Conferences / Seminors / Lecture attended :

1. Regional level two days seminor on medicinal and Aromatic plants of Malnad, their cultivation, utilization, extraction or its phytochemical studies" Sahyadri science college, Shimoga, Karnataka state, India, Dec 18th-19th, 2004.

2. Second International sumposium on drug Discovery and process research", held at KLE's college of pharmacy, Belgaum from 10th - 12th February-2006.

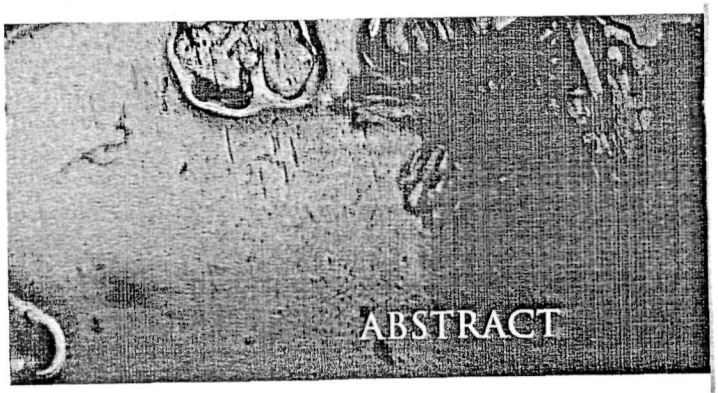
3. International symposium on Advances in organic chemistry held at Mahatma Gandhi University, Kottayam, Kerala from 9th - 12th January-2006.

4. National symposium on modern trends in chemical sciences held at Kurukshetra University, Kurukshetra (Haryana) from 6th - 7th October - 2006.

INTERNATIONAL SYMPOSIUM ON ADVANCES IN ORGANIC CHEMISTRY

INSOC-2006

January 9-12, 2006



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Kottayam, Kerala, India

Synthesis of Biologically Active Biheterocyclic oxadiazolyl Naphtho[2,1-*B*]Furans and other Derivatives Of Naphtho [2,1-*B*]Furan

D.Ramesh, C. Chandrashekhar, H. Rajashekhar and V. P. Vaidya*

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The survey of the literature revealed that 1,3,4-oxadiazoles and their derivatives have wide range f therapeutic activities. Encouraged by these reports and in continuation of work carried out in ur laboratory for pharmacologically potent naphthofuran derivatives, we report in this paper the ynthesis of various biheterocyclic oxadiazolynaphtho[2,1-*b*]furans and other derivatives of aphthofuran of biological interest. Bromination of ethyl naphtho[2,1-*b*]furan-2-carboxylate (**1**) esults in the formation of ethyl-3-bromonaphtho[2,1-*b*]furan-2-carboxylate (**2**) which has been onverted into the hydrazide (**3**) by fluxing with hydrazine hydrate. The compound (**3**) has been onverted into N-(aroyl-1-bromonaphtho[2,1-*b*]furan-2-carbohydrazides (**5a-e**) which on yclisation with phosphorous oxychloride produce 2-(3-bromonaphtho[2,1-*b*] furan –2-yl)-5-aryl- ,3,4-oxaizoles (**6a-e**). The compounds (**6a-e**) have also been synthesized by oxidative yclodehydrogenation of (**7a-k**) which were synthesized by condensation of (**3**) with various ubstituted aldehydes. 2-(3-bromonaphtho[2,1-*b*]furan-2-yl)-1,3,4-oxadiazoles (**4**) was prepared y treating with triethyl orthoformate. The structures of newly synthesized compounds have been stablished by analytical and spectral studies. Some of the compounds have been evaluated for ntimicrobial and anthelmintic activities.

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