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# **CRITERION-3**

RESEARCH, INNOVATIONS AND EXTENSION

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**Research Publications and Awards** 





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**Research Papers Published in UGC CARE LIST** 

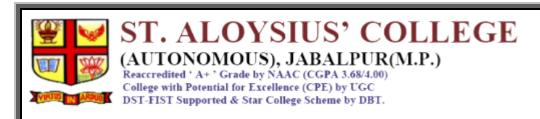






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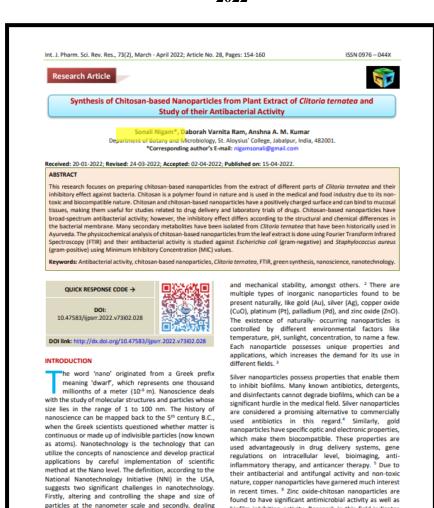
First Page of Research Papers



### **Research Publications and Awards**

### 3.4.3 Research Papers published in UGC Care List Journal

### 2022



International Journal of Pharmaceutical Sciences Review and Research
Available online at www.globalresearchonline.net

bacterial infections.

biofilm inhibition activity. Research in this field indicates

that these nanoparticles have the potential to prevent

The deacetylation of chitin forms chitosan. Chitin is a

polysaccharide that is found in crustacean shells and cell walls of fungi, naturally bound to the cellular proteins. The

chitin needs to be purified by acidification and alkalization

and then N-deacetylated to chitosan under a controlled

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154

ith nanoparticles to use their properties advantageously

Classification of nanoparticles can be done according to

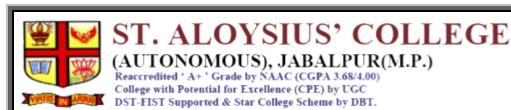
their morphology and physicochemical characteristics. They can also be classified as inorganic and organic

stable than organic structures at the nanometer scale.

Organic nanoparticles still have issues of limited chemical

oparticles. In general, inorganic particles are more

at the Nano level.





Isolation of bio-molecule Baicalein (5, 6, 7-Trihydroxy flavone) from root of Oroxylum indicum L. Vent and its prospective interaction with COVID-19 Viral S-Protein Receptor Binding Domain

November 2022 - Research Journal of Pharmacy and Technology November 2022

DOI:10.52711/0974-380X.2022.00849

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Page 2



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### References (39)

### Abstract

Newly emerged COVID-19 performs its activity through spike protein receptor binding domain (RBD). A strong competitive binding on this site can inhibit the COVID-19 (SARS-CoV-2) activity against host cells. A significant plant bioactive molecule, Baicalein (5,6,7-Trihydroxyflavone), has noteworthy effects on viral S protein. The biomolecule was isolated from an endangered medicinal tree Oroxylum indicum L. Vent. Therapeutic use various parts of Oroxylum have been mentioned in ancient literature, Ayurveda and is also being used a folklore medicine in many tribal areas of India. Molecular docking has been applied to screen the binding pattern and bond strength of biomolecule with ten amino acids. The binding site was defined with site findder algorithm. The residues were found Arg403, Glu408, Lys417, Tyr453, Ser494, Tyr495, Gly498, Phe497, Asn501, Tyr505. The biomolecule Baicalein showed effective binding capacity towards active site residues of SARS-CoV-2 spike receptor-binding domain. It was found to have a strong binding affinity with RBD of S-protein of viral residues with high negative binding free energy (-12.5545 kcal/mol). Such competitive interruption of hydrogen bond formation between the viral S- protein and biomolecules' active sites would inhibit the potency of COVID-19 infectivity.



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### International Journal of Ayurvedic Medicine, Vol 13 (2), 451-456

Toxicity of Imidacloprid on Peripheral Blood Lymphocytes by
MIT Assay and the Ameliorative Effect of Extract of *Tinospora cordifolia (Gilloe) Extract*Research Article

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### Abstract

Imidacloprid (IMI) is a widely used insecticide which has a specific affinity for insect neonicotinoid acetylcholine receptors. Like all insecticides which are used in excess it tends to bioaccumulate in the environment. So it was thought worthwhile to study its cytotoxicity to human peripheral blood lymphocytes in concentrations ranging from 1.5mM to 4mM after 2 hours and 18 hours exposure by MTT method. Trypan blue test was also used to determine the percentage of living cells. The ameliorative effect of an extract of the stem in water and ethanolic extract of leaves of Tinospora cordifolia (Thunb.) Miers, was also studied. The viability of the lymphocytes showed a fall with increasing concentrations at an exposure of 2 hours. After 18 hours exposure to the IMI only, the viability showed a significant dose dependent drop. Trypan blue test for viability was also conducted. Addition of Tinospora extract raised the viability significantly at 2 hours of incubation. In fact this increase was greatest at 3.5mM and 4mM concentration of drug. The ameliorative effect was maximum at 2 hours. Addition of Tinospora leaf extract showed a significant increase in cell viability at 18 hours of incubation as compared to values obtained with only the drug. Thus a considerable loss of viability of lymphocytes was seen after exposure to the drug in the selected concentrations but herbal extracts seem to help to make the damage less marked. The cells showed a significant rise in viability when incubated with Tinospora leaf extract only, confirming its supportive action in cell proliferation. However, taking into account the evident fall in cell viability caused by exposure to the considerably dilute concentrations tested, caution is needed to prevent over exposure to the pesticide while spraying.

Key Words: Imidacloprid, Lymphocytes, MTT, Toxicity, Tinospora cordifolia (Thunb) Miers, Trypan blue.

### Introduction

The use of pesticides has been an established agricultural practice to ensure a good crop yield. This is essential to feed our ever-increasing population. The term pesticide can be replaced with plant protective products (PPP) according to European food safety authority.

Pesticides are one of the very common substances that cause deterioration of the environment

However, indiscriminate use of these pesticides or insecticides leads to pollution of soil and water. Once incorporated in the soil or water they are taken up by the plankton and then gradually reach the higher trophic level and finally man through the food chain (1,2) Thus

\* Corresponding Author: Daya Shankar Gautam Assistant Professor, Department of Zoology, St. Aloysius College, study of the toxic effect of pesticides on organisms and cells of the human system is very relevant.

Imidacloprid (IMI) belongs to the neonicotinoid category which includes selective systemic and single mode activity pesticides introduced in the 1990s. It was patented by Bayer and marketed in 1991. It is a compound derived from nicotine and it inactivates insect nicotinoid acetylcholine receptors. It is favoured for use due to its selective toxicity to insects over vertebrates.(3) Neonicotinoids are neurotoxic insecticides that act by binding covalently to nicotinic acetylcholine receptors and as a result they obstruct the acetylcholine to bind to its receptor. Thus it inhibits the post synaptic transmission, so the insect is paralysed and it may lead to death of the organism.(4) IMI is reported to be toxic to non target insects such as honeybees etc, so it may be disturbing the ecosystem.

IMI also known as N-[1-[(6-chloropyridin-3-y1)methyl]imidazolidin-2-ylidene]nitramide has molecular formula C9H10CDN502, with a molecular weight of 255.6 g/mol, its melting point is 136.4 to 143.8 °C (277.5 to 290.8 °F). In appearance, it consists

333



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> Vegetos (2024) 37:305-320 https://doi.org/10.1007/s42535-023-00602-8



### RESEARCH ARTICLES



### Enhancement in production of baicalein through transformation in Oroxylum indicum (L.) Vent by Rhizobium rhizogenes

Rumana Faraz<sup>1</sup> 🕒 - Mamta Gokhale<sup>2</sup> 🕕 - Ragini Gothalwal<sup>3</sup> 🕩

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#### Abstract

Oroxylum indicum (L) Vent (O. indicum), a significant endangered medicinal plant, was transformed by the Rhizobium rhizogenes (R. rhizogenes) mediated transformation method using the bacterial strain MTCC 532. For a successful transformation, factors such as explant selection, Co-cultivation time, temperature for induced root development, transformation technique, and antibiotic concentration were optimized. Various methods were employed for enhancing the rate of transformation. A drastic increase in transformation frequency was observed when CaCl2 was used in concentration of 10 mM and 15 mM along with ultrasonication during Co-cultivation. Total phenolic and flavonoid content was determined in various extracts of O. indicum by using Folin-Ciocalteau reagent and Aluminium chloride colorimetric method respectively. Moreover, the antioxidant potential of different extracts of O. indicum were assessed with the 2, 2-diphenyl-1-picrylhydrazyl (DPPH) method. Using specific rolA primers, molecular analysis was performed, revealing T-DNA integration in the hairy roots and confirming the expression of hairy root inducible genes. Murashige and Skoog (MS) medium with 3% sucrose was shown to have the maximum induction rate of hairy roots after 28 days of Co-cultivation. TLC as well as spectroscopic methods (UV-VIS and FTIR) were performed to compare the specific flavonoid (baicalein) in transformed roots as well as several non-transformed extracts. Comparing hairy roots to non-transformed roots, the total phenolic, flavonoid contents, and antioxidant activities were greater in hairy roots. The findings indicate that O. indicum hairy root cultures have a greater capacity for producing beneficial chemicals and researching their biological activities. The transformation of O. indicum by R. rhizogenes (MTCC 532) has been reported for the first time.

Keywords Rhizobium rhizogenes · Hairy roots · Oroxylum indicum · Flavonoid · UV-VIS spectroscopy · FTIR

### Introduction

Oroxylum indicum (L) Vent of family Bignoniaceae, is a medicinally important plant bearing vital secondary metabolites. It is an endangered medicinal tree species, which possesses several antimicrobial, antiarthritic, antihepatic qualities in its various parts (Laupattarakasem

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et al. 2003; Begum et al. 2019). Parts of the tree are often used to cure inflammation, dropsy, bronchitis, jaundice, piles, smallpox, leucoderma, scabies, enlarged spleen, helminthiasis, gastropathy, hemorrhoids, cholera and rheumatoid arthritis (Bansal and Gokhale 2012). Root of the tree has long been used in Ayurveda for preparation of Amartarista, Awalwha, Brahmarasayana, Chyawanaprasha, Dantyadarishta, Dhanawantaraghrita, Mulayadikwath, Narayanataila, Shyonaka patpak, Bruhatpanchamulaya dikwath and Dashmularisht (Singh 2015). O. indicum is characterized by brown bark and large pinnate leaves. Oroxylum is a genus of medium sized, deciduous trees. distributed in India, Sri Lanka, Malaysia, China, Thailand, Philippines and Indonesia. In India, the tree is indigenous to Eastern and Western Ghats and is also found in North-East regions (Ahad et al. 2012). O. indicum is commonly known as "Indian Trumpet tree" due to its resemblance to trumpet. The plant is known for its high commercial and

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Home / Archives / Vol. 4 No. 2 (2022): Journal Plantarum / Articles

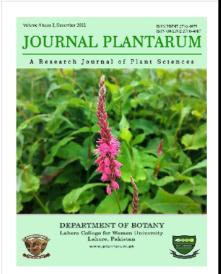
# A CASE STUDY OF MEDICINAL PLANT CONSERVATION IN THE JABALPUR DISTRICT, INDIA

ZAREEN BAKSH

MOHD KAFEEL AHMAD ANSARI

### **Abstract**

Medicinal and aromatics plants play a vital role in health care around the world. Biodiversity is the natural biological capital of earth. Therefore, there is a need to improve basic knowledge about medicinal plants species and their distribution; promote conservation of vulnerable species at the grassroots level; adopt sustainable collection and management practices on public lands and conservation of medicinal plants with their commercial development. Cultivation is a vital tool for the biodiversity conservation of medicinal plants, with gene banks and botanic gardens contributing additionally to the conservation of species diversity. Both *in situ* and *ex situ* methods of biodiversity conservation are equally important and efficient. This chapter describes the significant role of ethnic people who have conserved the biodiversity in and around localities of their natural habitat since the beginnings of civilization.



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Issue

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### INFLUENCE AND RELATIONSHIP OF PEER PRESSURE WITH META-COGNITION

Zareen Baksh
Department of Education
St. Aloysius College (Autonomous), Jabalpur-01

#### ABSTRACT

Meta-cognition is an awareness of one's thought process and an understanding of the Patterns behind them. In term "Meta-cognition" the root word "Meta" means "beyond". Metacognition means thinking about thinking or cognition about cognition. Whereas peer pressure is the direct or indirect, be it positive or negative influence on people of peers, members of social group with similar interest, experiences or social statuses. "Students who know about the different kinds of strategies for learning, thinking, and problem solving will be more likely to use them" Metacognitive practices help students become aware of their strengths and weaknesses as learners, writers, readers, test-takers, group members, etc. A key element is recognizing the limit of one's knowledge or ability and then figuring out how to expand that knowledge or extend the ability. The social pressure by members of one's peer group to take a certain action, adopt certain values or otherwise conform in order to be accepted. The main aim of this research is to analyse the influence of peer pressure on one's Meta cognition i.e., the way peer group affects the individual's way of thinking. Interrogator prepared a questionnaire and a quantitative data has been collected. Survey method is used and data is collected through virtual mode. Questionnaire was designed in multiple Choice question form in which 25 questions were included.

KEYWORDS: Meta-cognition, Peer pressure, Metacognitive-Awareness

### INTRODUCTION

The modern education mode is different from education mode in the past. Meta-cognition is a process about thinking about our own thinking. It involves knowing about our own self. It is an important skill that a person acquires, which helps lifelong. These skills help to process information and gain experiences through it.

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PAGE NO: 107

Page 6

GRADIVA REVIEW JOURNAL

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Biosynthesis of heterologous protein by C. glutamicum is discussed.

### Abstract

Ever since its discovery in 1957, Corynebacterium glutamicum has become a wellestablished industrial strain and is known for its massive capability of producing various



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## Role of Polyamines in Molecular Regulation and Cross-Talks Against Drought Tolerance in Plants

Samapika Nandy¹· Saynati Mandal²· Santosh Kumar Gupta³· Uttpal Anand⁴· Mimosa Ghorai¹· Avinash Mundhra⁵· Md. Habibur Rahman⁶· Puja Ray¹· Sicon Mitra³· Durga Ray⁵· Milan Kumar Lal<sup>9,10</sup>· Rahul Kumar Tiwari<sup>9,10</sup>· Potshangbam Nongdam¹¹· Devendra Kumar Pandey¹²· Mahipal S. Shekhawat¹³· Niraj Kumar Jha<sup>7,17,18</sup>· Saurabh Kumar Jha<sup>7,8,17</sup>· Manoj Kumar¹⁴· Radha¹⁵· Javad Sharifi-Rad¹⁶· Abhijit Dey¹☉

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#### Abstract

Global agricultural demand and the impact of fluctuating climatic conditions including global warming have catastrophically limited crop productivity and immensely outstretched the market value of agricultural products leading to acute inflation. The effect of desiccation or drought stress in plants is manifested at three levels viz. morphological, biochemical, and molecular and plants possess their own molecular and signaling arsenal to combat or ameliorate various stresses. For decades, stress-tolerant cultivars have been investigated and modulation of polyamine (PA) signaling was found to play a major role in attenuating environmental stresses including drought as major abiotic stress. PA metabolism pathways with their ability to crosstalk with both primary and secondary metabolic pathways have been correlated with several other responses such as seed germination, plant growth, development, defense, hormonal regulation, stress tolerance, and crop yield. Recent transcriptomic and metabolomic approaches have expanded the knowledge on the regulation of stress-induced biochemical, molecular, and physiological alterations. To fully comprehend the intricate biochemical network of plant stress physiology, it is necessary to identify exact responses against specific stress stimuli, interpret concurrent epigenetic alterations, and use molecular switching. The present review encompasses recent updates on drought tolerance mechanisms mediated by diverse polyamines playing significant roles in metabolic regulation, oxidative stress management, and systematic stress-reversal signaling. Besides, the drought stress-reversal role of polyamines and their cross-talks with other signaling molecules have also been documented. Gene, enzyme, and transcription factor (TF) functional features were retrieved from the published papers involving transgenic or mutant plants with over-expression or loss-of-function investigations

 $\textbf{Keywords} \ \ Polyamines \cdot Drought \ stress \cdot Stomatal \ closure \cdot Abscisic \ acid \cdot Cross-talks \cdot Genetic \ manipulation \cdot Seed \ germination$ 

### Introduction

Polyamines (PAs) are polycationic, low molecular weight, ubiquitous compounds, with aliphatic nitrogenous bases. In both prokaryotic and eukaryotic organisms, some important category of compound mediates the fundamental metabolic aspects like cell growth, differentiation, maturation, and apoptotic phenomenon. However, in plants, polyamines

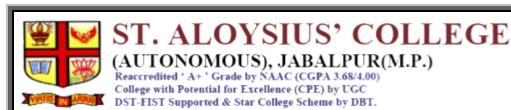
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play a critical regulatory role in different phases of growth and developmental processes along with their pivotal role in biotic and abiotic stress responses. These basic traits have been considered quite "stimulative with broad prospects of application" in the recent era of molecular biotechnology and genetic engineering, to enrich overall plant physiology and biotechnology-based research (Chen et al. 2019; Alcázar et al. 2020; Nandy et al. 2022). Besides PAs, there are other plant bio-stimulants like inorganic compounds, biopolymers, and microbial metabolites. However, the mode of action, as well as the impact of polyamines on secondary metabolites, are exclusive (Jardin 2015; Pal et al., 2021). The significant regulatory role of polyamines has been observed in basic molecular, and physiological processes viz. central dogma,

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Controlled Releases of Paclitaxel Drug investigation and Impact Analysis from Casein

Section A-Research paper ISSN 2063-5346



### Controlled Releases of Paclitaxel Drug investigation and Impact Analysis from Casein

Dr. Sweta Likhitkar\* and Dr. Anjali Dsouza St Aloysius College (Autonomus), Jabalpur Madhya Pradesh INDIA

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### Abstract:

This paper deals with the effects of Paclitaxel drug on casein nanoparticles and its used in control drug therapy. Such systems have shown potential in releasing drugs controllably chemotherapy. In the present investigation casein nanoparticles were synthesized by emulsion cross linking method and characterized by various techniques such as Fourier transform-infrared spectrometry, Transmission electron microscopy, XRD. The average diameter of prepared native casein nanoparticles is 6nm to 100nm through W/O emulsification-cross linking method. The release behavior of casein nanoparticles was studied as a function of various factors such as chemical composition of nano-carrier, pH, temperature, biological fluids. The results revealed that the casein nanoparticles prove to be an excellent option for controlled and targeted delivery of Paclitaxel. Therefore, there is a strong incentive to develop a new strategy for the synthesis of casein nanoparticles and investigated their properties.

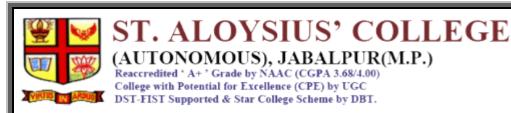
Keywords: Casein, Nanoparticle, Paclitaxel, Polymer, Protein

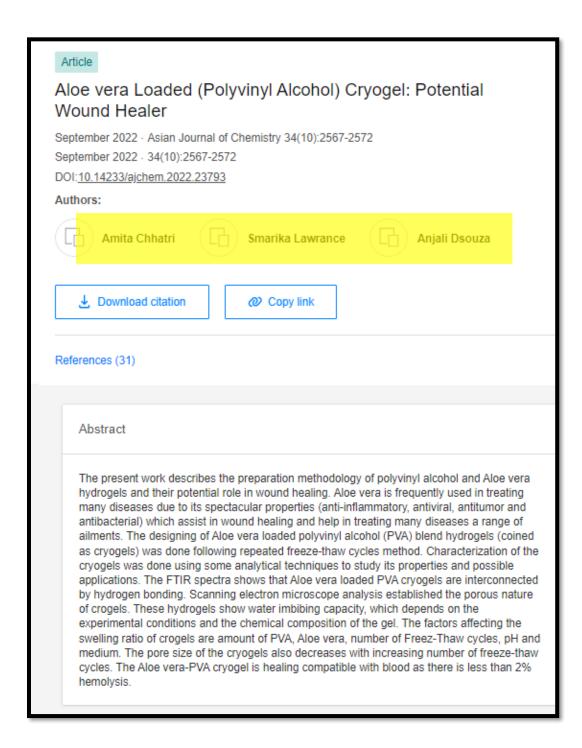
### 1. Introduction:

The number of people suffering from cancer is projected to increase to 29.8 million in 2025 from 26.7 million in 2021. Cancer ranks either first or second among the leading causes of death before the age of 70 years, across 91 out of the 172 countries worldwide. The process of uncontrolled division of cells has been identified as the only responsible factor for the origin of cancer, which is a multi phasial disease and may appear in any organ or cell type [1].

16175

Eur. Chem. Bull. 2023, 12(Special Issue 4), 16175-16186







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High Technology Letters

ISSN NO: 1006-6748

### Prospects of Machine Learning for Decision Making

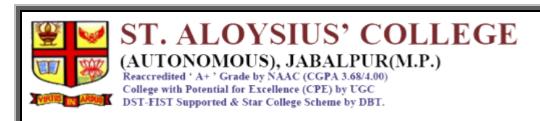
Dr Rupali Ahluwalia

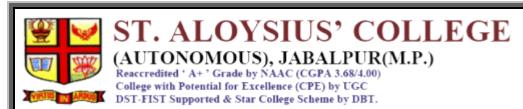
HOD, Department of Commerce St. Aloysius College (Auto), Jabalpur, Madhya Pradesh, India Dr Tarvinder Kaur

Deputy Controller of Examination St. Aloysius College (Auto), Jabalpur, Madhya Pradesh India

Abstract: Artificial intelligence (AI) encompasses the field of machine learning. Generalizing machine learning is the process of analysing data structures and fitting them into models that can be understood and used by people. Despite being a branch of computer science, machine learning differs from traditional algorithms. By definition, algorithms are sets of explicit instructions that computers use to solve problems or perform calculations. Rather than relying on human judgment, computers can learn from analysing data inputs and then output values that fall within a certain range. Using machine learning, computers can build models based on sample data in order to automate data-driven decision-making processes. Almost all technology users today have benefited from machine learning. Users of social media platforms can tag and share photos of friends through facial recognition technology. Images of text are converted into movable type using optical character recognition (OCR) technology. The field of machine learning is constantly developing. As a consequence, there are some things to keep in mind when working with machine learning methodologies, or when analysing the impact of machine learning processes. In this Chapter, we'll look at supervised and unsupervised methods of machine learning, as well as approaches to learning algorithms, such as the machine Learning algorithm, decision tree learning, and deep learning.

**Keywords:** Machine Learning, Artificial Intelligence, Supervised & Unsupervised Learning, Decision Making through Machine Learning





MAN ECH

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### Conjoint Analysis of Buyers' Behaviour towards Instant Food Products

Dr. Komal Rawa

Assistant Professor

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St. Aloysius' College (Autonomous), Jabalpur, M.P. Corresponding Author's Email: . komal.rawat024@gmail.com

### Abstract

Human wants are endless; the process of searching, selecting, purchasing and using the good and services for meeting the unlimited wants is considered as buyer behavior. The buyer behavior shows the actions and response of buyer towards a product. The study is an attempt to unearth the conjoint analysis of consumer behavior for instant food. Efforts were also made to study the factors influencing the buyer behavior for instant food. Snacks & Savories, Instant Meals and Beverages are the three categories on which this study is based. The present research helps to identify the most demanded instant food and correlate with buyers' behavior. The study finds that age has no impact on buying preference for instant food whereas gender, nature of family and occupation has a positive impact. It concludes that buying preference for instant meals has more consistency as compared to beverages and snacks & savories and staying out (.992), motivation (.987), ready to serve (.986), size (.962) and brand availability (.968) are important variables influencing buyers' behavior for instant food.

Keywords: Buyer behavior, Instant food, conjoint analysis, Snacks & savories, Instant meals, Beverages and buying preference.

INTRODUCTION

best product to them. Consumer Modern marketing is all about identifying satisfaction is the primary need of all the the needs of consumers and offering the organization and every organization

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Juni Khyat

ISSN: 2278-4632

(UGC Care Group I Listed Journal)

Vol-13, Issue-05, No.01, May : 2023

A COMPARATIVE STUDY ON FACTORS AFFECTING EMPLOYABILITY OF GRADUATES IN RURAL AND URBAN AREAS OF JABALPUR DISTRICT.

Dr. Surbhi Jain, Assistant Professor, St. Aloysius' College (Autonomous), Jabalpur, M.P. Ms. Nidhi rajak, Assistant Professor, St. Aloysius' College (Autonomous), Jabalpur, M.P.

Enhancing Graduate Employability skills is considered as significant task within the college and university of Jabalpur. In the era of technological disruption and cut throat competition, the qualified human resources with high competitiveness and employability skills are needed. Now days employers find a lack of expertise and skills among graduates who are seeking job. Insufficient skills are related to the issue of education system and its quality. This study makes an attempt to identify the factor affecting employability in graduates in rural and urban areas. Primary Data were collected through structured questionnaire. Using simple random sampling, this study collected data from 120 respondents i.e.60 respondents from urban areas and 60 respondents from rural areas covering colleges and university of Jabalpur district. Percentage method was used to analyze the data. It has been found that there is a huge variation in factors which influence the employability of graduates in rural and urban areas. Suggestions were incorporated to reduce the differences in employability factors in rural and urban areas.

Keywords: Employability, Graduates, Skills, Rural and Urban areas

#### 1.1 Introduction:

In the current scenario, the world is changing rapidly, and so does the world's economy is developing which creates a buzz about the skills required in the present times. Higher education aims to do students' overall development to face the competition of the real world and the biggest challenge after education is to be employable. Employability is not just about getting a job it's about the skills, understanding, and attributes of a person which help to get the desired job and add value to oneself and to the society and economy. It is a set of achievements — skills, understanding, and personal attributes — that makes individuals more likely to gain employment and be successful in their chosen occupations, which benefits themselves, the workplace, the community, and the economy. It has been observed that is not even 50% of graduates are getting jobs after graduation. On the basis of rural and urban areas, there are variances in the nature of employment opportunities. The main problem is not the availability of the job and employment, but the mismatch or lack of skills to carry out a particular job and. The employment opportunities can be obtained by the person on the basis of number of factors which leads to enhance employability in rural and urban area. This study will help to identify the factor to develop skilling models in order to fullfill the gap of employment oppourtunities in rural and urban areas.

### 1.2 Review Of Literature

- Tinashe Timote Harry, Themba Quadra Mjoli, Willie T Chinyamurindi (2018) Explore final-year students' perceptions of factors that affect employability. Their study provides an understanding of the complex issues faced by potential graduates throughout their journey. It provides an understanding of student perceptions towards employability, which policymakers can consider when addressing the issue of unemployment in the country.
- In his research, Kong Jun (2017) studies the factors that affect the job search prospects of graduates. By using parametric, semiparametric, and nonparametric approaches, and found out that University goodwill, course selection such as management, and engineering graduates find jobs more easily as compared to other fields.
- Rajanibala Shah (2014) In her studies focused on the skills that affect the employability of graduate students and found four independent factors that affect employability and stated that

Page | 42

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## A Study on Mentoring of Undergraduate Student: A Pragmatic Approach

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Abstract: Education is something more than learning chapters or topics; education is associated with the overall development of one's life. To make this statement a reality the student mentoring system is introduced in the colleges which are popularly known as education mentoring. This system is implemented to help the students to cope up with the problems and challenges faced in this real world. Research regarding mentoring increased rapidly during the last twenty years and described qualities of mentors, relationship, importance etc. The purpose of this study is to analyze the impact of mentoring on undergraduate student's life in different aspects such as in understanding roles and duties as student towards organization and his studies, understanding culture of organization which will them to adapt the environment, building new skills which are required to be future ready, solving difficult issues of academics as well as of personal life, identifying their strength and weaknesses to make plan for future. For this research 120 students were surveyed from different colleges of Jabalpur of different streams. For collection of data questioner was distributed among 150 students out of which 120 responses were received. The result shows that mentoring has positive impact on undergraduates. This paper will look at the impact of mentoring on undergraduates; problems faced in the process and present some concrete suggestions to remove barriers in the process. Teachers and mentors can point out all new approaches and ways for mentoring.

Keywords: Mentor, Mentee, Students, Mentoring Session, Positive Environment, Positive Outcomes

### 1. Introduction

"Mentoring is to support and encourage people to manage their own learning in order that they may maximize their potential, develop their skills, improve their performance and become the person they want to be." By Eric Parsloe.

College is an important phase of a student's life, it plays a significant role in their life because their future is built from here when students enter this new world it's not easy for them to mound themselves according to the new culture, system, atmosphere around them. There are different challenges waiting for them such as socializing, achieving academic goals, developing skills, adopting new culture, dealing with finances etc. [1] College life exposes us to all new experiences thus it is a crucial time when one can shape or destroy his career. For helping students to cope with these challenges colleges provide mentoring to students for producing good college graduates because teaching is something more than giving lectures and

explaining topics to students, today teaching is associated with providing quality education to students. [2]

Mentoring is a relationship between a more experienced person that is a mentor and a less experienced person that is a mentored or mentee, it is a relationship based on mutual trust, confidence in each other, encouragement, openness, respect, guidance and many more. [3] One can experience mentoring in different stages of life because there are different streams of mentoring and some of those streams are educational/academic mentoring. Education mentoring is a model of education system where the faculty of the institute provides students (mentees) with their knowledge, guidance, support. It creates a supportive environment for students which makes them feel more connected, secure, confident, in college life. [4] In nutshell mentoring is a process where mentor helps mentee to set targets and strategies to achieve them and gives them guidance by their experiences. Educational mentoring helps youngsters of our nation to achieve their overall academic and non-academic goals, mentors help students in different fields such as in communication skills, boosting confidence developing



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## RECENT CHANGES IN EMPLOYEES EXPECTATIONS WITH REFERENCE TO QUALITY OF WORK LIFE

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#### ABSTRACT

The objective of the study is identify the recent major changes in employees expectations with reference to Quality of Work Life (QWL). The research methodology adopted is Secondary method of data collection, as all the major reviews of HR Leaders and Major magazines are reviewed. The research would aim at identifying the major reasons along with the changes in employees expectation, as a recent of change in mind set of employees of Post and continuing covid Impact. It concludes with the suggestions that the corporate houses need to understand and adapt with ,so as to ensure employees retention and getting the work done for attaining organizational goals.

KEYWORDS: - Quality of Work Life , Employee Expectations , HR Practices.

### INTRODUCTION

Quality Of Work Life

Quality of Work Life (QWL) ,is a philosophy, a set of principles, which holds that people are the most important resource in the organization as they are trustworthy, responsible and capable of making valuable contribution and they should be treated with dignity and respect. The elements that are relevant to an individual's quality of work life include the task, the physical work environment, social environment within the organization, administrative system and relationship between life on and off the job. QWL consists of opportunities for active involvement in group working arrangements or problem solving that are of mutual benefit to employees or employers, based on labour management cooperation. People also conceive of QWL as a set of methods, such as autonomous work groups, job enrichment, and high involvement aimed at boosting the satisfaction and productivity of workers. It requires employee commitment to the organization and an environment in which this commitment can flourish. Thus, QWL is a comprehensive construct that includes an individual's job related well- being and the extent to which work experiences are rewarding, fulfilling and devoid of stress and other negative personal consequences.

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> ISSN: 2278-4() Juni Khyat
> Vol-13, Issue-04, No.02, April: 2020
> (UGC Care Group I Listed Journal)
> AN ANALYTICAL STUDY TO DETERMINE THE FACTORS AFFECTING PERCEPTION
> OF LOHAS CONSUMERS. OF LOHAS CONSUMERS.

t Professor St. Aloysius' College (Autonomous), Jabalpur(M.P.)

ABSTRACT:
Nowadays, a lot of customers express worry over environmental damage. This is the main driving force Nowadays, a lot of customers express worly over environmers were the primary focus of our study, and to for green marketing and goods. The LOHAS consumers were the primary focus of orresponding of organization properties. for green marketing and goods, the corresponding to the control of author sought to understand their degree of product purchases, and whether or not green markets, actually influences their purchasing behaviour. People from all around India were asked to respond an online survey. To analyse our replies, we employed statistical methods like Chi-Square, When purchasing green products, consumers take into consideration variables such as price, availability, and brand name. The purpose of this study is to ascertain how green marketing by businesses affects buying behaviour of LOHAS Consumers. The research study was conducted in Jabalpur district of Madhin

Key Words: green products, green marketing, LOHAS Consumers.

The term "green marketing" describes marketing initiatives that highlight a product, service, or brands positive environmental impact. The purpose of green marketing is to represent a business as environmentally conscious and to draw customers who care about the environment and sustainability. Consumers that emphasise their health and wellbeing, environmental sustainability, and social responsibility while making purchases are known as LOHAS (Lifestyles of Health and Sustainability) customers. These customers are interested in goods and services that support sustainability and are prepared to pay more for such goods. Because LOHAS customers are already engaged in sustainability and ecology, green marketing is highly successful for attracting their attention. Businesses may attract LOHAS consumers and develop a devoted client base by highlighting the environmental advantages of their goods or services. But, businesses must take care to avoid "greenwashing," which involves presenting fictitious or exaggerated environmental claims in an effort to draw customers. Customers in the LOHAS market are frequently aware and adept at spotting greenwashing techniques. In order to win the trust and loyalty of LOHAS customers, businesses must make sure that their environmental promises

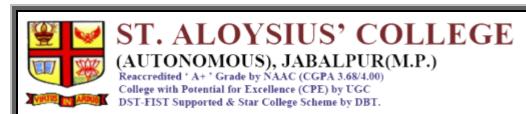
The phrase "green marketing" refers to marketing strategies that emphasise a good environmental effect of a brand, product, or service. The goal of green marketing is to portray a company as environmentally responsible and to attract clients who are concerned about sustainability and the environment. LOHAS (Lifestyles of Health and Sustainability) consumers are those that prioritise their health and wellness, environmental sustainability, and social responsibility while making purchases. These clients are willing to spend more for products that support sustainability since they are interested in such products. LOHAS clients are extremely responsive to green marketing since they are already interested in sustainability

and environment.

Green marketing is a marketing strategy that aims to promote environmentally friendly products or services. LOHAS (Lifestyles of Health and Sustainability) is a consumer segment interested in health. services, LOHAS (Lifestyles of Health and Sustainability) is a consumer segment of health, sustainability and environmental issues. This study examines the relationship between green marketing sustainability and environmental issues. This study examines the relationship decisions. The article afso and LOHAS consumers, including their attitudes, behaviours and purchase decisions. The article afso examines the effectiveness of green marketing, its challenges and implications for businesses seeking to serve LOHAS consumers.

Galaxies and Secting?

Galaxies also the creation, promotion, and distribution of goods with an eye on reducing the environment.



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### Breaking New Ground: Emerging Trends in Postcolonial Indian Poetry in English

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"Poetry is the record of the best and happiest moments of the happiest and the best minds."

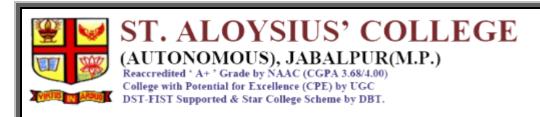
Shelley (A Defence of Poetry)

If this is true can there be any true poetry in colonized lands, where happiness is but a distant hope?

A pressing need for the once colonized countries to defy the imperialist moves that had long tried to commodify their tradition and culture, led to an upsurge of nationalist, nativist, literature termed 'post-colonial' suggesting decentering of colonial literature. The term gained currency by the end of the twentieth century and includes literature which is alive with creative energy of recently liberated minds, offering immense possibilities of approach. One may agree with the opinion of B K Das that "like colonialism, post colonialism is a state of consciousness', a crucial stage in the continuum of our cultural process and self awareness" (7). Since Postcolonial literatures in English are a focal point of literary debate, it is legitimately contended that the study of colonialism and its chronological successor post colonialism, is very crucial to scholars of all disciplines under humanities. In the context of literature, Postcoloniality suggests not merely the era of political independence but more significantly a state of mind, emancipation of spirit and broadening of outlook. Analysis of the literary output of different orientations within the post colonial world demonstrate that in the evolution of a world literature or globalization, national boundaries do not any longer stand tall enough to remain impediments.

The literary renaissance that resulted from India's response to the literary movements of the other nations of the Third World, invited a radical reappraisal of the prevalent poetic trends. Poetry had to evolve towards Indianisation and drift away from incipent romanticism, in order to gain global critical acceptability as postcolonial poetry from India in English. It had to be moulded as poetry of Indians, by Indians, but certainly not merely for Indians. This paper emerges form an ongoing research into the trends and themes of recent Indian poetry in English. Our propositions

International Research Journal of Management Sociology & Humanity (IRJMSH) Page 229
www.irjmsh.com



## Language and Rituals as Transcultural Motifs in South Asian Novel - Anil's Ghost.

- Source: Poetcrit . Jul-Dec2022, Vol. 35 Issue 2, p17-24. 8p.
- Author(s): Bose, Tuhina; Pathak, Neelanjana
- Subject Terms: \*SRI Lanka \*ONDAATJE, Michael, 1943- \*DIASPORA \*SOCIAL change \*RITES & ceremonies \*MODERN society \*RITUAL \*LANGUAGE & languages
- Abstract: Diasporic fiction works as a wheel to connect the mother nation with the adopted nation in time and space, and as more and more diasporic narratives gain popularity, the nuanced stories from the previously colonised nations are gaining a momentum. Ondaatje who has spent his childhood in Sri Lanka and now is a Canadian citizen, weaves Anil's Ghost as a tapestry heaped with transnational sentiments, he looks back at South Asia as a cultural hub; for writers like Ondaatje, it is extremely important to create space for the unheard stories of their people and connect it with the mainstream literature, as a commitment to the honesty of writing. Having gone through the experience of diaspora such writers have endowed their fiction with the sentiments of hybridity, multiculturalism and globalization in abundance. As these metanarratives speak of the people who were either never spoken about or were subjugated, they attempt to explore the historical facts and dig deeper into the archives to unearth these disembodied voices, perhaps for emancipation and for challenging the disavowal of native cultures. The two major pillars that are indicative of cultural changes for any kind of people are language and religious/ritualistic practices. Language, the basic element of dialogue, is still an inexhaustible source of conflicts and coexistence, which engages with people and can result in the fact that they might be living in different worlds even if they live in the same neighborhood. Intercultural dialogue thus appears a sine qua non of contemporary society enroute to a transcultural future, where the sheer preaching of multiculturalism may echo the evolution of hybridity, new ritualistic practices, and greater tolerance. Ritualistic practices could be social or religious, the blending of practices, for instance in food, clothing and lifestyle have always been the markers for an evolving culture. Moreover, south Asia has been a fecund space for thriving of hybrid cultures with the Indian ocean being the fluid medium
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बहुमुखी प्रतिभा की धनी महादेवी वर्मा : एक विश्लेषण

त्रियो सहित्व जात् को एक लोकप्रिय कर्यांच्यों के शप में महारंकी वर्ष को जात जात है। क्रायाशर के चार प्रमुख अन्यार अर्थ्यों में से वह एवं भीं। इसीने हिरी एक एवं पढ़ साहित्य के विविध क्षेत्रों या अपनी लेखनी चलाई और अपनी स्वेबंदन, पीतु, करणा और सहस्थत के विवश के बारण उर्के आयुर्गिक मीत बड़ा जाने रूपा सकरेबी कर्ब ने अनुपति को प्रवाह से सम्बन्ध के विविध पर्धों और रूपों को रोहा और पूरी सरकाई के साथ उन्हें लेक्क्ट्रेक्ट करके सरितियक रूप प्रदान किया। यही कारण है कि उन्हें आधुनिक हिरी सहित्य के समर्थ हस्तावर के रूप में पहचान

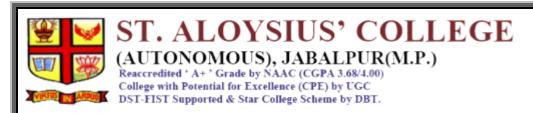
माराचेंगी जा जामा मार् १९६६ में पार्टेजाबार, उत्तर प्रदेश में हुआ था। उनके फिता को योजिए स्थाप कर्या एक प्राध्यपक थे और गाता खीमती होमारानी देवी एक मुहित्यों की तब्ये परिवार में साथ पेतिकां के बात पुनीसन की प्राप्त हुई की हक पर परिवार ने प्रतित होजब इसे अपनी कुलस्की में पूर्व का प्रमाप त्यान और उनके तम पर ही नवतना पुत्ती का तम महानेची एक गया। दिस प्रकार रोजों दुर्जा कुछ जा पान करती हुई बत्तर, प्रतिमात रक्षण और नाथ वा निवार्तक काली रही, पीक उससे प्रवार स्वारंकों में भी मोतान पूर्वत स्वार्तिक हिल्लों का समसंग क्रिया और नदी अभिनात के पक्ष में अपनी आचान बुलंद की और अंतर: उन्तोंने अपने नाम को सार्वक सिद्ध कर दिसा।

बारोबी वर्ज ने माहिल के क्षेत्र में अपनी भी में ही ग्रेरफ पढ़ार करण रखा। महिल का बीजरोबण उनके हरण में बचनन से ही हो गया था। महारेखी तर्ज को बचनन से ही माँ हुए। बीजरोगण उनके इरण में बचणन से ही हो गया था। स्वारंगों नम्में को वणनन से ही मी द्वारा एमायान, मार्ग्यात की प्रधार मुनने का अवकास मिला, इसमें उनके बाल कर में साहित्य के प्रति अनुपार उनका हो नाया। पूर्व के पीन प्रानंत्र में ही दिन्द जाने हैं इस उन्होंने कहा हो। हा न्यारंग के प्रति कहा हुए, उन्होंने बहुत खोटी आहु से ही करना मुक्त करने कर गया। इस्ते कर गरियाम का कि 5 वर्ष की भागा को साहित्य उर्ज लेखन की ओर उन्हांख कर गया। इस्ते कर गरियाम का कि 5 वर्ष की अल्यानु में ने अपनी पाली कवित्य को मुश्लित कर मार्गी यो इस प्रति हुए। उन्हों करी में नामार्गित के प्रति हुए। उन्हों करने में अल्यानित का कि हुए। मार्ग्यात के स्वारंग का स्वारंग के प्रति करने में उनकी वित्य करने हुमाराष्ट्रामार्ग बीवल का भी निर्माण सोमार्ग्यात के बीच की मार्गित करने में उनकी वर्ष हो प्रानंत्र करने में

चीतान का भी जिल्लेक वीगरान रहा। यून्साकुमारी चीतान और मतानेची वर्च एक ही विचारण में अध्ययनता तो। एक समय महत्त्रेची चीतारी कांत्र में और मुन्धाकुमारी जातर्थी कवा में मी, एक रिन मुन्दाकुमारी ने मतानेची की कथा में आकर उनमें जानना चाहा कि क्या वह करिवारी निस्तरी

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# PRIORITY AREAS OF INDIA AT G20 PRESIDENCY: AN OVERVIEW

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### ABSTRACT

This paper aims to highlight the role of India as the President of G20 Summit in bridging the gap arisen due to COVID, Russia- Ukraine war and the rise of inflation globally. It gives the overview on what India can offer to the world with its success stories like vaccination drives, women-led development, digital platforms etc. The paper also gives insights about the reformation which has to be brought in the governance of G20 and the need to use this platform to encourage the G20 nations to abide to the SDGs and promote initiatives such as Lifestyle for the Environment (LiFE) and One Solar Alliance

### INTRODUCTION

Our Priorities will focus on healing our 'ONE EARTH', creating harmony within our 'ONE FAMILY' and giving hope for our 'ONE FUTURE'

- PM Shri Narendra Modi

The Group of Twenty (G20) is the premier intergovernmental forum for international cooperation, established with the objectives to maintain coordination between its members in order to achieve global economic stability, sustainable growth, promote financial regulations

DR. REETA CHOUHAN

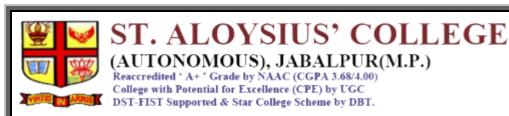
DEEKSHA JAIN

1Page

VOL8, ISSUE1

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**MAR-MAY 2023** 





ROLE OF INDUSTRIES IN THE LIVELIHOOD OF SURROUNDING RURAL AREAS: AN OVERVIEW

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### ABSTRACT

This paper tries to explain the relationship between the industries and Rural Area Surrounding. In much literature so far review a mixed impact of industry and rural area surrounding. Financial capital, human capital, social capital is observed further the assets that also be found interlinked achievement has also be found due to industries affect the other components the ones livelihood assets positively and adversely. Due to link amongst the livelihood assets achieving livelihood output some industrial development is a challenge.

Keyword:- Financial Capital, Human Capital, sustainable development

### INTRODUCTION

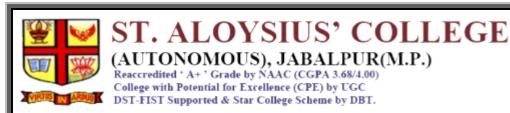
Foregoing analysis shows that India has made sufficient achievement in industrial development during the last five decades and has emerged as the tenth largest industrialized country of the world. But considering the size of the country this development is far from satisfactory. Foregoing analysis shows that India has made sufficient achievement in industrial development during the last five decades and has emerged as the tenth largest industrialized country of the world. But considering the size of the country this development is far from satisfactory. Among the several aspect that are influence by a industries one important issues is people livelihood challenge of a surrounding region. Livelihood is very complex and dynamic matter. The general perception the industrialization brings the positive

DR RENU MARKANDEY

DR. ANTHONIMA ROBIN

1Page

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## EFFECT OF HYBRID LEARNING MODEL ON ACADEMIC ACHIEVEMENT OF STUDENTS

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#### ABSTRACT

In today's era of digitalisation & modernisation, every process is becoming fast and efficient and so does our education system. This demands educational techniques to shift from a face- to-face traditional learning to an online learning. But as the saying goes by "everything comes with a price", online learning too has its copious limitations. There comes a betwixt "Hybrid Learning Model". This model is a cross between traditional face-to-face classroom format and online-only instruction. The verity behind hybrid instruction is that it provides the benefits of personal interaction with the convenience and flexibility of online assignments and discussions. While there has been significant research on how students perceive this form of learning, however, little exists on the impact of hybrid learning model on academic achievement of students. The present study aims to probe into the juxtaposition of traditional and online learning from a student's perspective, impact of hybrid learning model on the academic achievement of undergraduate students, extent to which hybrid learning responds to the needs and expectations of the students and if hybrid learning acts as a cost-effective mode of education from student's perspective. Survey method is used to collect data for the quantitative research to examine the academic achievement and the attitudes undergraduate students possess towards the hybrid learning model.

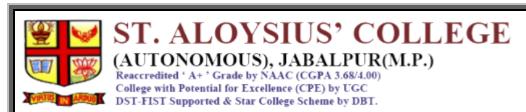
### KEYWORDS

Hybrid Learning Model, Academic Achievement, Cost Effectiveness, Traditional Learning, Online Learning

VOLUME 10, ISSUE 2, 2023

270

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### ACTIVE LEARNING STRATEGIES AS AN INNOVATIVE TEACHING AND LEARNING **STRATEGIES**

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### ABSTRACT

Education is a process of facilitating learning of knowledge, skill values and habits. Basically teaching must include two major components sending and receiving information. Ultimately a teacher tries his best to impart knowledge as the way he understood it. Teacher as a facilitator in teaching learning process and he try every day something new and innovating in his classroom. His innovative ideas make his teaching different to others. Propose of this paper to promote active learning strategy as an Innovative teaching and learning strategy. The main objective of this paper, to promote innovative and effective methods of teaching in classroom, best practices in teaching with students and accelerate teaching-learning process by way of promoting independent, critical and Creative thinking etc. Researcher thinks critically and analyzes all traditional teaching methods and Innovative teaching methods. After discussion all aspects researcher found that active learning strategy is the best option of Innovative teaching methods. School and college teacher can easily implement in their classroom and get positive result for learning. Conclusion of this paper, active learning strategy is more effective Innovative method during teaching learning process in classroom

Key words: active learning strategy, Innovative Teaching, Teaching and Learning, Learning Strategies

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#### Coupled fixed point results and application to integral equations

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Abstract.: In this research, we have settled some coupled fixed point results with rational contraction in partially ordered b-metric spaces (PObMS). The findings introduced here are generalizations and extensions of some of the established results in the literature. The applications of our result have been discussed in the final section of the paper.

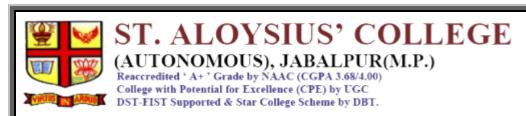
AMS (MOS) Subject Classification Codes: 54M20; 47H10; 54H25 Key Words: coupled fixed point, partially ordered b- metric space, contraction

### 1. INTRODUCTION AND PRELIMINARIES

The study of fixed point is a well-established theory in mathematics which is applied to solve a wide area of problems. Contraction mappings play a key role for resolving existing problems in a myriad of mathematical disciplines. Wolk [20] and Monjardet [14] investigated the extension of the Banach contraction principle to partially ordered sets (poset) in order to obtain fixed points under certain conditions. In 2004, Ran and Reurings [16] established fixed points in partially ordered metric spaces (POMS) with some applications to matrix equations. Later on, many researchers [1, 2, 4, 5, 6, 8, 9, 10, 11, 12, 13, 15, 18, 19] settled fixed point and coupled fixed point results in POMS.

**Definition 1.1.** [7] Suppose  $(V, \leq)$  is a poset. A mapping  $S: V \to V$  is called strictly increasing if S(p) < S(i), for all  $p, i \in V$  with p < i, and if S(p) > S(i), for all  $p, i \in V$  with p < i, is called strictly decreasing.

149



GRADIVA REVIEW JOURNAL

### AWARENESS AMONG SCHOOL TEACHERS REGARDING THE RIGHT TO EDUCATION ACT, 2009

ISSN NO: 0363-8057

### Roshanlal Sondhiya & Shraddha Patel

Department of Education St. Aloysius College Jabalpur-01

### Abstract

Education is a human right and is necessary for the realization of all other human rights. The Children's Rights to Free and Compulsory Education Act of 2009, known as the RTE Act of 2009, was introduced by the 86th Amendment in December 2002 and passed by Congress in July 2009 and came into force on April 1, 2010. An attempt was made to find out the perception of secondary school teachers' right to education through this study. In this study, 50 school teachers were constituted as a sample. A self-made questionnaire consisting of 15 multiple-choice questions was used. In this present study, there is no significant differences were found between teachers in rural and urban schools, and male and female teachers.

Key words - Awareness, Right to Education Act 2009.

### INTRODUCTION

Education is the key to unlocking the power of knowledge. Education is a human capital investment. Individual freedom and empowerment are achieved through education, which contributes to societal growth. It provides a solid foundation for society, allowing for economic development, social prosperity, and political stability. To know how to read is to know how to walk; to know how to write is to know how to ascend; the feet, arms, and wings are all given to him by his first and most basic school books, according to Jose Marti, a poet and revolutionary Latin American thinker. These phrases help people grasp the value of education, but the reality is that not every youngster in our country has opportunity to it (Manju, 2015).

The landmark - Right to Education, the Right of Children to Free and Compulsory Education Act, 2009, provides every child in the age group of 6-14 years the right to:-



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## महिला तस्करी और मानवाधिकार: समस्याएं एवं समाधान

विश्वास पटेल तृहिना जीहरी

"लोगों को उनके मानवाधिकारों से वंचित करना उनकी मानवता को चुनौती देना है।"

-नेल्सन मंडेला

'न्यायमूल स्वराज्य स्थात' अर्थात 'स्वराज के मूल में न्याय होता है' जब न्याय की चर्चा होती है, तो मानव अधिकार का भाव उसमें पूरी तरह से समाहित रहता है। शोषित, पौड़ित और वंचित जनों की स्वतंत्रता, शांति और उन्हें न्याय सुनिश्चित कराने के लिए यह विशेष रूप से अनिवार्य है।

गरिमा के साथ जीवन यापन करना और अपने अधिकारों की रक्षा करना एक बुनियादी मानव अधिकार है। लेकिन हमारी सामाजिक व्यवस्था में महिलाओं की स्थिति हमेशा दोयम दर्जे की ही रही है। वे हमेशा आक्रामकता, हिंसा, शोषण, भेदभाव आदि का शिकार होती रही हैं क्योंकि पितुसत्तात्मक समाज ने उन्हें हमेशा अपने अधिकारों से वंचित रखा और उन्हें कठोर और रूढ़िवादी रीतिरिवाजों का पालन करने के लिए मजबूर किया जाता रहा है, और यही कारण है कि महिलाओं के खिलाफ कई तरह के अपराध होते रहे हैं। ऐसे ही गम्भीर अपराध का एक ज्वलंत उदाहरण महिलाओं की तस्करी है जो अपने आप में मानवाधिकारों का गंभीर उल्लंघन है। वर्तमान समय में महिलाओं की तस्करी वैश्विक स्तर पर एक गंभीर एवं संवेदनशील समस्या बनकर उभरी है। यह एक ऐसा अपराध है जिसमें महिलाओं और लड़कियों को उनके शोषण के लिये खरीदा और बेचा जाता है। इसमें पीड़ित महिलाओं व लड़िकयों से देह व्यापार, घरेलु काम तथा गुलामी इत्यादि के कार्य उनकी इच्छा के विरुद्ध करवाए जाते हैं। महिला तस्करी या अवैध व्यापार का शिकार होना किसी भी त्रासदी से कम नहीं है। इससे मानवता कलंकित होती है और सभ्य समाज को शर्मिन्दा होना पड़ता है। मानव तस्करी मानवता के विरुद्ध ऐसा भयावह कृत्य है, जो मनुष्य के स्वतंत्रता जैसे मूलभूत अधिकार को ही छीन लेता है।

122 राष्ट्रीय मानव अधिकार आयोग, भारत

सहायक प्राध्यापक, सन्त अलायसियस स्वशासी महाविद्यालय, जवलपुर

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Page 28



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### Microchemical Journal

Volume 189, June 2023, 108573



Tumbling vial extraction of 2,4dinitrophenylhydrazones of carbonyl compounds in bottled water, beer and milk using naphthalene-based magnetic polyimide as sorbent and HPLC-DAD

<u>Nisha Sharma</u> <sup>a b</sup>, <u>Manju Gupta <sup>c</sup></u>, <u>Arch</u>ana Jain <sup>a</sup>, <u>Krishna K. Verma</u> <sup>a</sup> ♀ ⊠

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### Highlights

- · Tumbling vial extraction used disc magnets placed inside/outside of vial cap.
- Naphthalene-based <u>polyimide</u> <u>sorbent</u> displayed π-π and hydrophobic interactions.
- · The new extraction method is robust, allows water free extract for injection.
- The added magnets increase sorption through supplementary magnetization of sorbent.
- LODs attained for carbonyls were lower than those reported by literature methods



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#### International Journal of Ayurvedic Medicine, Vol 13 (2), 451-456

Toxicity of Imidacloprid on Peripheral Blood Lymphocytes by
MTT Assay and the Ameliorative Effect of Extract of Tinospora cordifolia (Gilloe) Extract

Persent Article

## Asha Khanna<sup>1</sup>, Manoshi Mukherjee<sup>2</sup>, Muskan Kachi<sup>2</sup>, Daya Shankar Gautam<sup>3\*</sup>, Mamta Gokhale<sup>4</sup>, Varsha Aglawe<sup>5</sup>, Ambika Prajapti<sup>6</sup>

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#### Abstract

Imidacloprid (IMI) is a widely used insecticide which has a specific affinity for insect neonicotinoid acetylcholine receptors. Like all insecticides which are used in excess it tends to bioaccumulate in the environment. So it was thought worthwhile to study its cytotoxicity to human peripheral blood lymphocytes in concentrations ranging from 1.5mM to 4mM after 2 hours and 18 hours exposure by MTT method. Trypan blue test was also used to determine the percentage of living cells. The ameliorative effect of an extract of the stem in water and ethanolic extract of leaves of Thouspora cordificia (Thunb.) Miers, was also studied. The viability of the lymphocytes showed a fall with increasing concentrations at an exposure of 2 hours. After 18 hours exposure to the IMI only, the viability showed a significant dose dependent drop. Trypan blue test for viability was also conducted. Addition of Thouspora extract raised the viability significantly at 2 hours of incubation. In fact this increase was greatest at 3.5mM and 4mM concentration of drug. The ameliorative effect was maximum at 2 hours. Addition of Thouspora leaf extract showed a significant increase in cell viability at 18 hours of incubation as compared to values obtained with only the drug. Thus a considerable loss of viability of lymphocytes was seen after exposure to the drug in the selected concentrations but herbal extracts seem to help to make the damage less marked. The cells showed a significant rise in viability when incubated with Thouspora leaf extract only, confirming its supportive action in cell proliferation. However, taking into account the evident fall in cell viability caused by exposure to the considerably dilute concentrations tested, caution is needed to prevent over exposure to the pesticide while spraying.

Key Words: Imidacloprid, Lymphocytes, MTT, Toxicity, Tinospora cordifolia (Thunb) Miers, Trypan blue.

### Introduction

The use of pesticides has been an established agricultural practice to ensure a good crop yield. This is essential to feed our ever-increasing population. The term pesticide can be replaced with plant protective products (PPP) according to European food safety authority.

Pesticides are one of the very common substances that cause deterioration of the environment

However, indiscriminate use of these pesticides or insecticides leads to pollution of soil and water. Once incorporated in the soil or water they are taken up by the plankton and then gradually reach the higher trophic level and finally man through the food chain (1,2) Thus

\* Corresponding Author: Daya Shankar Gautam Assistant Professor, Department of Zoology, St. Aloysius College, Jabalpur (M.P.) 482001, India. Email Id: dygautam@gmail.com study of the toxic effect of pesticides on organisms and cells of the human system is very relevant.

Imidacloprid (IMI) belongs to the neonicotinoid category which includes selective systemic and single mode activity pesticides introduced in the 1990s. It was patented by Bayer and marketed in 1991. It is a compound derived from nicotine and it inactivates insect nicotinoid acetylcholine receptors. It is favoured for use due to its selective toxicity to insects over vertebrates.(3) Neonicotinoids are neurotoxic insecticides that act by binding covalently to nicotinic acetylcholine receptors and as a result they obstruct the acetylcholine to bind to its receptor. Thus it inhibits the post synaptic transmission, so the insect is paralysed and it may lead to death of the organism.(4) IMI is reported to be toxic to non target insects such as honeybees etc. so it may be disturbing the ecosystem.

reported to be which to homely be accessed and honeybees etc, so it may be disturbing the ecosystem. IMI also known as N-[1-[(6-chloropyridin-3-yl)methyl]imidazolidin-2-ylidene|nitramide has molecular formula C9H10CIN502, with a molecular weight of 255.6 g/mol, its melting point is 136.4 to 143.8 °C (277.5 to 290.8 °F). In appearance, it consists of colourless crystals.

45



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"भारतीय बीमा क्षेत्र में आईआरडीएआई का योगदान: नियामकता, विकास और उनकी महत्वपूर्ण भूमिका"

डॉ. योगेश आशर

सहा. प्राध्यापक संत. अलोयसिउस महविद्यालय (स्वसाशी) जबलपुर (म.प्र.)

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संत. अलोयसिउस महविद्यालय (स्वसाशी) जबलपुर (म.प्र.)

### Abstract:

बीमा क्षेत्र एक राष्ट्र के आर्थिक विकास और स्थिरता में महत्वपूर्ण भूमिका निभाता है। भारत में, भारतीय बीमा नियामक और विकास प्राधिकरण (आईआरडीएआई) बीमा उद्योग के विकास और संचालन की जिम्मेदारी वाला नियामक निकाय है। इस शोध पत्र में आईआरडीएआई की भूमिका का विश्लेषण इसके कार्य और जिम्मेदारियों, नियामक ढांचे, पहल, और इसके प्रभाव को समग्र वृद्धि और बीमा बाजार के विकास पर किया गया है, । इस शोध के नतीजे में आईआरडीएआई की महत्वपूर्णता को प्रमुखता देते हुए, बीमा उद्योग को आकार देने और उपभोक्ता संरक्षण, नवाचार, और वित्तीय स्थिरता को प्रोत्साहित करने तथा,भारत में बीमा क्षेत्र के विकास में आईआरडीएआई की भूमिका का विश्लेषण करने का उद्देश्य रखता है।

Keywords: भारतीय बीमा नियामक और विकास प्राधिकरण (आईआरडीएआई), बीमा क्षेत्र, विकास, नियमन, भारत।

### परिचय(Introduction):

बीमा क्षेत्र एक राष्ट्र के आर्थिक विकास और स्थिरता में प्रमुख भूमिका निभाता है। भारत में, बीमा क्षेत्र के सुचालन को सुनिश्चित करने और पॉलिसीधारकों के हितों की रक्षा करने के लिए, भारतीय बीमा नियामक और विकास प्राधिकरण (आईआरडीएआई) की स्थापना की गई। भारतीय बीमा नियामक और विकास प्राधिकरण (आईआरडीएआई) बीमा उद्योग के विकास और संचालन हेतु शीर्ष नियामक निकाय है। आईआरडीएआई की स्थापना भारतीय बीमा क्षेत्र के विकास के ऐतिहासिक मील के रूप में महत्वपूर्ण थी, क्योंकि इसने बीमा कंपनियों के संचालन और पॉलिसीधारकों के हितों की संरचित और नियामित तंत्र को स्थापित किया। आईआरडीएआई का प्राथमिक उद्देश्य भारत में एक मजबूत और समावेशी बीमा बाजार के विकास के लिए प्रोत्साहन देना था। जो बीमा क्षेत्र में प्रतिस्पर्धा को बढ़ावा देने, वित्तीय स्थिरता सुनिश्चित करने और पॉलिसीधारकों के अधिकारों की संरक्षा सुनिश्चित करने के बीच संतुलन स्थापित कर सके। भारतीय बीमा नियामक और विकास प्राधिकरण अधिनियम, 1999 के अंतर्गत इसकी शक्तियां और

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Page 23



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IRJMSI

Vol 10 Issue 2 [Year 2023] ISSN 2582-5445 (online)

### Effect of Working Capital Management on Profitability of Hero Honda Auto Limited

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### ABSTRACT

The present paper studies effect of working capital management on profitability of Hero Honda Auto Limited. Automotive industry in India is one of the key sectors of the economy. Due to its deep forward and backward linkages with various other important segments of the economy, the industry acts as a key driver of the economic growth of a nation. The study is based on secondary data from 2017-18 to 2021-22. Data has been analyzed with the help of descriptive statistics such as mean standard deviation, maximum and minimum values; correlation statistics and multiple regression statistics. Return on assets was taken as dependent variable while current ratio, quick ratio, cash turnover ratio, debtor turnover ratio, inventory turnover ratio current assets to total assets ratio working capital turnover ratio were taken as independent variables An econometric model was established and parameters were estimated based on the panel data for Hero Honda Auto Limited industry for five years. The study found that no variable significantly effect profitability of Hero Honda Auto Limited.

Key Words: Working capital, Multiple Regressions, Profitability.

### 1. INTRODUCTION

Working Capital Management is a part of financial management of a business organization. Effective working capital management enables improvement in the profitability. Working capital is the excess of current assets over current liabilities. The appropriate structure of current assets and current liabilities result optimum use of working capital It also enables to maintain adequate amount of working capital in a business organization for smooth functioning of business and desired profits.

Automotive industry in India is divided into two main segments viz. Indian automobile industry and Indian auto components industry. Indian automobile industry consists of passenger vehicles segment, commercial vehicles segment, two wheelers segment and three wheelers segment while Indian auto components industry consists of various product segments viz. engine and engine parts, transmission and steering parts, suspension and breaking parts, equipment, electrical parts and other parts like body and chassis, sheet metal parts, fan belts, pressure die castings etc.

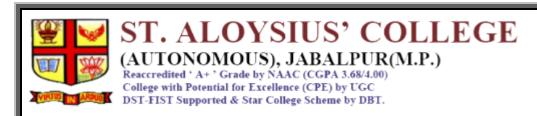
### 2. LITERATURE REVIEW

Nazir and Afza (2009) tested the factors that determine the working capital requirements by taking a sample of one hundred and thirty two manufacturing firms from fourteen industrial groups that were listed on the Karachi Stock Exchange between the periods from 2004 to 2007.

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Page 35



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A STUDY ON THE IMPACT OF THE COVID-19 POST-PANDEMIC PERIOD ON THE HIGHER EDUCATION SYSTEM (WITH REFERENCE TO GOVERNMENT SCHOOLS & COLLEGES)

2 Author(s): Dr. Dileep Kumar Koshta, Dr. Sunil Kumar Tiwari

Vol - 10, Issue- 2, Page(s): 27 - 34 (2023) DOI: https://doi.org/10.32804/IRJMSI

### Abstract

In the month of March, 2020, the Central government across the country began shutting down schools and colleges temporarily as a measure against to spread of the novel coronavirus. February 11, 2020, the World Health Organisation (proposed an official name of the virus as COVID acronym for Coronavirus disease 2019.

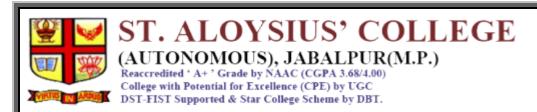
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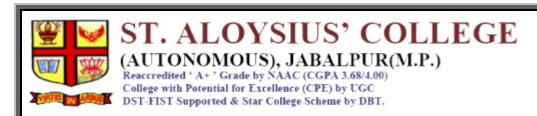
भारत को आत्मनिर्भर बनाने में नई शिक्षा नीति 2020 के योगदान का विश्लेष्णात्मक अध्ययन

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### **Abstract**

आर्थिक और सामाजिक विकास प्राप्त करने के लिए स्कूलों और कॉलेजों में एक स्पष्ट और भविष्योन्मुखी शिक्षा नीति होनी चाहिए। परंपरा औ संस्कृति किसी भी देश के लिए शिक्षा प्रणाली को अपनाने में प्रमुख भूमिका निभाते हैं। आत्मानिर्भरता का आदर्श भारत सहित सभी राष्ट्रों का शाश्व लक्ष्य रहा है।







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REVIEW



### Myricetin: a potential plant-derived anticancer bioactive compound—an updated overview

Suneel Kumar<sup>1</sup> · Nitin Swamy<sup>2</sup> · Hardeep Singh Tuli<sup>3</sup> · Seema Rani<sup>4</sup> · Abhijeet Garg<sup>2</sup> · Deepa Mishra<sup>5</sup> · Hadi Sajid Abdulabbas<sup>6</sup> · Sardul Singh Sandhu<sup>7</sup>

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#### Abstract

The globe is currently confronting a global fight against the deadliest cancer sickness. Chemotherapy, hormonal therapy, surgery, and radiation therapy are among cancer treatment options. Still, these treatments can induce patient side effects, including recurrence, multidrug resistance, fever, and weakness. As a result, the scientific community is always working on natural phytochemical substances. Numerous phytochemical compounds, including taxol analogues, vinca alkaloids such as vincristine and vinblastine, and podophyllotoxin analogues, are currently undergoing testing and have shown promising results against a number of the deadliest diseases, as well as considerable advantages due to their safety and low cost. According to research, secondary plant metabolites such as myricetin, a flavonoid in berries, herbs, and walnuts, have emerged as valuable bio-agents for cancer prevention. Myricetin and its derivatives have antiinflammatory, anticancer, apoptosis-inducing, and anticarcinogenic properties and can prevent cancer cell proliferation. Multiple studies have found that myricetin has anticancer characteristics in various malignancies, including colon, breast, prostate, bladder, and pancreatic cancers. Current knowledge of the anticancer effects of myricetin reveals its promise as a potentially bioactive chemical produced from plants for the prevention and treatment of cancer. This review aimed to study the numerous bioactivities, mode of action, and modification of several cellular processes that myricetin possesses to impede the spread of cancer cells. This review also addresses the challenges and future prospects of using myricetin as a anticancer drug.

Keywords Bio-molecules · Cancer · Angiogenesis · Apoptosis · Proliferation · Antimalignant

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#### Abbreviations

PAL Phenylalanine ammonia-lyase

4CL 4-Coumaryl-CoA ligase CHS Chalcone synthase

CHI Chalconeisomerase

F3H Flavanone-3-hydroxylase

F3'H Flavonoid-3'-hydroxylase

FLS Flavonol synthase

### Introduction

Since the dawn of civilisation, people have used a variety of natural substances and their derivatives to treat terrible ailments. The use of secondary metabolites derived from plants to treat cancer is becoming more and more popular. Numerous studies have demonstrated the significance of phytochemicals in preventing this condition (Goyal et al. 2022; Khatoon et al. 2020; Shuaib et al. 2021). Therefore, the research community has identified an extensive range of

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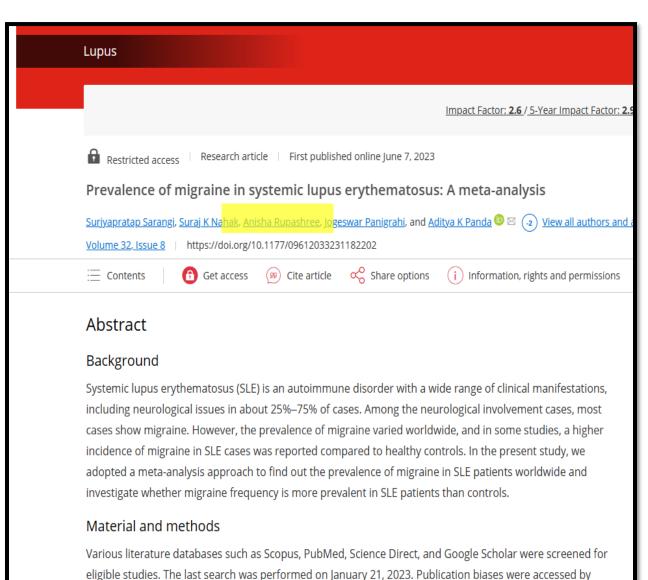
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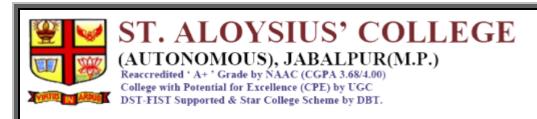
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analysis software v3.



Egger's regression analysis and funnel plots. Cochrane Q statistics and I<sup>2</sup> values explored the presence or absence of heterogeneity. All statistical analysis of meta-analysis was performed in comprehensive meta-



A Preliminary Screening And Determination
Of Biochemical Properties Of Bacterial
Isolates Producing An Anticancerous Enzyme
Asparaginase From Some Sewage Water
Samples Of Bhopal, M.P. India

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Keywords:

L-asparaginase, anticarcinogenic, enzyme production, wastewater Shreya Tiwari Rakesh Mehta Ragini Gothalwal Laxmikant Pandey

### Abstract

Microorganisms have had a major impact on the development of medical science since the discovery that they not only cause infections but also produce certain organic compounds that cure infections and help treat a variety of non-infectious diseases Though, microbes are ubiquitous, but their metabolic capabilities are greatly influenced by the habitat they survive with unique conditions of pH, temperature, pressure, oxygen, light, nutrients and salinity, there is a high efficiency for those to yield metabolites to exhibit special biological activities The production of enzymes is a pursuit central to the modern biotechnology industry. Asparaginase is one such important enzyme finds their use in the pharmaceutical, biosensor and food industries and has anticarcinogenic potential for the treatment of acute lymphoblastic leukemia, lymphomas and other cancers. Asparaginase are naturally occurring enzymes expressed and produced by animal tissues, bacteria, plants, and in the serum of certain rodents, but not in mankind. Erwinia carotovora, Pseudomonas stutzeri, Pseudomonas aeruginosa, E. coli etc has been known to produce L-asparaginase, though its commercial production is restricted to use of Erwinia chrysanthemi and E. coli as per the latest information. Thus the present work was intended to screen out certain new bacterial isolates with in vitro asperginase producing potential from sewage water sources. The sewage water samples were collected from 5



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are Group I Listed Journal) Vol-13, Issue-4, No.03, April : 2023 "डिजिटल अर्थव्यवस्था में महिला संशक्तिकरण की प्रगति का समीक्षात्मक अध्ययन"

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#### सारांश

भारत में विशेशतः महिला वर्ग को संशक्त करने की दृष्टि से सूबना और संघार प्रौद्यौगिकी अर्थात डिजिटल क्रांति का सूत्र—पात केन्द्र सरकार द्वारा 1 जुलाई को जिजटल इंडिया के साथ किया गया। डिजिटल इंडिया कार्यक्रम के प्रभाव से इं-कॉमर्स व्यवसायों में न्यूनतम नियंश व अधिकतम लाम की इस बाजार निति का लाम उठाने में महिलायें भी अछूती नहीं रही हैं। महिलाओं को विकास की मुख्य धारा से जोडे बिना किसी देश, राज्य एवं समाज का आर्थिक, सामाजिक और राजनैतिक विकास की कल्पना भी नहीं की जा सकती है। इसलिए केंन्द्रीय बजट 2023—24 में लैंगिक असमानताओं को दूर करने के मकस्तद से 223,219,75 करोड़ के का आर्यटन किया है. लैंगिक समानता सुनिश्चत करने के लिए जेंडर बजट पर आर्यटित इस रकम से महिला—केंद्रित योजनाओं पर जोर दिया जाएगा। ये रकम 2022—23 के पुनरीक्षित अनुमान (2 लाख 18 हजार करोड़ क) की तुलना में 2 प्रतिशत से भी ज्यादा है। पिछले साल के बजट अनुमानों में इस मद में 1,71,006.47 करोड़ क खर्च होने की बात कही गई थी. ताजा आर्यटन इसके मुकाबले 30 प्रतिशत ज्यादा है। डिजीटलकरण के इस दौर में आधुनिक युवा महिलाओं को डिजिटल व वैश्वक नागरिक बना दिया है। प्रस्तुत शोध पत्र में डिजिटल अर्थव्यवस्था में महिला सशक्तिकरण की प्रगति को जानने का प्रयास किया गया है।

#### प्रस्तावना-

"जब तक महिलाओं की रिश्वित में सुधार नहीं होता तब तक विश्व का कल्याण संमव नहीं है। किसी चिड़िया के लिये एक पंख से उड़ना संमव नहीं है"।

#### स्वामी विवेकानंद

महिलाओं के आर्थिक सशक्तिकरण के सन्दर्भ में बजट 2023—24 में केन्द्रिय वित्त मंत्री निर्मला सीतारमण जी ने कहा कि "हमारे उज्ज्यल भविष्य की अगुवाई करने में नारी शक्ति के महत्व और अमृत काल (2047 में आजादी के 100 साल पूरे होने तक की 25 साल की मियाद) में महिलाओं के नेतृत्व में विकास की अहमियत" को सरकार अच्छी तरह से समझती है। सशक्तिकरण बहु—पक्षीय बहु आयाभी और बहु स्तरीय अवधारणा ही नहीं अपितृ एक बहु आयाभी चुनौती भी है। मारत में विशेषतः महिला वर्ग को सशक्त करने की दृष्टि से सूचना और संचार प्रौद्यौगिकी अर्थात डिजिटल क्रांति का सूत्र—पात केन्द्र सरकार द्वारा 1 जुलाई को हिजिटल इंटिया के साध्य किया गया। इस कार्यक्रम को सरकार द्वारा इलेक्ट्रॉनिक और सुचना प्रोद्यौगिकी विमाग (ठी.ई.आई.टी.वाई.) के समग्र समन्यय के साथ क्रियान्वित किया जा रहा है।

वर्तमान युग प्रौद्योगिकी , कम्प्यूटर, एंव सूचना सम्प्रेषण तकनीक का युग है। आज देश को ज्ञान क्रांति के माध्यम से ,विषय में स्थापित करने की मुहिम चलाई जा रही है। जिससे देश को साधन संपन्न बनाकर बेरोजगारी , निर्धनता, अिंशता के जंजाल में फंसी एक सी पच्चीस करोड़ से अधिक जनसंख्या के जीवन त्तर में सुधार लाया जा सके। इस कार्यक्रम का उद्देष्य डिजिटल ऐक्सेस , डिजिटल समावेशन , एवं डिजिटल सशक्तिकरण सुनिष्टित करने और डिजिटल विभाजन को दूर करने के साथ ही भारत को ज्ञान आधारित अर्थय्यवस्था में बदलना और इसे एक डिजिटल संपन्न समाज बनाना है। सरकार देश के नागरिको को कुम समय में किफायती व कुशल तरीके से सेवाएं देने के लिये तैयार है।

डिजिटलाइजेशन वह प्रक्रिया है जिसके माध्यम से सामाजिक—आर्थिक जीवन के कई पहलुओं का पुर्नगठन ढिजिटल संचार या सूचना प्रौद्योगिकी के द्वारा किया जा रहा हैं। तकनीकी प्रगति और विकास आधुनिक जीवन शैली की विशिष्ट पहचान है। किसी भी देश की प्रगति वहाँ की तकनीकी आत्मनिरर्भरता से आंकी जाती है। मारत में डिजिटलकरण के क्षेत्र में प्रयास सत्तर के दशक के उत्तरार्द्ध से शुरु हुए। इस प्रयास में भारत में पहली बार रक्षा,नियोजन,चुनाव,जनगणना और कर प्रशासन आदि में अनुप्रयोगों के विकास के साथ ई—गवर्नेस की शुरुआत हुई।

डिजिटल अवसंरचना भारत के शासन और सामाजिक — आर्थिक विकास में एक महत्वपूर्ण सूत्राधार है। इस विकिसत तकनीकी का दावा है— प्रत्येक मनुष्य को सशक्त करना है। आज से पहले विज्ञान के गुणों की चर्चा की जाती थी। पर अब उसका स्थान प्रीद्योगिकी ने ले लिया है। डिजिटल प्रोद्यिगिकी के कारण संपूर्ण विश्व में एक नई क्रांति की लहर दिखाई देती है। प्रत्येक देश की सामाजिक—आर्थिक स्थित तेजी से बदल रही है। इसकी सर्वोत्तन उपलब्धि सूचनाओं को सहजता से साझा करना माना जाता है। अब ऑफिस छोटे हो गए और बाजार जेब में आ गया है। हर तरफ जादू है। कहा जाता है कि उच्च तकनीकी के प्रयोग से संपूर्ण जगत में रहने वाले मानव की सामाजिक—आर्थिक स्थिति में बदलाव लाकर विश्व में उसकी एक उच्च गुणवत्ता प्रधान जगह बनाना है।

डिजिटल इंडिया कार्यक्रम के प्रमाव से ई-कॉमर्स व्यवसायों में न्यूनतम निवेश व अधिकतम लाभ की इस बाजार निति का लाम उठाने में महिलायें भी अधूती नहीं रहीं है। आज हजारों महिलायें विभिन्न श्रेणियों जैसे आभूषण, होम

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International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Volume 12 Number 4 (2023)



#### Review Article

https://doi.org/10.20546/ijcmas.2023.1204.008

Detoxification of Sewage Sludge by Natural Attenuation and its Application as a Fertilizer-A Review

Soni Tiwari<sup>1</sup>, Prabhash Kumar Pandey<sup>1</sup>, Ranjan Singh<sup>1</sup>, Ajad Patel<sup>3</sup>, Laxmi Kant Pandey<sup>4</sup>, Femina Sobin<sup>5</sup>, Neeraj Khare<sup>5</sup>, Tuhina Verma<sup>3</sup>, Farrukh Jamal<sup>1</sup>, Janardan Yadav<sup>1</sup> and Rajeeva Gaur<sup>3</sup>

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### ABSTRACT

### Ke yw or ds

Detoxification, Sewage sludge/Seage, Natural attenuation

### Article Info

Received: 05 March 2023 Accepted: 08 April 2023 Available Online. 10 April 2023 Sewage sludge generated from the waste-water treatment systems can play an essential role as fertilizers in the agriculture system. Sewage sludges have hazardous toxic materials; therefore, their application is minimal. Proper dumping of sludge produced via waste-water treatment plants (WWTP) has been categorized as severe ecological trouble and a feasible option to be used in farming formerly sewage sludge is affluent in natural substance and nutrients. On the other hand, sewage sludge contains various toxic agents therefore special attention is required for its application in farming to evade any harm to the organisms as well as to the environment. Controlled and well monitored process of natural attenuation (biological, physical, and chemical processes) which is a part of the environment can detoxify the toxic substances present in the sewage sludges. This review will lead the readers towards the assessment of different processes used for the decontaminating sewage sludge naturally.

71



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### Dr. Abhilasha Shukla

### JIGYASA, ISSN 0974-7648, Vol. 16, No. I, March, 2023 कर्मनाशा की हार : मानव अधिकार व अस्तिव की जीत 112-115 सुनील यादव, शोध छात्र (नेट-जे.आर.एफ.), महात्मा गांधी काशी विद्यापीठ, वाराणसी अविभाजित मध्यप्रदेश के प्रथम महिला सांसद मिनीमाता के 116-120 शिक्षा एवं बालकल्याण कार्य कु. अर्चना, शोधार्थी, शा. दू. ब. महिला स्वशसी स्नातकोत्तर महाविद्यालय रायपुर **डॉ. शम्पा चौबं,** शोध निर्देशक, शा. दू. ब. महिला स्वशासी, स्नातकोत्तर महाविद्यालय रायपुर छत्तीसगढ़ अच्छे अभिभावक 121-124 राकेश कुमार राजपूत, प्रधानाध्यापक, प्राथमिक विद्यालय महदवा, विकास क्षेत्र अमांपुर जनपद-कासगंज शारीरिक शिक्षा और खेल के बुनियादी ढ़ांचे का विकास 125-129 त्रिभुवन यादव, Assistant Professor, Upardaha P.G. -College, Upardaha, Allahabad आचार्य विनोबा भावे का शिक्षा के माध्यम के रूप में हिन्दी 130-134 भाषा विषयक दृष्टिकोण *डॉ. आशाराम वर्मा,* असिस्टेण्ट प्रोफेसर, शिक्षा संकाय, डी.ए.वी.पी. जी. कॉलेज गोरखपुर (उ.प्र.) भारत में देवदासी प्रथा : एक विमर्श 135-139 **डॉ. मनीषा दीवान,** विभागाध्यक्ष, इतिहास विभाग, एस.एन.सेन बा. वि.पी.जी. कॉलेज, कानपुर नगर नागार्जुन के काव्य में व्यंग्य की परख 140-145 *डॉ. अभिलापा शुक्ल,* हिंदी विभाग, संत अलॉबसियस (स्वशासी) महाविद्यालय, पेंटीनाका, जबलपुर (म.प्र)



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| HODH PRERAK   | ISSN 2231-413X,  | Vol. 13,           | Issue I,             | January | 2023  |
|---|--|--------------------|----------------------|---------|-------|
|   | CONT   | ENTS               |                      |         |       |
| बजमोहन कुमार,<br>डॉ. कमलेन्द्र कु   | का राजनीति और समाज पर<br>कोषार्थी, राजनीति विज्ञान, स. न<br><i>सर सुमन</i> , अवकाश प्राप्त सठाव्य<br>सरिसंच पाठी, मधुचनी                                 | ा. मिथिता विश्ववित |                      | एम. एत. | 1-6   |
|   | समावेशी शिक्षा की आवश्यक<br>पार्थी (शिक्षा), ल. ना. मि. वि.वि.   |                    | नौतियाँ              |         | 7-13  |
| श्रवण कुमार राम<br>डॉ. कमलेन्त्र कु   | ं और गढ़पूरा नमक सत्याव्रह<br>र, ओषाधी(राजनीति विज्ञान), तः<br><i>सर सुम्म</i> , अवकाश प्राप्त सहस्य<br>सरिसद पाही, मधुदनी                               | ना. मिथिला विश्ववि |                      | 167     | 14-20 |
|   | वार्थी (राजनीति विज्ञान), त. ना.<br>श् <b>वर याका,</b> विश्वविद्यालय अध  |                    |                      |         | 21-25 |
|   | भारत में पूँजी-निर्माण एवं आर्थिक विकास की समस्या का एक समीक्षात्मक अध्ययन<br>डॉ. ज्योति कुमार पंकर, असि. प्रो., अर्थशास्त्र विभाग, गोड्डा कोलेव, गोड्डा |                    |                      |         | 26-30 |
| 4 4 44 4 44 4 44  | निष्णान और ब्राह्मणवाद<br>डॉ. विश्वाम प्रसाद, दर्शन विभाग, अल्लामा इकचल कालेज, विशास्त्ररीक (नालंब)  |                    |                      | 2       | 31-36 |
| <ul> <li>रामायण में वर्णित महिलाओं की स्थिति का अध्ययन<br/>श्रीमती संग्रेण सिंह, शोधार्थिनी, इतिहास, संस्कृत एवं पुरातत्व विधान, डॉ. राममनोहर लोहिया<br/>अवय विश्वविद्यालय, अयोध्या (उ.प्र.)</li> <li>प्री. (डॉ.) अजय प्रताय सिंह, शोध निर्देशक, विधानाध्यक्ष, इतिहास, संस्कृत एवं पुरातत्व विधान,<br/>डॉ. राममनोहर लोहिया अवय विश्वविद्यालय, अयोध्या (उ.प्र.)</li> </ul> |  |                    | र लोहिया             | 37-41   |       |
|   | का <b>साहित्य व नारी संवेदना</b><br>पु <del>क्त,</del> हिंदी विभाग, संत अलायी  | नपस (स्वशासी) म    | प्रविद्यालय, पेटीनाव |         | 12-44 |
| (1,500)   |  |                    |                      |         |       |