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3.2.1

Number of papers published per teacher in the Journals notified on UGC website during the year



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3.2 Research Publication and Awards

3.2.1.1 Number of papers published per teacher in the Journals notified on UGC website during the year

Sr.No	Title of paper	Name of the author/s	Department of teacher	Name of Journal	Year of Publication	ISSN Number	Is it listed in UGC Care list
1	<i>In vivo</i> pharmacokinetic study of felodipine microparticles-loaded rectal dosage form.	Dhamane, Suchita, Ajay Surana, Aditi Kulkarni, Shilpa Raut, Komal Mahajan, Samruddha Wavikar, Hitendra Mahajan, and Anjali Bedse.	Pharmaceutics	European Chemical Bulletin	2022-23	2063-5346	Scopus
2	Effect of black grape juice on tizanidine pharmacokinetics in rats	Dipika S. Sherkar, Dr. Vaibhav G. Bhamre , Dr. Minal R. Narkhede, Jitesh H. Shet	Pharmaceutics	European chemical Bulletin	2022-23	2063-5346	Scopus
3	Development and validation of chromatographic method for analysis of some polycyclic hydrocarbon in soybean oil	Atul Baravkar, Deepali Kadam , Vitthal Chopade, Pradip Bodake, Rajendra Kawade, Rajanikant Kakade, Amit Panaskar, Bhagyashri Panaskar, Nitin Shinde, Reshma Devkate, Komal Hole, Shital Gaikawad, Poonam Kasar, Sonali Pawar, Vishnu Neharkar, Bhushan Pimpal, Shaikh Sana M Jafar Shaikh, Rahul Mohan, Monali Bhalerao, Milind Velhal, Hemant Deokule	Pharmaceutical chemistry	European chemical Bulletin	2022-23	2063-5346	Scopus
4	Novel MAOS of Novel cinnoline derivatives	Atul Baravkar, Deepali Kadam , Sheetal Gaikwad, Nitin Shinde, Sujata Veer, Amit Lunkad, Vitthal Chopade, Vishnu Neharkar, Makarand Puri, Rajanikant Kakade, Nilesh Jadhav, Shyam Panga, Vijay M. Kale,	Pharmaceutical chemistry	European chemical Bulletin	2022-23	2063-5346	Scopus



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		Yojana Kunjir, Sachin Vijapure, Reshma Devkate, Priti Kolpe, Sonali Pawar, Baliram Sarvade , Sachin Anbhule, Raju Kawade, Shaikh Sana M Jafar Shaikh, Rahul Mohan, Monali Bhalerao, Meghana Muley, Gaffar Sayyad					
5	Development and validation OF RP-HPLC method for assay of fluticasone furonate from nasal spray formulation	Vitthal Chopade, Vishnu Neharkar, Padmanabh Deshpande, Makarand Puri, Priti Khanapure, Vaishnavi Chopade, Minal Ghante, Jayshree Jagtap, Shital Godse, Vidhya Bhusari, Vasundhara Sawant, Sonali Labhade , Rajendra Kawade , Deepali Kadam , Nilesh Jadhav, Gaffar Sayyad, Dipti Phadtare, Shital Godse , Pandurang Vijapure, Kunal Survade, Rahul Mohan , Arvind Hatkar, Atul Baravkar	Pharmaceutical chemistry	European chemical Bulletin	2022-23	2063-5346	Scopus
6	Review of Osteoarthritis-related Medicinal Herbs	Raut Shilpa S. Tambe, Varsha Narayan, Zoman Deepali, Bedse Anjali Prashant	Pharmaceutics	Current Traditional Medicine	2022-23	2215-0846	Scopus
7	Review on Role of Nutraceuticals in Stress Management	Ashwini Asalak, Shilpa Raut , Mayur Bidkar, Prajakta Shingote and Anjali Bedse	Pharmaceutics	International Journal of Pharmaceutical Sciences and Research	2022-23	0975-8232	Web of science



***In vivo* pharmacokinetic study of felodipine microparticles-loaded rectal dosage form**

Suchita Dhamane,¹ Ajay Surana,² Aditi Kulkarni,³ Shilpa Raut,

² Komal Mahajan,² Samruddha Wavikar,² Hitendra Mahajan,⁴ Anjali Bedse^{2*}

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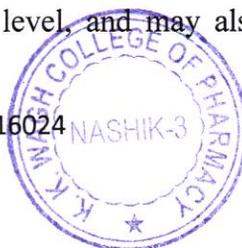
Abstract

The objective of present study was to develop rectal formulation of based on microparticles and perform *in vivo* study of developed rectal formulation in rats. The formulated suppositories were examined for different evaluation parameters like weight variation, disintegration time, *in vitro* dissolution study, stability study and pharmacokinetic study. The disintegration time and percent cumulative drug release of the suppositories were determined in the range between 13.69±0.93 min to 20.94±0.63 min and 88.23±0.91 to 96.47±0.02 respectively. During *In vivo* pharmacokinetic study in male Sprague–Dawley Rats, the relative bioavailability of rectally administered felodipine microparticles loaded suppository was found 148.15%. The study reveals that rectal administration of felodipine as microparticles loaded suppository was an alternate route of administration.

Key words: Felodipine, Microparticle loaded suppository, Fusion method, *In vivo* Pharmacokinetic study

1. Introduction

Rectal route comprise the avoidance of first pass elimination, the possibility of rate controlled drug delivery and absorption enhancement.¹ Suppository presents the common dosage form of rectal administration. Conventional suppositories, which may reach to the end of the canal of the application site, because of its poor mucoadhesive properties, lose drugs at that level, and may also allow the carried

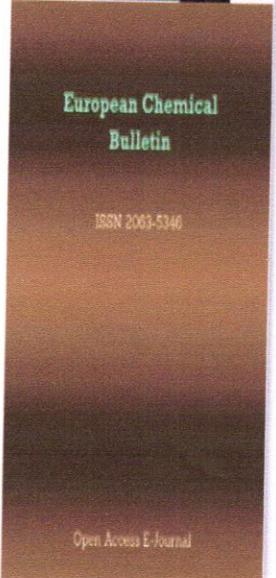




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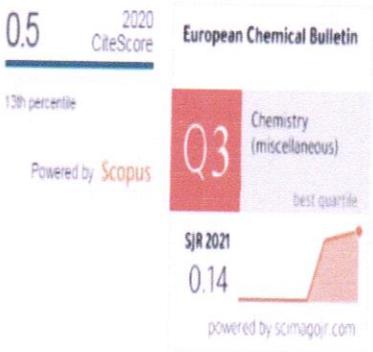


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EFFECT OF BLACK GRAPE JUICE ON TIZANIDINE PHARMACOKINETICS IN RATS

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Abstract: Objective of this work was to study the effect of black grape juice (BGJ) on bioavailability and other pharmacokinetic parameters of tizanidine in rats. A single dose parallel design was used with 36 animals randomly divided in reference group and test group. All the rats received 7 mg tizanidine orally and in test group 10 mL-20 mL freshly prepared BGJ was co-administered with tizanidine. Nine blood samples were collected from each animal over a 24-hour period. Plasma tizanidine concentrations were determined by HPTLC using UV detection, and pharmacokinetic parameters were determined by non-compartmental method. The mean value of the peak plasma concentration (C_{max}) of tizanidine increased significantly (31.51%, P value <0.001; 90% CI, 131.35% -131.71%) in animals who had given the drug with BGJ (C_{max}, 45.32 ± 0.12 µg/mL) than those who had given the drug with water (C_{max}, 34.46 ± 0.07 µg/mL). The area under the plasma concentration time curve from t=0 to time of the last measureable concentration (AUC_{0-t}) was also increased significantly (104.65%, P value <0.001; 90% CI, 204.47% -204.78%). Similarly, the value of area under the concentration-time curve from t=0 to infinity (AUC_{0-∞}) value was increased significantly (78.28%, P value <0.001; 90% CI, 177.13% -179.68%); these changes were not within the 90% CI range of 80.000 - 125.000 % which is the acceptable range of bioequivalence. T_{max}, T_{1/2}, terminal elimination rate constant (λ_z), CL/F value, V_d/F value, AUMC_{0-t} and AUMC_{0-∞} values, MRT_{0-t} and MRT_{0-∞} values and % relative bioavailability (Fr) value for test group were also determined and compared with

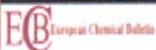






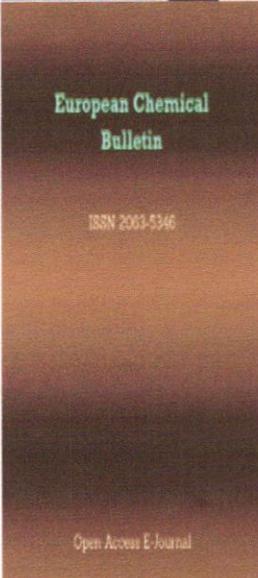
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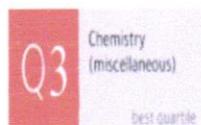
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DEVELOPMENT AND VALIDATION OF CHROMATOGRAPHIC METHOD FOR ANALYSIS OF SOME POLYCYCLIC HYDROCARBONS IN SOYBEAN OIL

Atul Baravkar^{1*}, Deepali Kadam², Vitthal Chopade³, Pradip Bodake⁴, Rajendra Kawade⁵, Rajanikant Kakade⁶, Amit Panaskar⁷, Bhagyashri Panaskar⁷, Nitin Shinde⁸, Reshma Devkate⁹, Komal Hole⁹, Shital Gaikwad¹⁰, Poonam Kasar¹⁰, Sonali Pawar¹¹, Vishnu Neharkar¹², Bhushan Pimpale³, Shaikh Sana M Jafar Shaikh⁵, Rahul Mohan⁵, Monali Bhalerao¹³, Milind Velhal¹⁴, Hemant Deokule¹⁵

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Abstract

Some polycyclic hydrocarbons (PHs) present in almost all edible oils are carcinogenic, teratogenic, neurotoxic and mutagenic at certain levels. There are total 16 PHs which are present in various edible oils. Soybean oil is one of most widely and routinely used for cooking food by all over population. Hence the detection of PHs levels in various soybean oil brands available in market is necessary. Many analytical methods are available for the same but these methods are time consuming and secondly quantity of organic solvents required is also higher. For example HPLC can be used for analysis of PHs in edible oils but it takes more time for analysis. Hence a novel method is developed using supercritical fluid chromatography for analysis of some PHs in soybean oil which reduces time by 5 times as compared to normal HPLC method and also requires less amount of organic solvents for analysis because of the lower viscosity and higher diffusivity in the mobile phases of SFC. The method is validated using various validation parameters and statistically proved using ANOVA.

KEY WORDS- Polycyclic hydrocarbons, Soybean oil, HPLC, SFC, Cancer.

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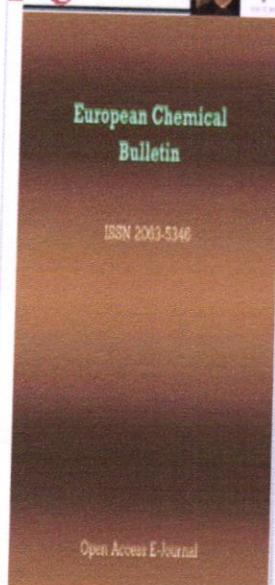


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NOVEL MAOS OF NOVEL CINNOLINE DERIVATIVES



Atul Baravkar^{1*}, Dipali Kadam², Sheetal Gaikwad³, Nitin Shinde⁴, Sujata Veer⁵, Amit Lunkad⁶, Vitthal Chopade⁷, Vishnu Neharkar⁸, Makarand Puri⁹, Rajanikant Kakade¹⁰, Nilesh Jadhav¹¹, Shyam Panga¹¹, Vijay M. Kale¹², Yojana Kunjir¹², Sachin Vijapure¹³, Reshma Devkate¹⁴, Priti Kolpe¹⁴, Sonali Pawar¹⁵, Baliram Sarvade¹⁶, Sachin Anbhule¹⁷, Raju Kawade¹⁸, Shaikh Sana M Jafar Shaikh¹⁸, Rahul Mohan¹⁸, Monali Bhalerao¹⁹, Meghana Muley²⁰, Gaffar Sayyad²¹

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Abstract

An efficient and green novel microwave assisted organic synthesis (MAOS) method has been developed for dinitro cinnoline derivatives with better yields. The framework of these derivatives was constructed from dinitrophenyl arylythyridene hydrazines. Tetrabutylammonium bromide (TBAB) was used as a phase transfer catalyst (PTC), potassium carbonate as an inexpensive and efficient catalyst and water as solvent due to its polarity which helps to increase the temperature substantially. This methodology features a simple, environmentally friendly approach, employing water as a green solvent and using a one-pot reaction. The use of microwave increases the rate of reaction and it was observed that dinitro arylcinnolines can be synthesised in 8-12 min of microwave irradiation compared to conventional thermal heating protocol which requires more than 2 h. Spectral data confirms the identity of synthesized derivatives and satisfactory yields are obtained by this process.

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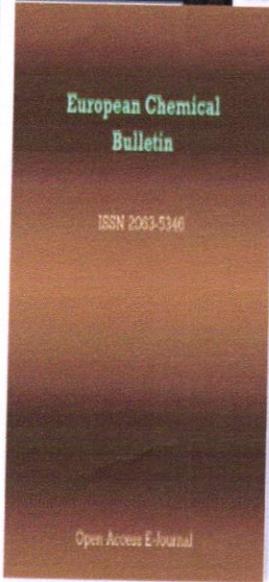


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DEVELOPMENT AND VALIDATION OF RP-HPLC METHOD FOR ASSAY OF FLUTICASONE FUROATE FROM NASAL SPRAY FORMULATION



Vitthal Chopade^{1*}, Vishnu Neharkar², Padmanabh Deshpande³, Makarand Puri⁴, Priti Khanapure¹, Vaishnavi Chopade⁵, Minal Ghante⁶, Jayshree Jagtap⁷, Shital Godse⁶, Vidhya Bhusari⁶, Vasundhara Sawant⁶, Sonali Labhade⁸, Rajendra Kawade⁹, **Deepali Kadam¹⁰**, Nilesh Jadhav¹¹, Gaffar Sayyad¹², Dipti Phadtare¹³, Shital Godse⁶, Pandurang Vijapure¹⁴, Kunal Survade¹³, Rahul Mohan⁹, Arvind Hatkar⁹, Atul Baravkar¹⁵

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Abstract

The literature search reveals that, several HPLC methods for the determination of Fluticasone furoate in combination with other drugs are reported with long run time, high solvent consumption or with less available instrument as compared with HPLC. There is no any reported HPLC method for individual assay of Fluticasone furoate from nasal spray formulation. So the purpose of present experimental work is to develop a rapid, simple, precise, accurate, specific, and sensitive high performance liquid chromatographic method for assay of Fluticasone furoate from nasal spray formulation. The desired chromatographic separation was achieved on the Inertsil ODS-3V 250 x 4.6 mm, 5 μ column, using isocratic elution at 240 nm wavelength. The optimized mobile phase constituted of purified water and acetonitrile in the ratio of 20:80 % v/v delivered at the flow rate 1 ml/min with isocratic elution. The retention time of fluticasone furoate was 5 min. The method was validated according to International conference of harmonization guidelines in terms of accuracy, precision, specificity, robustness, linearity and other aspects of analytical validation. Linearity was established in the concentration range of 27.5 to 82.5 ppm ($r^2=1.000$). The recoveries obtained were 99.4 -100.5 %. Similarly the % RSD value for precision was also found to be within the acceptable limit. Developed method was simple and convenient which could be successfully applied for the routine analysis.

KEYWORD: Fluticasone furoate, Corticosteroid, Asthma, Allergic Rhinitis, RP-HPLC, Validation, ICH guidelines.

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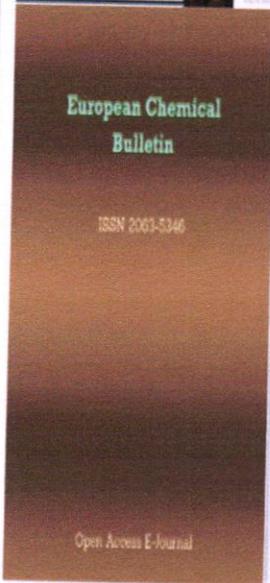


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Review Article

Review of Osteoarthritis-related Medicinal Herbs

Author(s): Shilpa Subash Raut, Varsha Narayan Tambe, Deepali Zoman and Anjali Prashant Bedse*

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REVIEW ON ROLE OF NUTRACEUTICALS IN STRESS MANAGEMENT

Ashwini Asalak, Shilpa Raut, Mayur Bidkar, Prajakta Shingote and Anjali Bedse *

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Keywords:

Stress, Neurobiology,
Neurotransmitters, Nutraceuticals

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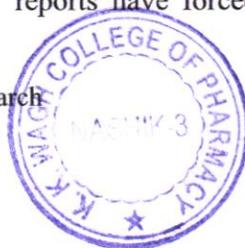
ABSTRACT: Stress is a complicated process that affects everyone differently. When the body is exposed to stressors, it initiates a series of coordinated responses called "stress responses," which include behavioral changes, immunological regulation, hormone release, and various physiological changes. Stress is the physiological response to risk or pressure, and it displays physically as fatigue or energy loss and psychologically as irritation or tension. Chronic stress or despair, which are issues of unmet health care need, may develop if they remain untreated. Treatment and preventative strategies that are based on scientific evidence are required. Current medicines show a therapy gap. The majority of medications solely address psychological or physical stress symptoms. Furthermore, psychotropic medicines, which are occasionally given for stress, frequently have undesirable side effects and cause danger of overuse. Pharmacological therapy should provide advanced care for all stress symptoms while also having a favourable safety profile. One of the most effective techniques for dealing with stress is to eat stress-relieving and nutrient-reducing meals. The term "nutraceutical" is composed up of the words "Nutrient" and "Pharmaceuticals" for dealing with stress is to eat stress-relieving and nutrient-reducing meals. Nutraceuticals are products that can be used for both nutrition and therapy. Nutraceuticals include foods such as dietary fibre, prebiotics, probiotics, polyunsaturated fatty acids, antioxidants, and other herbal/natural foods. These nutraceuticals play a distinct and important role in stress management. This review aims to find out how nutrients and diets influence stress management.

INTRODUCTION: Hans Selye, a Canadian endocrinologist, introduced the term stress in healthcare in 1949. The body's reaction to a novel environment, as well as its stereotyped, non-specific response to external cues that disrupt an individual's balance, is referred to as stress (Selye-1956).

A stressor is an individual or circumstances that cause a person to respond to stress. A stressor is a biological or chemical substance, environment conditions, external stimulation, or event that causes the person to be more stressed¹.

Stress refers to the body's adaptation to a new circumstance as well as its stereotyped and non-specific response to external stimuli that disrupt the personal balance. It's also a psychological approach to stress management and regulation that comprises understanding and preparing the body for varying conditions. Stress is a healthy and natural reaction to a risky situation. Increased anxiety and stress reports have forced us to seek medical and non-

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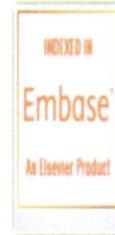




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