

1. Dr. Reena- Chemistry (A Review on Advancement In Waste Water Treatment)
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A Review On Advancement In Waste Water Treatment

Dr. Reena¹, Dr. Amita Singh²

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Abstract:

Each and every individual has a fundamental right to clean and safe water. Despite the fact that water covers three-quarters of the Earth's surface, only 3% of it is fresh. 2.5 percent of the world's fresh water is trapped in glaciers, polar ice caps, the atmosphere, and heavily polluted soil; or it rests too deep beneath the earth's surface to be retrieved at a reasonable cost. Fresh water is only available in 0.5 percent of the Earth's surface. Currently, millions of people in many parts of the world lack access to sufficient water to meet their basic needs. Furthermore, rising population, increased industries, urbanization, and intensive agricultural practices have polluted the water as well as generated a lot of effluent. Because it includes dangerous diseases, this poisonous water has killed millions of people. Traditional wastewater treatment procedures have a number of drawbacks, including the usage of chemicals, the generation of disinfection by-products, and time consumption, and cost. Various revolutionary approaches, such as nanotechnology, microalgae, and the Floating Treatment Wetland system (FTWS), are effective, eco-friendly, natural, energy-saving, and cost-effective wastewater treatment methods. The combination of wastewater treatment and energy production to provide reclaimed water and sustainable electricity is a very promising strategy for dealing with the energy crisis and fresh water constraint. This hazardous water has killed millions of people since it contains harmful diseases. The use of chemicals, the formation of disinfection by-products, time consumption, and expense are all disadvantages of traditional wastewater treatment techniques. Various novel technologies to wastewater treatment, such as nanotechnology and the Floating Treatment Wetland system (FTWS), are effective, eco-friendly, natural, energy-efficient, and cost-effective. Combining wastewater treatment with energy production to produce reclaimed water and long-term electricity is a viable solution for addressing the energy problem and fresh water security.

Keywords: wastewater treatment, nanotechnology, industrialization, urbanization, Floating Treatment Wetland system, eco-friendly, reclaimed, sustainable pathogens.

Introduction:

Earth is known as a blue planet because water covers around 70% of the planet's surface. Saline water accounts for 97.5 percent of total water, with fresh water accounting for the remaining 2.5 percent. Water that is both clean and safe is a necessary component of a successful society and economy [1]. Water quality has been steadily deteriorating as a result of rising population, expanding industrialization, urbanization, and widespread agricultural operations, which is a severe problem [2-4]. Around 1.3 billion people

do not have access to safe drinking water. 2.6 billion people do not have access to basic sanitation facilities, and children die as a result of unsafe and dirty water [5,6]. Every year, nearly 1.8 million children die from diarrhoea, which is caused by drinking contaminated water [5,7]. Nanotechnology is defined as the manipulation of matter at the molecular and atomic levels to produce a new material, device, or system with improved electrical, optical, magnetic, conductive, and mechanical properties [8-12].

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2. Dr. Amita Singh, Botany Review of Medicinal Properties and Use of the Neem Plant (*Azadirachta Indica*), 2008-3645

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Review of Medicinal Properties and Use of the Neem Plant (*Azadirachta Indica*).

PDF

Dr. Amita Singh, Dr. Reena

Abstract

Azadirachta Indica A.Juss also known as neem plant is one of the most widely known medicinal plants in India and other Asian countries that has been used since ancient times for many medicinal purposes. Neem is a very important medicinal plant used to treat various ailments in the Unani System of Medicine and the traditional medicine system. Some of these chemical compounds are Nimbodin, Nimbisin, Nimbolide, Azadirachtin, Cyclic trisulphide and others such as antipyretic, anti-inflammatory, antibacterial, antidiabetic, ulcer, antischistosomal, spermicidal, antitubercular, antimalarial, hypoglycaemic, immunomodulatory and immunosuppressant. It is also used as an analgesic, an alternative to treating colic and urinary tract infections. In addition, it is used in the treatment of coughs, asthma, tumors, diabetes, blood diseases, biliary diseases and many other medicinal properties. The current work provides comprehensive information on the value of traditional and chemical component of *Azadirachta Indica* to assess therapeutic potential, highlighting the relationship between the value of traditional use and chemical components and future scientific research opportunities in *Azadirachta Indica*.

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3. Dr. Geeta Arora,
Closest Possible Outcome Regression using Deep Learning- ISSN 0367-6234
CLOSEST POSSIBLE OUTCOME REGRESSION USING DEEP LEARNING | Harbin
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CLOSEST POSSIBLE OUTCOME REGRESSION USING DEEP LEARNING

Dr. Geeta Arora*, Prof. (Dr.) Reena Singh & Prof. (Dr.) S. B. Chordiya

PDF

Keywords: Closest, Possible, Outcome, Regression, Deep Learning.

PUBLISHED

2022-07-15

ABSTRACT

Our Research paper "Closest Possible Outcome Regression using Deep Learning" is a Profound learning upset information science, and as of late its fame has developed dramatically, as did how much papers utilizing profound organizations. Vision undertakings, like human posture assessment, didn't escape from this pattern. There is an enormous number of profound models, where little changes in the organization engineering, or in the information pre-handling, along with the stochastic idea of the enhancement systems, produce quite various outcomes, making very hard to filter techniques that essentially beat others. This present circumstance propels the ongoing review, where we play out a deliberate assessment and factual examination of vanilla profound

HOW TO CITE

Dr. Geeta Arora*, Prof. (Dr.) Reena Singh & Prof. (Dr.) S. B. Chordiya. (2022). CLOSEST POSSIBLE OUTCOME REGRESSION USING DEEP LEARNING. *Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology*, 54(7), 180-195. Retrieved from <http://periodicales.com/index.php/HTArticle/view/1173>

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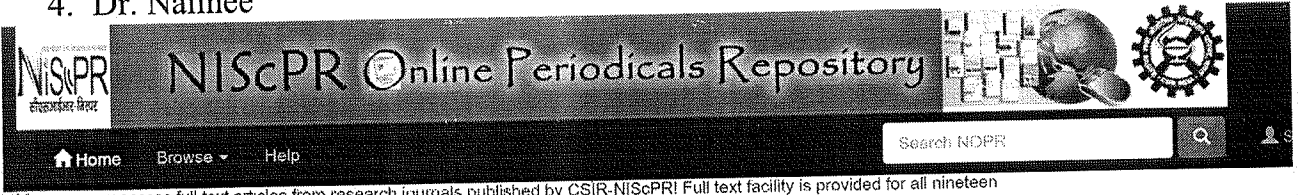
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5. Preeti Rathi, Computer Science, An Improved Medoid Clustering Algorithm for Intrusion Detection Using Web Usage Mining Technique ISSN- 10095-10108 <https://www.journalppw.com/index.php/jpsp/article/view/12539>

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An Improved Medoid Clustering Algorithm For Intrusion Detection Using Web Usage Mining Technique

Preeti Rathi , Dr. Nipur Singh

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Abstract

Intrusion detection is one of the applications of web usage mining. In this application, we find the intrusive or worthless data through mining techniques, determine the user behaviour, i.e. new user or existing user, label data according to the users' requirements and detect networks' known and unknown attacks. There are various models of detection of intrusion. Misuse and anomaly detection are types of intrusion. In anomaly detection, the intrusion is unknown and known in misuse. There are various techniques that we discuss in this paper.

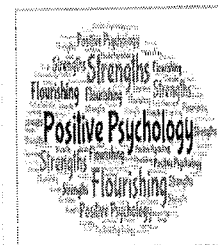
We proposed a novel algorithm for intrusion detection using mining techniques based on the medoids and means clustering algorithm. We also compared the proposed algorithm with existing algorithms with high detection and low false alarm rates to detect known and unknown attacks.

Issue



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Keywords



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6. Dr. Keshav Kumar-Chemistry, Synthesis, structure and hydrolysis studies of pseudostannatranes: Kinetic studies of a hexanuclear tin(IV) hydroxo-cluster formed *via* reverse Kocheshkov reaction and partial hydrolysis of pseudostannatranes
<https://doi.org/10.1016/j.poly.2022.115812>

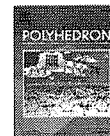
Polyhedron 219 (2022) 115812



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Synthesis, structure and hydrolysis studies of pseudostannatranes: Kinetic studies of a hexanuclear tin(IV) hydroxo-cluster formed *via* reverse Kocheshkov reaction and partial hydrolysis of pseudostannatranes

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ARTICLE INFO

Keywords:
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Mannich base
Organotin
Redistribution
Tricyclic cage

ABSTRACT

The structural and synthetic aspects of novel mononuclear pseudostannatranes and a hexanuclear tin(IV) hydroxo-cluster have been reported. The reaction of the bis-phenolate aminoethanol tripodal ligand N(CH₂CH₂OH)(CH₂(2,4-di-*t*-Bu-C₆H₃O))₂ (H₃L) with BuSnCl₃, PhSnCl₃ and SnCl₄ yielded the mononuclear pseudostannatranes [N(CH₂CH₂O)(CH₂(2,4-di-*t*-Bu-C₆H₃O))₂Sn(n-Bu)I₂O] (1), [N(CH₂CH₂O)(CH₂(2,4-di-*t*-Bu-C₆H₃O))₂Sn(Ph)I(OH)] (2) and [N(CH₂CH₂CH)(CH₂(2,4-di-*t*-Bu-C₆H₃O))₂Sn(Cl)₂] (3), respectively. The reaction of the ligand with PhSnCl₃ using triethylamine as a base produced the reverse Kocheshkov product [N(CH₂CH₂OH)(CH₂(2,4-di-*t*-Bu-C₆H₃O))₂Sn(Cl)₂].1/3NEt₃ (3.1/3NEt₃), which on partial hydrolysis yielded the hexanuclear tin(IV) hydroxo-cluster [N(CH₂CH₂O)(CH₂(2,4-di-*t*-Bu-C₆H₃O))₂SnCl₂](OH)₃SnPh(OH)₂SnPh(OH)₃] [Sn(N(CH₂CH₂O)(CH₂(2,4-di-*t*-Bu-C₆H₃O))₂)₂] (4). The synthesized compounds were characterized by elemental analysis, infrared spectroscopy, multi-nuclear NMR spectroscopy, electrospray ionization mass spectrometry and single-crystal X-ray diffraction. In addition, vital facts regarding the kinetics of the partial hydrolysis of the reverse Kocheshkov product to form the hydroxo cluster were explained by ¹¹⁹Sn NMR spectroscopy.

1. Introduction

Metallatranes, the tricyclic metal derivatives of trialkanolamines, have been comprehensively studied over the years and their chemistry has grown remarkably across the periodic table [1–5]. Their tin counterparts, i.e., stannatranes [6] (possessing the [3.3.3.0^{1,6}]undecane cage) and pseudostannatranes [6–8] (possessing [4.3.3.0^{1,6}]dodecane, [4.4.3.0^{1,7}]tridecane and [4.4.4.0^{1,7}]tetradecane cages, etc), exhibit specific attributes, such as the intramolecular N–Sn transannular bond and chirality in terms of a right- or left-handed (Δ and Λ) propeller type geometry, just like other atranes [9–11]. The former class of atranes has been studied specifically for controlled (partial) hydrolysis, leading to the formation of interesting oligomeric tin(IV) oxo-clusters [12,13]. Therefore, the execution of similar studies on pseudostannatranes is highly desirable to compare their hydrolysis aspects with those of stannatranes. The hydrolysis of stannatranes lacking a Sn–C bond occurs very fast, which makes the isolation of the oligomeric intermediates difficult. As a consequence, the clusters formed from these stannatranes

are scarce. The reported clusters of stannatranes are generally constructed through oxo or hydroxo bridges. For instance, tri- and pentanuclear clusters of [N(CH₂CM₂O)₂(CH₂)₂OSnOR]_m (m = 1, 2; n = 2, 3; R = *n*-Bu, 2,6-Me₂C₆H₃), tri- and hexanuclear clusters of [N(CH₂CM₂O)₂(CM₂:CH₂O)SnO-*n*-Bu] and the tetranuclear cluster of [N(CH₂CH₂O)(CH₂(2,4-di-Me-C₆H₃O))₂SnPh], having bridged frameworks, have been reported recently [12–14].

Curiosity in the field of oxo/hydroxo-clusters of tin emerges from their substantial applications as they behave as excellent delayed action catalysts for the synthesis of polyurethanes and are utilized as starting materials for the manufacture of tin dioxide films in the field of sol-gel chemistry [15–19]. These materials are further utilized as transparent conductors in screens, solar cells and gas detection devices [16–18,20–22]. The recent discovery of the unusual light-emitting and nanometallation properties of Sn/S clusters has enhanced the interest in the chemistry of tin chalcogen compounds [23–25].

In our recent study, we reported a reverse Kocheshkov reaction for phenyl pseudostannatranes, which has opened a new dimension for its

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7. Dr. Diksha sachdeva, Chemistry
 Coordination compound containing σ -hole interactions: synthesis and crystal structure of
 $\text{NH}_4[\text{Cr}(\text{CO}(\text{NH}_2)_2)_6][\text{Hg}(\text{SCN})_4] \cdot 2 \cdot 2\text{H}_2\text{O}$, ISSN- 0022-2860
<https://doi.org/10.1016/j.molstruc.2021.131684>

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Journal of Molecular Structure
 Volume 1010, May 2021, 131684

Binding of alkanesulfonates, $\text{CH}_3(\text{CH}_2)_n\text{O}_2\text{SO}^-$ (where $n = 2-8$) with hexaureachromium(III) in aqueous medium: synthesis, characterization and binding properties of $[\text{Cr}(\text{CO}(\text{NH}_2)_2)_6](\text{CH}_3(\text{CH}_2)_n\text{O}_2\text{SO})_2 \cdot x\text{H}_2\text{O}$

Dr. D. D. Sachdeva, Dr. P. K. Mishra, Dr. P. K. Mishra, Dr. P. K. Mishra

1 Introduction
 2 Experimental
 3 Results and discussion
 4 Conclusion
 Declaration of Competing Interest
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 Appendix A Supplementary data
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Highlights

- New hexaureachromium(III) complexes with a homologous series of alkanesulfonates i.e., $\text{CH}_3(\text{CH}_2)_n\text{O}_2\text{SO}^-$ (where $n = 2-8$) were synthesized.
- All the products of composition, $[\text{Cr}(\text{CO}(\text{NH}_2)_2)_6](\text{CH}_3(\text{CH}_2)_n\text{O}_2\text{SO})_2 \cdot x\text{H}_2\text{O}$ were characterized by IR and UV-visible.
- Crystals in case of $[\text{Cr}(\text{CO}(\text{NH}_2)_2)_6](\text{CH}_3(\text{CH}_2)_2\text{O}_2\text{SO})_2 \cdot x\text{H}_2\text{O}$ were obtained.
- Crystal structure of both the complexes reveals the rigidity which was stabilized by intra- and intermolecular hydrogen bonds.
- The binding ability of cation towards anion is in order: $\text{TRGS} > \text{HEPTS} > \text{PFNTS} > \text{HEXS} > \text{EUTS} > \text{OCTS} > \text{NONE}$.

Abstract

New hexaureachromium(III) complexes with a homologous series of alkanesulfonates i.e., $\text{CH}_3(\text{CH}_2)_n\text{O}_2\text{SO}^-$ (where $n = 2-8$) have been synthesized in aqueous medium and characterized by spectroscopic techniques (IR and UV-Visible). The comparative thermal stability of these complexes has been studied by thermal gravimetric analysis (TGA). The binding property of the cation towards anions has been studied by means of FTIR spectroscopic technique.

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8. Dr. Diksha sachdeva, Chemistry, Binding of alkanesulfonates, $\text{CH}_3(\text{CH}_2)_n\text{O}_2\text{SO}^-$ (where $n = 2-8$) with hexaureachromium(III) in aqueous medium:synthesis, characterization and binding properties of $[\text{Cr}(\text{CO}(\text{NH}_2)_2)_6](\text{CH}_3(\text{CH}_2)_n\text{O}_2\text{SO})_3 \cdot x\text{H}_2\text{O}$
<https://doi.org/10.1016/j.molstruc.2021.132290>

The screenshot shows a web browser displaying the ScienceDirect article page. The browser tabs include 'Inbox (1,647) - dineshbhat', 'New Tab', 'SUGGEST POSSIBLE OUT...', 'NCPB Home', and 'Binding of alkanesulfonates'. The address bar shows the URL: <https://www.sciencedirect.com/science/article/abs/pii/S0223560219241068?via=ihIJDWeb>. The ScienceDirect logo is on the left, and 'Journals & Books' is on the right. Below the header, there are buttons for 'Access through your institution' and 'Purchase PDF'. The article title is 'Binding of alkanesulfonates, $\text{CH}_3(\text{CH}_2)_n\text{O}_2\text{SO}^-$ (where $n=2-8$) with hexaureachromium(III) in aqueous medium:synthesis, characterization and binding properties of $[\text{Cr}(\text{CO}(\text{NH}_2)_2)_6](\text{CH}_3(\text{CH}_2)_n\text{O}_2\text{SO})_3 \cdot x\text{H}_2\text{O}$ '. The authors listed are Ritu Baia, Diksha Sachdeva, Vinit Prakash, Balkaran Singh Stan, Sapna Devi, and Rajesh Kumar Marbas. The journal is 'Journal of Molecular Structure', Volume 1254, 5 April 2022, 132290. On the left, there is a navigation menu with 'Outline', 'Highlights', 'Abstract', 'Graphical abstract', 'Keywords', '1. Introduction', '2. Experimental', '3. Results and discussion', '4. Conclusion', 'CRediT authorship contribution statement', 'Declaration of Competing Interest', 'Additional references', 'Get citation', and 'Research Data'. On the right, there are 'Recommended articles' including 'Mechanistic elucidation and prediction of the anticancer activity...', 'Synthesis of two diastereomeric impurities of a fluorinated...', and 'Wang-OSO₃H catalyzed green synthesis of 2-arylamino-3-...'. There are also 'Purchase PDF' buttons and a 'FEEDBACK' button.

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9. Diksha sachdeva, Chemistry, Cationic chromium urea complex as potential anion binder for nitro substituted-phenolates ISSN- 0022-2860
<https://doi.org/10.1016/j.molstruc.2022.133185>

The screenshot shows the article page on ScienceDirect. The title is "Cationic chromium urea complex as potential anion binder for nitro substituted-phenolates". The author is Diksha Sachdeva. The article is published in the Journal of Molecular Structure. The abstract discusses the synthesis and characterization of cationic chromium urea complexes with nitro-substituted phenolates. Key findings include that all complexes were characterized by IR, UV-visible, and TGA, and that the complexes showed good antibacterial activity against S. epidermidis and S. pneumoniae.

Highlights

- Three bisurea and triurea complexes with nitro substituted phenolates (4-NO₂-1,4-DNP and 4,6-FDNP)
- All our complexes were characterized by IR, UV-visible and TGA
- Crystals in case of [Cr(COONH₂)₃(TNP)₂DMSO] were obtained
- IR crystal structure elucidation reveals that complex is stabilized by inter and intramolecular H-bonds
- The $\log P$ 2.44 indicates that complex enters "very good binding affinity" for nitrophenolates in aqueous medium
- All complexes showed antibacterial activity against *S. epidermidis* and *S. pneumoniae* but complex with 4,6-FDNP shows no activity

Abstract

Three new complexes [Cr(COONH₂)₃(TNP)₂DMSO], [Cr(TNP)₃DMSO] and [Cr(COONH₂)₃(TNP)₂DMSO] (TNP = 4-nitrophenolate, 4,6-FDNP = 4,6-dinitrophenolate, TNP-1,4 = 1,4-dinitrophenolate) have been synthesized by reacting [Cr(COONH₂)₃Cl₂·4H₂O] with sodium salts of nitro substituted-phenolates in 1:3 molar ratio in aqueous medium. The new complexes have been characterized by analytical and spectroscopic studies (FTIR, UV-Vis). The thermal stability of the complexes has also been determined using thermogravimetric analysis (TGA). The

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10.Dr. Reena, Chemistry
Review of Medicinal Properties and Use of the Neem Plant (*Azadirachta Indica*)
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Review of Medicinal Properties and Use of the Neem Plant (*Azadirachta Indica*).



Dr. Amrita Singh, Dr. Reena

Abstract

Azadirachta indica A.Juss also known as neem plant is one of the most widely known medicinal plants in India and other Asian countries that has been used since ancient times for many medicinal purposes. Neem is a very important medicinal plant used to treat various ailments in the Unani System of Medicine and the traditional medicine system. Some of these chemical compounds are Nimbin, Nimbin, Nimboide, Azadiractin, Cyclic bisulphide and others such as antipyretic, anti-inflammatory, antibacterial, antispasmodic, ulcer, antiarthritic, spasmicidal, antifungal, antimalarial, hypoglycaemic, immunomodulator and immunomodulatory. It is also used as an analgesic, an alternative to treating colitis and urinary tract infections. In addition, it is used in the treatment of coughs, asthma, tumors, diabetes, blood diseases, biliary diseases and many other medicinal properties. The current work provides comprehensive information on the value of traditional and chemical component of *Azadirachta indica* to assess therapeutic potential, highlighting the relationship between the value of traditional use and chemical components and future scientific research opportunities in *Azadirachta indica*.

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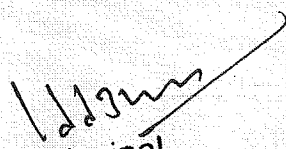
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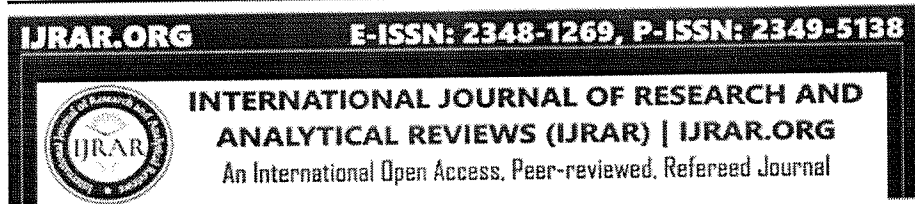



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11. Dr. Reena- Chemistry, A review of two Psychological Tools for screening Mental health in Indian Setting : A comparative Study, International Journal of Research and Analytical Review, 2349-5138
http://ijrar.org/viewfull.php?&p_id=IJRAR22C2285

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www.ijrar.org (E-ISSN 2348-1269, P-ISSN 2349-5138)



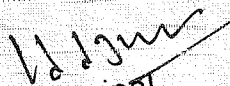
A REVIEW OF TWO PSYCHOLOGICAL TOOLS FOR SCREENING MENTAL HEALTH IN INDIAN SETTING: A COMPARATIVE STUDY

Dr. Anu Verma, Assistant Professor, Chitkara University, Punjab
Dr Reena, Assoc Prof, DPG Degree College, Gurugram
Ms Purnima Bamel, Research Associate, Citizen Hospital
Mr. Aman kumar, Research Associate, Citizen Hospital
Mr. Khushpinder, Counselling Psychologist, Indraprastha Inst of Information Technology
Dr Arati, Consultant Psychologist, Optimus Center for Well being
Dr Amita Puri, Consultant, Citizen Hospital, Gurgaon

ABSTRACT:

Psychometric assessment and evaluation is an integral part in trying to understand patients in a picture of his personality and mind. The discretion is upon the patients as to how much he wants to disclose and to whom. Their number of psychological test available in India and the world which given insights about the patient's inner world in which he may be unaware of however cultural norms, limitations and boundaries do exists and plays an important role in determining response biases which in turn affect the administration and interpretations of test score. once a response bias enters the assessment arena. The scoring, interpretation and predictability of scores get impacted, lowering the psychometric properties of the test. The present work is an attempt to determine the plausibility and feasibility of two test i.e., PGI HQ N-2 and DASS-21 on various populations in terms of ROL available.

Keywords: PGI HQ N-2, DASS -21, personality, test, assessment, neuroticism


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DOI: 10.14704/NQ.2022.20.15.NQ88421

Anup dated review of phytochemistry and pharmacology of *Cynodon dactylon*(L.)

Dr. Amta Singh, Dr. Ginni, Nisha Yadav

Abstract

Among varied species of plants growing in Assam country. *Durva*, *Cynodon dactylon* has a very important role in ethno-medicative practices and ancient medical. *Bermuda grass* or *Cynodon* may be a perennial grass distributed everywhere the planet, and significantly it's native to the nice and cozy temperate and tropical regions. The plant has been made in metabolites notably proteins, carbohydrates, minerals, flavonoids, carotenoids, alkaloids, glycosides and triterpenoids. It's a perennial herb found in varied regions of Asian country. It issued within the treatment of assorted diseases within the variety of powder, paste and juice. It contains several metabolites, like proteins, carbohydrates, minerals, flavonoid, carotenoids, alkaloids and glycosides. Its invades all types of crops and act as weed. It grows altogether system, largely


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Food Colors: Types, Effects on the Human Health and Their Applications

Ginni Rani and Amita Singh

DPG Degree College, Sector-34, Gurugram- 122001, India

ABSTRACT

For improving appearance, high color intensity and more color stability synthetic food colors have been used commonly. By food manufacturers, synthetic food colors are widely used over the natural food colors due to low cost and high stability. Many non-permitted synthetic colors may be present in food items available in the markets. Mutations, cancers, reduced hemoglobin concentrations, allergic reactions, neurocognitive effects and toxicological effects may lead by highly used in synthetic food color. Quinoline yellow, lake foods colors, carmoisine red and tartrazine are synthetic colorants which are toxic in nature. Betalains, chlorophyll, carotenoids and anthocyanins are plant natural colors. By the food industry, there is replacement of synthetic food colors by natural plant colorants on consumer demand which enhance the awareness of synthetic food colorants toxicity.

Keywords: Colorants, toxicity, carcinogenic effects

1. INTRODUCTION

Color plays a vital role for increasing the satisfaction of consumers about food items. For ripeness, freshness, attractive look and safety food colors are used [1]. In markets, there are various shades of color are available. It is scientifically proved that some synthetic food colors are harmful, toxic and carcinogenic in nature [2]. For customers demand many new technologies are developing now [3]. Synthetic food colorants are safe if they are used in a limited range [4]. Some colorants are banned due to neurocognitive effects and toxic effects [5]. All-around dyes are Azo dyes with azo group (-N=N-) used in food items extremely [6]. Azo dyes excreted through urine only after metabolized in liver and kidney [7]. Azo dyes are exposure to oxygen and light and more stable at high pH [8]. For high color stability, better appearance, high color intensity, several synthetic food colorants have been used as additives in many food items to preserve, flavour, attractive appearance and freshness [9]. This review aims to overview the classification, application and effects of food colorants on human health by considering the above points.

2. TYPES OF FOOD COLORS

Food colors are classified into two types, natural food colors and synthetic food colors.

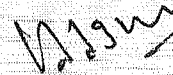
2.1. Natural Food Colors

Natural food colors are obtained from plants. Basically, there are two type of food colorants are given by nature one is the water soluble such as betalains, anthocyanins and another is the oil soluble such as chlorophylls and carotenoids [10]. Food processing industries have great demand for the natural food colorants which are safe as well as healthier for the consumers [11].

2.1.1. Betalains: These are water-soluble natural food colorants obtained from those plants which contain nitrogen. From flowers, stem, leaves and bracts of plants, these food colorants are also obtained not only in plants edible parts. In both UV and visible regions, betalains are absorbed due to betalamic acid which shows phenolic nature [12]. Betalains are more stable at low pH (i.e. from 5 to 6 pH range) [13]. Main two groups of betalains are yellow betaxanthins and violet betacyanins.

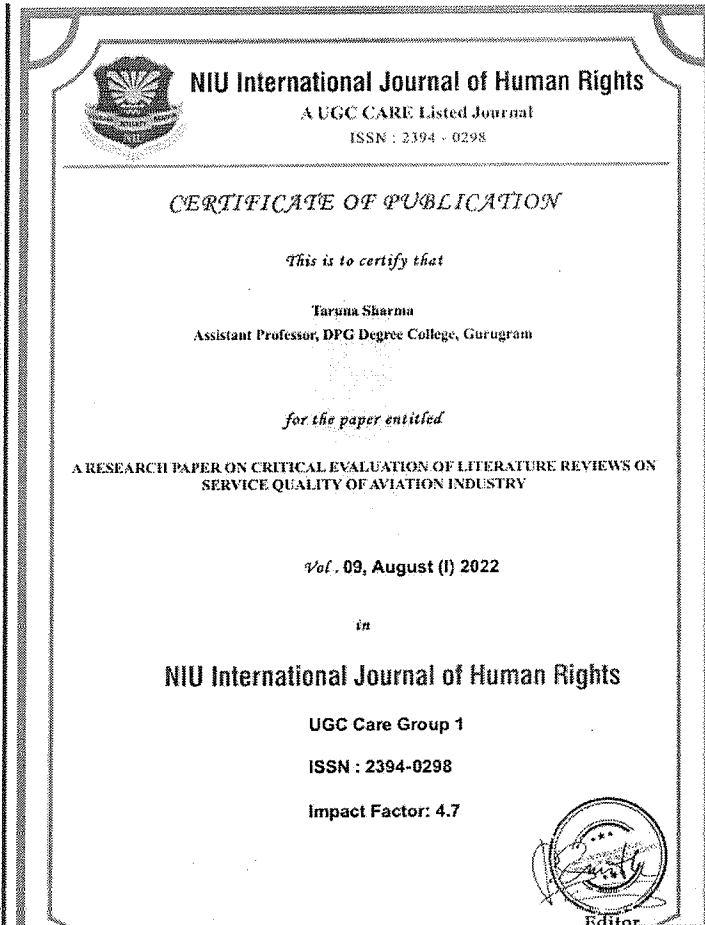
2.1.2. Chlorophylls: These are oil soluble. It is a green pigment which is responsible for the green color of plants [14]. Chlorophylls are of two types colors, chlorophyll a appears blue-green color which contains methyl group (-CH₃ group) and chlorophyll b appears yellow-green color which contain aldehyde group (-CHO group) [15]. In alkaline, chlorophylls are stable in pH from 7 to 9 range. In contact with heat, light, enzymes, acids and oxygen, chlorophylls are highly sensitive and reactive in low pH range results changing of green color of chlorophyll to olive brown [16].


2.1.3. Carotenoids: These are lipid soluble natural food colorants. It is a molecule which contains 40 atoms of carbon and extracted from tomato peels. Carotenes (contain H and C) and xanthophylls (contain C, H and O) are the two classes of carotenoids [17]. In many plants and animals, pigments of yellow, orange and red colors are obtained due to the presence of carotenoids. At pH range from 4 to 6, carotenoids are more stable and decomposition of carotenoids take place at pH less than 3 [18]. It acts as a pro-vitamin A and antioxidant which help in body metabolism.



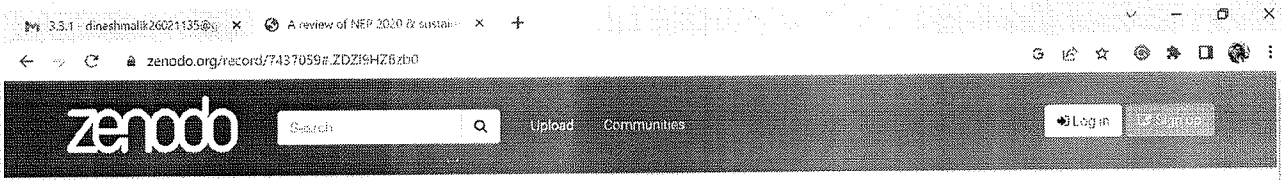
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15. Sunita



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A review of NEP 2020 & sustainable development

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Abstract

Knowledge and skills gained through education enhance job opportunities, lower poverty levels, and boost health and well-being, making education a basic human right. Education policy is the means through which a society may attain the standard of education that is the bedrock of every progressive movement. Equally crucial to progress in society is the idea of sustainable development. Sustainable development is an approach to minimizing negative environmental impacts caused by human activity. The concept of sustainable development is based on the assumption that present societies must provide for its members' needs without jeopardizing the capacity of future generations to do the same. The Sustainable Development Goals 2030 were formed with the intention of achieving global sustainable development by the year 2030. Goal 4 of the Sustainable Development Agenda 2030 aims to 'provide inclusive and equitable educational opportunities for everyone'. Goal No. 4 in particular places a strong emphasis on educational quality, with the aim of providing all people with access to high-standards education and encouraging them to continue their education throughout their lives. The current government in India has adopted the National Education Policy (NEP-2020) after thirty years. This policy aims to improve the country's educational system and foster long-term growth. For a better India, follow the plan laid forth in NEP 2020, the National Education Policy of 2020. The Indian government gave its approval to this plan on July 29, 2020. Goal 4 of the United Nations Sustainable Development Goals (UNSDG 2030) aligns with the NEP 2020 because it recognizes that a solid foundation in education is necessary for long-term progress toward those goals. With the help of NEP 2020, every person in the nation will be better equipped to contribute to the country's success. India's progress toward the Sustainable Development Goals (SDGs) would be facilitated by a comprehensive modernization of the country's educational system from secondary education to tertiary education, including curricula reform and infrastructure reform.

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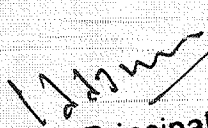
Gongcheng Kexue Yu Jishu/Advanced Engineering Science

Journal ID : AES-13-12-2022-554

Title : IMPACT OF SOCIAL MEDIA ADVERTISEMENT ON YOUTHS BUYING BEHAVIOUR
Chithira John, Shivani Sharma, Sarika Wallia

Abstract :

Current study aims to determine the role of social media advertisement in influencing the buying behaviour of youth. To meet the objectives of the current study, data was collected randomly from chosen college students (n=150) using survey method at West Delhi. A pre structured questionnaire has been used to collect data from the students in the age group 17-22. Findings reveal that liking towards social media advertisement has a greater impact on buying behaviour of youth. Results of the current study are beneficial for the marketers which intend to promote their products and services through social media channels.


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17. Dr. Deepti

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Dimensions Of Interface Management Critical For Delivering Quality At Higher Education Institutions: An Empirical Study

pdf Dr. Prabha Arya , Dr. Deepti Tanwar , Dr. Sapna Dadwal , Dr. Anuradha Sahu

Abstract

Interface Management implies fine-tuning between various entities in the organizational hierarchy for the successful execution of processes and delivering a quality output. The objectives of this study are to analyze the dimensions of interface management and to determine significant differences among dimensions of Interface Management that play a critical role in delivering quality in higher education institutions in India. A multistage, as well as the stratified random

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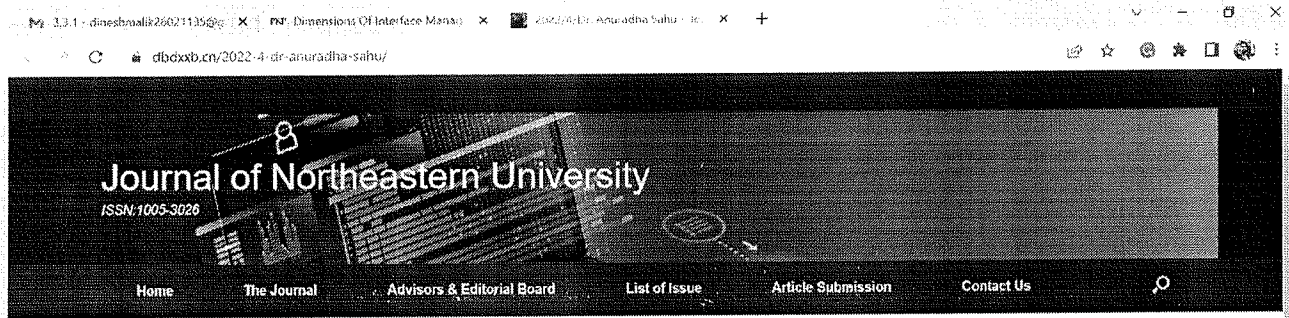
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IMPACT OF RUSSIA UKRAINE WAR ON GLOBAL FOOD SECURITY

Dr. Anuradha Sahu¹, Dr. Sapna Dadwal², Dr. Prabha Arya³, Dr. Deepti Tanwar⁴

[1] Associate Professor, Department of Management Studies, OPG Institute of Technology and Management, Near Hero Honda, Behind Marble Market, Sector 72A, Sector 34, Gurugram, Haryana.


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Review Article

Novel Extraction Techniques for Phytochemicals: A Comprehensive Review

SANTWANA PALAI¹, NEHA SHEKHAWAT^{2*}

¹Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science and Animal Husbandry, OUAT, Bhubaneswar, -751003

²Department of Biochemistry, DPG Degree College (Affiliated to Maharishi Dayanand University, Rohtak), Gurgaon, Haryana-121001

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Received: 13.05.22, Revised: 09.06.22, Accepted: 21.07.22

ABSTRACT

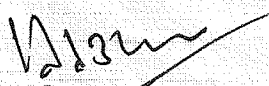
Extraction is the primary essential step in preparation of plant formulations. Modern techniques of extraction are powerful in advancing the improvement of conventional natural remedies. The development of cutting-edge sample-preparation strategies with significant advantages over traditional methods for extracting and evaluating medicinal plants is likely to play an important role alongside the standard effort to ensure the availability of excellent natural merchandise to customers worldwide. Sample coaching is of maximum significance to the improvement of analytical techniques for the evaluation of elements gift within side the botanicals and natural preparations. In this review article, precept in the back of operation of diverse extraction techniques, elements influencing technique performance, studies progress, energy and weak spot of various extraction processes are discussed. Emphasis is placed on the techniques which might be solvent and energy saving, and appropriate for temperature stable bioactive compounds. The purpose of this review is to assess and do comparison of the most frequently used procedures on basis of their principles and strengths in order to describe the appropriateness and financial viability of the extraction procedures.

Keywords: Medicinal plants, Accelerated solvent extraction, Soxhlet extraction, Ultrasound-assisted extraction, Supercritical-fluid extraction, Microwave assisted extraction

INTRODUCTION

Extraction and processing of medicinal plants is done for direct consumption as herbal medicine or research purposes. Medicinal plants are in

material, confirmation by an expert person, sufficient aeration as well as crushing is the preliminary steps. Thereafter, extraction, isolation and characterisation of the secondary metabolites


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20. Dr. Nalinee-Zoology
Leishmanial CpG DNA nanovesicles: A propitious prophylactic approach against visceral leishmaniasis

<https://www.sciencedirect.com/science/article/pii/S1567576920336481>



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1. Introduction

2. Materials & methods

3. Results

4. Discussion

5. Conclusion

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Author's contribution

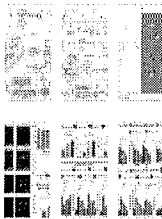
Declaration of competing interest

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International Immunopharmacology

Volume 90, January 2021, 107181

Leishmanial CpG DNA nanovesicles: A propitious prophylactic approach against visceral leishmaniasis

Rohit Kumar Tiwari¹, Pragya Chhabra¹, Ghanshyam Gupta¹, Vikram Singh², Sanku Shaha¹, Arvind Bhatt¹, R. B.

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Highlights

- Nanocomplexes of Schizophyllan carrying novel CpG ODN from *L. donovani* were constructed.
- The nanocomplexes induced both Th1 and Th2 responses enroute through TLR9 activation visceral.
- Co-administration of vaccine agent with nanocomplexes envisages its immune stimulant efficacy.

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21. Dr. Anita Chauhan, Botany
Phytochemical Analysis for Medicinal plant: *Tagetes erecta*, ISSN- 1303-5150
<https://www.neuroquantology.com/article.php?id=10226>

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DOI: 10.14704/NQ.2022.20.16.NQ88055

Phytochemical Analysis for Medicinal plant : *Tagetes erecta*

Anita Chauhan, Jyoti

Abstract

Tagetes erecta (Commonly known as Marigold) is an Medicinal plant and also a ornamental plant. It contain large amount of secondary metabolite which cure many disease. Flower contain essential oil and leaves are terpenoid. this plant also contain carotenoid pigment which help in food coloring. In this dissertation will focus on identification of secondary metabolite and their medicinal value.

Keywords

Tagetes erecta (Commonly known as Marigold) is an Medicinal plant and also a ornamental plant.

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22. Dr. Amita Singh- Botany,
An updated review of phytochemistry and Pharmacology of *Cynodon dactylon*
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NOVEMBER 2022 | VOLUME 20 | ISSUE 15 | PAGE 4198-4201 | DOI: 10.14704/NQ.2022.20.15.NQ88421
Anup dated review of phytochemistry and pharmacology of *Cynodon dactylon*(L.)



Anup dated review of phytochemistry and pharmacology of *Cynodon dactylon*(L.)

Dr. Amita Singh¹, Dr. Ginni² Nisha Yadav³
DPG Degree College, Gurugram.

Abstract:

Among varied species of plants growing in Asian country, Durva, *Cynodon dactylon* has a very important role in eth-nos medicative practices and ancient medical. Bermuda grass or Cynodon may be a perennial grass distributed everywhere the planet, and significantly it's native to the nice and cozy temperate and tropical regions. The plant has been made in metabolites notably proteins, carbohydrates, minerals, flavonoids, carotenoids, alkaloids, glycosides and triterpenoids. It's a perennial herb found in varied regions of Asian country. It issued within the treatment of assorted diseases within the variety of powder, paste and juice. It contains several metabolites, like proteins, carbohydrates, minerals, flavonoid, carotenoids, alkaloids and glycosides. Its invades all types of crops and act as weed. It grows altogether system, largely found in road and rail road tracks in several regions. It's originated in continent and happens worldwide in each tropical and subtropical areas.

4198

DOI Number: 10.14704/NQ.2022.20.15.NQ88421

NeuroQuantology2022;20(15): 4198-4201

Introduction:

CYNADON DACTYLON (Poaceae) may be a perennial herb found in varied regions of Asian country. It's totally different names in several Dhro [Gujarati], Shataparva [Sanskrit] etc. It contains several metabolites proteins, carbohydrates, minerals flavonoids, carotenoids, alkaloids and glycosides. This grass is extravagantly found on road sides and may take possession of any uncultivated space. It's a weed and have several medicative properties. It's pungent, bitter in nature with characteristic fragrance and has cold efficiency, the plant possesses sharp and hot style with sensible odour. Its aerial components and rhizomes have cardioprotective action, medicine, antimicrobial, inhibitor, wound healing, anti-diabetic, anti-diuretic effects. It conjointly possesses cynodin, acid and triticin. Juice of

Kingdom — Plantae

Division — Magnoliophyte

Class — Liliopsida

Order — Cyperales

Family — Poaceae


Genus — Cynadon

Species - dactylon

This plant conjointly remains inexperienced in gentle winters. It conjointly plays a very important role in conservation, prevents eroding. It may be wont to conserve waterways.

Botanical Description

Roots: Roots square measure fibrous, cylindrical that is four metric linear unit thick. From the most roots arise the minute hair like roots. Leaf is a pair of to six cm long and one.25 to three metric linear unit wide slim, linear. Plate of the leaf have sq. and oval stratum. The mesophyll isn't


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23. Dr. Reena, Chemistry
Methodology for modification of clay material in Effluent Treatment.
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DOI: 10.14704/NQ.2022.20.16.NQ86038

Methodology for Modification of Clay Material in Effluent Treatment

Reena

Abstract

Clean & safe water is the fundamental right of each & every individual. Though water covers 73% of the planet's surface, just 3% of it is freshwater. Moreover rise in population, expanding industrialization, urbanization and extensive agriculture practices has not only generated lot of wastewater but has also polluted the water. This contaminated water has been liable for the death of millions of individuals. Effective and cheap methods are required to remove toxic metals and harmful chemicals from the wastewater. This review article features the Modern clay modification methods and their promise as an efficient adsorbing agent to remove effluents from aqueous solution. Clay has been area of great interest for researchers as clays are natural materials, cheap, nontoxic and have good abundance in the environment. Various clay modification methods have been utilised to upgrade the surface region, pore volume, and active sites on the outer layer of clay to work on their capacity to adsorb effluent from their aqueous solution. Thermal treatment process helps in activation, structural transformation and disruption of clay. The techniques used for the same are as treatment with surfactants, heat, plasma and polymer. According to

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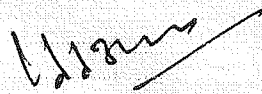
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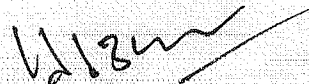
Journal ID: AES-19-12-2022-571

Title: A STUDY OF CREDIT RISK MANAGEMENT MINIMIZATION PROCESS: A CASE OF COMMERCIAL BANKS IN INDIA

Ms. Taruna Sharma, Ms. Sarika Walla

Abstract:

When a borrower's financial situation deteriorates to the point where an asset's value is diminished, the financial institution taking on the loan runs the risk of incurring losses. This study seeks to illuminate the fundamentals of a "credit risk management" (CRM) system for commercial banks (CBs) in an under developed country, with the ultimate goal of reducing the difficulties caused by delinquent borrowers' loan obligations. The primary data used for this came from in-depth interviews with CBs and bank's management officials responsible for "credit management", while the secondary data came from a slew of relevant documents. Credit risk can be controlled and reduced, as demonstrated by the investigation, so long as strong strategic approaches are adopted and followed. In light of this, it follows that a bank's strategy is crucial to the success of a CRM system.


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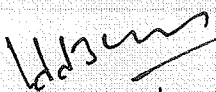
Journal ID : AES-19-12-2022-569

Title : A STUDY OF INITIATIVES TAKEN BY INDIAN GOVERNMENT FOR E-LEARNING

Annu Yadav, Alpa Jain

Abstract :

India is the largest democracy with an amazing diversity in its population which is more than 3 billion. India is having largest education system from ancient time as we can proudly say that taxila, naland were the part of indian education system. The population of india is growing and with this growing economy we have to set some standards for education because an educated society can accelerate the growth of any economy. Government of india has taken much initiative regarding e- learning because we have to change according to the changing technological environment. E-learning is the need of today's world as no one should be away from education just because of geographical area or distance. Right to education given education a fundamental right of any Indian child of age group 6to 14.In this paper we have discussed different e learning initiatives taken by Indian government.


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26. Ms. Sarika, Commerce
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Journal ID : AES-19-12-2022-570

Title : A STUDY OF FINANCIAL EDUCATION AMONG SCHOOL CHILDREN AN EMPIRICAL EVIDENCE

Ms. Sarika Walla, Ms. Taruna Sharma

Abstract :

The integration of markets at the international level brings with it the institutional transformation to adapt to new challenges and challenges resulting from the interaction between different economic agents worldwide. Education is an institution that is significantly affected by this global outpost. Economic liberalization and integration accelerated dramatically in the 1990s and generated significant impacts in political, economic, social, and cultural spheres. Thus, education acquires a strategic role in different countries by recognizing the importance of promoting academic instruction, which generates rational attitudes to promote economic thought in accordance with technological advances. It is not only about the homoiogation and educational adaptation between educational systems of the countries, but also the vision of the world that the new generations will have in the face of challenges in all areas of human action. It is a change in the face of new global needs that began to be glimpsed from the beginning of the sixties with the Keynesian economic current, which exposed that the growth of a country was originated to a great extent by the development of human capital (Becker, 1963) , and later by the vision of technological development (motivated by research) according to the growth models of Solow (1957) . Regarding basic education, its priority for the economic and social development of a country is recognized in the understanding that education presents a rate of return that affects reducing inequalities from one generation to another (Becker, 2002) . In addition, from Durkheim 's (1991) functionalist perspective, the function of education is seen as the transmission of values from one generation to another, which does not occur only on the intellectual level, but also in the daily life from one ancestor to another successor.

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27. Dr. Yashpal Yadav, Management
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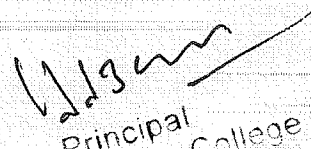
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Title: ADVANCED ENCRYPTION STANDARD USE ON FINGER PATTERN, BASED KEY GENERATION EXCHANGE AND SECURITY FRAMEWORK FOR IOT AND ID BASED CRYPTOGRAPHY

Dr. Yashpal Yadav, Ms. Shivani Sharma, Er. Siddharth Ms. Deepika, Ms. Aetika

Abstract :

Every person has a unique finger vein pattern existing within each finger. Unlike facial features or finger print, finger vein authentication systems aren't vulnerable to forgery. Finger vein authentication systems are more secure and reliable, and less expensive, than biometric security systems using finger print. This paper presents a novel security framework based on finger vein pattern. Finger vein pattern is used in id based cryptography to generate the keys for data encryption. These keys are combined with generator of elliptic curve cryptography (ecc) to exchange the keys using diffie-hellman key exchange algorithm. Once the keys are exchanged, the data is encrypted using advance encryption standard (aes). This framework is tested in internet of things (iot) environment for enhancing the security. The iot based security systems implemented in the banks and other organizations can be enhanced considerably using the proposed security model.


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28. Ms. Shiwani sharma, Management
Autoencoder(AE) and generative adversarial Network based deep feature learning for
image generation.

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Gongcheng Kexue Yu Jishu/Advanced Engineering Science

Journal ID: AES-13-12-2022-555

Title: AUTOENCODER (AE) AND GENERATIVE ADVERSARIAL NETWORK (GAN) BASED DEEP FEATURE LEARNING FOR IMAGE GENERATION

Amit Kumar, Shiwani Sharma, Sudhir Kumar Rath

Abstract:

One of the key factors that are responsible for the success of deep learning is the methods or group of methods. In the recent past, Autoencoder (AE) and Generative Adversarial Network (GANs) has grown vast popularity in deep learning community. Autoencoder (AE) and GAN is employed to generate images in various domains like as computer vision, semantic segmentation and medical field. In this paper we compare and implement the three autoencoders model simple autoencoder, vanilla autoencoder and convolutional autoencoder with different architecture. The first autoencoder, simple autoencoder with only bottleneck layer, second autoencoder is with one hidden layer and bottleneck layer and third autoencoder is the convolutional autoencoder. We use convolutional layers in convolutional autoencoder and in generative adversarial network, that is better to capture the spatial information in image rather than using one or more hidden layer as in simple autoencoder and vanilla autoencoder. We have generated the images using these autoencoders and compare the training loss, validation loss and accuracy. Image is also generated via Fully Connected Generative Adversarial Network (FCGAN) for a particular batch size.

Shiwani Sharma

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Meta-analysis of Callistemon: Callistemon citrinus

Ms. Preksha Ramesh Verma

M.Sc. Botany, 4th Semester

Dr. Amita Singh

Assistant Professor of Botany, DPG Degree College, Gurgaon

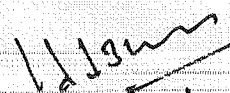
Abstract

Callistemon citrinus is from the Myrtaceae circle of relatives which is a crucial genus consisting of approximately 34 species. They're widely recognized for their ornamental abilities in calculating their brilliant principles in conventional scientific technology from numerous parts of the sector. It miles a popular evergreen shrub found in Bangladesh. *C. viminalis* maintain for curing haemorrhoids in orthodox Chinese remedy tablets or tablets, consistent with the present take a look, the leaves of this plant are analysed minutely without cost radical scavenging and membrane-stabilizing scheme. The evaluation of antioxidant and organic perspectives appeared as an exceptional deed. A variant of important phytochemicals regarding person chemical type counts terpenes, phenolic derivatives, flavonoids, anthocyanins, and miscellaneous compounds is re-equipped with the aid of chemical investigation of the *Callistemon* genus. For this reason, this study displays a systematic evaluation of the *Callistemon* genus phytochemical and organic research, similarly to a summary of the previous studies's results as well as a top-level view of the possible guidelines for *Callistemon* species examination.

Keywords: *Callistemon citrinus*; phytochemicals; phytochemistry.

Introduction

The medium- sized plant with furry and tough however not thick stems with the presence of branches are known as shrubs. Their stem branches are out near the lowest, *Callistemon* is also among them shrub tree. Species of *Callistemon* includes 34 species which is


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Extract an Effective Region of Interest using Automated Thresholding for Finger Vein Biometric

Sapna Sharma¹ and Dr. Shikha Lohchab²

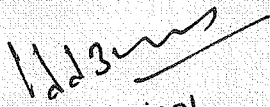
¹Research Scholar, School of Engineering, Computer Science and Engineering, G D Goenka University, Gurgaon, India

²Assistant Professor, School of Engineering, Computer Science and Engineering, G D Goenka University, Gurgaon, India

Abstract - The development in the consumer's electronics demands for high security, accuracy and high speed of authentication. Human behavioral and physiological features in biometric have a large scope at providing solutions for security issues. Finger vein based personal authentication provides a better degree of security that protects information and control access much better. To explore the effective region from the acquired finger vein image, we proposed an identification of region of interest (ROI) based on automated thresholding. It is usually composed of finger region segmentation, image orientation correction, and ROI detection. In this paper we have used image pre-processing, batch processing and thresholding transformation concepts to extract meaningful ROI. The proposed automated thresholding to detect the ROI of the image has been studied, implemented and tested over the SDUMLA-HMT

(Automated Teller Machine) applications and commercialized them in 2005.

Existing basic biometrics like passwords, tokens, access cards and personal identification numbers (PIN) are cheap and easy to implement but can be forgotten or stolen or exposed easily. Most popular biometric fingerprints are not permanent, they suffer from aging, skin disease, dirt, scars and duplicates can be created, palmprint can be easily frayed, signature can be easily copied or dubbed. Face recognition becomes difficult in the case of its occurrence such as wearing makeup glares, head wearing hats or caps. Iris identification proves most accurate and secured but very unfriendly/unacceptable due to the need for direct application of light into the eyes.


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31. Ms. Alpa Jain

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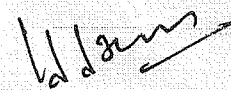
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Journal ID : AES-19-12-2022-569

Title : A STUDY OF INITIATIVES TAKEN BY INDIAN GOVERNMENT FOR E-LEARNING
Annu Yadav, Alpa Jain

Abstract :

India is the largest democracy with an amazing diversity in its population which is more than 5 billion. India is having largest education system from ancient time as we can proudly say that *Taxila, Nalanda* were the part of Indian education system. The population of India is growing and with this growing economy we have to set some standards for education because an educated society can accelerate the growth of any economy. Government of India has taken much initiative regarding e-learning because we have to change according to the changing technological environment. E-learning is the need of today's world as no one should be away from education just because of geographical area or distance. Right to education given education a fundamental right of any Indian child of age group 6 to 14. In this paper we have discussed different e-learning initiatives taken by Indian government.



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32.Dr. Uzma – Science Department
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AUTHORS INSTRUCTIONS Potassium: ameliorate the adverse effect of climate change and drought **NAAS SCORE**

Author: Amita Singh

Research work of the past years on climatic policy in India lead to the conclusion that a gradual warming, reduction of the precipitation and a larger variability in the weather extremes are to be expected in India in the long run impacting vegetation and socio agronomic growth negatively. The rise in temperature is also playing havoc with India's rainfall which is significant for India's agriculture sector on which billions are dependent. The report noted that the summer monsoon precipitation (June to September) over India has declined by more than six percent from 1951 to 2012, with notable decrease over the Indo-Gangetic Plains and the Western Ghats. It stressed that the overall decrease of seasonal summer monsoon rainfall during the last 6-7 decades has led to an increased inclination for droughts over India. Approximately 72% of cultivated land in India is rain fed largely due to inadequate precipitation and erratic rainfall resulting in reduced crop. In the post green revolution period, water stress problem is a major concern affecting the agriculture production. To increase the present yield level understanding various physiological process which are negatively affected due to drought condition is a matter of great concern. Poor monsoon and extended dry condition during critical growth period have a devastating influences on the crop performance. The production of the cereals and pulses could not be increased per unit area because even today 60-70% of the crops are grown under rain fed condition. High yields under such conditions need extra supply of nitrogen. Potassium,

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35. Mr. Keshav Kumar-Chemistry, Mononuclear Pseudostannatranes Possessing Unsymmetrical [4.4.3.0^{1,5}]Tridecane Cage: Experimental And Theoretical Aspects Of Reverse Kocheshkov Reaction In Phenyl Pseudostannatranes
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Mononuclear Pseudostannatranes Possessing Unsymmetrical [4.4.3.0^{1,5}]Tridecane Cage: Experimental and Theoretical Aspects of Reverse Kocheshkov Reaction in Phenyl Pseudostannatranes

Keshav Kumar, Neha Srivastav, Mayank Khara, Neetu Goel, Raghur Singh,* and Varinder Kaur*



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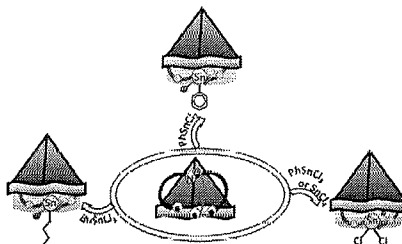
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ABSTRACT: The synthetic protocols, structural aspects, and spectroscopic aspects of mononuclear pseudostannatranes possessing a [4.4.3.0^{1,5}]tridecane cage have been reported. A tripodal ligand N(CH₂CH₂OH){CH₂(2-*t*-Bu-4-Me-C₆H₃OH)}₃ (H₃L) having unsymmetrical arms was reacted with *n*-butyltrichlorostannane, phenyltrichlorostannane, and tin tetrachloride under different solvent systems to obtain pseudostannatranes (1–3). The reaction of *n*-butyltrichlorostannane and the ligand in CH₂OH/Na/THF yielded an aqua complex of pseudostannatranes [LSnBu(H₂O)] (1_a), which was crystallized as its acetone solvate (i.e. 1_a·Me₂CO). However, the same reactants yielded methanol complex [LSnBu(CH₃OH)] (1_b) when the reaction was carried out in the NaOCH₃/C₂H₅OH system. Similarly, the reaction of phenyltrichlorostannane and the ligand under these solvent systems yielded pseudostannatranes, i.e., an aqua complex [LSnPh(H₂O)] (2_a) and a methanol complex [LSnPh(CH₃OH)] (2_b) (where 2_a was crystallized as 2_a·Me₂CO). The reaction of tin tetrachloride and the ligand in the Et₃N/THF system resulted in the formation of pseudostannatranes [LHSnCl₃] (3). A similar product was isolated as its triethylamine solvate (3·NEt₃) due to the disproportion reaction when PhSnCl₃ was reacted with the ligand in the Et₃N/C₂H₅OH system, which demonstrates the first report on the reverse Kocheshkov reaction in pseudostannatranes. The experimental findings on the formation of 3·NEt₃ due to the reverse Kocheshkov reaction have been corroborated with ¹¹⁹Sn NMR spectroscopy and density functional calculations that provide insightful information about the underlying details of the reaction route.



INTRODUCTION

Over recent years, there has been growing interest in the synthesis and structural investigation of tin(IV) tricyclic compounds having N → Sn transannular interactions.^{1–8} Among the fused organotin tricycles, molecules having five-membered rings with a [3.3.3.0^{1,5}]undecane cage are termed “stannatranes,” while molecules containing rings other than five-membered arms are named “pseudostannatranes.”^{9–12} These structures are distinguished by their cage-like structure inclusive of right- or left-handed (Δ and Λ) propeller type

cages with oligomeric structures formed via Sn–O bridges and a symmetrical [4.4.4.0^{1,5}]tetradecane cage as a mononuclear entity.^{3,4,29} To the best of our knowledge, pseudostannatranes possessing a [4.4.3.0^{1,5}]tridecane cage as mononuclear entities have not been reported yet.

The interest in stannatranes-like molecules is driven by the fact that they are a prerequisite for breakthrough applications influencing basic organic synthesis, polymerization reactions, and polyurethane formation; therefore they are essential for the chemical and medicinal industries.^{30–34} The biggest

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36. Mr. Keshav Kumar-Chemistry, Glutamine conjugated organotin(IV) Schiff base compounds: Synthesis, structure, and anticancer properties
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RESEARCH ARTICLE

Applied
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Glutamine conjugated organotin(IV) Schiff base compounds: Synthesis, structure, and anticancer properties

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Council of Scientific and Industrial Research (CSIR), New Delhi, India; Department of Science and Technology, Ministry of Science and Technology, India; Indian Council of Medical Research

Abstract

Herein, glutamine conjugated organotin(IV) Schiff base compounds, [(SB_{Glu-Naph})Sn(Me)₂] (1), [(SB_{Glu-Naph})Sn(n-Bu)₂] (2), [(SB_{Glu-Sali})Sn(Me)₂] (3), [(SB_{Glu-Sali})Sn(n-Bu)₂] (4) and [(SB_{Glu-Sali})Sn(Ph)₂] (5), were synthesized by one-pot reaction with an aldehyde (2-hydroxy-1-naphthaldehyde) for 1 and 2, and 5-methyl-2-hydroxybenzaldehyde (for 3–5) and respective diorganotin oxide. The compounds were characterized using elemental micro-analyses, spectroscopic techniques (FT-IR, ¹H NMR, ¹³C NMR, and ¹¹⁹Sn NMR), mass spectrometry, and single-crystal X-ray diffraction analyses. Based on in-silico ADME (absorption, distribution, metabolism, and excretion) and drug-likeness properties, compounds 1, 3, and 4 were selected to investigate their DNA/Protein binding properties with calf thymus DNA (CT-DNA) and bovine serum albumin (BSA) using spectrophotometry and spectrofluorimetry. The intercalative mode of binding with CT-DNA was supported by molecular docking simulations. The emission spectral data of compounds with CT-DNA showed 1 as a groove binder, and 3 and 4 as an intercalator which was confirmed by competitive displacement assays. Similarly, static and dynamic mode of interaction between the compounds and BSA was found. Furthermore, these compounds were screened for their cytotoxic activity against two human cancer cell lines; PC-3 (Prostate) and Mg-63 (Osteosarcoma) at different concentrations. Quantitative structure–activity relationship (QSAR)-based regression models were developed and implemented on compounds 1, 3, and 4 that inferred compound 3 to be the most potential candidate for further in vivo studies.

KEYWORDS

cytotoxic activity, DNA/BSA interaction, glutamine, molecular docking, organotin(IV)

1 | INTRODUCTION

Metallopharmaceuticals have opened a new era of anticancer drug research after the discovery of cisplatin and other

platinum-based drugs such as carboplatin, oxaliplatin, and nedaplatin.^[1] However, most of these drugs have limited clinical applications due to their increased drug resistance and non-specificity which results in significant toxicity.^[2]

37. Dr. Neha Shekhawat

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Guazuma ulmifolia: A Review on its Traditional uses, Phytochemistry and Pharmacology

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Author info »

Abstract

Mutamba (*Guazuma ulmifolia* Lam.) is perhaps the most useful traditional medicinal plant in India. During the decades, apart from the chemistry of the mutamba compounds, considerable progress has been achieved regarding the biological activity and medicinal applications of mutamba. The extracts and metabolites of *Guazuma* particularly those from leaves and bark possess several useful bioactive compounds and recently additional data exploitation of these compounds in the various biological activities including antibacterial, antiviral, an

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38. Dr. Shefali- Zoology
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Int J Neurosci. 2021 Jun;131(6):594-599. doi: 10.1080/00207179.2020.1750393. Epub 2020 Apr 16.

Repolarization of glioblastoma macrophage cells using non-agonistic Dectin-1 ligand encapsulating TLR-9 agonist: plausible role in regenerative medicine against brain tumor

Rohit Kumar Tiwari¹, Sarika Singh², Chinedu Lei Gupta¹, Prabhakar Percey³, Vipendra Kumar Singh⁴, Usmeh Sayyed¹, Rakhi Srivastava¹, Preeti Bajpai¹

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PMD: 32250189 DOI: 10.1080/00207179.2020.1750393

Abstract

Aim of the study: Glioblastoma multiforme (GBM) is the most severe forms of brain cancer, eventually becoming the leading cause of brain cancer-related death worldwide. Owing to the bleak surgical interventions and resistance to the different treatment regime, GBM is a perilous disease demanding newer therapeutical perspective for its treatment. Toll-like receptors (TLRs) are well-known members of pathogen recognition receptors (PRRs) and have been extensively explored for their therapeutic and prophylactic potential in an array of disease including cancer. Recent trends in drug delivery research has shown shift towards delivering short DNA sequences (CpG DNA) to endosomal TLR9 within immune cells (macrophages, dendritic cells, etc.) for the activation of desired inflammatory response using non-agonistic β -glucan particles; a well-known ligand for Dectin-1 receptor. Our study is therefore focused to analyze the role of non-agonistic CpG DNA in

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39. Dr. Priyanka Kumari

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IMPACT OF COVID -19 ON HIGHER EDUCATION IN INDIA

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Abstract
The rapid spread of pandemic Covid-19 has drastically disrupted every aspect of human life including education. It has created an unprecedented test on education. Universities and college campuses are places where students live and study in close proximity to each other. They are also buzzing cultural hubs where students are brought together from nations around the world. Recently, the foundations of this unique ecosystem have been impacted significantly by the of the coronavirus (Covid-19) outbreak, creating uncertainty regarding the implications for higher education. In many educational institutions around the world, campuses are closed and teaching-learning has moved online. In India, about 32 crore learners stopped to move schools/colleges and all educational activities brought to an end. Although higher education institutions were quick to replace face-to-face lectures with online learning, these closures affected learning and examinations as well as the safety and legal status of international students in their host country. The pandemic has pushed the world to drastically reinvent ways of coping with the 'new normal'. After the initial phase of complete overhaul, it is critical to understand the short and long-term impact and future measures. Despite of all these challenges, the Higher Education Institutions (HEIs) have reacted positively and managed to ensure the continuity of teaching-learning, research and service to the society with some tools and techniques during the pandemic. This article highlights on major impacts of Covid-19 on HEIs in India. Some measures taken by HEIs and educational authorities of India to provide seamless educational services during the crisis are discussed.

Keywords: Higher Education, Covid -19, Online Teaching Learning, Challenges of Higher Education and New Normal.

Introduction

The COVID-19 pandemic has affected educational systems worldwide, leading to the near-total closures of schools, universities and colleges. The COVID-19 pandemic has not stopped at national borders. It has affected people regardless of nationality, level of education, income or gender. But the same has not been true for its consequences, which have hit the most vulnerable hardest. The pandemic times which blow around the globe, leaving no space untouched. They certainly have left a very memorable impact in the field of education. By the end of March 2020, the pandemic was everywhere, resulting in the closure of most of the schools, colleges and universities in India. Though there were many negative impacts from the COVID-19 outbreak on the field of education, there was also a positive impact which could take the education system and its methods a step higher. The pandemic has opened gates to innovative methods of transmission of knowledge across the globe. It was very challenging to India as many people live in areas without internet, and others attend more poorly equipped government-run schools/colleges. Many efforts were made to continue education at all levels with online methods, but it could not be made available to everyone. Thus, pandemic Covid-19 impacted significantly on the education sector. According to the UNESCO report, Covid-19 has affected nearly 68% of total world's student population as per the data taken during 1st week of June 2020. Outbreak of Covid-19 has impacted about 1.2 billion students and youths across the globe by school and university closures. Several other countries have also implemented localized closures impacting millions of additional learners. In India, more than 12crores of students have been affected by the various restrictions and the nationwide lockdown for Covid-19. This worldwide closure has impacted drastically the world's student population. Looking in the positive side of the pandemic's impact on education, I would surely say that the learning cells in our brains became active to think about and analyse how to continue with the education of young minds. COVID-19 accelerated the adoption of digital technologies to deliver education. Educational institutions moved toward blended learning and encouraged teachers and students to acquire technology savvy. Self technology, online, webinars, virtual class rooms, teleconferencing, digital exams and assessments became common phenomenon, where otherwise we might have merely defined them — or they might have come into practical use a decade later or more.

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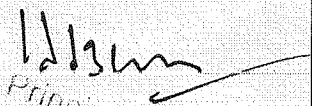
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41. Dr. Uzma- Botany Repolarization of glioblastoma macrophage cells using non-agonistic Dectin-1 ligand encapsulating TLR-9 agonist: plausible role in regenerative medicine against brain tumor,

ISSN No. 0020-7454

<https://pubmed.ncbi.nlm.nih.gov/32250189/>

> Int J Neurosci. 2021 Jun;131(6):591-598. doi: 10.1080/00207454.2020.1750393. Epub 2020 Apr 19.

Repolarization of glioblastoma macrophage cells using non-agonistic Dectin-1 ligand encapsulating TLR-9 agonist: plausible role in regenerative medicine against brain tumor

Rohit Kumar Tiwari ¹, Sarika Singh ², Chhedi Lal Gupta ¹, Pratibha Pandey ³, Vipendra Kumar Singh ², Uzma Sayyed ¹, Rafia Shekh ¹, Preeti Bajpai ¹⁻⁵

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PMID: 32250189 DOI: 10.1080/00207454.2020.1750393

Abstract

Aim of the study: Glioblastoma multiforme (GBM) is the most severe forms of brain cancer, eventually becoming the leading cause of brain cancer-related death worldwide. Owing to the bleak surgical interventions and resistance to the different treatment regime, GBM is a perilous disease demanding newer therapeutical perspective for its treatment. Toll-like receptors (TLRs) are well-known members of pathogen recognition receptors (PRRs) and have been extensively explored for their therapeutic and prophylactic potential in an array of disease including cancer. Recent trends in drug delivery research has shown shift towards delivering short DNA sequences (CpG DNA) to endosomal TLR9 within immune cells (macrophages, dendritic cells, etc.) for the activation of desired inflammatory response using non-agonistic β -glucan particles; a well-known ligand for Dectin-1 receptors. Our study is therefore focused to explore the role of nano-encapsulated CpG ODN as critical players in polarizing M2 scavenging to much desired pro-inflammatory type.

Materials and methods: The nanoparticles entrapping CpG ODN 1826 were prepared by using a fungal polymer Schizophyllan (SPG). The constructed nanoparticles were characterized and assessed for their efficacy on rat glioblastoma cells (L6).

Results: The constructed Schizophyllan (SPG) nanoparticles entrapping CpG ODN 1826 (95.3%) were of 25.49 nm in diameter and thus capable of crossing blood-brain barrier. The rat glioblastoma (C6) cells evaluated for intracellular oxidative burst and cytokine levels pre- and post-incubation with nanoparticles exhibited marked elevation in the expression of intracellular ROS and IFN- γ as well as

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42. Dr. Shefali– Science Department
Journal of Experimental Zoology, India, 2020, Volume-23, Issue-1. ISSN no: 0972-0030

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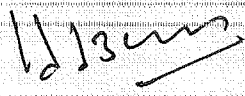
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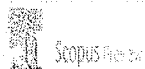
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Title : A STUDY OF INITIATIVES TAKEN BY INDIAN GOVERNMENT FOR E-LEARNING
Annu Yadav, Alpa Jain

Abstract :

India is the largest democracy with an amazing diversity in its population which is more than 3 billion. India is having largest education system from ancient time as we can proudly say that taxila, nalanda were the part of indian education system. The population of india is growing and with this growing economy we have to set some standards for education because an educated society can accelerate the growth of any economy . Government of india has taken much initiative regarding e- learning because we have to change according to the changing technological environment. E-learning is the need of today's world as no one should be away from education just because of geographical area or distance. Right to education given education a fundamental right of any Indian child of age group 6to 14.In this paper we have discussed different e learning initiatives taken by Indian government.


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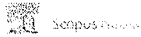
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(L.) Hepper. under moisture stress condition.

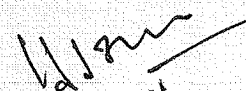
AMITA SINGH

Assistant Professor,

DPG Degree college, Gurugram

Abstract:

About 40% of the total world population suffer from protein malnutrition and situation being more alarming in a developing country. Global climate change has caused severe crop yield losses worldwide and is endangering food security in the future. Pulses gained importance in the global agriculture for their high protein content and also for their inherent capability of fixing atmospheric nitrogen. The availability of nutrients in the soil is not only prerequisite for optimum crop growth but also help plants to ameliorate the adverse effects of water stress. KCl stimulated nitrogen and protein content in water stress condition which may perhaps be due to fact that KCl seemed to increase the activities of the enzymes in the rhizosphere. Adequate potassium nitrate helps in increasing crop tolerance to water stress and promotes root growth that results in better uptake of nutrients and led to improvement of the content of starch and raw protein as compared to control. KNO₃ have better impact on mitigating stress than KCl because interaction of N and K during formative phases and seed-filling stages give higher yield.


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48 Mr. Keshav Kumar-Chemistry, Tricyclic Tin(IV) Cages: Synthetic Aspects and Intriguing Features of Stannatranes and Pseudostannatranes
<https://doi.org/10.1021/acs.inorgchem.0c01202>

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Tricyclic tin(IV) cages: synthetic aspects and intriguing features of stannatranes and pseudostannatranes

Neha Srivastav,^a Keshav Kumar,^a Raghur Singh^{a,b} and Varinder Kaur^{a*}

Tin(IV) tricycles form a class of structurally unique and topologically attractive molecules with challenging synthetic attributes. Particularly, "stannatranes and pseudostannatranes" are among the most intensively studied representatives of tin(IV) tricycles. In light of recent research perspectives, this review discusses the progress of stannatranes and pseudostannatranes over the past decades. Herein, stannatranes and pseudostannatranes are arranged into various groups based on their cage skeletons. The synthetic aspects of stannatranes are summarized for different categories of ligating systems, viz. stannatranes with nitritotriethanolate cages, aminotricarboxylate cages, and substituted nitritotriethanolate cages. Likewise, detailed synthetic discussions of pseudostannatranes are presented in subsequent sections, comprising [3.3.3.0^{1,2}], [4.3.3.0^{1,2}], [4.4.3.0^{1,2}] and [4.4.4.0^{1,2}] cages. Further, intriguing features of stannatranes and pseudostannatranes, such as variation in the Sn–N transannular bond, oligomerization, extended exocyclic bonds, aqueous chemistry and unique spectroscopic aspects, are explained with appropriate examples. Stannatranes possess interesting structural topologies and physical features which can be tuned by controlling the rigidity/flexibility of the ligating system. The choice of the rigid skeleton mitigates oligomerization effects and allows access to highly stable monomeric frameworks. The stability of these systems in aqueous systems facilitates the formation of new hydrolytic species and allows chemical reactivity of the exocyclic bond to obtain new stannatranes.

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Neha Srivastav

Neha Srivastav received her Master's degree in 2009. She obtained her PhD degree in 2018 from Panjab University, Chandigarh under the supervision of Dr Varinder Kaur, with focus on the structural aspects of cyclic tin(IV) compounds with modified coordinating frameworks. Currently, she is working as a research associate on the project entitled "Tuning tricyclic organotin skeletons for their potential applications in organic synthesis".



Keshav Kumar

Keshav Kumar received his Master's degree in 2017. At present, for the fulfillment of his PhD degree, he is working as Junior Research Fellow on the synthesis of stannatranes and pseudostannatranes under the supervision of Dr Varinder Kaur.

Introduction

Tricyclic organometallic cages formed by symmetric or unsymmetric tripodal tetradentate amines are called stranes or pseudostranes;^{1–4} they can be readily recognized by the presence of unusual intramolecular N→M interactions.^{5–6} In contrast, tricyclic cages lacking a transannular bond are termed

49. Diksha sachdeva, Chemistry
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Review

Advances in coordination chemistry of hexaurea complexes of chromium(III)


Ritu Bala, Diksha Sachdeva, Manoj Kumar & Vinit Prakash 

Pages 2801-2837 | Received 29 May 2020, Accepted 11 Sep 2020, Published online: 06 Nov 2020

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Abstract

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This review focuses on advances in the synthesis of hexaureachromium(III) complexes containing different monoanions, dianions, trianions or hypervalent anions and their investigation by different spectroscopic techniques and X-ray diffraction analysis. Cr(III) is stabilized by intramolecular hydrogen bonds (CO...HNH) between adjacent coordinated urea ligands within the complex. Moreover, crystal structures of many complexes have also shown intermolecular hydrogen bonding between coordinated

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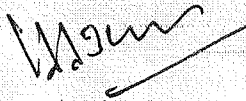
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Phytochemicals Analysis of Sarcotesta Layer of Cycas revoluta Thunb. Fruit through GC-MS

Harpreet Kaur, Anjana Kumari, Manoj Kumar, Diksha Sachdeva, Ritu Bala, Vinit Prakash

Abstract

Cycas revoluta is commonly known as sago palm, belongs to gymnosperen species, and Cycadaceae family. Its fruits are used traditionally to cure several diseases such as reduced blood pressure, bone pain, cough, diuretic, hypertension, hair growth, and many more. The sarcotesta layer of Cycas revoluta fruits have been extracted with the help of the Soxhlet apparatus with ethanol as a solvent for 72 hours. The resulting liquid has been concentrated to crude extract rotary evaporator. The preliminary phytochemicals screening of extract has been investigated followed by its Gas



Full Text

Harpreet Kaur, Anjana Kumari, Manoj Kumar, Diksha Sachdeva, Ritu Bala, Vinit Prakash. (2020). Phytochemicals Analysis of Sarcotesta Layer of Cycas revoluta Thunb. Fruit through GC-MS. *International Journal of Advanced Science and Technology*, 29(08), 5114-5116. Retrieved from <http://sersec.org/journals/index.php/IJAST/article/view/27722>

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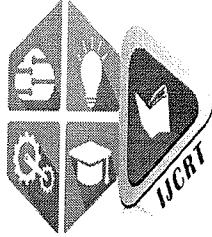


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VOL. 4, ISSUE 3 (2019)

Mitigation of adverse effects of drought on production of blackgram by foliar application of potassium nitrate

Authors
Amita Singh

Abstract
Effects of foliar spray of KNO₃ (200ppm) on number of pod per plant, seed weight under moisture stress were studied in Black gram. Plants were subjected to mild moderate and severe water stress which was created by withholding irrigation. The result indicates that moisture stress adversely affected dry matter and yield. Detrimental effect of water stress on yield were less in plant grown at 200ppm KNO₃. The yield increased 2-3 folds as compared to control in water deficit condition at 350AS. The detrimental effects of water stress on Black gram were markedly less in K-fed plants. It is concluded that K-application helped plants in maintaining favourable internal tissue moisture and metabolic activities under water stress.

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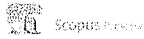
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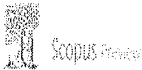
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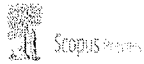
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58. Journal of Management Research and Analysis., 2019. ISSN no:2394-2770



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Abstract

JOURNAL OF MANAGEMENT RESEARCH AND ANALYSIS - Volume 6, Issue 1(1), March 19

Pages: 336-339

**INFLUENCE OF FOLIAR APPLICATION OF POTASSIUM CHLORIDE AND POTASSIUM NITRATE
ON PHENOLOGICAL AND ANTIOXIDANT METABOLISM IN VIGNA MUNGO (L.) HEPPEL**

Author: J. Amita Singh

Category: Multidisciplinary

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D.P.G. Degree College
Basti-311, Surugam

59. Ms.Nidhi jain- Botany
 Curry leaves and Diabetes, ISSN- 2456-0421
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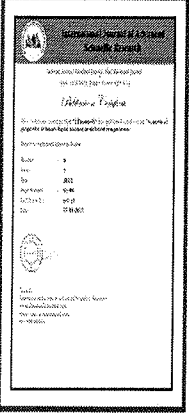
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Abstract
Murraya koenigii (L.) /Kadi-Patta/Mitho Limdo/curry leaf plant is well known by many names worldwide. Its leaves are also used as herb in Ayurveda and Siddha medicine in which they are believed to possess antidiabetic properties, but there are no high quality of scientific evidences for such effects. We can consume raw leaves as they are very beneficial to mankind with no harmful side effects. Curry leaves, popularly known as kadi Patte, have long been used to add a distinct flavour to curries and rice-dishes. The wonderfully fragrant, tangerine-like flavour of the curry leaf is commonly used in south Indian delicacies. Curry leaf is also a standard remedy in Ayurveda, the traditional medicine of India. While it is known to manage health conditions like heart diseases, infections and inflammation, it is said to manage diabetes too. Loaded with antioxidants like beta-carotene and vitamin C, curry leaves have the ability to keep most diseases at bay, especially type-2 diabetes and heart diseases. Diabetes, is metabolic diseases and chronic diseases that increase blood glucose levels over a long period. If proper treatment are not provide to diabetes client suffer from complications like chronic, foot ulcers heart disease, stroke, and eyes, diabetic, Serious long-term complications. Diabetes mellitus is a chronic disease caused lack production of insulin to the pancreas or unsuccessfulness of the insulin produced, That's why increase blood sugar level in the body is harm many of the body's systems like in particular the nerves blood vessels. Globally, an estimated 108 million in 1980 compared to 422 million adults were living with diabetes in 2014. The global prevalence (age standardized) of adult diabetes population increasing from 4.7% to 6.5% has nearly doubled since 1980, from this effect increase overweight. All diabetes is planned to rise from diabetes client is 171 million in 2000 to 366 million in 2030. Developing countries are higher in men than women is prevalence of diabetes in urban people to between 2300 and 2030. A study found that 50.8 million diabetes in the country were suffering and Present-day estimates depict the number of diabetics in the country about 62 million increase of over 10 million from 2011. According to the data of International Diabetes Federation Atlas in

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Consumer perception and satisfaction towards instant noodles

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Abstract: This is a time when consumers are looking for convenience food as they are easily available and possess nutritional value due to fortification, variety and product appeal with pocket friendly packs. Due to changing life styles consumers are spending less time in planning and preparation of cooking small meals at home as many of them specially young generation consider preparing food at home as a chores, time and energy consuming. Thus the instant noodles is considered convenient as there is no need to put in efforts in cooking & chopping thus factors supports the growth of the market. Globally the market volume for instant noodles is estimated to grow at the rate of about 5.65% from 2017 to 2023. Rapid transformation in the life style of Indians, particularly those living in the urban India, has resulted in increase in the demand for instant food.

Key Words: Instant food, Life style, Noodles, Market, Nutrition.

1. INTRODUCTION:

The instant food products originated in Japan with instant noodles and had its beginning in India in the eighties but now a day we can easily find it in the kitchen shelves of every Indian household. Demand for instant food product has been increased due to modernization of home where many factors contribute like food preparation, increasing number of working woman, changing in food habits, breaking up of the traditional joint family system, increase in urbanization, rise in per capita income, change in life styles and increasing level of affluence in the middle income group. As every human being needs food to perform activity, food is the basic requirement of any person but due to changing life style and consumers are spending less time for shopping, storing and cooking food. Although, however, also

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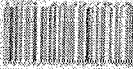
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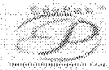
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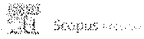
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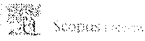


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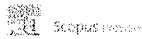
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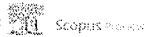
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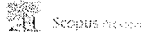
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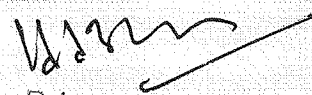
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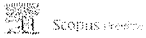
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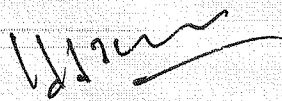
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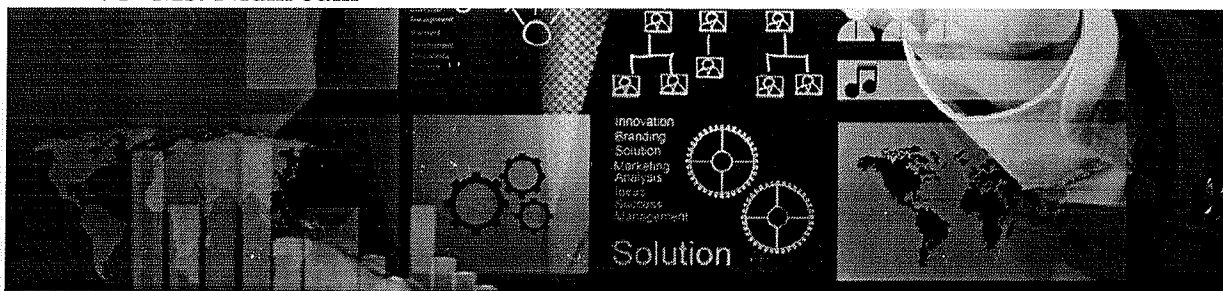
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Abstract

Sansevieria is a evergreen plant that can grow anywhere from eight inches to 12 feet in height. Its leaves are like a sword about two feet long. The leaves are strong, broad, and straight, with a mixed green color with white and yellow colors. Snake plants have a number of health benefits, which include: filtering indoor air. Remove toxic waste. It cleans the air by absorbing toxins from the leaves and producing clean oxygen. In fact, Sansevieria is a good sleeping plant. Although many other plants emit carbon dioxide at night (in the absence of photosynthesis), Sansevieria continues to produce oxygen in

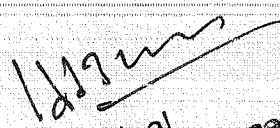

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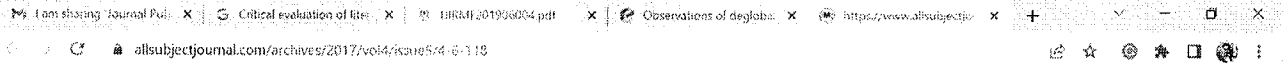


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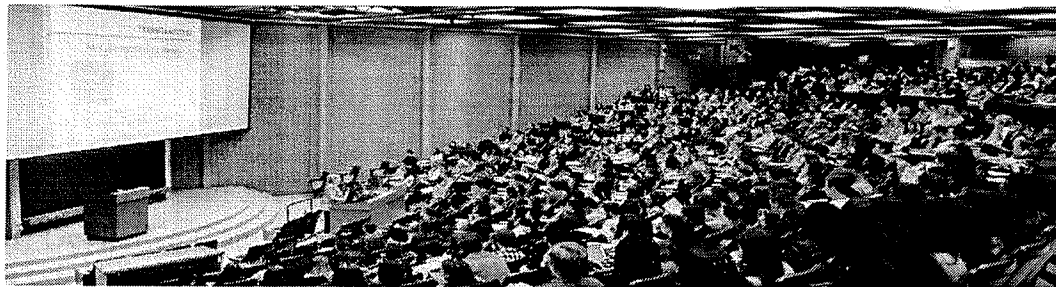

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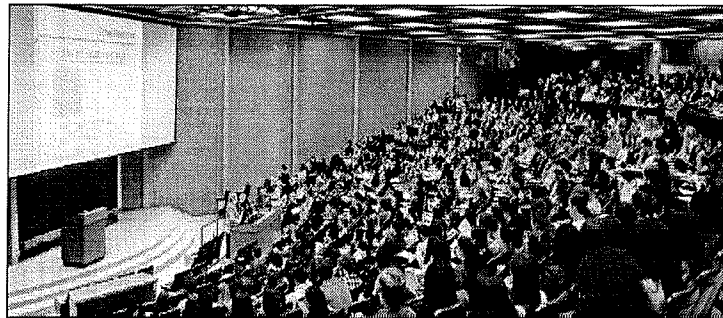
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73- Dr.Devkanya Gupta, Commerce, Role of Madhya Pradesh Urja Vikas Nigam Limited, Bhopal in development of renewable energy sources in India ISSN- 2455-4030 <http://www.advancedjournal.com/archives/2017/vol2/issue3/2-3-82>



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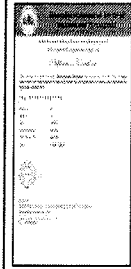
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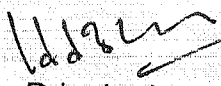
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