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Criterion 6.3.2

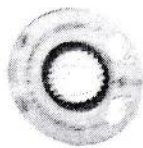
Certificates of Participation 2018-19



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Bareilly, U.P.-243123

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71st ALL INDIA COMMERCE CONFERENCE

(Annual Conference of the Indian Commerce Association)

20 - 22 December 2018

Organized by DEPARTMENT OF COMMERCE, Osmania University, Hyderabad, Telangana, India



CERTIFICATE OF PARTICIPATION



This is to certify that Prof. / Dr. / Mr. / Ms. **Ahmedy Thandi**

of **Invetis University, Bareilly**

has participated in the

71st All India Commerce Conference organized by the Department of Commerce, Osmania University,

Hyderabad from 20th to 22nd December, 2018.

Signature

Signature

Signature

Prof. S.

Prof. Narendra Kumar
Secretary
Indian Commerce Association

Prof. H. Venkateshwarlu
Conference Secretary
71st AIC Conference

Indian Commerce Association

Prof. Prashanta Athma
Organising Secretary
71st AIC Conference

Signature

Registrar
Invetis University
Bareilly



Conference World

www.conferenceworld.in

4th International Conference on Research Developments in Applied Science, Engineering & Management

AEM'18

ISBN : 978-93-87793-55-2

This certificate acknowledges and honours

Prof./Dr./Mr./Ms. Dheeraj Gandhi

for participating & presenting his/her paper on

Prospects and Challenges of Spiritual Tourism in India and its impact on Economy

in

*International Conference on Research Developments in
Applied Science, Engineering & Management*

Held on 03rd November 2018 at

IEI

Institution of Engineers, Chandigarh, India



[Signature]

[Signature]

[Signature]

Conference World Team Wishes All the Best for your Bright Future

CH-802

Amanpreet Singh

Conference Convenor

Dr. K. C Gupta

Editor Conference World

Registrar

Parvatis University

Barreilly



NATIONAL SEMINAR ON VOTER'S EDUCATION AND AWARENESS: BEDROCK OF A STRONG DEMOCRATIC INDIA

08 - 09 December 2018

Sponsored by
Department of Higher Education Govt. of Uttar Pradesh

Organized by

Management School and Centre for Studies in Governance, Invertis University - Bareilly

Affiliated to All India Council of Technical Education, New Delhi

NAAC Accredited Grade A

CERTIFICATE

Presented to

DR. A. PRASANTH

Management

INVERTIS UNIVERSITY, BAREILLY

A KEY TO INCREASED VOTER TURNOUT

PROF.

BSE
INSTITUTE LIMITED

Certificate of Participation

This is to certify that Dheeraj Gandhi has participated
in the workshop "Introduction to Financial Markets" conducted by BSE Institute
Limited on 28th March 2019 at Mumbai, India.

Barthol
Registrar
Invertis University
Bareilly

VKZ
HEAD ACADEMICS & PRODUCT DEVELOPMENT
BSE INSTITUTE LIMITED



Indian Institute of Management Indore

Certificate of Participation

This is to certify that the paper titled

INFORMAL BANKING OF BANKED RURAL HOUSEHOLDS

authored by

RAJEEV BHANDARI

was presented at the

10th Conference on Excellence in Research and Education (CERE 2019) held at

Indian Institute of Management Indore from May 03-05, 2019.

Professor Sushanta Kumar Mishra
Faculty Coordinator, CERE 2019

Registrar
Invertis University
Bareilly
Bareilly

Ms. Garima Goel, Mr. Arvind Shroff
Student Coordinators

Arvind Shroff

Registrar
Invertis University
Bareilly
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*4th International Conference on
Research Developments in Applied Science,
Engineering & Management*



www.conferenceworld.in

AEM'18

ISBN : 978-93-87793-55-2

This certificate acknowledges and honours

Prof./Dr./Mr./Ms. Tarun Gupta

for participating & presenting his/her paper on

Prospects and Challenges of Spiritual Tourism in India and its impact on Economy

in

*4th International Conference on Research Developments in
Applied Science, Engineering & Management*

Held on 03rd November 2018 at

Institution of Engineers, Chandigarh, India



IEI

Conference World Team Wishes All the Best for your Bright Future

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Amanpreet Singh

Conference Convener

Dr. K. C Gupta

Editor Conference World

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Certificate of Participation

This is to certify that Shweta has participated
in the workshop "Introduction to Financial Markets" conducted by BSE Institute
Limited on 28th March 2019 at Mumbai, India.



HEAD ACADEMICS & PRODUCT DEVELOPMENT
BSE INSTITUTE LIMITED

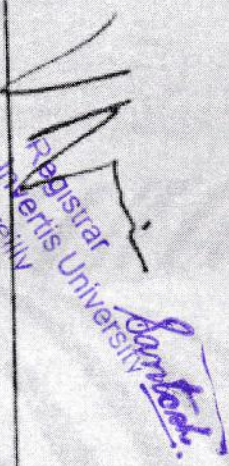
Witnessed by
Invertis University
Bareilly

Bareilly

BSE
INSTITUTE LIMITED

Certificate of Participation

This is to certify that Mamohan Bansal has participated
in the workshop "Introduction to Financial Markets" conducted by BSE Institute
Limited on 28th March 2019 at Mumbai, India.


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BSE INSTITUTE LIMITED



UTTARAKHAND COUNCIL FOR BIOTECHNOLOGY (UCB)

Biotech Bhawan, Haldi-263146, U.S. Nagar, Uttarakhand

HANDS ON TRAINING CUM SEMINAR

USE OF HYDROPONIC TECHNIQUES IN CROPS (VEGETABLE) PRODUCTION IN UTTARAKHAND

Certificate of Appreciation

This is to certify that Mr./Ms./Sh./Dr. MANALI SINGH (G.B.P.U. ALT)
PANT NAGAR has participated in Hands on Training cum Seminar on "Use Of
Hydroponic Techniques In Crops (Vegetable) Production In Uttarakhand" on 28 to 29 May, 2018 at
Uttarakhand Council for Biotechnology, Biotech Bhawan, Haldi, U. S. Nagar, Uttarakhand.

Dr. Sumit Purohit
Scientific Officer, UCB

Registrar
Invertis University
Bareilly

Sanjay

Dr. M.K. Nautiyal
Director, UCB

उत्तराखण्ड शासन





NATIONAL CONFERENCE

on

"Impact of Biotechnology in Agriculture and Environment"

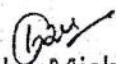
Organized by

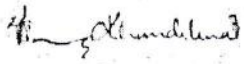
Department of Biotechnology

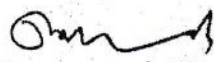
Award Certificate



This is to certify that the Oral/Poster presented by Dr/Mr/Ms. Manali Singh on Isolation and Quantification of withanolide A: A pharmacologically active Ingredient of Withania somnifera and has won First Prize. on the occasion of National conference on "Impact of Biotechnology in Agriculture & Environment" organized by Department of Biotechnology" on 17 February 2018 at Khandelwal College of Management Science and Technology, Bareilly.


Dr. Nisha Mishra
Convenor


Dr. Vinay Khandelwal
Executive Director


Dr. Amresh Kumar
Director General



Governing
Ministry of Science and T
Department of Science and T
Technical Bhavan, New Meh
New Del

5th Internat

“Challenges and Op
for Sustai

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Santosh

5th

College of Computing Sciences & Information Technology
Teerthanker Mahaveer University, Moradabad, India





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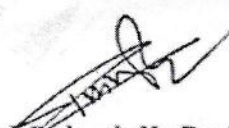


This is to certify that Dr/ Mr/Ms Mohammed Shazeel
from Invertis University has participated in one week
Faculty Development Program on
Network Simulation and Data Security (NSDS-2018)

from Aug 6, 2018 to Aug 10, 2018 organized by CCSIT, TMU


E. Namit Gupta
Coordinator


Dr D K Lobiyal
Prof & Dean, JNU New Delhi


Prof. (Dr.) Rakesh Kr Dwivedi
Principal, CCSIT, TMU


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Santosh



गुरुकुल काँगड़ी विश्वविद्यालय, हरिद्वार, उत्तराखण्ड
(यूजीसी 1956 के सेक्शन 3 के अन्तर्गत सम विश्वविद्यालय)

Gurukula Kangri Vishwavidyalaya, Haridwar, Uttarakhand

(Deemed to be University u/s 3 of UGC Act 1956)
"Accredited by NAAC with A Grade"




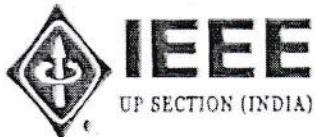
Two Days Workshop
on
WordPress and SEO
(Learn, Design & Rank your Website/Blogs)
15-16 February, 2019

Certificate of Participation

This is to certify that Prof./ Dr./ Ms./ Mr. Titimsha Kumar Chaudhary of Invertis University Bareilly (U.P.) has participated intensively in Two Days Workshop entitled WordPress & Search Engine Optimization (SEO) at Department of Computer Science, Gurukula Kangri Vishwavidyalaya, Haridwar (Uttarakhand) on 15-16 February, 2019 and obtained Grade...A.....


Prof. Vivek Kumar
Convenor


Dr. Shwetank
Organizing Secretary



**International Conference
on
Recent Innovation in
Management, Engineering, Science and Technology**

This Certificate acknowledges and honours

Prof./Dr./Mr./Ms. Ashish

for participating & presenting his/her paper titled

Finding The Best Key For Playfair Cipher By Using Genetic Algorithm

in

International Conference on Recent Innovation in Management, Engineering, Science and Technology

organized by Rajshree Institute of Management & Technology, Bareilly (U.P.) India

on January 28 - 29, 2018



Conference Team Wishes
All the Best for your Future

Dr. Anil Kumar
Chairman RIMEST 2018

Dr. Saket Agarwal
Vice Chairman RIMEST 2018

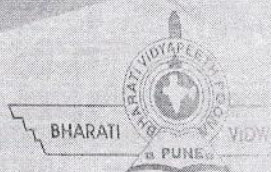
Dr. Raveesh Agarwal
Convener RIMEST 2018

Dr. A. K. Sharma
Editor Conference World
RIMEST :

Santosh
Bareilly University
Bareilly

Ref. No.:BV/ICAM/ND/24-122/2017-2018

16/03/2018



**Bharati Vidyapeeth's Institute of Computer Applications
and Management (BVICAM) New Delhi**



12th INDIACom; 2018 5th International Conference on

Computing for Sustainable Global Development

INDIACom - 2018

IEEE Conference ID: 42835

(14th - 16th March, 2018)



CSI Delhi Chapter



ISTE, Delhi Section

This is to certify that Prof. / Dr. / Mr. / Ms. Meeta Gupta of
Jaypee Instt. of Info. Technology has attended/contributed/ presented a paper entitled
Improving Performance of AES Encryption Algorithm in Wireless Sensor Networks during INDIACom-2018;
12th INDIACom; 2018 5th International Conference on "Computing for Sustainable Global
Development" organised by BVICAM, New Delhi.

(Prof. A. K. Saini)
Conference Chair



(Prof. M. N. Hoda)
General Chair

International Seminar
Advanced Computing Technologies

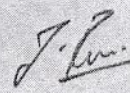
ACT2018

Organised by : DEPARTMENT OF COMPUTER APPLICATIONS


20th-21st April, 2018

Certificate

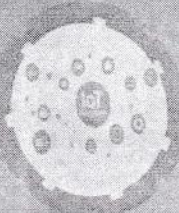
This is to certify that Prof./Dr./Mr./Ms. Meeta Chaudhary
of organisation Invertis University, Bareilly participated/attended in the
International Seminar on "Advanced Computing Technologies (ACT2018)" during
April 20th-21st, 2018 and presented a paper, entitled Classification of
Data Oriented Clustering Techniques in Wireless sensor Network.



Prof. Jagdish Rai
Vice-Chancellor



Dr Anand Kr. Shukla
Convener




National Conference on
Internet, of Things
IoT 2018



Certificate

This is to certify that Mr./Ms./Dr./Prof. Meeta Chandra
had attended/presented paper on "Survey of Hybrid Clustering Techniques Based on K-means Algorithm"
in **IoT 2018**, National Conference on "Internet of Things- Recent Trends and Issues"
held on 28th & 29th September, 2018.


Prof. R.K. Shukla
Dean Engineering

Organized by:
Department of Computer Science & Engineering
INVERTIS UNIVERSITY, BAREILLY
Ph. - 0591-2450443, 3041100
Email - iot2018@invertisuniversity.org
Website - invertisuniversity.org


Registrar
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Bareilly
Mr. Anil Kumar Pandey
Convener



IEEE International Conference on
Advances in Computing, Communication
Control & Networking, 2018

(IEEE Conf. Record No. #43907)

Certificate

OF PRESENTATION

This is to certify that Prof/Dr/Mr/Ms SHIMONA GUPTA of
BANASTHALI VIDYAPITH, RAJASTHAN has presented a paper titled
Character Recognition and Speech Synthesis using Adaptive Neuro Fuzzy Inference System
at IEEE International Conference on Advances in Computing, Communication Control and Networking
(technically co-sponsored by IEEE UP Section) organised by Dept. of CSE, IT and MCA,
Galgotias College Of Engineering and Technology, Greater Noida, Uttar Pradesh, India
on 12-13th October 2018.

Dr. Vishnu Sharma
Convener & Conf. Organising Chair



GALGOTIAS
EDUCATIONAL INSTITUTIONS



IEEE

Dr. V.K. Dwivedi
Conf. General Chair & Director GCET



Madan Mohan Malaviya University of Technology,
Gorakhpur (U.P.) India

Certificate

National Conference on
Advanced Computational Science and Technology (NCACT-2016)

4 5 March 2016

It is to certify that Prof./Dr./Mr./Ms. Shimona Gupta
from IET, MJP Rohilkhand University, Bareilly, India
has participated/contributed/presented a paper titled Face Segmentation using Morphological
Operations in MATLAB
co-authored by Sakshi Gupta, Anil Kumar Bisht, Ravindra Singh
in a national conference on "Advanced Computational Science and Technology" (NCACT-2016) organized by
Department of Computer Science & Engineering, Madan Mohan Malaviya University of Technology, Gorakhpur (U.P.)

Udai Shankar
Chairman

A.K. Daniel
Convener

Shiva Prakash
Organizing Secretary

NATCOM-2019



SRMS

5th NATIONAL
CONFERENCE



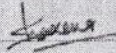
Contemporary Research in Green Computing (CRGC-2019)


Sponsored By :

DR.A.P.J Abdul Kalam Technical University, Lucknow

Certificate of Participation

This is certified that Prof./Dr./Mr./Ms. SHIMONA GUPTA of
SRMSCET&R has presented/contributed paper titled
PACIAL FEATURE EXTRACTION FOR
PACIAL EXPRESSION RECOGNITION in National Conference on "Contemporary Research in Green
Computing (CRGC-2019)" held on 9th March, 2019 organized by Department of Computer Science & Engineering,
SRMSCET&R, Bareilly.


Er. Shailesh Saxena
Convener


Dr. Rajesh Tyagi
Conference Director

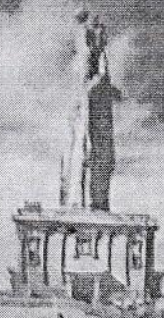
Santosh
Registrar
Veris University
Bareilly



ICACSB 2019

INTERNATIONAL CONFERENCE
ON ADVANCED CHEMICAL AND
STRUCTURAL BIOLOGY

19-21 February 2019 | Thanjavur, India



Certificate

This is to certify that Dr/Mr/Ms MISHRA R of
Babasaheb Bhimrao Ambedkar University, Lucknow

has participated as a poster presenter in the International Conference on Advanced
Chemical and Structural Biology from February 19-21, 2019 Organized by
PRIST Deemed to be University, Thanjavur.

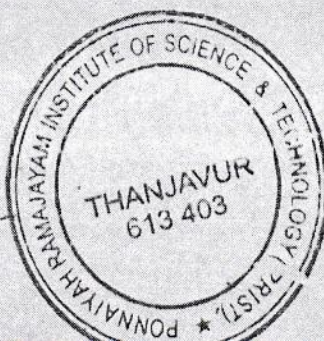
Handwritten signature in blue ink.

Registrar
Invertis University
Bareilly

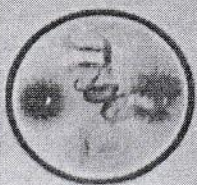
Presented Poster Title:

Illustrating Binding Mechanism of DNA Minor Groove Binders using
Computational Approaches

Handwritten signature of the Converter.
Converter, ICACSB



Handwritten signature of the Vice Chancellor.
Vice Chancellor



ICRAS-2019

March 1-2, 2019

3rd
International Conference

ON

Recent Advances in Science

Certificate

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UNIVERSITY BAREILLY

In association with



SST

This is to certify that Prof./Dr./Mr./Ms. *D. Subramanyam*
from *Department of applied science & humanities, Invertis University*
has participated in 3rd International Conference on "Recent Advances in Science"
(ICRAS-2019) held at Faculty of Science, Invertis University, Bareilly during
March 1 - 2, 2019.

Faculty of Science

INVERTIS UNIVERSITY, BAREILLY

Barbareilly Road, N-14, Bareilly-221003, U.P.
Distt: 226001, 143. Tel: 0581 2460454

E-mail: icras@invertis.org
Website: www.invertisuniversity.org

Prof. P.P. Singh
Dean, Faculty of Science

Kamlesh
Kamlesh Kr. Sharma
Convener



NEHRU GRAM

DGACON 2018

NATIONAL CONFERENCE

ON
DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS

August 03-05, 2018

Dedicated to the Birth Centenary
of Padmashree Late Prof. Ratan Shankar Mishra
Organized by
Department of Mathematics, Nehru Gram Bharati
(Deemed To Be University), Allahabad-211005, U.P. Indian

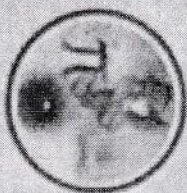
*This is to certify that... Dr. K.K. Subbarao, Inverittis... University... Bareilly...
Participated in the National Conference on Differential Geometry and its Application
held at Nehru Gram Bharati (Deemed to be University) during August 03 - 05, 2018
and delivered invited lecture / Chaired a session / Presented a Paper
Title of the Invited Lecture/ Paper: "Geometrical Aspects of Some Harmonic Curves in
Lagrange Space Associated with a Complex Finsler Space"
Prof. P. S. Pandi*

*Ganga Prasad
Dr. Ganga Prasad Yadav*

*Bareilly
Inverittis University
Bareilly
Bareilly*

File of Dr. K.K. Subbarao

4.9.18



ICRAS-2019
March 1-2, 2019

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UNIVERSITY BAREILLY

In association with

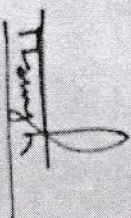



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E-mail : invertis@invertis.org
Website : www.invertisuniversity.ac.in

3rd International Conference on **Recent Advances in Science**

Certificate of Appreciation

This certificate is awarded to Dr. Kamlesh Kumar Sharma, Assistant Professor (Physics), Faculty of Science, in recognition to his valuable contribution as a Convener in 3rd International Conference on Recent Advances in Science (ICRAS-2019) held on March 1-2, 2019 at Invertis University, Bareilly (UP), India.

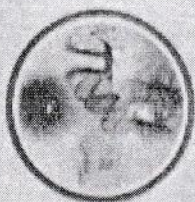

Prof. P.P. Singh
Dean, Faculty of Science


Prof. (Dr.) YDS Arya
Vice-Chancellor



Registrar
Invertis University
Bareilly





ICRAS-2019

March 1-2, 2019

INVERTIS
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SSD

Organized by

Faculty of Science
INVERTIS UNIVERSITY, BAREILLY

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E-mail : kvu@invertis.org

Website : www.invertisuniversity.ac.in

3rd
International Conference

on

Recent Advances in Science

Certificate

This is to certify that Prof/D^y/Mr/Ms. *Kamlesh Kumar Sharma* has presented a paper in Oral/Poster Session in 3rd International Conference on Recent Advances in Science (ICRAS-2019) held on March 1-2, 2019 at Invertis University, Bareilly (UP), India.

His/her topic of presentation was *down assisted inelastic scattering of photon with noble gas atoms*

Prof. P.P. Singh
Dean, Faculty of Science

Kamlesh
Invertis University
Bareilly

Dr. Kamlesh Kr Sharma
Convenor



ICRAS-2019
March 1-2, 2019

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E-mail: invt@invertis.org
Website: www.invtuniversity.ac.in

3rd International Conference on Recent Advances in Science

Certificate

This is to certify that Prof./Dr./Mr./Ms. Suldeep Chauhan
has presented a paper in Oral/Poster Session in 3rd International Conference on
Recent Advances in Science (ICRAS-2019) held on March 1-2, 2019 at Invertis
University, Bareilly (UP), India.

His/her topic of presentation was Exploration of the activity of
moxifloxacin drug derivatives against resistant strain
of Staphylococcus aureus.

Prof. P.P. Singh
Dean, Faculty of Science

Dr. Kamlesh Kr Sharma
Convenor



ICRAS-2019
March 1-2, 2019

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E-mail: invt@invertis.org
Website: www.invtuniversity.ac.in

3rd International Conference on Recent Advances in Science

Certificate

This is to certify that Prof./Dr./Mr./Ms. Suldeep Chauhan
has presented a paper in Oral/Poster Session in 3rd International Conference on
Recent Advances in Science (ICRAS-2019) held on March 1-2, 2019 at Invertis
University, Bareilly (UP), India.

His/her topic of presentation was Synthesis and biological
activity of pyrazine derivatives

Prof. P.P. Singh
Dean, Faculty of Science

Dr. Kamlesh Kr Sharma
Convenor

Registrar
Invertis University
Bareilly



ICRAS-2019
March 1-2, 2019

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Website : www.invertisuniversity.ac.in

3rd International Conference
on
Recent Advances in Science

Certificate

This is to certify that Prof./Dr./Mr./Ms. Shivani Shukla
from Department of applied science & humanities, Invertis University
has participated in 3rd International Conference on "Recent Advances in Science"
(ICRAS-2019) held at Faculty of Science, Invertis University, Bareilly during
March 1 - 2, 2019.

Prof. P.P. Singh
Dean, Faculty of Science

Dr. Kamlesh Kr. Sharma
Convenor

Santosh.

Registrar
Invertis University
Bareilly



Indian Society for ElectroAnalytical Chemistry
(Reg. No. MAH/MUM/1173/2006 GBBSD)
Bhabha Atomic Research Centre, Mumbai - 400085



Life-Membership Certificate

President

Dr. P. D. Naik

Vice President
(Head Quarter)

Dr. S. K. Ghosh

Vice President
(Outstation)

Dr. K. Girish Kumar

Secretary

Dr. A. K. Satpati

Treasurer

Dr. V. T. Aher

Members

Dr. P. K. Pujari

Dr. S. K. Aggarwal

Dr. Saurav K. Guin

Mr. A. Ambolikar

Dr. Nagaraj Shetti

Dr. VidyaChakrapani
(Overseas)

Dr. Jitendra Kumar

Dr. M. K. Dey

Dr. D. Alamelu

Dr. S. Vasudevan

Dr. B. R. Sathe

Dear Dr. D. Arumugam,

It is our immense pleasure to inform you that the Executive Committee of Indian Society for ElectroAnalytical Chemistry (ISEAC) has accepted your application for life-membership in ISEAC.

Your life membership number is LM119

You are requested to participate in different activities of the society for its growth. We wish that you will promote ISEAC in the sphere of your influences. Please be updated with us at www.iseac.org.in.

P. D. Naik

A. K. Satpati

To,

Full Name: Dr. D. Arumugam

Affiliation: Assistant Professor (Chemistry), Department of Applied Science and Humanities, INVERTIS UNIVERSITY, Bareilly-Luknow, National Highway-24, Bareilly - 243123, Uttar Pradesh.

Email Address: arumugam@invertis.org

Sanford

Registrar
Invertis University
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Address of Correspondence: Analytical Chemistry Division, 3rd Floor, Modular Labs, Bhabha Atomic Research Centre, Mumbai – 400085, India

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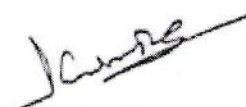
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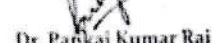
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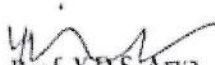
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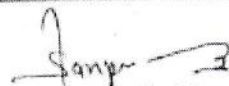
presented to


Dr. Neetika Mishra

for the paper entitled

Discovery of Novel Soluble Epoxide Hydrolase
Inhibitors as Potent Vasodilators


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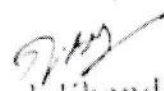
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**TO STUDY THE EFFECT OF ALOE VERA GEL ON THE DRUG
RELEASE OF CAPSAICIN**Karishma Singh^{*1}, Ajit Kumar Yadav² and Shashwat Garg²¹Department of Pharmacy, MJP Rohilkhand University, Bareilly-243006, India.²Institute of Pharmacy, Invertis University, Bareilly.Article Received on
25 March 2019,Revised on 16 April 2019,
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***Corresponding Author**

Karishma Singh

Department of pharmacy,

MJP Rohilkhand University,

Bareilly-243006, India.

ABSTRACT

The objective of the study is to provide the drug release profile of Plain Capsaicin and Capsaicin with Aloe gel. In-vitro drug release profile showed that Capsaicin with Aloe gel improves the release profile of capsaicin as compared to Plain capsaicin. It improves patient compliance and reduced the irritancy of plain capsaicin.

KEYWORDS: CAPS, Aloe Gel.**1. INTRODUCTION**

Aloe (Aloe Vera) is a traditional medicinal plant belonging to the family Liliaceous. It has a major potential to use for medicinal purpose. The lower leaf of the plant is used for medicinal purpose. If the lower leaf is sliced open, the gel obtained can be applied to the affected area of the skin.^[1] Aloe Vera gel is useful for skin treatments. Aloe Vera has been applied topically to treat various skin conditions. Aloe Vera gel has a soothing property which increases patient compliance and reduces the irritating properties of the drug and other ingredients. In the present study, we observed the potential of Aloe Vera with capsaicin and compared the drug release profile of plain CAPS and CAPS with Aloe gel.

Capsaicin is an alkaloid extracted, belongs to the family of Capsicum. Capsaicin is less employed because of its adverse effects as stinging, burning and erythema at the application site.^[2,3,4]

Materials: Stearic acid, Glycerol monostearate, polyvinyl alcohol, TWEEN 80, Capsaicin (DRUG), White soft paraffin, Aloe Vera, Carbopol 940, Methylparaben, Chloroform.

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Research Article

PREPARATION AND EVALUATION OF SOLID LIPID NANOPARTICLES FOR TOPICAL DELIVERY

Karishma Singh *

* Department of pharmacy, MJP Rohilkhand University, Bareilly-243006, INDIA.

Received on: 17-03-2019; Revised and Accepted on: 28-04-2019

ABSTRACT

Solid lipid nanoparticles are the novel approach of drug delivery system. For topical delivery, their solid matrix provides the controlling drug release profile and also protects the API against chemical degradation. Their small particle size produced the adhesive properties leading to film formation on the skin. The aim of the study to prepare Solid lipid nanoparticles for topical delivery by the o/w solvent evaporation method and incorporated into an Aloe Vera hydrogel. An evaluation was done SEM (Scanning Electron microscopy), Zeta potential, FT-IR and entrapment efficiency. Than SLNs were incorporated into the Aloe gel and evaluating by pH, Viscosity and drug release pattern. A result confirmed as the solid lipid nanoparticles formulated were found to be in the Submicron range (160nm-200nm). The entrapment efficiency was found to be near 37%. The release study shows the prolonged release pattern in the Solid lipid nanoparticles formulation in comparison to the plain Capsaicin. The gel formulated by the incorporation of capsaicin loaded gel shown further retardation of drug release. So, in conclusion the SLN formulated in a promising approach for the topical delivery of capsaicin. Therefore, SLNs represent an easy to manufacture, stable, physiologically compatible system with prolonged drug release and reduced irritancy.

KEYWORD: CAPS, SLN, SEM, SA.

INTRODUCTION

Topical drug delivery has a benefit to deliver drug at skin such as skin surface. Solid lipid nanoparticles are submicron size range colloidal carries (50-1000nm), which are composed of physiological lipids, dispersed in water or in an aqueous surfactant solution (1,2,4). SLN are composed of well tolerated excipients and due to their small particle size they possess similar adhesive properties leading to film formation on the skin. SLNs is more suitable for topical application because of its advantageous features like they are composed of physiological and biodegradable lipids, which show low toxicity, nanoparticle size provides more effective surface area, which results in close contact to the stratum corneum and can enhance drug penetration (4,7). Occlusive properties of lipid nanoparticles give increased skin hydration (2,4). In addition, lipid nanoparticles are able to enhance the photo stability, protection against oxidation and hydrolysis.

SLN as a Potential Carrier for Topical delivery:
SLN constitute as a lipid derivatives carrier system

*Corresponding author:

Karishma Singh
Department of pharmacy,
MJP Rohilkhand University, Bareilly-243006, INDIA.
* E-Mail: karishmasinghnay@gmail.com

DOI:

alternative for the topical drug delivery. SLN have a several advantages including:-

- Drug targeting (site specific) & possibility of controlled drug release,
- Improved the drug stability
- Improved the drug loading, incorporation of lipophilic & hydrophilic drugs.
- High affinity to the stratum corneum & enhancement the bioavailability of encapsulated materials (10).

Capsaicin is an alkaloid extracted, lipid soluble compound. It belongs to the family of Capsicum. Capsaicin is less employed because of its adverse effects as stinging, burning and erythema at the application site. Incorporation of Capsaicin in SLNs retard the drug release and thus, the reduced the irritancy and other adverse effects (10-12).

MATERIALS AND METHODS

Materials:

Stearic acid, Glyceryl monostearate, polyvinyl alcohol, TWEEN 80, Capsaicin (DRUG), White soft paraffin, Aloe vera, Carbopol 940, Methyl parabens, Chloroform.

Methods:

Preformulation Studies:

Preformulation studies were performed to characterize the physicochemical properties of the drug that could affect the

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SCIENTIFIC REPORTS

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Discovery of Novel Soluble Epoxide Hydrolase Inhibitors as Potent Vasodilators

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Neetika Tripathi¹, Sarvesh Paliwal¹, Swapnil Sharma¹, Kanika Verma¹, Ritika Gururani¹, Akanksha Tiwari¹, Amrita Verma¹, Monika Chauhan¹, Aarti Singh¹, Dipak Kumar² & Aditya Pant²

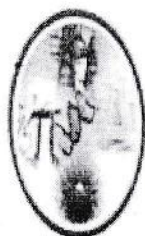
In view of the role of sEH (soluble epoxide hydrolase) in hypertension, we have developed a rigorously validated pharmacophore model containing one HBA (Hydrogen Bond Acceptor), two HY (Hydrophobic) and one RA (Ring Aromatic) features. The model was used as a query to search the NCI (National Cancer Institute) and Maybridge database leading to retrieval of many compounds which were sorted on the basis of predicted activity, fit value and Lipinski's violation. The selected compounds were docked into the active site of enzyme soluble epoxide hydrolase. Potential interactions were observed between the features of the identified hits and the amino acids present in the docking site. The three selected compounds were subjected to *in vitro* evaluation using enzyme-based assay and the isolated rat aortic model followed by cytotoxicity studies. The results demonstrate that the identified compounds are potent, safe and novel soluble epoxide hydrolase inhibitors.

Despite availability of many drugs for the treatment of hypertension the optimal control of blood pressure is far from reality which may be due to involvement of various factors on the pathogenesis of hypertension and associated diseases.

One of the most promising and emerging targets for the development of antihypertensive drugs is soluble epoxide hydrolase (sEH). Mammalian tissues like liver, kidney, intestine and vessels show highest activity of this enzyme. The sEH belongs to α/β -hydrolase family of enzyme exhibiting high level of selectivity for epoxides of fatty acids. Epoxycyclooctatrienoic acids (EETs) that are epoxides of arachidonic acid are responsible for vasodilation in various renal, mesenteric, cerebral, pulmonary & coronary vascular tissues¹. These EETs are converted into dihydroxyepoxycyclooctatrienoic acids (DHETs) in the presence of sEH enzyme and it is important to note that DHETs are devoid of vasodilatory action². In view of potential role of sEH in diminishing the EET induced vasodilation, efforts have been made to inhibit this enzyme³ (Fig. 1).

Epoxides containing compound were the first developed inhibitors of sEH enzyme but they only showed *in vitro* activity and found to be ineffective in cell culture and *in vivo* studies^{4,5}. Further urea, carbamate & amide derivatives appeared to be good inhibitor of the enzyme and noticeably these compounds showed satisfactory *in vivo* activity⁶. With the help of ligand and structure based drug design technique the chemical structure of these compounds were further modified to produce more potent compounds^{7–10}. Esters and salts of adamantane-1-yl-ureido]-dodecanoic acid (AUDA) have been found to be good inhibitor of sEH but its clinical use has been restricted due to metabolic instability & limited solubility in water and many organic solvents^{7,10,11}. To date, very few soluble hydrolase inhibitors have been developed and evaluated pre-clinically and some are in pipe line of clinical trial. For instance, two of the inhibitors, namely AR9281 and GSK 2256294 have already showed promising effects in phase I human clinical trials with minimum toxicities. In addition, GSK 2256294 has demonstrated to improve endothelial dysfunction in obese males with chronic obstructive pulmonary disease (COPD). Considering the definite role of soluble epoxide hydrolase in management of hypertension, in the present study exhaustive efforts have been made to develop more promising molecules as soluble hydrolase inhibitor to address hypertension in better means.

¹Department of Pharmacy, Banasthali University, P.O. Banasthali, 304022, Rajasthan, India. ²Indian Institute of Toxicology Research, Mahatma Gandhi Marg, Post Box No-00, Lucknow, 226001, UP, India. Neetika Tripathi, Sarvesh Paliwal, Swapnil Sharma, Kanika Verma, Ritika Gururani, and Akanksha Tiwari, contributed equally. Correspondence and requests for materials should be addressed to S.P. (email: paliwal.sarvesh@yahoo.com)



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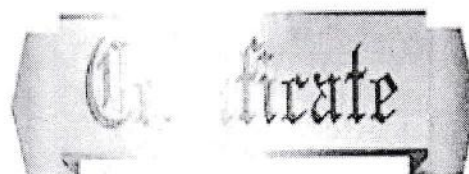
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Synthesis and Characterization of Novel Substituted 2,6-diarylpiperidine-4-one Derivatives

Himanshu Joshi*

Inverts Institute of Pharmacy, Inverts University, Bareilly-243123, India

Abstract

In this article, new derivatives of 4-piperidinone nucleus viz., substituted 2,6-diarylpiperidine-4-ones were synthesized using Mannich reaction. Eight compounds were synthesized and characterization by elemental analysis, FTIR and ¹H NMR spectral analysis.

Keywords

Piperidone, Anti-inflammatory, Antihistamine, Mannich reaction, 2,6-Diarylpiperidine-4-ones.

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Lead Optimization Studies on Novel Quinolones Derivatives as CYP-450 Inhibitor by using *In-Silico* Modulation

Himanshu Joshi¹, Ratandeep Chauhan¹, Pankaj Kumar Shankhdhar², Kalbant Kumar²

¹Invertis Institute of Pharmacy, Invertis University, Bareilly-243123, India

²Shri Ram Murti Smarak Institute of Pharmacy, Bareilly-243007, India

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ABSTRACT

The *In-silico* studies considered as complementary to *in vivo* and *in vitro* biological studies are performed by using a computer and are playing increase larger and more important role in drug discovery and development. We describe here in *In-silico* study of various hypothetical Quinolines and their interactions with CYP450 enzymes by computational methods including chem draw ultra, Avogadro and ochem database software methods. We worked on a chemical reaction scheme of Quinolines and we prepared different 20 Quinolines derivatives. The CYP450 super family of heme enzymes plays an important role in the metabolism of a large number of endogenous and exogenous compounds including most of the drugs currently on the market. Comprehensive studies of the quantum approaches on the quinolines derivatives like QD1, QD8 and QD13 was found to be CYP450 enzymes inhibitors interactions. The quantum approaches by lead optimization will require further studies; the data reported in this work may be helpful guide for medicinal chemist who is working in this area.

Keywords: *In-silico*, Quinolone, CYP450 inhibitor

Address for Correspondence: Himanshu Joshi, Invertis Institute of Pharmacy, Invertis University, Bareilly-243123, India; Hijoshi1234@gmail.com, Himanshu.j@invertis.org

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