**RDCR-2019**

on

**February 01-02, 2019**

Organized by

*Department of Chemistry*

IIS University, Mansarovar, JAIPUR-302020

**RAJASTHAN**

Title: **MICROWAVE ASSISTED SYNTHESIS OF POLY SUBSTITUTED ISOXAZOLES AS POTENTIAL ANTI-INFLAMMETORY AGENTS**

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**ABSTRACT**

 A series of poly substituted isoxazole derivatives were synthesized from pyran-2-ones through ring transformation reactions under microwave irradiation with improved yield. The methodology is very simple, economical and ecofriendly. The target synthesized compounds were characterized by micro analytical, IR and 1H NMR spectral data. The target compounds were screened for anti-inflammatory activity and were found to be more active in comparison with standard drugs.

**KEYWORDS**

Isoxazoles, Microwave irradiation, Synthesis, Anti-inflammatory activity

**FOR POSTURE PRESENTATION**