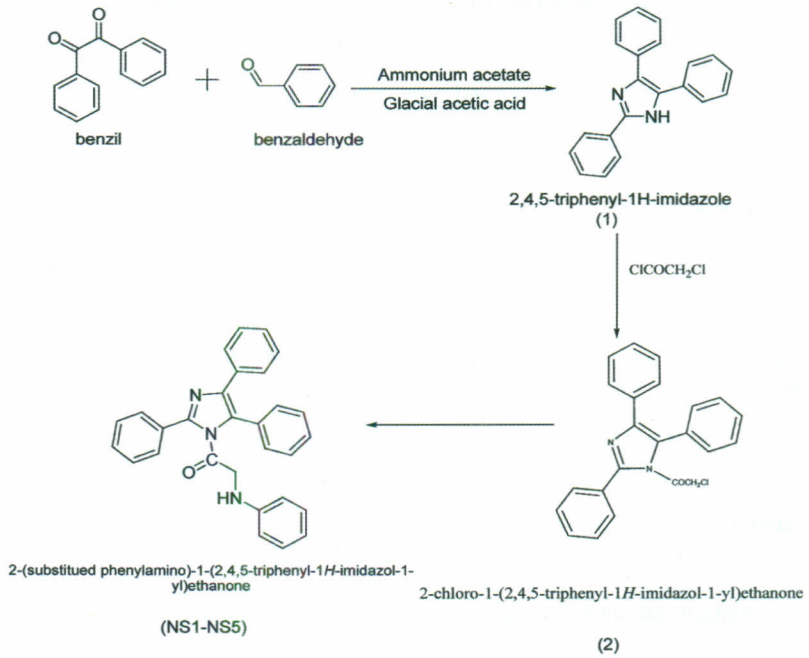
316 Mechanochemical synthesis, simultaneous double cycloaddition reactions of bisnitrones and potential anticancer activities of the bis cycloadducts

Solid phase synthesis of bisnitrones and cycloaddition reactions of some bisnitrones using mechanochemical procedure has been reported. Change in reaction rate and yields of the bisnitrones as well as bis cycloadducts are the key factors which is highly encouraging after comparing microwave and coventional cycloaddition procedures. This study reports synthesis of terephthalaldehyde and glyoxal derived bis-nitrones and their cycloaddition reactions with activated alkenes and electron deficient alkynes along with significant anticancer activities of a few bis-cycloadducts.



Bhaskar Chakraborty*, Esmita Chettri & Sushma Tamang Pradhan

Organic Chemistry Laboratory, Sikkim Government College (NBBDC), Gangtok 737 102, Sikkim, India



Shweta Verma* & Neeku Singh

Faculty of Pharmacy, IFTM University, Lodhipur,Moradabad 244 102, Uttar Pradesh, India

Authors for correspondence are indicated by (*)