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RESEARCH ARTICLES

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Comparative Antioxidant potential of two drought resistant medicinal plants of Rajasthan: *Prosopis cineraria* and *Capparis decidua*

Hamnah Arisari¹ - Yashaswini Choudhary¹ - Prabha G. Shetty³

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Abstrac

The aim of this study was to assess and compare the autosoidant potential and total phenods, contest of ethiasolic and aqueous extracts of the fruits of Persopsis cinerarias and Coppareis decidus. Free radical scoreiging activity of the extracts in the concentration range 0.5–400 mg/cm² was determined by DPPH (2.2-dipheny)-1-poryhydrary)) assay using BHT as a standard (C_9) values for the ethanolic and aquextract of P concentration (7.005 ± 0.088 mg/cm² and 4.097 ± 0.035 mg/cm²) were found to be significantly $ip \le 0.05$) lower than the corresponding extracts of C decidus (47.538 ± 0.040 mg/cm² and 14.006 ± 0.039 mg/cm²). Total phenolic content for the eq. extract of P concentration (3.512 ± 0.04) and GAE/g), was significantly (p ≤ 0.05) higher than aquextract of C decidus (2.142 ± 0.032 mg GAE/g), whereas the ethiasolae extracts of the two phases do not show any significant difference in their phenolic content. The FRAP value for the eq. extract of P concentration (17.931 ± 0.036 mg Fe/H) eq. (p) and C decidus (2.343 ± 0.039 mg Fe/H) eq. (p) was significantly (p ≤ 0.05) higher than their corresponding ethanolic extracts (2.742 ± 0.023 mg 1.313 ± 0.030 mg Fe/H) eq. (p). The reducing capacity by ferrome assay for the ethanolic and eq. extracts of P cinerarias of P o

Keywords Astioxidant Prosopis cineraria Capparis decidas DPPH FRAP

Introduction

Reactive on year species (ROS) like super-orades, hydroxyl radical and hydrogran peroxide are generated in the body as a result of various binchemical processes. An excessive amomulation of these ROS can lead to insidantive stress. There are evidences that oradative stress can play a major ride in pathogenesis of numerous discusses like diabetes (Sanders and Warkins 2003) cardiov socialis and remai discusses.

Antioxodants inhibit or delay the action of these ROS and prevent the hody from oxidative stress. Today there is increasing need for research into natural introvidants since the internatively available synthetic ones are known to show carcinogenicity and toxicity to liver (Grice 1986, Wichi 1988) and other ill effects.

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Department of Chemistry, Sophia College (Autonomous).
 Manches Insta

Prosigns erowneric is a small evergreen drought resistant tree, belonging to the Legiminosae family and is mainly found in the bot and dry deserts of Arabia, Rajasthan, Haryana, Punjab, Gujarat and Western Uttas Pradesh regions in India (Malik et al. 2013). It is the state tree of Rajasthan and due to its holistic incrediates as food and indebatic it is also anti-buted as "worsher tree" and "king of the desert" (Malik et al. 2013). Overall, the tree is known to prosess antibacterial, antifungal, introonvolvant, antibyperglycenius, analgesic, antiheliumthic, anti-cance, antidepensant, apoptotic and autoxidant actio its (Khandelwal et al. 2015). Pareck et al. 2015.

The pods of Prosopus are locally known as "sanger". Although the pods are ripeared during June to August, they are dried, stored and consumed as a part of numerous Rajasthara dishes throughout the year. The pods are rich in carbohydrates, proteins, liber and have low far contest massing it beneficial for obesity management (Ram et al. 2013) and also provide a remedy for management diseases (Chogem et al. 2013).

Cappairis the idea commonly known as "kair" belongs to the Cappairdaceae family and grows either as use or shrub

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Narrative Strategies of Decolonisation: Autoethnography in Mamang Dai's *The Legends of Pensam*

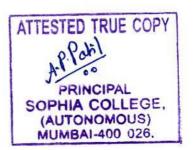
Samrita Sinha

Assistant Professor, Department of English, Sophia College (Autonomous). ORCID: 0000-0003-1021-4988. Email: ssengsophia@gmail.com, samrita.sinha@sophiacollege.edu.in

Abstract

According to John Quintero, "The decolonisation agenda championed by the United Nations is not based exclusively on independence. It is the exercise of the human right of self-determination, rather than independence per se, that the United Nations has continued to push for." Situated within ontologies of the human right of self-determination, this paper will focus on an analysis of The Legends of Pensam by Mamang Dai, a writer hailing from the Adi tribe of Arunachal Pradesh, to explore the strategies of decolonisation by which she revitalizes her tribe's cultural enunciations. The project of decolonisation is predicated on the understanding that colonialism has not only displaced communities but also brought about an erasure of their epistemologies. Consequently, one of its major agenda is to recuperate displaced epistemic positions of such communities. In the context of Northeast India, the history of colonial rule and governance has had long lasting political repercussions which has resulted not only in a culture of impunity and secessionist violence but has also led to the reductive homogeneous construction of the Northeast as conflict ridden. In the contemporary context, the polyethnic, socio-cultural fabric of the Northeast borderlands foregrounds it as an evolving post-colonial geopolitical imaginary. In the light of this, the objective of this paper is to arrive at the ramifications of employing autoethnography as a narrative regime by which Mamang Dai reaffirms the Adi community's epistemic agency and reclaims the human right towards a cultural self-determination.







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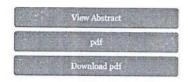
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ENHANCED PRODUCTION OF LACCASE BY MICROPARTICLE INDUCED CULTIVATION OF BASIDIOMYCETES AND EVALUATION OF ITS EFFICIENCY AS DEINKING AGENT



Published Nov 10, 2020

Shraddha Prabhu

Department of Microbiology, Sophia College for Women, Bhulabhai Desai Road, Opp. Breach Candy Hospital, Mumbai, Maharashtra, India

Samia A. Palat Tharavil

Department of Microbiology, Sophia College for Women, Bhulabhai Desai Road, Opp. Breach Candy Hospital, Mumbai, Maharashtra, India

Abstract

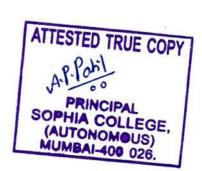
Recycling paper is worthy alternative to cut down the dependence on trees thereby preventing the hazards like deforestation. Deinking is an important step in the recycling process which involves the removal of ink particles from fiber surface and decolorization of the dislodged ink. Enzymes such as laccases may prove eco-friendly cost effective alternatives to the conventional chemicals methods used for the recycling process. However, the commercial application of this enzyme is limited by insufficient production and less stability. Hence, in this study, the laccase produced by basidiomycetes species, P. ostreatus was evaluated for its potential as a deinking agent. P. ostreatus was able to grow on many cheap substrates and when grown in the medium containing sawdust showed significant laccase production. Addition of 5g/L of Al2O3

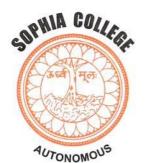


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Indian Journal of Health and Wellbeing

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Role of Stress and Sex Hormones on Emotional Memory

Einita Vedak Disva Sinha Hemalatha Ramachandran

1 Sophia College for Women, Mumbal (Autonomous), Mumbal, Maharashtra, India

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Ashible Methics

The number of women suffering from disorders related to the menstrual cycle like PMS is ever increasing, around 30% of women experience some form of physical and/or emotional discomfort during their luteal chase. Unfortunately, all the cases aren't reported and thus the diagnosis of PMS becomes difficult and its mechanism is still under study. Female reproductive hormones play a significant role in pathways that help in encoding, consolidation and recollection of memory, and this is possible due to interaction of these hormones with their receptors in various areas of the brain. Alongside to this is the role of stress hormones like cortisol, which hold significant value in influencing aspects of cognition, particularly memory related to emplional events, by binding to specific receptors on the amygdate. PMS is a gender specific stress, and thus can be used to understand the correlation between hormones. stress and their combined effect on aspects of emotional memory. The review focuses on understanding this correlation and highlighting the role of CBT in relieving the symptoms of stress



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Effect of Valproic Acid on Morphology and Behavior of Hydra vindissima Possibility of using Hydra for Screening Neuromodulators

Sheryi Alphonso ", Payan Panod ", Hemiatha Ramechandran ", Anutlama Kulkami "

Affiliations

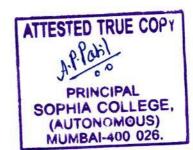
2 Holmi Bhacha Center For Science Education (HSCSE). Tata Institute of Fundamental Research, Municipa: - 400088, Maharashtra, In



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Nervous system of Hydra responds to mechanical, chemical, light and temperature stimuli, despite lack of organizational complexities like ganglion or sense organs. Nerve net of Hydra shows remarkable similarities with vertebrates at cellular and molecular level. Chemical and electrical synapses of Hydra modulate array of behavioral responses exhibited by Hydra. We have assayed toxicity and tested effect of Valoroic Acid (VPA), an anti-epileptic drug on Hydra. We have performed whole animal toxicity testing, cytological staining using toluidine blue and assayed feeding behavior post VPA treatment. We conclude mild toxicity and loss of cell organization pattern in tentacles of Hydra upon prolonged VPA exposure. Our results indicate the possibility of using invertebrates like Hydra for screening of chemical modulators of molecular pathways







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Abstract

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Kalyan Bharati

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TRANSLATING TEXTS, TRANSLATING POLITICS: A STUDY OF WILLIAM JONES' 1789 TRANSLATION OF KALIDASA'S ABHIGYANSHAKUNTALAM

Nishtha Dev Assistant Professor (Department of English). Sophia College for Women

Abstract
the act of translation, very often, is an act of negotiating with power. Cultural contexts, linguistic the act of translation, the process of translation and its result. The act of translation in the process of translation and its result. The act of translation is the process of translation and its result. The act of translation is the process of translation and its result. preferences and find the process of translation and its result. The act of translation is, therefore, political the aim of this paper is to demonstrate the political aspect of translation through a study of William The aim of this part of Kalidasa's Abhigyan Shakuntalam, by comparing it to Chandra Rajan's genesiation of the same play done years later. William Jones' translation of



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