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Research Article



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Antimicrobial effect of a cyclic peptide Nostophycin isolated from wastewater cyanobacteria, *Nostoc calcicola*

Vaishali Gupta^{1*}, Deepak Vyas²

¹Government College, Bichhua, Dist. Chhindwara, Madhya Pradesh 480111, India, ²Department of Botany, Dr. Hari Singh Gour Central University, Sagar, Madhya Pradesh 470003, India

ABSTRACT

Different types of peptides are produced by cyanobacteria of the genus *Nostoc*, which are unique in structure and have a wide spectrum of biological activities. The objective of the study is to explore different habitats of organisms and study antimicrobial activities to improve their pharmaceutical application and drug like properties by structure modification. A cyclic peptide nostophycin was isolated from *Nostoc calcicola* (MK-708149) through freeze dried lyophilization method. Its structure has been elucidated using FT-IR, ¹HNMR, ¹³CNMR and LC-MS. Glycine, d-glutamine, l-phemalamine, d-isoleucine, l-proline and a novel amino acid Ahoe are constituents of nostophycin. ¹HNMR, ¹³CNMR spectroscopy confirmed the number of protons and carbons, and characteristic peak determined the structure and fragmentation pattern through LC-MS. Nostophycin possess Ahoe instead of Adha which makes it different from microcystin. Nostophycin exhibits antimicrobial activity against *E.coli*, *S. aureus*, *C. albicans* and *A. niger*. Significant antifungal activity (9-52 µg/mL) and moderate antibacterial activity (concentration 15-52 µg/mL) were observed for nostophycin. In case of already known peptides, these molecules may be further exploited to improve pharmaceutical application and future drug development.

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INTRODUCTION

Cyanobacterial features conspicuous researchers due to their capability of synthesis of various bioactive compounds, diverse range of habitats, wide diversity and morphological variability. Cyanobacteria are gram negative, photosynthetic and ubiquitous bacteria, which known as a primary producer (Gademann & Portmann, 2005). Availability in the extreme environment and unique feature of cyanobacteria considered it to be future pioneer for research (Kulasoniya, 2011; Potts, 1999; Scheret et al., 1985; Scherer & Potts, 1989). According to Kalaitzis et al. (2009) cyanobacteria can produce immense range of bioactive compounds which help in survival in endurance and competitive ecological niche. Bioactive metabolites synthesized by *Nostoc* sp. has been applied as a biofertilizer (Ghazal et al., 2015; Win et al., 2015), anticancer (Moore, 1996), antifungal (El-Sheekh et al., 2014), antibacterial (Ploutou & Carmeli, 2000), antiviral (Batoz & Wladawer, 2003) and enzyme-inhibiting (Mazur-Marzei et al., 2015). These bioactive compounds are explored and identified as peptides, alkaloids, terpenoids, fatty acid and lipopolysaccharides (Chorus, 2012; Dembitsky & Rezanka, 2005; Dittmann et al., 2001; Nosztzki et al., 2012; Parmar et al., 2011). Allelochemicals influence their own growth potential,

other microbes in their vicinity, associated microorganisms, higher plants and animals. Cyanobacteria synthesize nitrogen storage material, new proteins, change pigmentation, excrete and store some other compounds, in response to environmental stress, temperature, pH, nutrient availability and light intensity (Mendes & Vermelho, 2013; Priya et al., 2015; Singh, 2014).

High number of metabolites, lipid and lipid like compounds, peptides, oligopeptides and amino acid derivatives produced by different genera of the *Nostocaceas* family (Rezanka & Dembitsky, 2006). Nostocyclamide a macrocyclic peptide was first reported in *Nostoc* sp. (Jüttner et al., 2001) and Nostophycin has been isolated from *Nostoc calcicola*, cyclic peptide with different amino acid including unusual amino acid (Fewer et al., 2011). Extracts from various cyanobacteria have already been proved beneficial for *Triticum aestivum* (Jager et al., 2005) *Oryza sativa* (Saadatnia & Riahi, 2009), *Zea mays* (Saadatnia & Riahi, 2009), *Cucumis sativus*, *Cucurbita maxima* and *Solanum lycopersicum* (Shariatmadari et al., 2011). Cyanobacteria are known to produce different allelochemicals that have the potential for multiple usages in various fields. Drug-like properties of peptide, combine effect of compounds, pharmaceutical applications of peptides can be improved and

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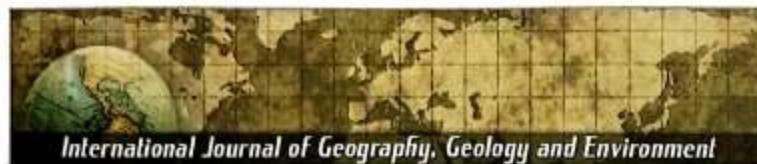
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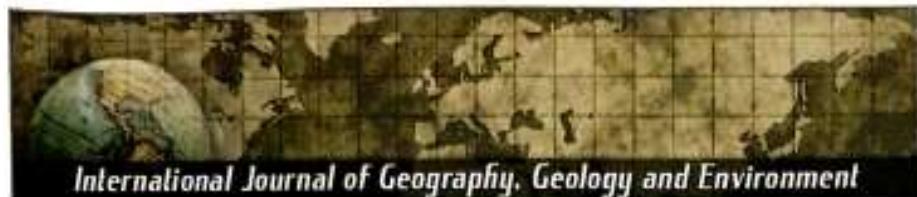
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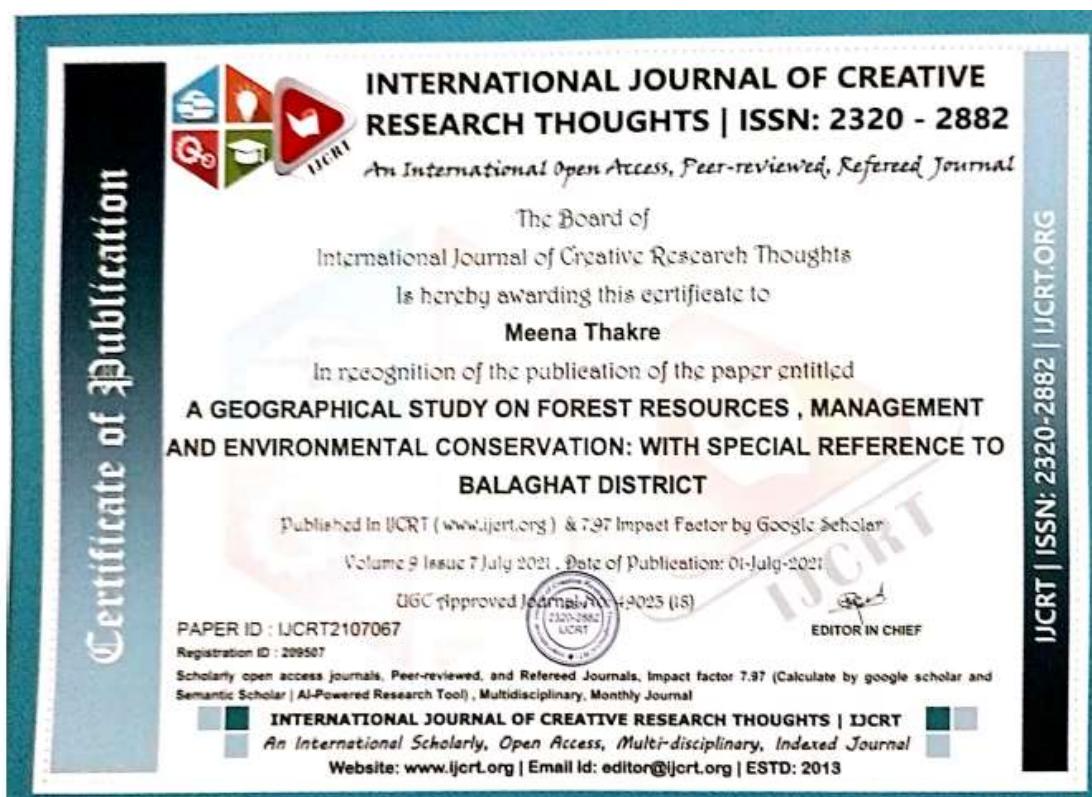


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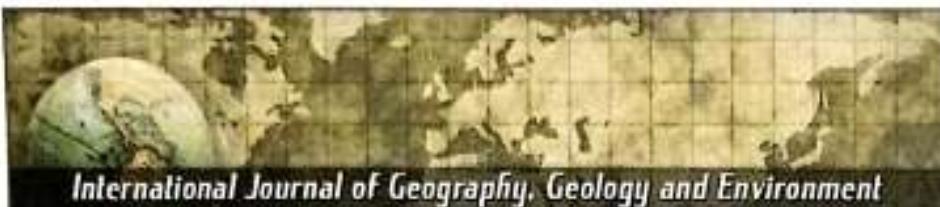
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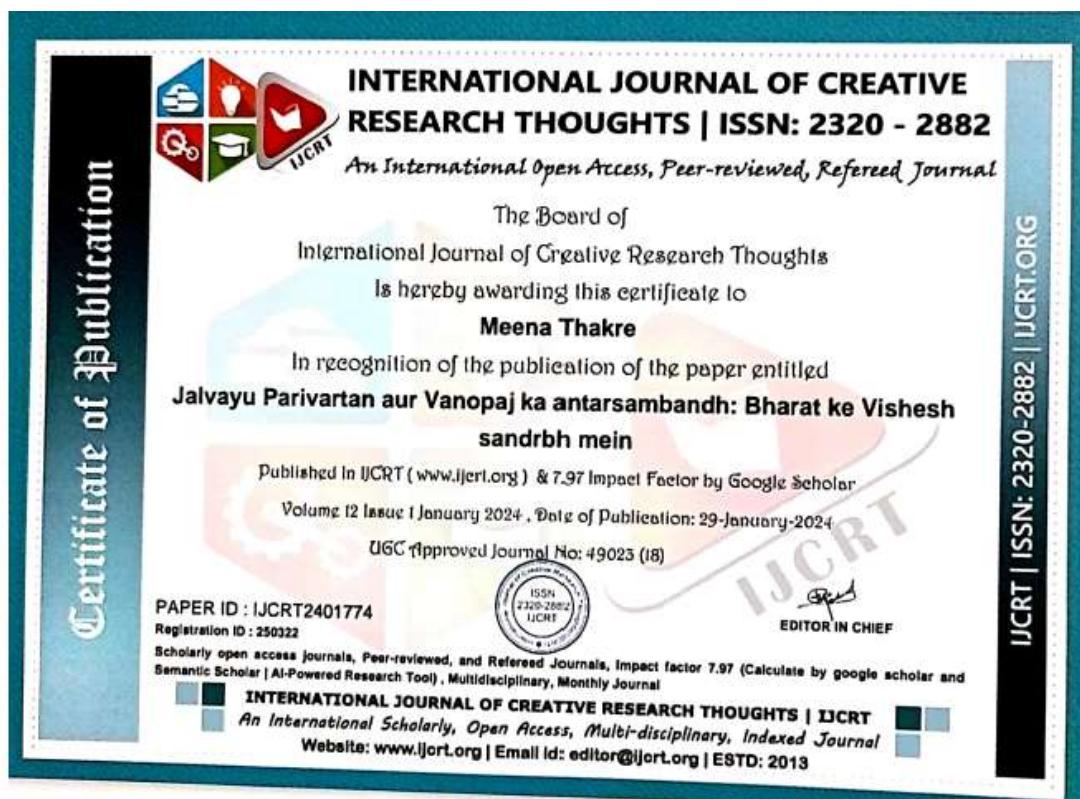


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गीता ताकरे

सहायक प्राच्याधारक, भूगोल विभाग, यासवारीय महाविद्यालय, विहुआ, उन्नदबाड़ा (म.प्र.)

सारांश- जैविक खेती कृषि की दृष्टि से, जो संश्लेषित उर्वरकों एवं संश्लेषित कीटनाशकों के व्यूहात्मन प्रयोग मर जात्याहृति है तथा जो भूमि की उर्वरा जाति को बनाए उर्फने के लिये कफल चक्र, डॉरी चाद, कम्पोस्ट आदि का प्रयोग करती है। सन् 1990 से याद है विश्व में जैविक उत्पादनों का बाजार काफी बढ़ता गया है। सघन खेती प्रणाली के खतरे बड़े तुनोतीपूर्ण रहे हैं जैसे कि इनसे प्रारिष्ठितीय सन्तुलन पर नाहीं प्रगति पड़ता गया है। इसी जाति को व्याप में रखकर आर्गेनिक वा जैविक खेती पर आधारित प्रणाली के बारे में सोचा जाया, विसमें रासायनिक उर्वरकों के उपयोग की बजाय कार्बनिक पदार्थों के सठने-गलने से प्राचा खाद्य का प्रयोग किया जाया है।

पारिवारिक व्यवाहारी- जैविक खेती, जनसंरक्षण, पारिवर्तिकी, कीटनाशक आदि।

प्रस्तावना-

विश्व में बढ़ती हुई जनसंख्या एक बड़ी समस्या है, बढ़ती हुई जनसंख्या के साथ जौजन की आपूर्ति के लिए मानव द्वारा खाद्य उत्पादन की प्रतिशतावर्षी में अधिक उत्पादन प्राप्त करने के लिए अलग-अलग राशायनिक खाद्य, जहरीले कीटनाशकों का प्रयोग पारिवर्तिकी तंत्र, प्रकृति के जैविक और अवैजिक पदार्थों के बीच आदान-प्रदान के चक्र को प्रभावित करता है, जिससे भूमि की उर्वरा जाति नष्ट हो जाती है, साथ ही यातावरण प्रदूषित भी होता है तथा नमूने की स्थानस्थिति पर वृक्ष प्रणाल बदलता है। अतीव लम्बे में नानव स्वास्थ्य के अनुकूल तथा प्राकृतिक यातावरण के अनुसार ही खेती की जाती थी, जिससे जैविक और अवैजिक पदार्थों के बीच आदान-प्रदान का पारिवर्तिकी तंत्र निरन्तर बदलता रहता था, जिसके परिणामस्वरूप जल, भूमि, वायु तथा पर्यावरण प्रदूषित नहीं होता था। नानव में प्राचीन समय से ही भूमि के साथ-साथ नीं घटन किया जाता था, जिसके प्रमाण हमारे शंखों में प्रमुख कूचन और चलराम हैं जिनमें हम गोपाल एवं हल्लवर के नाम से संबोधित करते हैं अतीव कृषि एवं गोपालन संबुद्ध रूप से अत्यधिक लाभदायी था, जोकि प्राचीन मात्र व यातावरण के लिए अल्यन्त उपयोगी था। परन्तु गोपालन शीर्ष-शीर्ष कम हो गया तथा कृषि में तहह-तहह की राशायनिक खाद्यों व कीटनाशकों का प्रयोग होने लगा। जिसके कारण जैविक और अवैजिक पदार्थों के बीच का संतुलन विगड़ा जा रहा है और यातावरण प्रदूषित होकर, नानव जाति के स्वास्थ्य को प्रभावित कर रहा है। अब हम रासायनिक खाद्य, जहरीले कीटनाशकों के उपयोग के स्थान पर, जैविक खाद्यों एवं दबाईयों का उपयोग कर, अधिक से अधिक उत्पादन प्राप्त कर सकते हैं जिससे भूमि, जल एवं यातावरण शुद्ध रहेगा और नमूने एवं प्रकृतें जैविक खाद्यों स्वयं रहेंगे। जैविक पदार्थों से बनी खाद्य के इसोनाल पर आधारित यह प्रणाली हमारे समाज में प्राचीनकाल से ही है। जैविक खेती में प्रमध्या नानवजन और विज्ञान का समन्वय करके परिवेश का साझा लाभ उदाया जाता है और सभी सम्बद्ध पक्षों के बीच समृद्धि सम्बन्ध और अचूक जीवन-स्तर को बढ़ावा दिया जाता है।

जैविक कृषि और लक्षितों

पूरे भारत में जैविक अवैजिक स्थान का मुख्य आधार कृषि है और कृषकों की मुख्य जाव का साधन खेती है। हरित कलाई के समय से बढ़ती हुई जनसंख्या को देखते हुए एवं आय की दृष्टि से उत्पादन बढ़ाना आवश्यक ही गया। अधिक उत्पादन के लिये खेती में अधिक जाति में रासायनिक उर्वरकों एवं कीटनाशक का उपयोग करना है, जिससे साकान्य व छोटे कृषक के पास कम जोगा में अत्यधिक लागत लग रही है और जल, भूमि, वायु और यातावरण भी प्रदूषित हो रहा है तथा ही खाद्य प्रदूषण भी जहरीले हो रहे हैं। इसलिए इस प्रकार जीवनस्थानों से निपटने के लिये पिछले कुछ वर्षों से लगातार टिकाऊ खेती के सिद्धान्त पर खेती करने की तिकारिता की गई, जिसे प्रदेश के कृषि विभाग ने इस विशेष प्रकार की खेती को अपनाने के लिए बढ़ावा दिया, जिसे हम जैविक खेती कहते हैं।



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By – Dr. Meena Thakre

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“विज्ञान गरिमा सिंधु अंक” में प्रकाशित लेखों में अधिक्याक विचारी, सूचनाओं, जननारियों आदि से वैज्ञानिक तथा तकनीकी शब्दावली आयोग, शिक्षा संवाददाता, भारत सरकार, या इस अंक के संपादक का सहमत इन्हा आवश्यक नहीं है। यह प्रक्रिया वैज्ञानिक तथा तकनीकी शब्दावली आयोग हुआ लिंगित शब्दावली के प्रधार प्रसार के साथ हिन्दी में वैज्ञानिक तथा तकनीकी शब्दों को योग्यतापूर्ण करने के लिए वैज्ञानिकों के क्षेत्र में प्रमाणित की जाती है।

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Women Empowerment by Education

Wojciech Kacprzak

Abstract: The article discusses the importance of education in women empowerment. It highlights various stages of education, from primary to tertiary, and their impact on women's empowerment. The research also explores how education improves women's skills and knowledge, leading to better opportunities and a more secure future. The study concludes that investing in women's education is a key factor in addressing gender inequality and achieving sustainable development.

Keywords: Women Empowerment, Education, Skills, Opportunities

Contribution of Women Empowerment in Reducing Gender Disparity through Increased Income and Improved Quality of Life

Abstract: This research aims to investigate the relationship between women's empowerment and gender disparity. It explores how increased income, better access to education, and improved social status contribute to reduced gender inequality. The study highlights that women's empowerment leads to greater economic independence and decision-making power, which are crucial for breaking down traditional gender roles and improving overall well-being.

Keywords: Women Empowerment, Income, Education, Social Status

Abstract: This research studies the correlation between women's empowerment and gender equality. It finds that higher levels of education, better job opportunities, and improved social support systems all contribute to reduced gender disparities. The article emphasizes that addressing gender inequality requires a holistic approach that includes education, economic development, and social policy changes.

Keywords: Women Empowerment, Gender Equality, Education, Job Opportunities, Social Support

Abstract: This research examines the relationship between women's empowerment and gender equality. It concludes that increased educational attainment, better job prospects, and improved social conditions all contribute to reduced gender disparities. The article emphasizes that addressing gender inequality requires a holistic approach that includes education, economic development, and social policy changes.

Keywords: Women Empowerment, Gender Equality, Education, Job Opportunities, Social Support