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Criterion 3 – Research and Innovation

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

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Annexure 1



Low bias negative differential conductance and reversal of current in coupled quantum dots in different topological configurations

Authors: Sushila Devi, BB Brogi, PK Ahluwalia, S Chand

Publication date: 2018/6/15

Journal: Physica B: Condensed Matter

Volume: 539

Pages: 111-116

Publisher: North-Holland

Description: Electronic transport through asymmetric parallel coupled quantum dot system hybridized between normal leads has been investigated theoretically in the Coulomb blockade regime by using Non-Equilibrium Green Function formalism. A new decoupling scheme proposed by Rabani and his co-workers has been adopted to close the chain of higher order Green's functions appearing in the equations of motion. For resonant tunneling case; the calculations of current and differential conductance have been presented during transition of coupled quantum dot system from series to symmetric parallel configuration. It has been found that during this transition, increase in current and differential conductance of the system occurs. Furthermore, clear signatures of negative differential conductance and negative current appear in series case, both of which disappear when topology of system is tuned to asymmetric parallel ...

Total citations: Cited by 3

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S Devi, BB Brogi, PK Ahluwalia, S Chand - Physica B: Condensed Matter, 2018

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Annexure 2

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Superlattices and Microstructures
Volume 122, October 2018, Pages 147-155

18-2120

Andreev tunneling assisted suppression of Fano resonance in asymmetric parallel quantum dot system coupled to superconducting leads

Bharat Bhushan Brogi, Shy

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<https://doi.org/10.1016/j.spmi.2018.10.016>

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Abstract

Electronic transport through asymmetrically parallel coupled quantum dot system hybridized between conventional superconducting leads has been investigated theoretically in the Coulomb blockade regime by using Non-Equilibrium Green Function formalism. For resonant Cooper pair tunneling, the Andreev transmission probability and Josephson supercurrent ($I - V$ characteristics) have been presented for each configuration of coupled quantum dot system and for transition of coupled quantum dot system from series to symmetric parallel configuration. Superconducting order parameter regulates the Josephson Cooper pair tunneling in such a way that it initially enhances and then suppresses the resonant Cooper pair tunneling when system is tuned from series to symmetric parallel configuration. Furthermore, it has been found that the Fano effect, reported in asymmetric parallel configuration of CQD system, gets completely suppressed by Andreev tunneling for a particular value of superconducting order parameter and lead-dot coupling strength.

Previous Next

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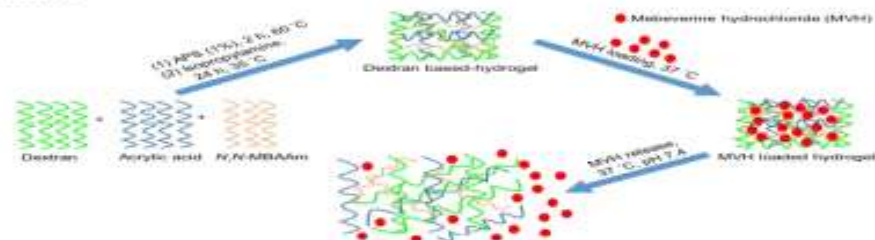
Dextran-Based Hydrogels for Site-Specific Delivery of Mebeverine Hydrochloride

Shiwali Thakur, Sunita Ranote, Ghanshyam S. Chauhan*

Himachal Pradesh University, Department of Chemistry, Shimla, India-171003

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Graphical Abstract



Abstract

Mebeverine hydrochloride (MVH) is a potent direct antispasmodic agent acting mainly on the smooth muscles of the gastrointestinal tract (GIT) and is used to treat irritable bowel syndrome and reducing the abdominal spasm. Herein, hydrogels of dextran using acrylic acid (monomer) and *N,N'*-methylenebisacrylamide (crosslinker) followed by further modification using isopropanol were prepared as vehicles for the delivery of MVH. Synthesized hydrogels were evaluated for drug loading and types of interaction involved in drug loading. Drug release study was performed in pH 2.2 and pH 7.4 to mimic the pH of simulated gastric fluid and simulated intestinal fluid, respectively, to evaluate the effect of structural factor on drug release. Different kinetic models were applied to drug release data in order to evaluate drug release mechanisms and kinetics. Criteria for selecting the most appropriate model were based on the linearity basis (coefficient of correlation).

Keywords: Mebeverine hydrochloride; Dextran hydrogels; Drug delivery; Kinetic models.

1. Introduction

Natural polymers are the best choice for the development of drug delivery system as they degrade within the body as a result of enzymatic reactions, thus eliminating the need to remove a drug delivery system after the release of the drug has been completed. Moreover these can be modified to achieve the dosage forms to release the drug in a constant or sustained manner and maintain steady state plasma concentration

for the entire period of treatment to reduce the dose related adverse effects. The peculiar physicochemical properties of polysaccharides make their suitability as a slow-release matrix in the colon-targeted drug delivery. For the past few decades, biodegradable polymers have been designed as carriers for the controlled delivery of drugs as well as bioactive proteins.^{1,2}

Dextran is a polysaccharide which is a good carrier for site specific drug delivery due to its physico-chemical properties and good storability, excellent pharma-

* Corresponding author: Ghanshyam S. Chauhan
E-mail: ghanshyam_112000@yahoo.com, ghanshyamschauhan@gmail.com

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3.3.2


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This is to certify that Mr./Ms. Yojana Thakur Negi co-authored
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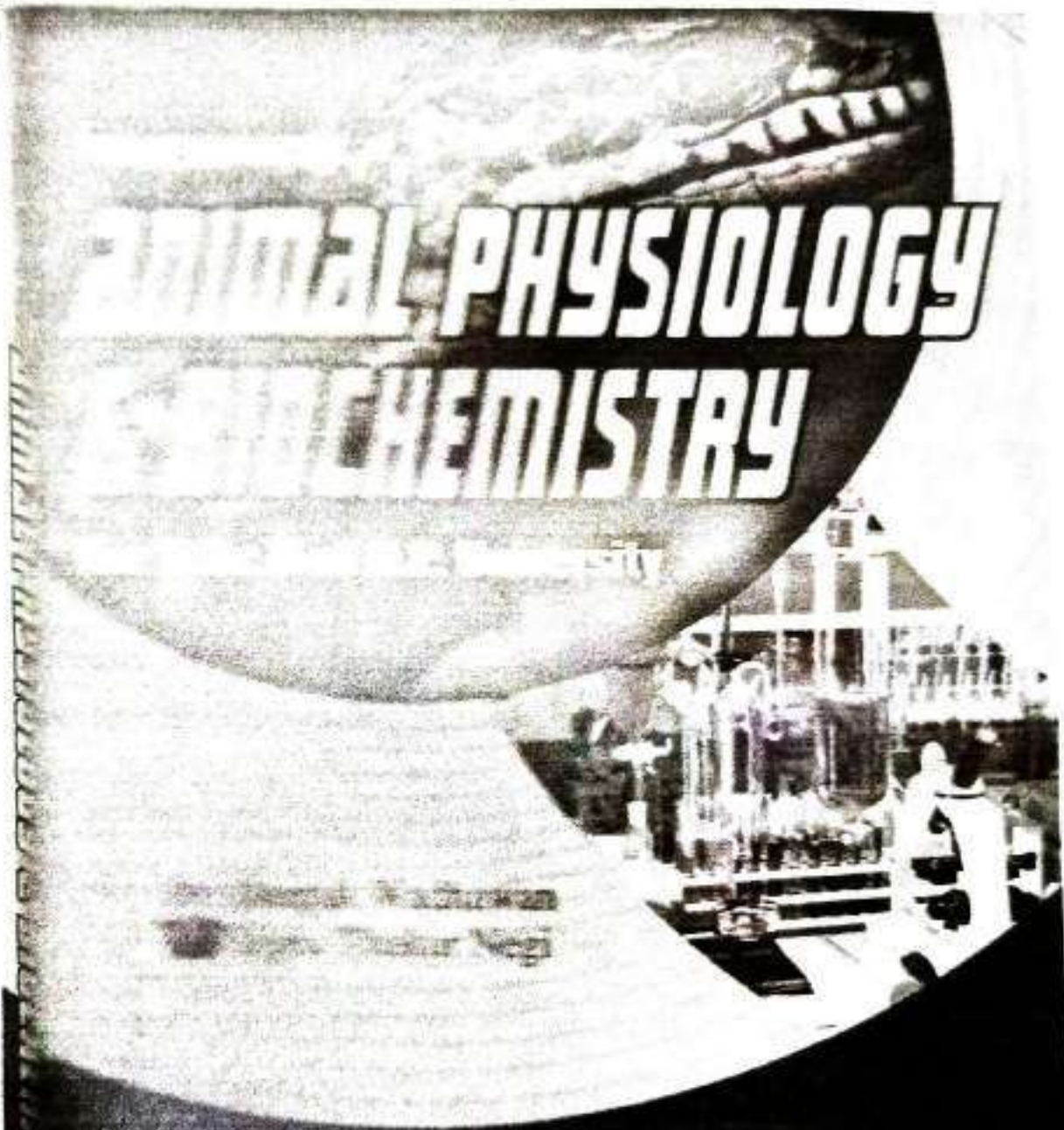
Yojana Thakur Negi
Assistant Professor
Deptt of Zoology



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Asstt. Prof. in Zoology
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Associate Professor,
Head, Deptt. of Commerce,
Govt. College Rampur Bushahr,
DISTT. SHIMLA (H.P.)

Dr. NEETIKA MAHAJAN

M.Com., M.Phil., UGC, NET, SET, Ph.D.
Assistant Professor,
Deptt. of Commerce,
MCM. D.A.V. College,
KANGRA (H.P.)

Dr. DEVEN MAHAJAN

M.Com., LLB, Ph.D.
Assistant Professor,
Deptt. of Commerce,
Govt. College Dehra,
DISTT. KANGRA (H.P.)

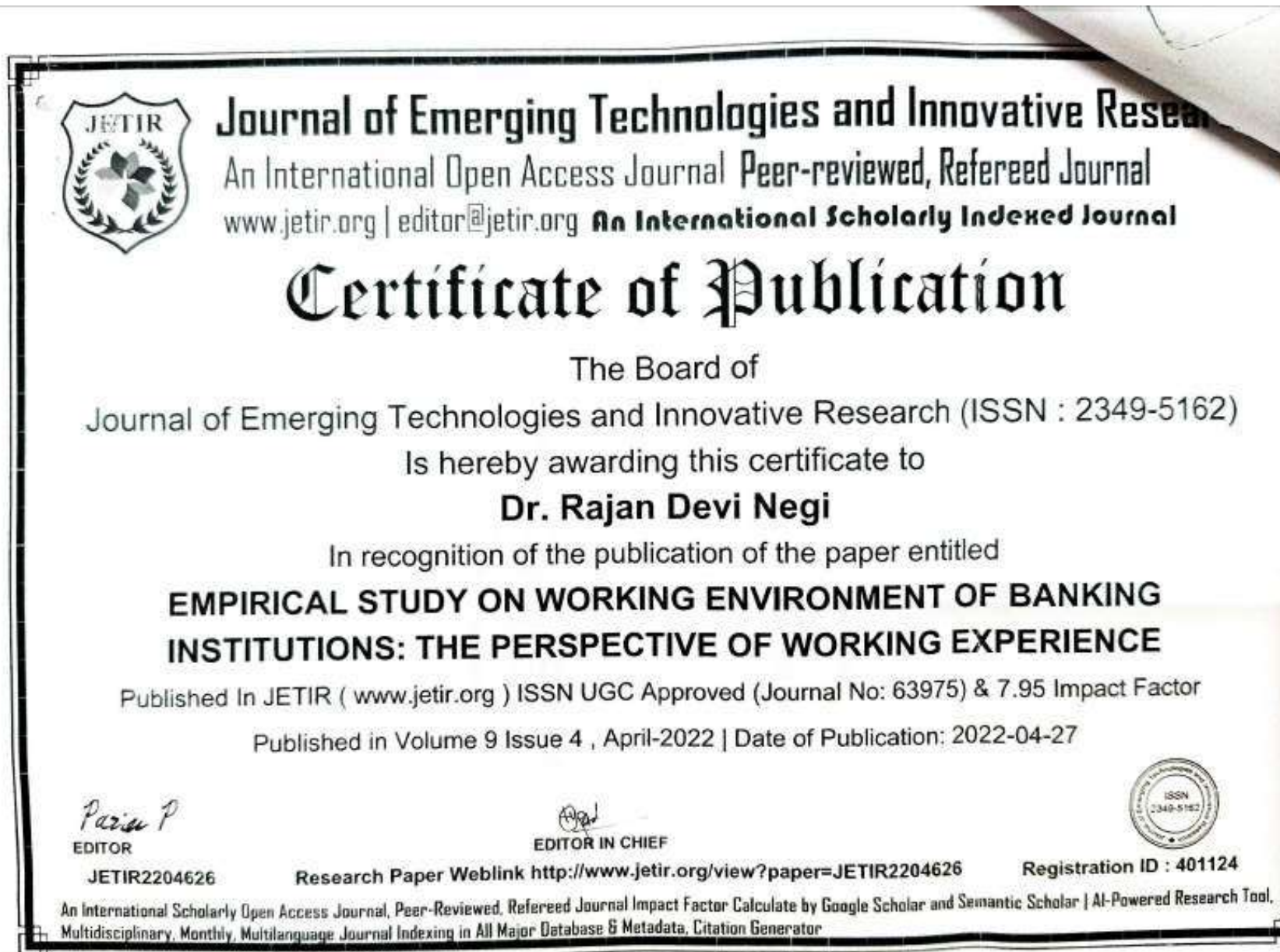
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Deptt. of Commerce,
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Dr. RAJAN DEVI NEGI
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 DEPARTMENT OF COMMERCE
 GOVERNMENT COLLEGE
 RAMPUR BUSHAHR

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Please accept my heartiest felicitations on very kindly sending your valuable article/research paper titled '**PERCEPTION OF BENEFICIARIES REGARDING ROLE AND BEHAVIOUR OF HIMACHAL PRADESH BACKWARD CLASSES FINANCE & DEVELOPMENT CORPORATION (HBCFDC)**' for publication in **Volume No. 13 (2022), Issue No. 3 (March)**

Our editorial board has highly appreciated your invaluable piece of research. The researchers and the academics have conveyed their views and its worth have been appreciated by one and all.

With sincerest regards and profuse thanks for your contribution.

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 has deep roots
 merit & aggressiveness
 in theory - merit suffices but
 not in practice
 neither merit nor
 aggressiveness alone avail
 They must be mixed in the
 right proportion
 The secret of success in life is
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We wish the participant all the best for future endeavours.


Dr Dhiraj S Rawat
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for various needs. They possess rich herbal medicinal knowledge which is an integral part of their lifestyle. The methodology comprised the interviews and discussions with the traditional healers and knowledgeable elder persons of the tribe. This study reveals the use of 10 important herbal medicinal plants belonging to 10 families. The documentation includes their scientific names, vernacular names, families, plant part/s used and mode of use. Roots (40%), leaves (20%) and rhizomes (20%) are mostly used plant parts in medicinal formulations. Use value (UV) and informant consensus factor (ICF) was also calculated to analyze the collected information. The study is aimed to document and conserve the traditional herbal medicinal knowledge of the Gaddis in the study area.

Keywords: Medicinal herbs, Gaddi tribe, Migratory shepherds, Use value.

ABS-114

Clenbuterol alleviates denervation induced oxidative stress in mouse gastrocnemius

Asha Garg

GB Pant Memorial Govt. College Rampur Bushahr, Shimla, Himachal Pradesh (172001)

Corresponding Author: gargasha78@gmail.com

Abstract

Clenbuterol, a β_2 agonist affects growth in a very specific way and is known to have muscle anabolic and lipolytic capabilities in addition to the clinical potency in reverting muscular atrophy. During the present study, loss of neural control to the *gastrocnemius* muscle of mice exhibited increase in the formation of thiobarbituric acid reactive species (TBARS) suggesting negative effects of loss of neural control. Increased level of oxidative stress was also expressed through increased TBARS concentration in the serum of denervated mice which however was alleviated by the treatment of β -agonist clenbuterol, as evident from significantly reduced TBARS levels. Denervated mice fed Butoxamine (β -antagonist) demonstrated larger accumulation of TBARS in the serum in comparison to denervated control, increase being maximal on day 7 whereas drug withdrawal led to decrease in the level of lipid peroxide formation by day 15 as compared to denervated control. Normal innervated animals given butoxamine show significantly elevated TBARS levels during all the experimental stages, indicating increased oxidative stress with β -antagonist administration thereby suggesting drug induced oxidative stress as already reported. Butoxamine and clenbuterol co treatment to denervated mice demonstrated neither any decrease nor any increase in the TBARS levels suggesting that butoxamine was able to suppress clenbuterol effects. Higher than normal levels of TBARS were observed in *gastrocnemius* of innervated mice receiving combined treatment of β -agonist and antagonist at all the experimental stages, hence suggesting drug induced oxidative stress thereby further confirming already reported fact that innervation status influences sensitivity of muscle to clenbuterol treatment. It may be hypothesized that increased lipid levels in the serum as a result of clenbuterol induced lipolysis make them more susceptible to the oxidant attack, leading to increased level of lipid peroxides in the serum as already documented by a number of researchers. Denervated and normal innervated animals given butoxamine showed elevated TBARS concentration during all the experimental stages hence indicating increased oxidative stress with β -antagonist administration, an unreported phenomenon in the past. Butoxamine and clenbuterol co administration to denervated and innervated control mice increased the TBARS levels considerably at all the stages indicating thereby that in the presence of neural regulation, β -agonist and antagonist augmented these effects further.

Key words: Mouse, Clenbuterol, Butoxamine, Denervation, *Gastrocnemius*, Oxidative stress.

ABS-115

Extraction of nanocellulose from rice straw and their application in industries

Renu Kamboj

Lovely Professional University, Phagwara, Punjab, India, 144411

Corresponding Author: renukambojj89@gmail.com

National Conference "Role of Science and Technology in Environmental Conservation and Sustainable Development" 23-24 Sept 2022, HP University, Shimla, HP

Abstract

The rice is abundantly grown crop in the world. The waste produced from rice crop is known as rice straw. Due to its negative impacts on environments, it remains unusable in the field. Thus its bad effect can be reduced by proper management. The main components of rice straw are lignin (5-24%), silica (7-20%), cellulose (32-47%) and hemicellulose (19-27%). Among of these, cellulose is the main element of rice straw. It is most significant biopolymer used in numerous fields for many applications such as medical, food, packaging, animal feed, and cosmetics. It is biocompatible, biodegradable, biodegradable, and sustainable in nature. The cellulose is tightly bind hydrogen bonds in the cell walls which is an arrangement of microfibrils of various millimeters length and nanometers in diameter. The acid hydrolysis technique was used to extract cellulose content from the rice straw which was treated with 12% NaOH and 5% NaClO₂ with the combination of 60°C temperature. Approximately 87% of cellulose yield was found. Further the cellulose content was converted into nanocellulose using 80% citric acid. The results revealed that, a good nanocellulose yield with 80% was found. The functional group and surface morphology of cellulose and nanocellulose were confirmed using FTIR and SEM. Thus, the extracted nanocellulose can be appropriate for the utilization of different applications across the world such as packaging, medical and cosmetic industries.



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Editors
Dr. Shikha Anand
Dr. Neetu
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HUMAN RIGHTS IN ASOKAN EDICTS

**Vipan Sharma **Bajinder Singh*

**Assistant Professor (History), G. B. Pant Memorial Govt. College, Rampur Bushahr, Shimla, H.P.*

***Assistant Professor (History), Guru Nanak College, Ferozpur Cantt. Ph*

ABSTRACT

Asoka was one of the greatest Kings of the world. During his reign, he made many proclamations, which are well known as "Edicts of the Asoka". His royal proclamations are engraved on rocks and stone pillars. Though, he calls these "Dhamma Lipi" we can see many traces of human rights in these. Some of these proclamations are about the right behavior towards elders, younger, slaves, and war prisoners. These proclamations are one of the earliest recorded documents on Humanistic values. My article revolves around these edicts and their importance in the present era.

Keywords: *Edicts, proclamation, human rights, inscription, humanistic values.*

Asoka the third emperor of the Mauryan Dynasty ruled India from his capital at Pataliputra (Nowadays Patna, in Bihar). He ruled from c. 268 BCE to c. 232 BCE. He was the son of Bindusara and grandson of the first Mauryan Emperor Chandragupta Maurya. The sources of information about his reign are mainly Buddhist texts and his edicts. Emperor Asoka is well known for his life-changing event of the Kalinga War in c. 260 BCE. The remorse he feels after this war is mentioned in his Rock Edicts thirteen. In this war one hundred and fifty thousand men were carried away, one hundred thousand men were slain and nearly the same number died.¹ After this war, he leaves the course of the war and adopts the course of dharma.

The inscriptions of Asoka have been found in various parts of India except for the extreme south and northeast. These are written on rocks, pillars, and cave walls. These inscriptions are found in Prayagraj, Bairat, Barabar, Brahmagiri, Topara and Meerut (Nowadays in Delhi), Dhauli, Gavimath, Mirnar, Gujjarra, Jating Rameshwar, Jaugara, Kalsi, Lauriya-Airaj, Lauriya-Nandangarh, Lumbini, Mansehra, Maski, Neegalisagar, Palkigundu, Rajula-Mandagiri, Rampurva, Rupnath, Sahasram, Sanchi, Sarnath, Shahbazgarhi, Siddhapura, Sopara, and Yerraguddi.²



Figure 1. Location of Asokan Inscriptions.

Credit: https://en.wikipedia.org/wiki/Edicts_of_Ashoka, Accessed on 12.04.2023.



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We wish the participant all the best for future endeavours.


Dr. Dhirendra S. Rawat
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RESEARCH ARTICLE

WILEY

Differential distribution of macroinvertebrate associated with water quality

Yojana Thakur^{1,4} | Aseem Grover³ | Reshma Sinha⁴ 

¹Government Degree College, Shimla, H.P., India

²School of Biological and Environmental Sciences, Shoolini University, Solan, India

³Department of Forensic Science, Amity School of Applied Sciences, Amity University, Panchgaur, Haryana, India

⁴Department of Animal Science, School of Life Sciences, Central University of Himachal Pradesh, Kangra, India

Correspondence

Reshma Sinha, Department of Animal Science, School of Life Sciences, Central University of Himachal Pradesh, Kangra 176206, India.

Email: sinhareshma89@gmail.com

Abstract

Streams and rivers are the major source of drinking water and irrigation in many developing countries. Stream health is a major criterion and regulator of the health of its dependents (invertebrates, aquatic flora, fishes, animals, and humans). For the sustenance of a balanced ecosystem, a mutual existence between flora and fauna along with other abiotic factors is a prerequisite. Benthic fauna lying on the riverbed serves as a food source for fish, larger insects, birds, etc. Nowadays, most freshwater bodies are getting polluted through various anthropogenic activities like mining, land-use practices (fertilizers and insecticides), industrial effluent, and sewage inlet. Due to the water contamination, there have been observed changes in the physicochemical parameters of the water. The macroinvertebrate species being sensitive to these changes play an important role not only in determining the health of the water body but also in regulating the ecosystem. After review, it was observed that order like Diptera dominated in various locations, comprising of family Ceratopogonidae and Chironomidae, followed by order Trichoptera and Coleoptera. Species belonging to family Baetidae and Chironomidae possess pollution tolerance capabilities; additionally, these species can survive at a wide range of temperatures. Species from families such as Simuliidae showed their existence at varying water velocities.

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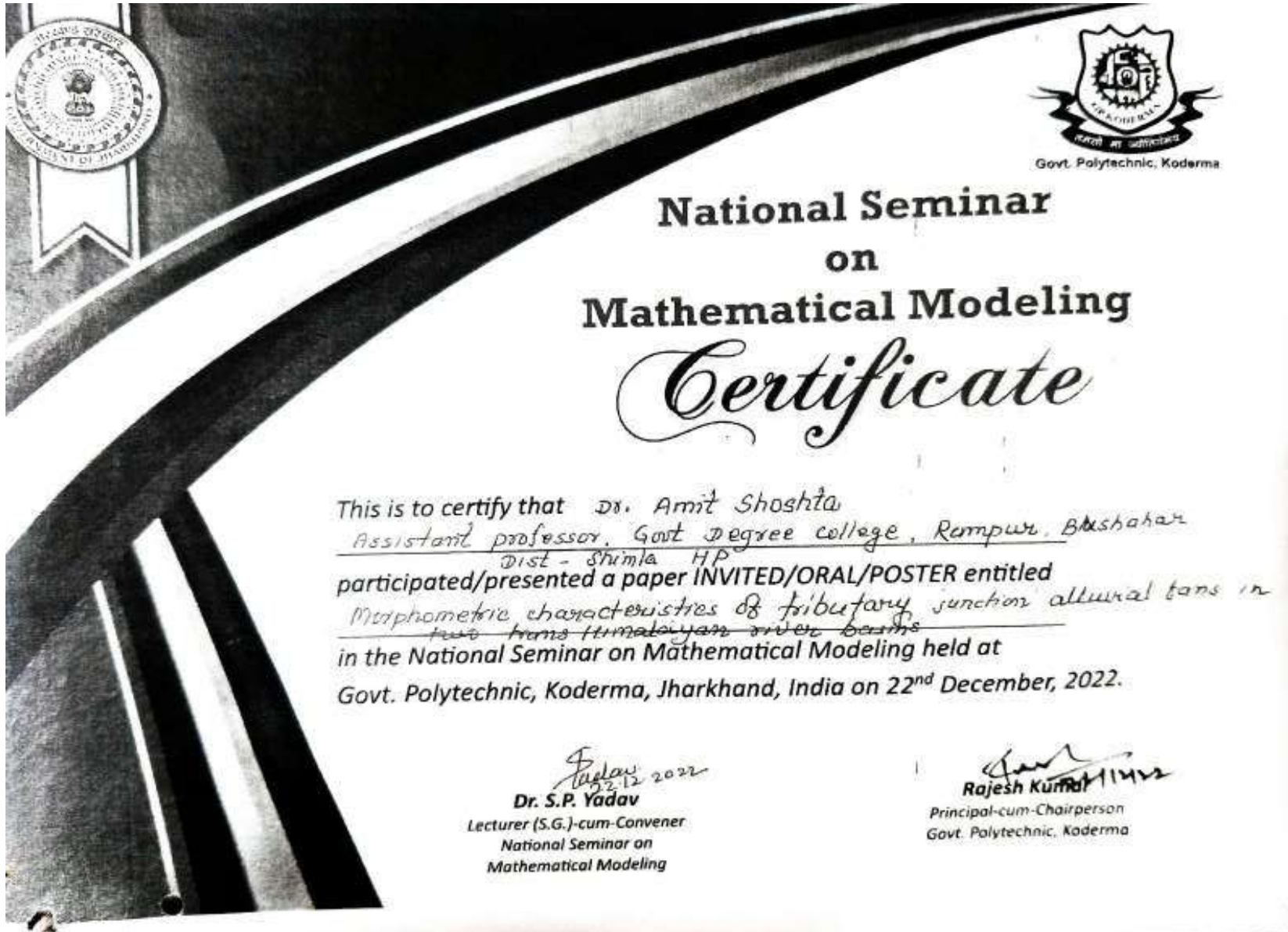


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Annexure 29



Morphometric characteristics of tributary junction alluvial fans in two trans Himalayan river basins: A comparative study

Amit Shoshta¹, Savita Negi² and Anoop Ditta³

1. Assistant Professor, Govt. Degree College Rampur Bushahr, Himachal Pradesh, 172001
2. Assistant Professor, Govt. Degree College Rampur Bushahr, Himachal Pradesh, 172001
3. Assistant Professor, St. Bede's College Nav Vihar, Shimla- 171002.

Abstract Morphometric characteristics of landforms not only reflect the relative stage of their development, but also act as objective method of comparing landforms of different regions. Studies dealing with characteristics of tributary junction fans are rather lesser in number, and comparative studies dealing with more than one basin are even lesser. Therefore, this work is an attempt to compare morphometric characteristics of two trans-Himalayan river basins namely, Parechu and Lingti. Trans-Himalayan region is conducive for the study of tributary junction fans because here these landforms are least disturbed as well as devoid of vegetation. Source of data for this work was a combination of topographical maps, DEM, Google Earth and Bhuvan imageries of study area as well as field survey. Fan area (A_f), basin area (A_b), fan slope (S_f), Melton's ruggedness number for contributing basin (M) and other parameters were calculated for each fan-basin, and conventional regression analyses were performed to find degree of correlation between different parameters. Results of this study reveal that tributary junction fans of Lingti valley are steeper and smaller in comparison to their counterparts of Parechu valley. However, for both the basins, there exists an isometric relationship between fan-slope (S_f) and Melton's ruggedness number (M). Study suggests that confinement offered by the topography is the most important reason for difference in fan characteristics. Fans situated at narrow and confined sites are smaller and steeper, whereas, fans situated at unconfined and open sites are larger in size and gentler in slope.

Key words: Tributary junction alluvial fans, Parechu and Lingti Valleys, morphometry, topographic confinement, Trans-Himalaya.

Annexure 30

ABS-46

Medicinal properties and seed germination behaviour of *Withania somnifera*- "a wonder herb"

Anita Kumari

Department of Botany, Government College, Rampur Bushahr, Shimla (H.P.)

*Corresponding author: ak7912053@gmail.com

Abstract

Withania somnifera, commonly known as Ashwagandha, Asandh, Indian ginseng or winter cherry is a highly acclaimed medicinal plant used in Ayurveda, Unani and traditional health care systems for the treatment of diverse ailments that affect human health. The genus belongs to family Solanaceae and is an evergreen shrub reaching height upto 150 cms. The plant is commonly found to grow in drier regions upto an elevation of 1700 mts. It is considered as an excellent rejuvenator and is used for treating asthma, impotence, nervous disorders, diabetes and insomnia. Leaves and roots of the plant are known to possess antibiotic and aphrodisiac properties and owing to these properties the genus is also known as "wonder herb." Review of literature reveals that *W. somnifera* possess poor germination rates. So, there is an urgent need to study on germination aspect of this plant. In order to have better germination and seedling quality parameters of ashwagandha, it is necessary to conduct germination treatments for breaking the dormancy. In the present study, several chemical and hormonal treatments were used to enhance growth parameters of *Withania* out of which proline 1mM

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proved to be highly effective. Rate of seed germination in *W. somnifera* is also found to vary in different varieties and locations.

Keywords: *Withania somnifera*, medicinal plant, health



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This is to certify that Dr/Mr/Ms **Anita Kumari**, Assistant Professor, Department of Botany, G. C. Rampur Bsr has presented research paper entitled **Medicinal Properties and Seed Germination Behaviour of *Withania somnifera*- "a Wonder Herb"** under oral/poster category in the National Conference on "Role of Science & Technology in Environmental Conservation and Sustainable Development" organized by Department of Biosciences, Himachal Pradesh University, Shimla (Himachal Pradesh) held on September 23-24, 2022.

We wish the participant all the best for future endeavours.


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