

Correlation of Trace Elemental Content in Selected Anti-Viral Medicinal Plants as Source of Active Molecules Used Against COVID-19 by ED-XRF Technique

S Jyothsna¹ and D Sammaiah²

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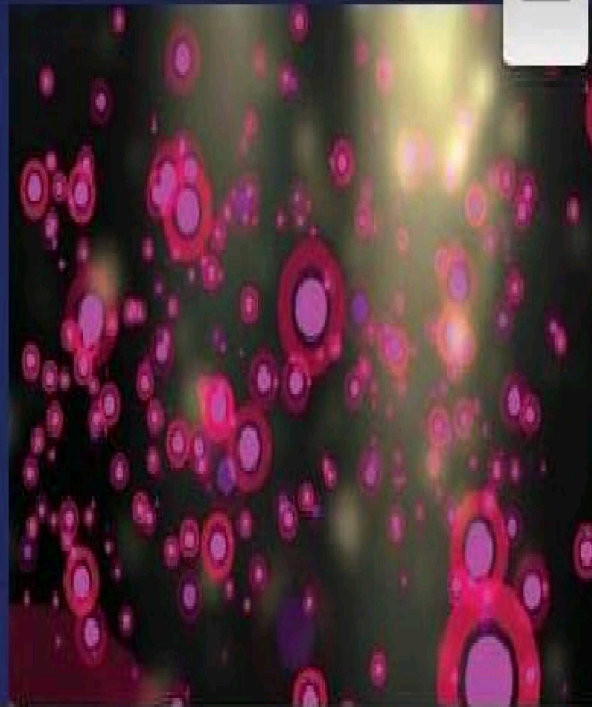
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[Abstract](#)

The functional role of trace elements is described in terms of their nutritionally essential role and their potential toxicity in recent years, and research on the role of trace elements and minerals in various metabolic processes and their impact on human health has become an area of particular concern. The survival of human life and the preservation of good health depend on the vital trace elements Fe, Cu, Mn, Zn, Se, and Ca. Trace element excess or deficiency can be harmful to people. Traditional medicine frequently uses medicinal plants to treat and prevent illnesses and diseases, and these plants are widely regarded as valuable resources for healthcare. Trace element excess or deficiency can be harmful to people. Traditional medicine frequently uses medicinal plants to treat and prevent illnesses and diseases, and these plants are widely regarded as valuable resources for healthcare. The traditional system of medicine has a heritage of community acceptance and the experience and knowledge of local herbalists, who can utilize enormous diversity of plants.



Sammaiah Dasari
Sriram Jyothsna



Dr. D. Sammaiah did his Ph. D from Kakatiya University, Warangal in 2006. He secured the first rank with cytogenetics as a specialization in MSc Botany from Kakatiya University in 2000. He has qualified for APSET in 2012. Also, he initiated research work in the field of Tissue Culture.

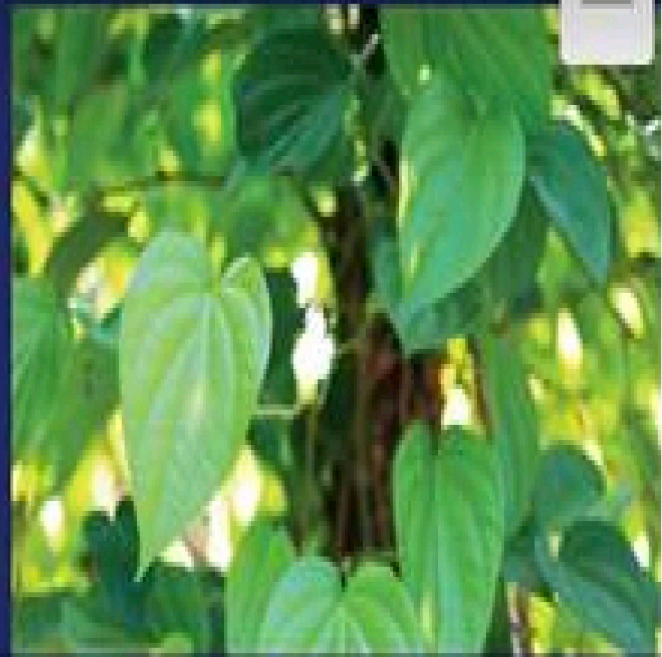
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Role of the Trace Elements

and Its Impact on Human Metabolism



It includes the 11 trace elements content in the 11 medicinal plants (cassia, A. indica, C. longa, C. parviflora, M. adhatum, B. racemosa, A. parviflora, C. verticillata, F. religiosa, A. thalictroides, Sida cordata, and A. repens) traditionally used for curing various liver diseases. ICP-OES spectrometry was used to measure trace elemental concentrations present in selected medicinal plants. Cassia spectrometer is one of the most powerful spectrometers, multielemental, multi-line screening and the detection limits for large atomic numbers. The data revealed that highest trace and toxic elements, namely Fe, Zn, Cu, Mn, Ni, Co, Se, Pb, Cd, Bi and Cr observed in cassia leaf were presented in varying concentrations in the selected medicinal plants with a high and steady concentration of Fe, Cu, Mn, Ni, Co and an appreciable amount of Zn and Bi in all the medicinal plants. The results of the present study support the therapeutic usage of these medicinal plants in the traditional practice for curing various liver diseases since they are found to contain an appreciable amount of the Cu, Mn, Ni, Zn, Co, and Se.

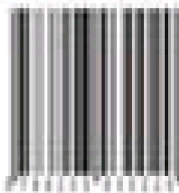


Dr. Jyothsna Sreeram holds Ph.D from Acharya N.R. Subrahmanyam University, Warangal and Thesis submitted to KU in June, 2008. She obtained Master's Degree from KU for her excellent M.Phil and M.Tech. She has 4 yrs of research experience and areas of interest are: Botanical Pharmacy, Medical Pharmacy, Bio Pharmacy, Green Synthesis and Biogenic elements.

Jyothsna Sreeram
Devaraj Sammakuri

Quantitative Trace Elemental Screening of Potential Medicinal plants

Used in the Management of Jaundice by Traditional Healers of Telangana, India

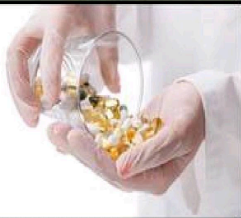


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Computational Assessment of Trace Elemental Composition in *Andrographis paniculata* and *Aegle marmelos* Using EDXRF-Technique

S. Jyothsna ; D. Sammaiah

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Abstract

The main aim of the present research work is to determine the trace elemental concentration in *Andrographis paniculata* (*A. paniculata*) and *Aegle marmelos* (*A. marmelos*) which are growing in

AN ANALYSIS OF ACHIEVEMENTS OF POST INDEPENDENT INDIA - A STUDY OF SELECT FIELDS

Dr. Md. Yakub

Asst. Professor of Commerce, Government Degree College, Mirlugu

Introduction:

The foundation for independence laid in the year 1857, when the Indian Revolt took place against the British rule. After many phases of freedom struggle India got independence on 15th August 1947. It's now the time for every Indian to undergo self-introspection of the achievements we have already made in various fields and also those that are to be still achieved. While talking of achievements we should have a look at the challenges that India had at the time of independence. In March 2021, the Government of India announced Azadi ka Amrut Mahotsav, to commemorate its 75th year of Independence on August 15, 2022. India's economic journey since 1947 has seen many fluctuations. Though India is now among one of the biggest economies of the world it still has a long way to go to accomplish the pending problems. After its independence, the nation has made great strides in all the fields. The achievements made possible through indigenous technologies have also made India one of the global powers. The journey of India since August 15, 1947 has been one of development from science and technology to education, sufficiency in food production among others. An attempt is made in this paper to present or recapitulate the achievements made by India along with the current challenges that are to be addressed immediately.

Keywords:

Foundation, Independence, Revolt, Self-introspection, Economy, Achievement, Challenges, Consequences, Resources, Attention, Technology, Freedom Struggle, Sufficiency.

Objectives of the Paper:

1. To know the importance of independence in attaining self sufficient in various fields in India.
2. To understand and evaluate the progress achieved in various fields after independence in India.
3. To identify the current issues or challenges that are needed to be addressed immediately in India.

4. To suggest some measures to address the current issues and problems in India.

Analysis of the Topic:

1. Self-reliance in Food Grains:

In the initial years of independence India being an agricultural country was food-deficient and depended heavily on imports of food grains from other countries to feed its large population. The Green Revolution made India a self-sufficient nation. The Green Revolution started in the year 1965 in which high yield variety seeds were introduced in Indian agriculture. With Green Revolution, India became not only self-sufficient in food grains but also able to export many produces to other countries. Use of modern machinery, hybrid seeds etc. have also contributed to the progress in this sector. Achieving "self-sufficiency" in food grains has been Independent India's biggest achievement. The total food production, which stood at 54.92 million tonnes in 1950, increased to 305.44 million tonnes in 2020-21. Today, India is the largest producer of pulses and the second-largest producer of rice, wheat, and sugarcane globally.

2. Enormous Increase in Gross Domestic Product (GDP):

India's GDP stood at ₹ 2.7 lakh crore at the time of Independence. At present it has reached to ₹ 135.13 lakh crore. India is now the 6th largest economy in the world and set the target to become the third-largest by the year 2031. It is found that there has been a multi-fold increase in the GDP (at constant prices) since the economic reforms began in the year 1991.

3. Expansion of Roads and Railways Network:

In Independent India, the Indian Railways has focused on unifying all rail gauges, electrification of railway lines and connecting northeast India to the mainland. Moreover, the railway line has expanded by over 14,000 kilometers, reaching 67,956 kilometers in route length by 2020. Railways are being the common mass transport making profits



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Abstract

In the twenty-first century, globalization has a significant impact on how people live their lives. The majority of individuals nowadays are impacted by the contemporary lifestyles that have been seen around the world. Their shifting behavioral habits reveal the extent of globalization. The two greatest innovations in information technology are the computer and the internet. The entire planet now functions like a community. The teaching and learning process is drastically altered by the use of an internet connection. There are plenty of online tools and teaching materials available that might comfort learners and make it simpler for them to understand what the teacher has taught and provide them ample scope to learn Communicate Skills in English to their ultimate satisfaction. The main objective of the paper is to acknowledge the extraordinary space available through social media online to enrich ones' communicative English beyond physical class room when used appropriately under guidance.

Keywords: Social media, communicative English, Language skills

Now the Millennial students including rural backdrop, live in a social media-rich environment where they can look for opportunities to expand their knowledge across the entire global village. Since English is a universal language, the majority of people on earth can learn it. It represents a paradigm change to receive a proper education using the hypertext resources made available by the technological revolution. The proliferation of social networking sites like Facebook, Youtube and Self Paced online Platforms like Swayam, Tedex, Unacademy and Coursera etc are gaining enormous popularity and has permeated many people's daily lives. The different forms of social networks are MySpace, Hotmail, Face book; Twitter, Blogs, Wikipedia, PODCAST, etc are quite useful and appealing in acquiring listening and speaking skills.

Outside of the classroom, students get a lot of knowledge through online reading materials. They develop the habit of reading well and pique their curiosity about learning new things. These days, it serves as inspiration for encouraging in-depth reading. Some people find it fascinating to put together the material needed to meet academic requirements. Under controlled self paced study of the students through these online social Media platforms, one could eventually change their pace of learning and would obviously develop ones language Skills in their career.

The main objective of the paper is to acknowledge the extraordinary space available through social media online to enrich ones' communicative English beyond physical class room when used appropriately under guidance. Using online learning resources, students have independent access to a wealth of information outside of the classroom. They domesticate precise study habits and make acquiring various forms of knowledge their passion. It now serves as a source



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**Azadi Ka
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Dr. BYSHETTY KAVITHA

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MESSAGE

I am happy to know that Government Degree College, Wardhannapet, is bringing out a special volume on the theme of "Azadi ka Amrit Mahotsav - A Tribute to Commemorate the Achievements of 75 Years of Independence."

I am glad to know that this book is an anthology of multi-disciplinary research papers exploring different aspects of achievements of the independent India.

On this auspicious period of Azadi ka Amrit Mahotsav, it is our bounden duty to remember and pay our respects to all the freedom fighters who made innumerable sacrifices for the country's freedom and to strive for the country of their dreams.

I appreciate Dr. Byshetty Kavitha, Assistant Professor, Dept. of Political Science, for her efforts in bringing out this book to chronicle the achievements of the country in various fields during the last 75 years.

I am sure this book will serve as a good reference to study the country's progress in different spheres and plan the strategies and policy making for future development of the country.

I appreciate and congratulate all the authors for their insightful contributions. I extend my best wishes for all your future endeavours in transforming our country a prosperous, strong, and self-reliant nation.


Dr. Tamilisai Soundararajan

A FEMININE PERSPECTIVE IN SELECT POEMS OF KAMALA DAS:

AN APPRECIATION

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Abstract :

Kamala Das belongs to the first generation of modern English poets. Until 1950s, in the first phase of Indo-Anglican Poetry, the poets of the period did not reflect the themes and techniques of the modernism. It is quite alien to the poets till the end of 1950. Nationalism, freedom struggle and independence and the partition of the country are the only the significant themes for these writers. It was in the sixties only, there were powerful voices like kamala Das who became powerful voice of protest and rebelled against post colonial era, the age old traditions and patriarchy and raised their voice of feminine sensibility, its oppression by the male dominated society.

Most of the time, the poetry of Kamala Das is confessional and autobiographical and at times, her poetry also became an embodiment of universality. The themes and techniques she has incorporated in her poetry is quite an impressive panorama of home, freedom, journeys, communal conflict and gender politics. In her poem, "Purdah and other poems", she unfolded the voice of a Muslim woman's life and her experience like injustice, oppression and violence under the guise of the culture of purdah. This heterogeneity of mixed heritage and plurality is always presented to a great extent. Her style of questioning with subtle images in poems often reveal the idea of her cultural displacement and the research paper tries to find her endeavors towards the ideas about home, freedom and faith through her poetry.

Key words: Feminist, sexuality, rebel, patriarchy, post-colonial study, Heterogeneity, Plurality

Introduction:

Since early 19th century, Indian Writing in English has brought out many literary stalwarts like Raja Rao, R.K.Narayanan, Mulk Raj Anand, Toru

Dutt, Sarojini Naidu who portrayed contemporary society like a mirror image through their novel, Poems and short stories. Modern Writers of Indian roots like V.S.Naipaul, Salman Rushdie, Rohinton Mistry have got accolades across the globe. Women Writers like Anitha Desai, Kiran Desai, Kamal Das and Arudhathi Rai depicted the country in its modern spirit through different literary genres.

But the major movement in post-independence Indian English poetry has been modernism represented by Poets like Sarojini Naidu, Toru Dutt, Rabindranath Tagore, Sri Aurobindo, and later Nissim Ezekiel and even Henry Derozio known for their own style and technique.

Kamala Das belongs to the first generation of modern English poets. Until 1950s, in the first phase of Indo-Anglican Poetry, the poets of the period did not reflect the themes and techniques of the modernism. It is quite alien to the poets till the end of 1950. Nationalism, freedom struggle and independence and the partition of the country are the only the significant themes for these writers. It was in the sixties only, there were powerful voices like kamala Das who became powerful voice of protest and rebelled against post colonial era, the age old traditions and patriarchy and raised their voice of feminine sensibility, its oppression by the male dominated society.

The present paper is an attempt to depict the reality of the modern psyche of women and the feminine perspective through the select poems of Kamala Das and also to voice the feminist voice through some of her select poems. In these poems, Kamala Das has projected a new device to liberate the women from the bondage of slavery in male-dominated chauvinistic society and questioned the canonical set up of the age old patriarchy.

Kamala Das is renowned as "The mother of modern English Indian poetry". Her last book titled "The Kept Woman and Other Stories", featuring translation of her short stories, was published posthumously. Kamala Das is one of the most