



# JEYPORE COLLEGE OF PHARMACY

(Under the patronage of Banagiri Development Trust)

Approved by Government of Odisha, All India Council for Technical Education, New Delhi  
Pharmacy Council of India, New Delhi, & Affiliated to BijuPatnaik University of Technology

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**IQAC JCP**  
**प्रज्ञानं ब्रह्मा**

## **INTERNAL QUALITY ASSURANCE CELL FILL**

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Rondapalli, Jeypore, Dist. Koraput-764 002, Odisha

Ph: (06854) 291221, Fax: (06854) 246955

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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

S. No	Names	Designation	Members	Functions & Responsibilities
1	Prof. (Dr.) SK Panda, Principal	Professor & Principal	Chairperson	1. Assessment and evaluation at institution level. 2. Continuous improvement initiatives. 3. Monitors and evaluates the programme effectiveness and proposes necessary changes for the attainment of PEOs and Pos. 4. Conducts and interprets various surveys required to assess POs and PEOs. 5. Prepare periodic reports/records on programme activities and progress and submit to Institute Department advisory Board. 6. Interact with students, faculty
2	Prof. (Dr.) Prithwiraj Mohapatra	HOD, Pharmaceutics	Coordinator	
3	Prof (Dr.) SK Mohamad Ather Alli	HOD, Pharmaceutics	Member	
4	Prof. (Dr.) Prithwiraj Mohapatra	HOD, Pharmacognosy	Member	
5	Mr Sujit Kumar Martha	HOD, Pharmacology	Member	
6	Mrs Manasi Khadenga	NAAC Coordinator	Member	
7	Er. Umesh Chandra Mishra	Member from the Management	Member	
8	Mr Saswat Kumar Rath	Senior administrative officer	Member	
9	Mr Rama Krushna Gouda	Senior administrative officer	Member	
10	Mr. Mantosh Padhy	Student	Student Member	
11	Mr. Girish Pattanayk	Student representative	Member (Alumni)	
12	Er. Ranganath Mishra	GB Member	Member (Employer)	
13	Mr. B. Ram Prasad	Industrialist	Nominated Member (Industrialist)	

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				and other stakeholders in facilitating PEOs. 7. All major suggestions and proposals of the IQAC are placed before the management for necessary approvals and implementation thereof.
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## About IQAC logo

This is our IQAC logo made by our Vice-Principal Mr Sujeet Kumar Martha and suggested by Dr. Prithwiraj Mohapatra, Professor and IQAC Coordinator. IQAC logo depicts green leaves as a symbol of growth, prosperity and consciousness and a circle represents carrying. The green colour represents the pharmacy profession. The Sanskrit phrase "Prajnanam Brahma" comes from the Rig Veda and refers to wisdom as the Self. Rig Veda proclaims 'prajnanam brahma that is, prajna is Brahma, Prajnana means awareness, consciousness, which pervades the subtlest texture of the cosmos and is present and active everywhere, at all places and all the time. It energizes the physical, emotional and spiritual realms, the lower, middle and higher regions, and human, sub-human and super-human beings.

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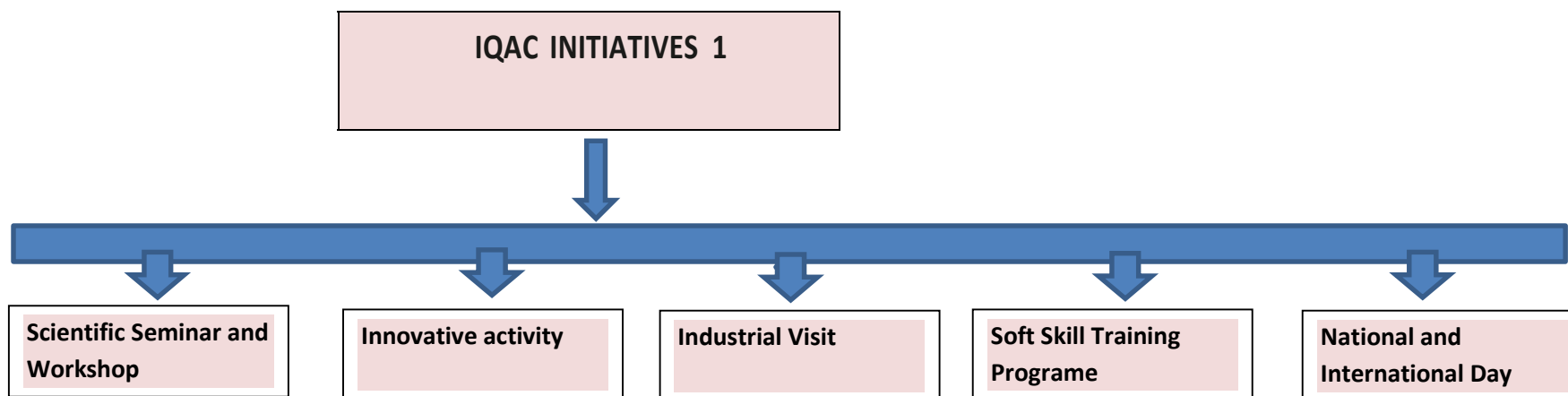
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## Measures For Life Long Learning and quality Education



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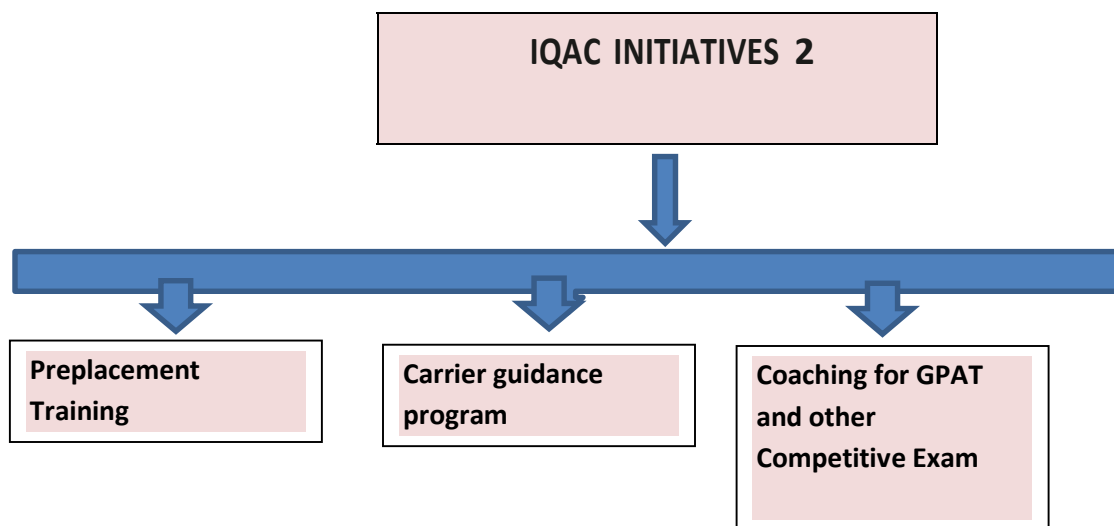
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## Measures For Higher Education and Placement of Students



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## IQAC Initiatives 1

### Scientific Seminars

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Online  
Webinar



## “Current Trends in Drug Development”

### Organised By:

Jeypore College of  
Pharmacy,  
Jeypore, Odisha

September 2<sup>nd</sup>-7<sup>th</sup>,  
2022

### REGISTER FOR FREE



### Seminar Registration

Maximum 150  
participants

### Programs

02 September 2022 – Inauguration (11:30 AM-12:30 PM)

<u>Date</u>	<u>Plenary &amp; Discussion (11:30 PM -12:30 PM)</u>	<u>Plenary &amp; Discussion (2:30 PM -3:30 PM)</u>
02 September 2022		Dr Sovan Pattanaik, Ph.D., M.Pharm, Associate Professor SoA University Topic: “Molecular Docking”
03 September 2022	Mr. Alok Mohapatro, M.Pharm, Asst. Professor Jeypore College of Pharmacy, Odisha Topic: “Analogue Design”	Miss. Rasmita Das, M.Pharm, Asst. Professor Jeypore College of Pharmacy, Odisha Topic: “Retrosynthesis”
05 September 2022	Dr Gopal Krushna Padhy, Ph.D., M.Pharm, Associate Professor, CUTM, Odisha Topic: “Drug Discovery using Biovia Discovery Studio”	Mrs. Mazma Begum, M.Pharm, Asst. Professor Jeypore College of Pharmacy, Odisha Topic: “Insilico Drug Design”
06 September 2022	Mrs. Pragya Rani Patra, M.Pharm, Asst. Professor Jeypore College of Pharmacy, Odisha Topic: “Statistical Method in QSAR Analysis”	Dr Sudhansu Sekhar Rout, Ph.D., M.Pharm, Associate Professor, SoA University, Odisha Topic: “Microwave Technology in Process Optimization”
07 September 2022	Dr Ram Prasad Padhi, Ph.D., M.Pharm, Professor DCP, Jagdalpur, CG Topic: “Ion Exclusion Chromatography”	

07 September 2022 – Closing ceremony (02:30 PM-03:30 PM)

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## Jeypore College of Pharmacy

(APPROVED BY DMET, AICTE, PCI NEW DELHI, AFFILIATED TO BPUP)  
RONDAPALLI, JEYPORE, KORAPUT DIST, ODISHA 764 002

### ONE WEEK STUDENT DEVELOPMENT PROGRAMME

Sponsored by IQAC, Jeypore College of Pharmacy

on

Theme: "Current and Cutting-Edge Technologies in NDDS"

19-09-2022 to 24-09-2022

Date	11:30 AM-12:30PM	02:30PM – 3:30PM
<b>DAY-1</b> 19-09-2022 Monday	Inaugural: 11:30-12:30AM Scientific Session follows, <b>Dr. S. K. Panda</b> Professor & Principal, JCP <b>Mr. Sujit Kumar Martha,</b> Associate Professor and Vice-Principal, JCP <b>Mrs. Pratit Kanchan Sahu,</b> Associate Professor and Program Coordinator JCP	<b>Dr. Snehamayee Mohapatra</b> M. Pharm., Ph.D., Associate Professor, School of Pharmacy, S'O'A University Bhubaneswar, Odisha <b>Topic: Microencapsulation</b>
<b>DAY-2</b> 20-09-2022 Tuesday	<b>Ms. Subhasree Choudury</b> Asst. Professor, Department of Pharmaceutics, Jeypore College of Pharmacy, Jeypore, Odisha <b>Topic: Floating Drug Delivery System</b>	<b>Dr. Satyabrata Bhanja</b> M. Pharm., Ph.D. Professor and Principal, RITEE College of Pharmacy, Raipur, CG <b>Topic: Bioavailability and Bioequivalence for Mucoadhesive</b>
<b>DAY-3</b> 21-09-2022 Wednesday	<b>Mr. Aswin Kumar Sethi</b> Asst. Professor, Department of Pharmaceutics, Jeypore College of Pharmacy, Jeypore, Odisha <b>Topic: Solid Lipid Nanoparticles for Active Drug Targeting</b>	<b>Dr. Narahari Narayan Palei</b> Associate Professor, School of Pharmacy, The Neotia University, Diamond Harbour Rd, Sarisha, West Bengal <b>Topic: Non-ionic Surfactant Based Nano Vesicles for Transdermal Drug Delivery</b>
<b>DAY-4</b> 22-09-2022 Thursday	<b>Ms. Binodini Majhi</b> Asst. Professor, Department of Pharmaceutics, Jeypore College of Pharmacy, Jeypore, Odisha <b>Topic: Protein Drug Delivery System</b>	<b>Dr. Sunit Kumar Sahoo</b> M. Pharm., Ph.D., Associate Professor, Department of Pharmaceutics, Utkal University, Bhubaneswar, Odisha <b>Topic: Current Scenario of Novel Lipid- Based Formulation: Self Micro Emulsifying Drug Delivery System</b>

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During Year 2022

## INDUSTRIAL VISIT



Industrial Visit to Syncarp Pharma Ltd. Hyderabad

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Student Visit to Sunrise Pharmaceutical Ltd. Hyderabad

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**Student Visit to Hetero Drugs, Hyderabad**

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## NATIONAL DAY AND INTERNATIONAL DAY



Fig-1 Celebrating Worlds No tobacco Day

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Fig-2 Celebrating Worlds No tobacco Day

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**Fig-3 Image of Rangoli made by Mrs PK Sahu, Associate Professor during Calibration of Republic Day, 2022**

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Republic Day Celebration at JCP

# HAPPY



Fig-5 Staff and students on Republic Day.

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World Nature Conservation Day 2022



FIG-6 Mr Rajesh Nayak of B. Pharm 3<sup>rd</sup> Sem Delivering Seminar on World Nature Conservation Day.

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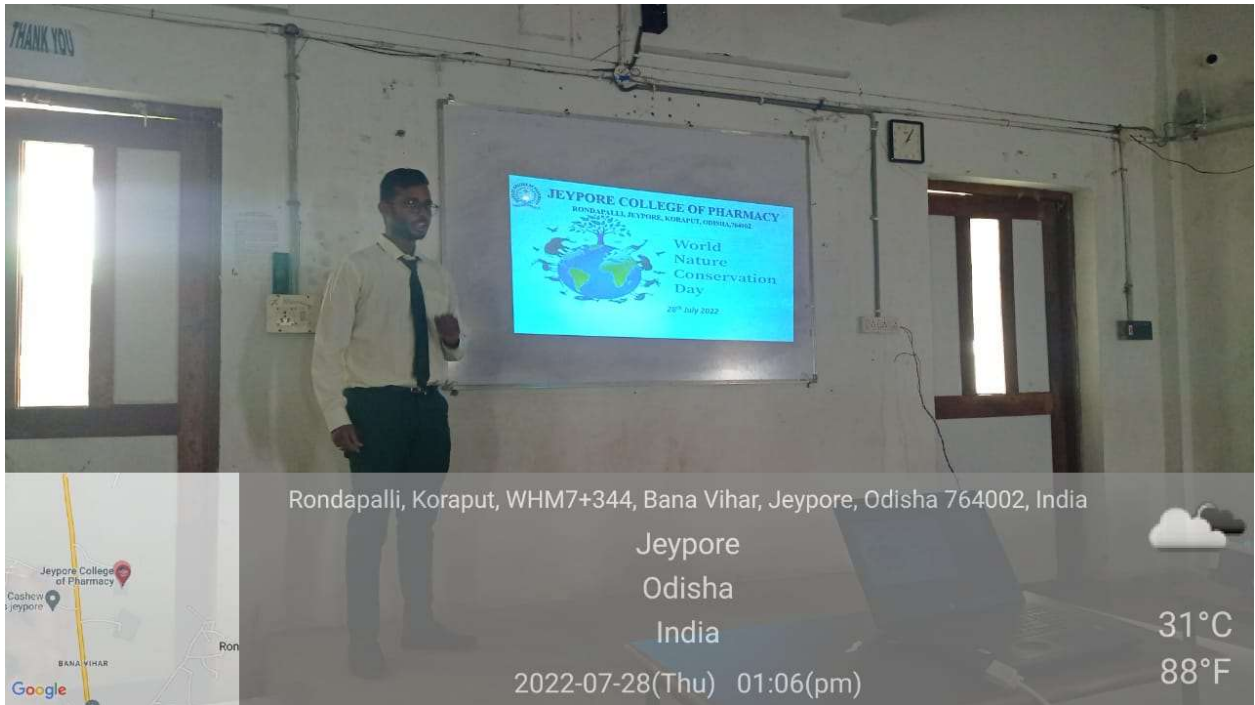


Fig-7 Mr Shyam Of B. Pharm 3rd Sem delivering seminar on World Nature Conservation Day.

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Jeypore

Odisha

India

2022-07-28(Thu) 02:53(pm)



30°C

86°F

**Fig-8 Student receiving prize for the seminar conducted on World Nature conservation day.**

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## NATIONAL TECHNOLOGY DAY 11<sup>TH</sup> MAY 2022



**Fig-9 Students Participated in Group Discussion for National Technology Day.**

  
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## WORLD SUSTAINABLE ENERGY DAY

27<sup>TH</sup> FEB 2022



Fig-10 Celebrating World Sustainable energy day.

  
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## WORLD CANCER DAY

4<sup>TH</sup> FEBRUARY 2022



Fig-11 Students Participated in the group discussion for cancer day.

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## HUMAN RIGHTS DAY

10<sup>TH</sup> DECEMBER 2022



**Fig-11 B.D.O sir Demonstrating New Voter Enrolment Process to students on Human Right's Day.**

  
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## WORLD AIDS DAY

01.12.2022



Fig-12 Students are celebrating on World Aids Day.

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Fig-13 Students performing Rally in Rondapali Village.

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## WORLD IODINE DEFICIENCY DAY

21.10.22



Fig-14 Dr Srilata Sahu Delivering Speech on World Iodine Deficiency Day.

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## WORLD MOTHER LANGUAGE DAY

21<sup>ST</sup> FEBRUARY 2022



Jeypore, Odisha, India

Rondapalli, Koraput, WHM7+344, Bana Vihar, Jeypore, Odisha  
764002, India

Lat 18.932408°

Long 82.562751°

21/02/22 04:14 PM GMT +05:30

Fig-15 Celebration of Mother Language Day.

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## JANJATIYA GAURAV DIWAS

15<sup>TH</sup> NOVEMBER 2022.

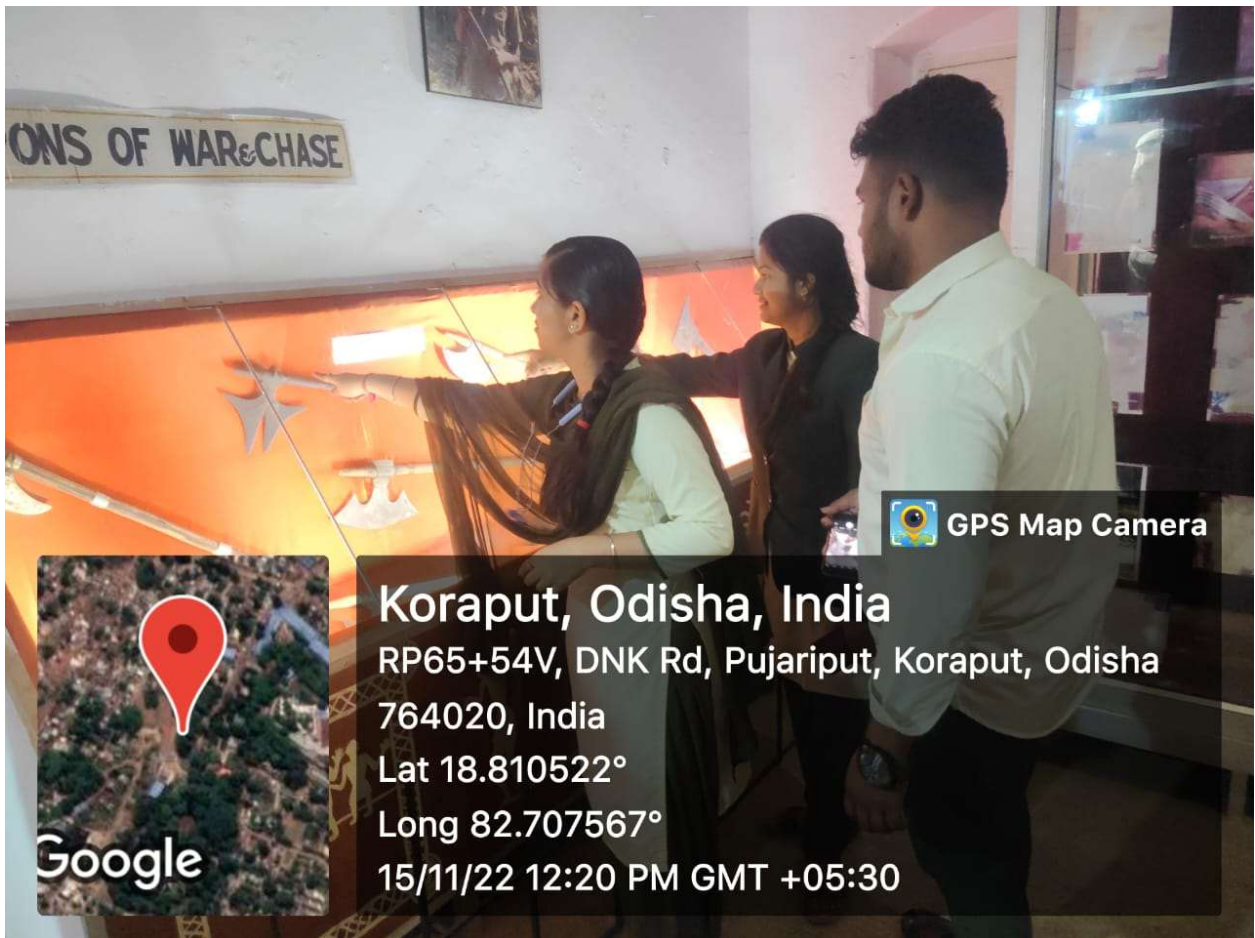


Fig-16 Students Visiting Tribal Museum

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Fig-17 Students Observing Weapons of Tribals.

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## INTERNATIONAL DAY OF ELIMINATION OF VIOLENCE AGAINST WOMEN.

DT: 25.11.2022



Fig-18 Mrs Manasi Khadanga, Assistant Professor, Addressing the gathering of Villagers of Rondapalli.

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Fig-19 JCP ladies staff with Village women of Rondapalli.

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## 61<sup>st</sup> NATIONAL PHARMACY WEEK

Dt: 20<sup>th</sup> November to 26<sup>th</sup> November



Fig-20 Guest for National Pharmacy Week Celebration.

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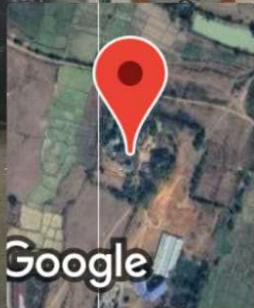




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**Jeypore, Odisha, India**  
Rondapalli, Koraput, WHM7+344, Bana Vihar, Jeypore, Odisha  
764002, India  
Lat 18.932368°  
Long 82.562759°  
26/11/22 04:35 PM GMT +05:30

GPS Map Camera

**Fig-21 Prize Distribution to Students for Quiz Competition during National Pharmacy Week Celebration.**

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Fig-22 Audience for Celebrating National Pharmacy Week Celebration.

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**Fig-23 Doctor Screening the peoples of Keraput during National Pharmacy Week Celebration.**

  
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**Fig-24 Students Distributing Medicines to patients during National Pharmacy Week Celebration.**

  
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## CONSTITUTION DAY

DT: 26.11.2022



Fig-25 Celebrating Constitution Day.

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## NATIONAL SCIENCE DAY

28<sup>TH</sup> FEBRUARY 2022



Rondapalli, Koraput, WHM7+344, Bana Vihar, Jeypore, Odisha 764002, India

Jeypore

Odisha

India

2022-02-28(Mon) 03:27(pm)

Fig: 26 Students Presenting models during celebration of National Science Day.

*Handwritten signature in blue ink.*

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## WORLD PHARMACIST DAY

25<sup>TH</sup> September 2022



**Fig-27 Celebration of World Pharmacist Day**

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**Fig-28 Blood Donation Camp organised having collaboration with HDFC Bank during Celebration of World Pharmacist Day.**

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## WORLD HEART DAY

29<sup>TH</sup> September 2022



**Fig-29 Dignitaries on the Dice on World Heart Day**

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**Fig-30 Audience of the Celebration of World Heart Day.**

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**Fig-31 Students Receiving Certificate for Human Heart Making Model Competition.**

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## WORLD ENVIRONMENT DAY

### 5<sup>TH</sup> JUNE 2022



**Fig-32 Dignitaries on dice on world environment Day celebration.**

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**Fig-33 Prize distribution to Students during world environment Day celebration.**

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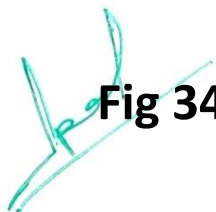
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## WORLD POPULATION DAY

11<sup>TH</sup> JULY 2022



**Fig 34 Calibration of World Population Day with villagers of Sankudi.**

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## TEACHERS DAY CELEBRATION

DT. 05.09.2022



*Handwritten signature in blue ink.*

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**RONDAPALLI, JEYPORE (K) 764002**

**Fig-35 Staff and Students on Teachers Day celebration.**

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## LEPROSY DAY 30<sup>TH</sup> JANUARY 2022



**Fig-36 Addressing to village people for eradication of leprosy by our Staff**

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## INTERNATIONAL YOGA DAY

June 21 2022



Rondapalli, Koraput, WHM7+344, Bana Vihar, Jeypore, Odisha 764002, India

Jeypore  
Odisha  
India



24°C

75°F

2022-06-21 (Tue) 08:03 (am)

**Fig-37 Staff and Students are doing yoga**

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## INDEPENDENT DAY

15.08.2022



**Fig-38 Staff and Students are Celebrating Independence Day**

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## Women's Equality Day

26.08.2022



**Fig-39 Felicitation to Child Development Project Officer  
Mrs Gayatri Bahinipati.**

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**Fig-40 Speech by Mrs Gayatri on Women's Equality Day**

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## INTERNATIONAL WOMEN'S DAY

March 8<sup>th</sup> 2022



Fig -41 Celebration International women's day

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**Fig -42 Celebration International women's day**

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## YOUTH DAY 12<sup>TH</sup> JANUARY 2022



**Fig 42 Celebration of National Youth Day.**

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## AZADI KA AMRUT MOSTAV CELEBRATION

13.08.2022



*Handwritten signature in blue ink.*

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#### Miss Jahnabi Sarmah

Miss Jahnabi Sarmah is an Assistant Professor, Department of Pharmaceutics, NEPEDS College of Pharmaceutical Sciences, Guwahati, Assam. She has passed her B. Pharm degree and M. Pharm in Pharmaceutics from Assam down town University (ADTU), Guwahati, Assam. She has published more than 10 research and review papers in reputed journals. She has attended many National and International Seminars and Conferences. Recently, she has filed one German patent.

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Miss Kritika Saikia is an Assistant Professor, Department of Pharmaceutics, NEPEDS College of Pharmaceutical Sciences, Guwahati, Assam. She has passed B. Pharm degree and M. Pharm in Pharmaceutics from Girijananda Chowdhury Institute of Pharmaceutical Science (GIPS), Guwahati, Assam. She has more than 10 research and review papers in reputed journals. She has attended many National and International Seminars and Conferences. Recently, she has filed one German patent.

#### Mr. Amit R. Jaiswal

Mr. Amit R. Jaiswal is HoD, Diploma in Pharmacy Department, Vidyabharati College of Pharmacy, Amravati, Maharashtra. He has passed B. Pharm from Sant Gadge Baba University and M. Pharm in Pharmaceutics from BPUTE. He has taught many subjects from Diploma, Degree, and Post Graduate levels and have teaching experience of 20 years and two years of industrial experience. He has filed one German and Indian patent.

#### Mrs. Manasi Khadanga

Mrs. Manasi Khadanga is presently working as an assistant professor, Dept of Pharmacology, Jeypore College of Pharmacy, Jeypore, Odisha. She is having more than 6 years of teaching and research experience. She has received IW Educators Award organized by Nirgia Brand Promoters. Recently, one of her patent got granted and she has filed one more German patent.

#### Dr. Sangram Keshari Panda

Dr. Sangram Keshari Panda is currently working as Principal at Jeypore College of Pharmacy, Jeypore, Koraput, Odisha. He has 15 years of teaching experience and more than 50 Publications in various reputed Pharmacy journals and has filed 02 nos. of Indian patent. He has received Research Excellence Award 2021 from InSc and all so a life member of APTI and IPA.

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Text Book of

## PHARMACOGNOSY and PHYTOCHEMISTRY-I

Prof. (Dr.) Sangram Keshari Panda  
Prof. (Dr.) Prithwiraj Mohapatra  
Mr. Chandan Nayak  
Mr. Aswini Kumar Sethi  
Miss. Rasmita Das

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The book "Pharmacognosy and Phytochemistry" is something we are quite happy to present to the B. Pharm/Pharmacy students. This book has been written for B. Pharm students entirely in compliance with the current syllabus established by the Pharmacy Council of India. The book was written with the needs of both students and teachers in mind. It provides students with the fundamentals of secondary metabolites, phytochemistry, and isolation, as well as industrial production, estimation or analysis, and utilization of phytoconstituents that they will need throughout their pharmaceutical careers. Every effort has been made to ensure that the content is error-free and that the subject is presented in a way that is understandable and favorable to students. However, any recommendations and constructive reviews would be greatly appreciated and be included in a later edition.



### Prof. (Dr.) Sangram Keshari Panda

Prof. (Dr.) Sangram Keshari Panda, M.Pharm, Ph.D., in Pharmacognosy is working as Principal at Jeypore College of Pharmacy, Jeypore, Koraput, Odisha. He has fifteen years of teaching experience, more than fifty publications in well-known pharmacy journals, and four patents to his credit. He has participated in numerous national and international conferences and seminars. He has a lifetime membership in API and IPA and has received the In Sc. Research Excellence Award 2021.



### Prof. (Dr.) Prithwiraj Mohapatra

Prof. (Dr.) Prithwiraj Mohapatra is working as professor and Head in Pharmacognosy at Jeypore College of Pharmacy, Jeypore, Odisha. He completed his M. Pharm. in pharmacognosy from Manipal College of Pharmaceutical Sciences in Manipal, MAHE, in 2002, and he accomplished his PhD at Acharya Nagarjuna University (ANU), Guntur, in 2009. Since 2004, he has been a teacher, accumulating 18 years of experience. He has guided 15 M. Pharm. students with one Ph.D. aspirant, and his work has appeared in 25 national and international journals with two patents on his credit.



### Mr. Chandan Nayak

Mr. Chandan Nayak currently holds the position of Lecturer/Assistant Professor in the Bhojpa Bihar School of Pharmaceutical Education & Research at Berhampur University in Berhampur, Odisha, and has six years of teaching experience. In SCA (Deemed to be) University, Odisha, he is pursuing a Ph.D. after completing an M. Pharmacy degree. He serves as an assistant professor at the Gayatri Institute of Science and Technology in Gunupur, Odisha, spans 3.5 years. He has mentored over 50 students for their B. Pharm degree and 15 for their M. Pharm degrees.



### Mr. Aswini Kumar Sethi

Mr. Aswini Kumar Sethi currently works as Asst. Professor at Jeypore College of Pharmacy, Jeypore, Koraput, Odisha. He completed his M.Pharm in Pharmaceutical Technology from Jeypore College of Pharmacy at BPUT University in Odisha and is currently pursuing his Ph.D. at Assam Downtown University in Guwahati, Assam. He has been a teacher for three years. He has 6 papers that have been published in well-known national and international journals.



### Miss. Rasmita Das

Miss. Rasmita Das currently works as Asst. Professor at Jeypore College of Pharmacy, Jeypore, Koraput, Odisha. She has completed her Post-graduation in Pharmacy (M.Pharm in Pharmaceutical Analysis & Quality Assurance) from SPER, Berhampur University, Odisha. She has worked as a teacher at the Gajapati College of Pharmacy in Rasipatna, Paralakhemundi, Gajapati, Odisha, for four years. She has participated in a number of national and international seminars and conferences.



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**Dr. A. Sasi Kumar** currently working as Professor (Merit-IT – Kurara Education Services Pvt Ltd, Bangalore), Department of Cloud Technology & Data Science, Institute of Engineering & Technology, Sinhas University, Mangalore. He has received the MCA degree from Bharathiar University, Coimbatore and M.Phil in Computer Science from Alagappa University, Karaikal, Tamil Nadu, India. He awarded Ph.D degree in Computer Science from Anna University, Chennai. He is pursuing Post-Doctoral Fellow in Computer Science and Information Science at Sinhas University, Mangalore. He has 21 years of teaching experience and 15 years of research experience. He has published 35 Indian Patents, 2 German Patents and Published 32 SCI / Scopus / Peer Reviewed Journals. He has published 5 Books. He has serving as Editorial Board Member / Reviewer in 25 International Journals. His research interests include Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Cyber Security and Cloud Computing.



**Dr. Bhola Khan** has obtained his PhD in Economics from Anna Mills Vastika (Central University), New Delhi, India. He has more 13 years of teaching experience with different Universities in India and abroad. His area of interest is Development Economics. He used to teach Macroeconomics, Econometrics, Economic Growth and Development, and Statistics for Undergraduate and Postgraduate students. He has more than 58 publications including 4 books. Currently he is working as Associate Professor of Economics at Department of Economics, Yobe State University, Zamuru, Nigeria. He is also working as Associate Professor at Department of Economic Cybernetics, Sunny State University, Ukraine. Apart from the above he has also actively involved in the curriculum development and writing of various texts such how to face the interview and management about the interview listing and other related issues.



**Mr. Santosh Kumar Behera** presently working as a faculty at Jeypore college of pharmacy, Jeypore Odisha affiliated to OGPB (Odisha State Board of Pharmacy) for diploma pharmacy course & affiliated to BPUT (Biju Patnaik University of Technology) for UG & PG pharmacy courses. He has 4 years of teaching experience & 3 years of industrial experience. He has published four numbers of Indian patent in the domain of pharmacy. He has done his specialization in pharmacy. He is a highly professional academicians and a new researcher in pharmacy field. He is an active participant of APTA (Association of Pharmaceutical Teachers of India) nonworking from Odisha, and he has his membership of IPhA (The Indian Pharmaceutical Association).



**Mr. Mohd Esa** completed M.E. (Power Electronics systems) from Mulbahram Jai College of Engineering and Technology, Baramulla, Hyderabad in 2016. He received his B.E. degree from Maitani Engineering College, Hyderabad in 2015. He was awarded gold medal for standing first in B.E. M.T. and B.E. M.T. from Maitani Engineering College, Sayeebad, Hyderabad. He has published 13 research papers in various journals and conferences. He also had 18 Indian patent applications published. Being invited to attend science and technology. He is an Associate Member and Chartered Engineer in The Institution of Engineers (India) (IEI) and also a Member in International Association of Engineers (IAENG), Hong Kong. He previously worked as VLSI RTL Design Engineer at Vedic School of VLSI Design, Hyderabad. Currently he is a Research Fellow in reputed Organization. He is a speaker member in many reputed Journals. His research of interests includes Multi level inverters, Multipliers and Instrumentation.



Dr. A. Sasi Kumar, Dr. Bhola Khan  
Mr. Santosh Kumar Behera, Mr. Mohd Esa  
**INTERVIEW MANAGEMENT**

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Journal of Positive School Psychology  
2022, Vol. 6, No. 4, 6973 – 6979

<http://journalppw.com>

## REVIEW ARTICLE ON THE PLANT AVENA SATIVA LINN

<sup>1</sup>MANASI KHADANGA, <sup>2</sup>NITYANANDA SAHOO, <sup>3</sup>SANGRAM KESHARI PANDA,  
<sup>4</sup>HARAGOURI MISHRA, <sup>5</sup>ASWINI KUMAR SETHI

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<sup>24</sup>Centurion University of Technology and Management, R.SitapurBhubaneswar, Odisha, India

### Abstract

Avena sativa, sometimes known as oat, is a plant that belongs to the Poaceae family. Third in importance after wheat and corn in the United States, and fourth in importance worldwide. As far as nutrition is concerned, they are one of the most widely produced plants. Moreover, it is commercially nutritious. Soluble dietary fibre can be found in oat grain, oat bran, and oatmeal known as -glucan, which can lower total cholesterol and low-density lipoprotein cholesterol levels in the blood. Lipoprotein cholesterol is also useful for controlling blood sugar levels. Experiments of many kinds Oat has been proven in tests to be a possible agent for preventing the onset and progression of cancer, intestinal malfunction, obesity, celiac disease, and other disorders This examination will Avena sativa's therapeutic and utilitarian characteristics are discussed. The functional and therapeutic aspects of Avena sativa will be discussed in this review. However, due to the large number of the health benefits they provide, their intake has raised significantly, and they have become more popular come to the foreground immediately.

**Keywords:** Apoptotic, Avena Sativa, Anthranilic acid, B-glucan, Cholesterol.

### I. INTRODUCTION

As per today's demand of society "food" how we can treat this like medicine is the common oath for all survivals. To satisfy these words "Avena Sativa Linn" is a best choice. It is difficult to find from what period of time Avena Sativa has been used medicinally for the betterment of people forums. Probably the generating of this plant is from Asia proxima. The green herb Oats were already proceeds in to cultivation from 4000 years ago. Demanded scientists like "Hippocrates and Plinius" recommended oats for feeding and medicinal properties. In case of antidepressive or thymoleptic disorders, liquid mixtures in proportion of 1:1 in 25% alcohol and tinctures in proportion of 1:5 in 45% alcohol produced a magical effect, as has been suggested by The

British Herbal Pharmacopoeia (1976) and Hansel et al (1992).. The mother tincture of freshly young flower can treat sleeplessness, weakness, hysteria. Fresh tincture of oats preferably used in alcoholism and opiumdetoxification. Avena Sativa is high in protein, minerals, lipids,  $\beta$ - glucan, avenanthramides, lipids and sterols. In both of the plat form of therapeutic and non therapeutic consideration it is widely triggered for its significant value. It's extract is having various combination and numerous medicinal properties that's the reason for quantifying the demand for further studies and research work to expose it' s versatile properties[3].The most common use of A.S is livestock feeding. Primary cereal crops such as wheat and barley are usually considered secondary crops, as they are derived from undesirable weeds.[ 1,2]



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### I. INTRODUCTION

As per today's demand of society "food" how we can treat this like medicine is the common oath for all survivals. To satisfy these words "Avena Sativa Linn" is a best choice. It is difficult to find from what period of time Avena Sativa has been used medicinally for the betterment of people forums. Probably the generating of this plant is from Asia proxima. The green herb Oats were already proceeds in to cultivation from 4000 years ago. Demanded scientists like "Hippocrates and Plinius" recommended oats for feeding and medicinal properties. In case of antidepressive or thymoleptic disorders, liquid mixtures in proportion of 1:1 in 25% alcohol and tinctures in proportion of 1:5 in 45% alcohol produced a magical effect, as has been suggested by The

British Herbal Pharmacopoeia (1976) and Hansel et al (1992).. The mother tincture of freshly young flower can treat sleeplessness, weakness, hysteria. Fresh tincture of oats preferably used in alcoholism and opiumdetoxification. Avena Sativa is high in protein, minerals, lipids,  $\beta$ - glucan, avenanthramides, lipids and sterols. In both of the plat form of therapeutic and non therapeutic consideration it is widely triggered for its significant value. It's extract is having various combination and numerous medicinal properties that's the reason for quantifying the demand for further studies and research work to expose it' s versatile properties[3].The most common use of A.S is livestock feeding. Primary cereal crops such as wheat and barley are usually considered secondary crops, as they are derived from undesirable weeds.[ 1,2]



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Neuro Quantology | Jul 2022 | Volume 20 | Issue 7 | Page 2343-2349 | doi: 10.14704/nq.2022.20.7.NQ33303  
Pragya Rani Patro et al / DEVELOPMENT AND EVALUATION OF ORO DISPERSIBLE TABLETS OF ETHACRYNIC ACID BY USING CO-PROCESSED SUPER DISINTEGRATES



## DEVELOPMENT AND EVALUATION OF ORO DISPERSIBLE TABLETS OF ETHACRYNIC ACID BY USING CO-PROCESSED SUPER DISINTEGRATES

Pragya Rani Patro<sup>1</sup>, Chandan Nayak<sup>2</sup>, Chandragiri Anil Kumar<sup>\*3</sup>, Padmini kanhar<sup>4</sup>, J. Rajkumar<sup>5</sup>, Konatham Teja Kumar Reddy<sup>6</sup>

### Abstract

This study has established effective dispersion of ethacrynic acid by using co-processed super disintegrants. Co-processed super disintegrants consisting of cross povidone and sodium starch glycollate exhibited good flow and compression characteristics, quick disintegration, and improved drug dissolution. Hence, "patient-preferable and convenient dosage form," especially for pediatric and geriatric patients, does not need water to swallow, as it was concluded that First pass metabolism is reduced, thus offering improved bioavailability and reduced dose and side effects. F13 was the best among all formulations considering all pre and post-evaluation parameters.

2343

**KeyWords:** Ethacrynic acid, disintegrants, co-processed, dosage form.

DOI Number: 10.14704/nq.2022.20.7.NQ33303 NeuroQuantology 2022; 20(8): 2022; 20(7):2343-2349

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(12) PATENT APPLICATION PUBLICATION  
(19) INDIA  
(22) Date of filing of Application : 10/02/2022

(21) Application No. 202231007101 A  
(43) Publication Date : 11/03/2022

(54) Title of the invention : BIG DATA ANALYTICS FOR COVID 19 PATIENT HEALTH PREDICTION

(51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:C02F0001440000, G05B0013040000, G16H0050500000, A61K0031522000, G16H0050700000 :NA :NA : NA :NA :NA :NA :NA	(71) Name of Applicant : 1) DR. PRITHWIRAJ MOHAPATRA Address of Applicant : PROFESSOR, DEPARTMENT OF PHARMACOGNOSY, JEYPORE COLLEGE OF PHARMACY, JEYPORE, ODISHA-764002. 2) TAPAS KUMAR KHUNTIA 3) SATYABRATA JENA 4) KOUSAR BEGUM 5) YAGNAMBHATLA RAJENDRA 6) KETHAM GIRI BABU 7) DR. PRAGNESH PARMAR 8) DR. GUNVANTI RATHOD 9) DR. SHERAFIN JANCY VINCY 10) DR. M. CHANDRASEKAR 11) DR. SONU MISHRA 12) DR. VIRENDRA GOMASE (72) Name of Inventor : 1) DR. PRITHWIRAJ MOHAPATRA 2) TAPAS KUMAR KHUNTIA 3) SATYABRATA JENA 4) KOUSAR BEGUM 5) YAGNAMBHATLA RAJENDRA 6) KETHAM GIRI BABU 7) DR. PRAGNESH PARMAR 8) DR. GUNVANTI RATHOD 9) DR. SHERAFIN JANCY VINCY 10) DR. M. CHANDRASEKAR 11) DR. SONU MISHRA 12) DR. VIRENDRA GOMASE
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(57) Abstract :

Big data analytics for covid 19 patients' health prediction is the proposed invention which aims at implementing a framework that will predict the health and recovery rate of patients during the treatment. The proposed invention trains the model with supervised data sets of patients who have undergone treatment and discharged. The invention therefore focuses on comparing the previous case history of covid 19 patients with current ones and give predictions.

No. of Pages : 11 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241057762 A

(19) INDIA

(22) Date of filing of Application :10/10/2022

(43) Publication Date : 14/10/2022

(54) Title of the invention : SIMPLE UV SPECTROPHOTOMETRIC DETERMINATION OF ROSUVASTATIN CALCIUM IN PURE FORM AND IN PHARMACEUTICAL FORMULATION

<p>(51) International classification :G01N0021310000, A61P0043000000, C07D0239420000, C12C0005020000, G06T0007120000</p> <p>(86) International Application No :PCT/</p> <p>Filing Date :01-01/1900</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. M. Alagarraja</b> Address of Applicant :Principa&amp; Professor Department Of Pharmaceutical Analysis,, United College of Pharmacy, Combatore, Tamilnadu--641020, India. Combatore -----</p> <p><b>2)Mr. Somsubhra Ghosh</b> <b>3)Mr. Abinash Kumar sahu</b> <b>4)Mr. Rohan Pal</b> <b>5)Mr. Pragati Ranjan Satpathy</b> <b>6)Mr. Rajarshi Nath</b> <b>7)Mr. Satyabrata Jena</b> <b>8)Mr. Shambo Panda</b> <b>9)Dr. Prithwiraj Mohapatra</b> <b>10)Dr. Kantiam Chamakuri</b></p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. M. Alagarraja</b> Address of Applicant :Principa&amp; Professor Department Of Pharmaceutical Analysis,, United College of Pharmacy, Combatore, Tamilnadu--641020, India. Combatore -----</p> <p><b>2)Mr. Somsubhra Ghosh</b> Address of Applicant :Associate Professor School of Pharmacy, The Neotia University, Dimond Harbour, 24 Parganas (South), West Bengal-743368, India, Dimond Harbour -----</p> <p><b>3)Mr. Abinash Kumar sahu</b> Address of Applicant :Associate Professor, Department of Pharmaceutical Chemistry, The Pharmaceutical College, Barpali, Barpali, Bargarh, Odisha,768029, India, Barpali -----</p> <p><b>4)Mr. Rohan Pal</b> Address of Applicant :Assistant Professor, Department of Pharmacology, Global College of Pharmaceutical Technology, Krishnagar , District- Nadia,Westbengal,741102, India, Krishnagar -----</p> <p><b>5)Mr. Pragati Ranjan Satpathy</b> Address of Applicant :Associate Professor Department Of Pharmaceutical Analysis Sri Jayadev College of Pharmaceutical Sciences, Naharkanta, Bhubaneswar. Bhubaneswar Odisha-752101, India. Bhubaneswar -----</p> <p><b>6)Mr. Rajarshi Nath</b> Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, Bharat Technology, Uluberia, Howrah, Basirhat,Haldia,Westbengal-743411, India. Basirhat -----</p> <p><b>7)Mr. Satyabrata Jena</b> Address of Applicant :Associate Professor, Department of Pharmaceutics, Bhaskar Pharmacy College, Hyderabad, Rangareddy District, Hyderabad Telangana-500075, India. Hyderabad ----</p> <p><b>8)Mr. Shambo Panda</b> Address of Applicant :Associate Professor, Department of Pharmaceutical Chemistry, Bharat Technology, Uluberia, Howrah, Basirhat, Haldia, Westbengal-743411, India. Uluberia -----</p> <p><b>9)Dr. Prithwiraj Mohapatra</b> Address of Applicant :Professor, department Of Pharmacognosy, Jaypore College Of Pharmacy, Jaypore Koraput, Odisha-764002, India, Koraput -----</p> <p><b>10)Dr. Kantiam Chamakuri</b> Address of Applicant :Principal, Department of Pharmaceutical Chemistry, Brilliant Grammar School, Educational Society's Group of Institutions- Integrated Campus [Faculty of Engineering and Faculty of Pharmacy], Abdullapumet, Rangareddy District Hyderabad-501505, Telangana. Hyderabad -----</p>
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(57) Abstract :  
A new, simple and sensitive spectrophotometric method in the ultraviolet region has been developed for the determination of rosuvastatin calcium in bulk and in pharmaceutical formulations. Rosuvastatin exhibits absorption maxima at 244 nm with an apparent molar absorptivity of 7.2345 x 10<sup>4</sup> L/mol.cm in methanol. Beer's law was found to obeyed in the concentration range of 2-18 µg/ml. The method is accurate, precise, and economical. This method is extended to pharmaceutical preparations. In this method, there is no interference from any common pharmaceutical additives and diluents. The results of the analysis were validated statistically and by recovery analysis.

No. of Pages : 8 No. of Claims : 7

  
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Australian Government

IP Australia

## CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021104541

The Commissioner of Patents has granted the above patent on 13 April 2022, and certifies that the below particulars have been registered in the Register of Patents.

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Shubhrajit Mantry of Associate Professor, HOD, Department of pharmaceuticals, Sharadchandra Pawar College of pharmacy Dumberwadi, Khamundi, Pune UNKNOWN India

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Ashvani Kumar of Assistant Professor, Institute of Pharmaceutical Sciences, & Research Sohramau, Unnao, UP 209859 UNKNOWN India

**Title of invention:**

A NOVEL FORMULATION OF SILYMARIN FOR TREATMENT OF HEPATITIS

**Name of inventor(s):**

Verma, Deepshikha; Mantry, Shubhrajit; Bhowmick, Mithun; Martha, Sujit Kumar; Jaiswal, Hema and Kumar, Ashvani

**Term of Patent:**

Eight years from 25 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 13<sup>th</sup> day of April 2022

Commissioner of Patents

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PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.





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## Urkunde

über die Eintragung des  
Gebrauchsmusters Nr. 20 2022 102 391

Bezeichnung:

Polykräuterformulierung zur Verbesserung der Fruchtbarkeit

IPC:

A61K 36/82

Inhaber/Inhaberin:

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Sharma, Satyam, Vaishali, BR, IN

Tag der Anmeldung:

03.05.2022

Tag der Eintragung:

06.05.2022

Die Präsidentin des Deutschen Patent- und Markenamts

*Cornelia Rudloff-Schäffer*

Cornelia Rudloff-Schäffer

München, 06.05.2022



*[Handwritten signature]*

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## पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 20/2022 Dated 20/05/2022

30918

(12) PATENT APPLICATION PUBLICATION (21) Application No.202231022525 A  
(19) INDIA  
(22) Date of filing of Application :16/04/2022 (43) Publication Date : 20/05/2022

(54) Title of the invention : A NEW METHOD FOR PRODUCING CELLULOSE FROM THE GRASS PLANT

(51) International classification :C08B0015020000, C05F0011000000, D01F0001100000, C08J0005180000, D01F0011020000  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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2)Dr. Chitra K

(72)Name of Inventor :

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2)Dr. Chitra K

(57) Abstract :

The present invention relates to the Nanocellulose can be prepared by acid decomposition or alkaline decomposition, after going through several long and expensive steps. In our work, an innovative, environmentally friendly and cost-effective method has been derived to prepare nano cellulose from grass which is easily available as vegetable waste from large areas of playgrounds, parks and public gardens. It is mowed, washed mechanically, grounded with a sodium hypochlorite solution of different concentrations and at different times 15, 30, 45 and 60 minutes. Finally, it was washed with distilled water, and treated with ultrasonic waves. Using LDS, SEM, XRY, HPLC, and EDX procedures, as well as thermal and electrochemical examination, the produced grass nano cellulose particle size and yield were investigated.

No. of Pages : 14 No. of Claims : 4

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The Patent Office Journal No. 23/2022 Dated 10/06/2022

35102

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202211031968 A
(19) INDIA	
(22) Date of filing of Application :03/06/2022	(43) Publication Date : 10/06/2022

(54) Title of the invention : A NOVEL FORMULATION FOR PREVENTING SKIN FROM TERRIBLE CONSEQUENCES OF SANITIZERS

<p>(51) International classification :A61Q001900000, A61Q001910000, A61K0008920000, A61K0008970000, A61Q0017000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Dr Pranay Wal</b> Address of Applicant :Professor &amp; Dean Pharmacy, Pranveer Singh Institute of Technology, Kanpur , UP, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Dr Hemanga Hazarika</b> Address of Applicant :Assistant Professor, Girijananda Chowdhury Institute of Pharmaceutical Science Tezpur, Dekargaon, Sonitpur, Assam Sonitpur -----</p> <p><b>2)Aditya Bora</b> Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, University of Science and Technology , Meghalaya, Baridua, Ribhoi, Meghalaya Ribhoi -----</p> <p><b>3)V. Anil Kumar</b> Address of Applicant :Assistant Professor, Department of Pharmaceutics, GIET School of Pharmacy, Srikakulam, Andhra Pradesh Srikakulam ----</p> <p><b>4)Prof (Dr) Sangram Keshari Panda</b> Address of Applicant :Principal, Jeypore College of Pharmacy, Jeypore, Koraput, Odisha Koraput -----</p> <p><b>5)Joydeb Acharjee</b> Address of Applicant :Assistant Professor, Rahman Institute of Pharmaceutical Sciences and Research, Sonapur, Tepesia, Guwahati, Assam Guwahati -----</p> <p><b>6)Shekhar Chandra Borah</b> Address of Applicant :Assistant Professor, Girijananda Chowdhury Institute of Pharmaceutical Sciences, Tezpur, Dekargaon, Sonitpur, Assam Sonitpur -----</p>
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(57) Abstract :  
In one aspect of the present disclosure, a polyherbal composition is disclosed. The disclosed formulation does not have any ill effects on the skin. The hand sanitizer is prepared by mixing the following components in percentage by weight: aloe vera in between 12-20 %, coleus vettiveroids in between 12-22 % , Coriandrum sativum in between 5-10 % , citrus lemon in between 3-5 % , Azadirictica indica in between 2-6 % , and isopropyl alcohol in between 40 - 55% pure plant spice and the balance of de-ionized water. The composition includes a soothing agent in a therapeutically significant amount and a conditioner. The hand sanitizer is prepared by taking the various components in percentage by weight, adding to a mixing container and uniformly stirring. The hand sanitizer can inhibit bacteria and sterilize, and is abundant in foam and warm to clean; the hand sanitizer, which is added with plant additives, not only provides necessary moisturizing components for cleaned hand skin so as to keep the hand skin moist and delicate, but also effectively protects the skin from being hurt. The hand sanitizer, which contains natural citric acid, has functions of resisting and inhibiting bacteria, and is capable of enhancing anti-aging effect of the skin, improving microcirculation of the skin, and preventing the skin from becoming rough and chapped; the hand sanitizer, after long-term use, can whiten and moisturize the skin. In the prepared formulation, the alcohol was used along with oil extract to get better result. In this study the herbal extract based formulations were formulated which were used to reduce germs on hand and harmless to hand and alternative to synthetic drugs. This formulation is advanced hand sanitizer which has moisturizing properties; this is highly effective against surface microbes. Our formulation novelty lies in synergistic effects of various herbs used in preparation, for instance they are rich source of linolenic acid, which provide the anti oxidant effect along with skin smoothening benefit.

No. of Pages : 14 No. of Claims : 8



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 Bundesrepublik Deutschland 

## Urkunde

über die Eintragung des  
Gebrauchsmusters Nr. 20 2022 103 133

**Bezeichnung:**

Eine pflanzliche Mückenschutzmittel-Zusammensetzung zur Verbreitung

**IPC:**

A01N 65/44

**Inhaber/Inhaberin:**

Dash, Biswajit, Beltola, Guwahati, IN  
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Khadanga, Manasi, Koraput, IN  
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Singh, Maneesha, Dehradun, IN  
Singh, Raj, Mullana, Ambala, IN

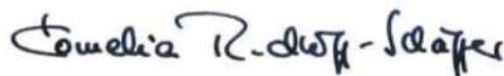
**Tag der Anmeldung:**

02.06.2022

**Tag der Eintragung:**

17.06.2022

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer

München, 17.06.2022



  
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(12) PATENT APPLICATION PUBLICATION  
(19) INDIA  
(22) Date of filing of Application :24/06/2022

(21) Application No. **202241036249 A**  
(43) Publication Date : 08/07/2022

(54) Title of the invention : MACHINE LEARNING TECHNIQUES TO ANALYZE THE IMPORTANCE OF NANO PARTICLES IN HEALING OF WOUNDS IN PATIENTS POST OPERATIVE CARE

(51) International classification :A61K0009000000, A61L0015440000, A61K0031537700, A61K0047340000, A61P0017020000  
(86) International Application No :PCT/  
Filing Date :01/01/1900  
(87) International Publication No :NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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4) DR. ANITA JAIN  
5) SANJAY RATAN KUMAVAT  
6) DR. NIKHIL RASTOGI  
7) DR. NISHANT SINGH KATIYAR  
8) MR. SANTOSH KUMAR BEHERA  
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(57) Abstract :

Machine learning techniques to analyze the Importance of Nano particles in Healing of Wounds in Patients post Operative care is the proposed invention. The invention focuses on analyzing how the direct delivery of Nano particles will improve the wound healing capacity. The proposed invention aims at fastening the wound healing in patients after getting operated. The proposed invention is very much essential in understanding the importance of drug delivery and wound healing capability.

No. of Pages : 12 No. of Claims : 3

  
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BANDHPALL JEYPORE (IN) 764002



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Approved by Government of Odisha, All India Council for Technical Education, New Delhi  
Pharmacy Council of India, New Delhi, & Affiliated to BijuPatnaik University of Technology

(12) PATENT APPLICATION PUBLICATION

(21) Application No. **202241036247 A**

(19) INDIA

(22) Date of filing of Application :24/06/2022

(43) Publication Date : 08/07/2022

(54) Title of the invention : MACHINE LEARNING BASED APPROACH TO STUDY AND ANALYZE THE PHARMACOGENOMICS ON ANTI CANCER DRUG MOLECULES

(51) International classification :C12N0015100000, C06N0020000000, C12Q0001685800, G06N0003040000, C16B0020000000

(86) International Application No :PCT//  
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

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(57) Abstract :  
Machine Learning based approach to study and analyze the pharmacogenomics on Anti Cancer Drug Molecules is the proposed invention. The invention aims at understanding the genetical sequences of every individual and how the genes will react to the therapeutic drugs. The proposed invention focuses on analyzing the importance of anti-cancer drugs molecules and its correlation with the field of pharmacogenomics.

No. of Pages : 13 No. of Claims : 3





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Pharmacy Council of India, New Delhi, & Affiliated to Biju Patnaik University of Technology

(12) PATENT APPLICATION PUBLICATION (21) Application No.202241038227 A  
(19) INDIA  
(22) Date of filing of Application :02/07/2022 (43) Publication Date : 22/07/2022

(54) Title of the invention : MODIFIED ARTIFICIAL PHOTOSYNTHESIS FOR CO2 DECARBONIZATION

(51) International classification :C25B0003040000, C10L0001020000, H01L0051000000,  
C12P0007540000, C12P0013040000  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**6)Mr. R. Veerasamy**  
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(57) Abstract :  
A method for storing the energy gathered from the sun in organic molecules has been disclosed. In order to complete the process, a supply of water and a source of carbon are both required. Solar energy is used to make the water that is already present in the water source usable. In order to produce an organic product consisting of hydrogen and carbon, activated water must undergo a reaction with the carbon source. The energy content of the organic product is much greater than that of the carbon source. A particular implementation of the organic compound involves its use as a fuel in an apparatus for the generation of electricity, such as a fuel cell. In this particular implementation, methanol is the organic chemical of choice.

No. of Pages : 20 No. of Claims : 5



  
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सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA  
पेटेंट कार्यालय  
THE PATENT OFFICE  
डिजाइन के पंजीकरण का प्रमाणपत्र  
CERTIFICATE OF REGISTRATION OF DESIGN



ORIGINAL  
मूल/No : 122404

डिजाइन सं. / Design No.	:	369047-001
तारीख / Date	:	10/08/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **BIOMEDICAL EQUIPMENT (SET) FOR ORAL RADIOGRAPHS** से संबंधित है, का पंजीकरण, श्रेणी **24-01** में 1.Ashwin Kumar Thirukkovaluri Srinivasa 2. Mr.Chandan Nayak 3.Dr. Kahnu Charan Panigrahi 4. Prof. Dr. Sangram Keshari Panda के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **24-01** in respect of the application of such design to **BIOMEDICAL EQUIPMENT (SET) FOR ORAL RADIOGRAPHS** in the name of 1.Ashwin Kumar Thirukkovaluri Srinivasa 2. Mr.Chandan Nayak 3.Dr. Kahnu Charan Panigrahi 4.Prof. Dr. Sangram Keshari Panda.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन प्रावधानों के अनुसरण में।  
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

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निर्गमन की तारीख/Date of Issue : 29/12/2022

महानियंत्रक पेटेंट-डिजाइन और व्यापार चिह्न  
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REPUBLIC OF SOUTH AFRICA  
PATENTS ACT, 1978  
COMPLETE SPECIFICATION  
[Section 30(1) – Regulation 28]

OFFICIAL APPLICATION NO.		LOGGING DATE
21	01 <b>2022/09040</b>	22 2022/08/12

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61	A61K;A61P

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TITLE OF INVENTION	
54	<b>FORMULATION FOR IMPROVING INSULIN RESISTANCE IN GESTATIONAL DIABETES MELLITUS</b>





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REPUBLIC OF SOUTH AFRICA  
PATENTS ACT, 1978  
COMPLETE SPECIFICATION  
[Section 30(1) – Regulation 28]

OFFICIAL APPLICATION NO.		LOADING DATE	
21	01 <b>2022/09040</b>	22	2022/08/12

INTERNATIONAL CLASSIFICATION	
51	A61K/A61P

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TITLE OF INVENTION	
54	<b>FORMULATION FOR IMPROVING INSULIN RESISTANCE IN GESTATIONAL DIABETES MELLITUS</b>



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(12) PATENT APPLICATION PUBLICATION (21) Application No.202241054973 A  
(19) INDIA  
(22) Date of filing of Application :26/09/2022 (43) Publication Date : 07/10/2022

(54) Title of the invention : FORMULATION AND CHARACTERIZATION OF TRANSDERMAL PATCHES OF AMLODIPINE BESYLATE USING OLIVE OIL AS THE NATURAL PERMEATION ENHANCER

(51) International classification	:A61K0009000000, A61K0031442200, A61K0009700000, A61K0008920000, A61K0031441800	(71)Name of Applicant : <b>1)Dr. DIBYA LOCHAN MOHANTY</b> Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICS ANURAG UNIVERSTIY, VENKATAPUR, MEDCHAL, HYDERABAD, TELANGANA, PIN-500088. ----- <b>2)Mr. DEEPANKAR RATH</b> <b>3)Ms. RUPALI RUPASMITA</b> <b>4)Miss. PALLISHREE BHUKTA</b> <b>5)Miss. SUCHARITA BABU</b> <b>6)ASWINI KUMAR SETHI</b> Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : <b>1)Dr. DIBYA LOCHAN MOHANTY</b> Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICS ANURAG UNIVERSTIY, VENKATAPUR, MEDCHAL, HYDERABAD, TELANGANA, PIN-500088. ----- <b>2)Dr. VASUDHA BAKSHI</b> Address of Applicant :PROFESSOR, DEPARTMENT OF PHARMACEUTICS ANURAG UNIVERSITY, VENKATAPUR, MEDCHAL, HYDERABAD, PIN-500088 ----- <b>3)Mr. DEEPANKAR RATH</b> Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA, PIN-752050 ----- <b>4)Ms. RUPALI RUPASMITA</b> Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA, PIN-752050 ----- <b>5)Miss. PALLISHREE BHUKTA</b> Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA, PIN-752050 ----- <b>6)Miss. SUCHARITA BABU</b> Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACOLOGY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA, PIN-752050 ----- <b>7)ASWINI KUMAR SETHI</b> Address of Applicant :ASSISTANT PROFESSOR, JEYPORE COLLEGE OF PHARMACY, RONDAPALLI, KORAPUT, JEYPORE, ODISHA, 764002 -----
(86) International Application No	:NA	
(87) International Filing Date	:NA	
(61) Patent of Addition to Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
(62) Divisional to Application Number	:NA	
(61) Patent of Addition to Filing Date	:NA	
(62) Divisional to Filing Date	:NA	

(57) Abstract :  
Amlodipine Basylate is employed to treat high blood pressure and prevents calcium ions from penetrating the cardiac and vascular mucosal tissue through transmembrane pathways. It was selected for synthesis because it satisfies all physicochemical criteria necessary for skin penetration. Olive oil has been demonstrated to be the much more efficient oil since it has penetrating properties and improves the stiffness of a patches during formulation. The drug's solubility, melting point, partition coefficient, and pH preformulation experiments were determined to be comparable to the norm. The solvent casting method was used to create the transdermal films for amlodipine, and various evaluation criteria, including weight variation, thickness, folding endurance, drug content, percentage moisture absorption, percentage moisture loss, and diffusion studies, were used to gauge their effectiveness. All of the parameters that the formulae indicated were within acceptable bounds. The optimal • formulation for amlodipine besylate was formulation F5, which contained olive oil and demonstrated greater release (98.89%) over a long enough time—up to 72 hours.

No. of Pages : 5 No. of Claims : 3

  
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(12) PATENT APPLICATION PUBLICATION  
(19) INDIA  
(22) Date of filing of Application :26/09/2022

(21) Application No.202241055095 A  
(43) Publication Date : 07/10/2022

(54) Title of the invention : SYSTEMATIC APPROACH TO PREDICT THE IMPORTANCE OF DIRECT DELIVERY OF NANOPARTICLES TO SKIN FOR COMPLEXION CARE

<p>(51) International classification :B82Y0030000000, B82Y0005000000, A61K0039395000, C12N00115100000, H01L0031054000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)SANJAY KUMAR GUPTA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICS, GLOBAL COLLEGE OF PHARMACY, MOINABAD,501504 HYDERABAD -----</p> <p>2)DR.RAKESH BARIK</p> <p>3)DR.ARJUN GOJE</p> <p>4)ASHIS KUMAR MANNA</p> <p>5)MR.SWALIN PARIJA</p> <p>6)MR.CHETAN KUMAR DUBEY</p> <p>7)MR.ABHISHEK NAGAR</p> <p>8)DR. LUBHAN SINGH</p> <p>9)MR. ASWINI KUMAR SETHI</p> <p>10)DR. THATIKONDA KEERTHI</p> <p>11)DR.SINOY SUGUNAN</p> <p>12)SATYABRATA JENA</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)SANJAY KUMAR GUPTA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICS, GLOBAL COLLEGE OF PHARMACY, MOINABAD,501504 HYDERABAD -----</p> <p>2)DR.RAKESH BARIK Address of Applicant :ASSISTANT PROFESSOR, GITAM SCHOOL OF PHARMACY, GITAM DEEMED TO BE UNIVERSITY, HYDERABAD, 502329, HYDERABAD -----</p> <p>3)DR.ARJUN GOJE Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHAMACEUTICS,TEEGALA RAM REDDY COLLEGE OF PHARMACY,HYDRABAD,500097 HYDERABAD -----</p> <p>4)ASHIS KUMAR MANNA Address of Applicant :ASSISTANT PROFESSOR DEPT.OF PHARMACOLOGY, SEEMANTA INSTITUTE OF PHARMACEUTICAL SCIENCES, JHARPOKHARIA, MAYURBHANI, ODISHA, PINCODE - 757086 BARIPADA -----</p> <p>5)MR.SWALIN PARIJA Address of Applicant :ASSISTANT PROFESSOR,DEPARTMENT OF PHARMACEUTICS,INSTITUTE OF PHARMACY &amp; TECHNOLOGY,SALIPUR, CUTTACK-ODISHA-754202 CUTTACK -----</p> <p>6)MR.CHETAN KUMAR DUBEY Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACOLOGY, CAREER POINT SCHOOL OF PHARMACY, CAREER POINT UNIVERSITY, KOTA RAJASTHAN-325001 KOTA -----</p> <p>7)MR.ABHISHEK NAGAR Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACOGNOSY, CAREER POINT SCHOOL OF PHARMACY, CAREER POINT UNIVERSITY, KOTA, RAJASTHAN, 325001, KOTA -----</p> <p>8)DR. LUBHAN SINGH Address of Applicant :PROFESSOR, DEPARTMENT OF PHARMACOLOGY, KHARVEL SUBHARTI COLLEGE OF PHARMACY, SWAMI VIVEKANAND SUBHARTI UNIVERSITY,MEERUT, (U.P.)250005 MEERUT -----</p> <p>9)MR. ASWINI KUMAR SETHI Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY, JEYPORE COLLEGE OF PHARMACY RONDAPALLI, JEYPORE, KORAPUT, ODISHA-764002 JEYPORE -----</p> <p>10)DR. THATIKONDA KEERTHI Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PHARMACY PRACTICE,ST PAULS COLLEGE OF PHARMACY, TURKAYAMJAL,HYDERABAD- 501510 HAYATHNAGAR -----</p> <p>11)DR.SINOY SUGUNAN Address of Applicant :ASSISTANT PROFESSOR, GITAM SCHOOL OF PHARMACY, GITAM DEEMED TO BE UNIVERSITY, HYDERABAD CAMPUS, SANGAREDDY DISTRICT,502329 HYDERABAD -----</p> <p>12)SATYABRATA JENA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHARMACEUTICS, BHASKAR PHARMACY COLLEGE, HYDERABAD, 500075 HYDERABAD -----</p>
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(57) Abstract :  
Systematic approach to predict the importance of direct delivery of nanoparticles to skin for complexion care is the proposed invention. The proposed invention focuses on analysing the impact of nano particles for skin treatment. The proposed invention aims at analysing the exact skin tone and texture. The database of various nano particles is considered for analysing their properties, directly delivering them and improving the skin complexion.

No. of Pages : 14 No. of Claims : 5

  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241064889 A

(19) INDIA

(22) Date of filing of Application :12/11/2022

(43) Publication Date : 25/11/2022

(54) Title of the invention : Advanced Nano Phyto formulations based targeted drug delivery

(51) International classification :A61K0009700000, A61P0025280000, A61K0036886000, A61P0017020000, A61K0036906600  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No :NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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4)Dr. Satyabrata Jena  
5)Dr. Srinivas Ganganagunta  
6)Dr. Nihar Ranjan Kar  
7)Mr. Tapan Kumar Sahu  
8)Mrs. Itishree Jogamaya Das  
9)Mr. Yagnambhatla Rajendra  
10)Dr. Himansu Bhusan Samal  
11)Mr. Sai Prakash Panigrahi

Name of Applicant : NA  
Address of Applicant : NA

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Address of Applicant :Senior Faculty in Physics, Engineering Department, University of Technology and Applied Sciences-IBRA, IBRA, North Al Sharqia Region, Oman, Postal Code: 400 -----

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9)Mr. Yagnambhatla Rajendra  
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11)Mr. Sai Prakash Panigrahi  
Address of Applicant :Assistant Professor, Department of Pharmacology, Radha Govind University, Raigarh, Jharkhand, India, Pincode:829122 -----

(57) Abstract :

This invention pertains to a pharmaceutical preparation and a method of preparation for treating challenged tissue in humans and animals, such as skin wounds and ulcers. The pharmaceutical preparation may be used to treat skin wounds and ulcers. This anti-cancer transdermal patch for melanoma treatment also refers to the multifunctional natural matrix that is intended for the treatment of impaired tissues. In addition, the invention includes a method for the treatment of Alzheimer's disease in addition to multiple sclerosis. The composition is made up of a water-solubilized nano-sized formulation of a non-aqueous solvent extract of phyto-pharmaceuticals in a herbal, animal, or synthetic biocompatible gel or on matrix coated, or both. In the most advantageous implementation, the composition is implemented as a topical device for the purpose of treating damaged tissues.

No. of Pages : 21 No. of Claims : 3



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(12) PATENT APPLICATION PUBLICATION  
(19) INDIA  
(22) Date of filing of Application :24/12/2022


(21) Application No.202211075189 A  
(43) Publication Date : 30/12/2022

(54) Title of the invention : THE DETECTION OF VARIED EEG PATTERN SIGNAL FOR CHRONIC MIGRAINE PATIENTS

<p>(51) International classification :A61B0005000000, A61P0025060000, A61B0005374000, A61B0005316000, A61B0005369000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Dr. MAHESH KUMAR GUPTA</b> Address of Applicant :DEAN, Department of Pharmacy, Career Point University, National Highway 52, Opp. Alaniya Mata ji Mandir, Kota, Rajasthan, India-324005. -----</p> <p><b>2)Mr. DEBASHIS PUROHIT</b> <b>3)Ms. SUBHASHREE CHOUDHURY</b> <b>4)Ms. MAZMA BEGUM</b> <b>5)Dr. LUBHAN SINGH</b> <b>6)Mrs. SHAINDA LAEEQ</b> <b>7)Dr. MANISH PATHAK</b> <b>8)Mr. BISWAJEET ACHARYA</b> <b>9)Dr. KETAN VINAYAKRAO HATWARE</b> <b>10)Dr. UMAMA TEHREEM</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Dr. MAHESH KUMAR GUPTA</b> Address of Applicant :DEAN, Department of Pharmacy, Career Point University, National Highway 52, Opp. Alaniya Mata ji Mandir, Kota, Rajasthan, India-324005. -----</p> <p><b>2)Mr. DEBASHIS PUROHIT</b> Address of Applicant :Research Scholar, Department of Pharmacy, Career Point University, National Highway 52, Opp. Alaniya Mata ji Mandir, Kota, Rajasthan, India- 324005. -----</p> <p><b>3)Ms. SUBHASHREE CHOUDHURY</b> Address of Applicant :Assistant Professor, Department of Pharmaceutical Technology, Jeypore College of Pharmacy, Jeypore, Korapat, Odisha, India- 764002. -----</p> <p><b>4)Ms. MAZMA BEGUM</b> Address of Applicant :Assistant Professor, Department of Pharmaceutical Analysis and Quality Assurance, Jeypore College of Pharmacy, Jeypore, Korapat, Odisha, India- 764002. -----</p> <p><b>5)Dr. LUBHAN SINGH</b> Address of Applicant :Professor, Department of Pharmacology, Kharvel Subharti College of Pharmacy, Swami Vivekanand Subharti University, Meerut, Uttar Pradesh, India- 250005. -----</p> <p><b>6)Mrs. SHAINDA LAEEQ</b> Address of Applicant :Assistant Professor, Department of Pharmacy, Maharana Pratap College of Pharmacy, Kothi, Mandhana, Kanpur, Kanpur, Uttar Pradesh, India-209217. -----</p> <p><b>7)Dr. MANISH PATHAK</b> Address of Applicant :Associate Professor, Department of Pharmaceutical Chemistry, Kharvel Subharti College of Pharmacy, Swami Vivekananda Subharti University, Meerut, Uttar Pradesh, India-250005. -----</p> <p><b>8)Mr. BISWAJEET ACHARYA</b> Address of Applicant :Assistant Professor, Department of Pharmacology, School of Pharmacy, Centurion University of Technology and Management, Balangir, Odisha, India-767001. -----</p> <p><b>9)Dr. KETAN VINAYAKRAO HATWARE</b> Address of Applicant :Assistant Professor, Department of Pharmacology, SVKM'S NMIMS Deemed to be University, School of Pharmacy and Technology Management, Shirpur Campus, Shirpur, Maharashtra, India-425405. -----</p> <p><b>10)Dr. UMAMA TEHREEM</b> Address of Applicant :Assistant Professor, Department of Pharmacy Practice, Anwarul Uloom College of Pharmacy, New Mallepally, Hyderabad, Telangana, India- 500001. -----</p>
--	---

(57) Abstract :  
The analysis of particular (electroencephalographic) EEG frequency bands has revealed new insights relative to the neural dynamics that, when studying the EEG spectrum as a whole, would have remained hidden. This study is aimed at characterizing spectral resting state EEG patterns for assessing possible differences of episodic and chronic migraine during the interictal period. For that purpose, a novel methodology for analyzing specific frequencies of interest was performed. Methods. Eighty-seven patients with migraine (45 with episodic and 42 with chronic migraine) and 39 age- and sex-matched controls performed a resting-state EEG recording. Spectral measures were computed using conventional frequency bands. Additionally, particular frequency bands were determined to distinguish between controls and migraine patients, as well as between migraine subgroups. Results. Frequencies ranging from 11.6 Hz to 12.8 Hz characterized migraine as a whole, with differences evident in the central and left parietal regions (controlling for false discovery rate). An additional band between 24.1 Hz and 29.8 Hz was used to discriminate between migraine subgroups. Interestingly, the power in this band was positively correlated with time from onset in episodic migraine, but no correlation was found for chronic migraine. Conclusions. Specific frequency bands were proposed to identify the spectral characteristics of the electrical brain activity in migraine during the interictal stage. Our findings support the importance of discriminating between migraine subgroups to avoid hiding relevant features in migraine.

No. of Pages : 19 No. of Claims : 7



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## One Day Seminars

### ABOUT THE INSTITUTE

Jeypore College of Pharmacy founded in the year 2000, has today grown to become one of the forefront educational institutes in KBK District. Jeypore College of Pharmacy started in the year 2001. The institute is managed by Banagiri Development Trust. It is teeming with academic research, medicinal garden, canteen, play ground and personal development activities. Jeypore College of Pharmacy is one among the 33 plus Pharmacy College in Orissa, securing a place among the top ten private institutions. The Institute offers D. Pharm, ( 2 years) B. Pharm ( 4 years) and M. Pharm (Pharmaceutical Technology, Pharmaceutical Analysis & Quality Assurance, Pharmacognosy and Pharmacology) (2 years) complying with the norms of AICTE & PCI. The institution is approved by All India Council for Technical Education (AICTE), Pharmacy Council of India (PCI), Ministry of Health & Family Welfare, Government of Orissa and affiliated to Biju Patnaik University of Technology, Odisha & Orissa State Board of Pharmacy, Odisha.

### OBJECTIVES OF THE WORKSHOP

- To ensure that animals are not subjected to unnecessary pain or suffering before
- To provide specifications that will enhance animals well being and quality of research.
- To understand the effective functioning of Institutional animal ethical committee

### AGENDA

9:30 AM-10:00 AM ·  
Inauguration

11:00 AM-12:00 AM Session 1  
CPCSEA Guidelines for animal  
experimentation

### REGISTRATION DETAILS:

Registration fees of the one day workshop is free.

Please send your details to our email id

jcprincipal2001@gmail.com

  
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### One day Workshop on “CPCSEA Guidelines for animal experimentation”

Organized by  
Jeypore College of Pharmacy,  
Jeypore, Odisha

9-Feb-22



  
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Photo: One day Workshop on “CPCSEA Guidelines for animal experimentation”

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**Fig 44. One-day Seminar on How to attained interview**

  
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**Fig 45. One-day Seminar on Personality Development**

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**Fig46. A Talk on Soft Skills**

  
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Fig:47 One-day Industrial expert talk cum interaction program by Mr. Ansuman Barik.

  
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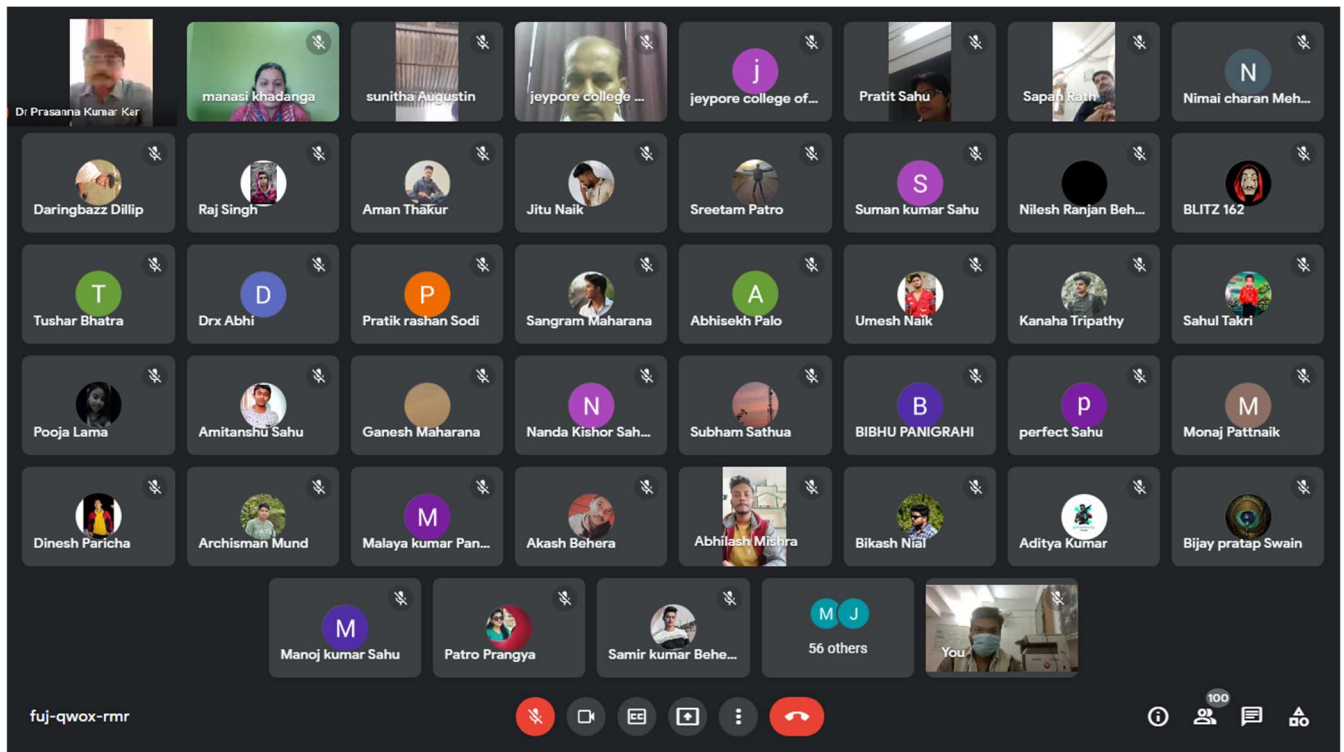


Fig48. One day webinar on a role of leadership quality

  
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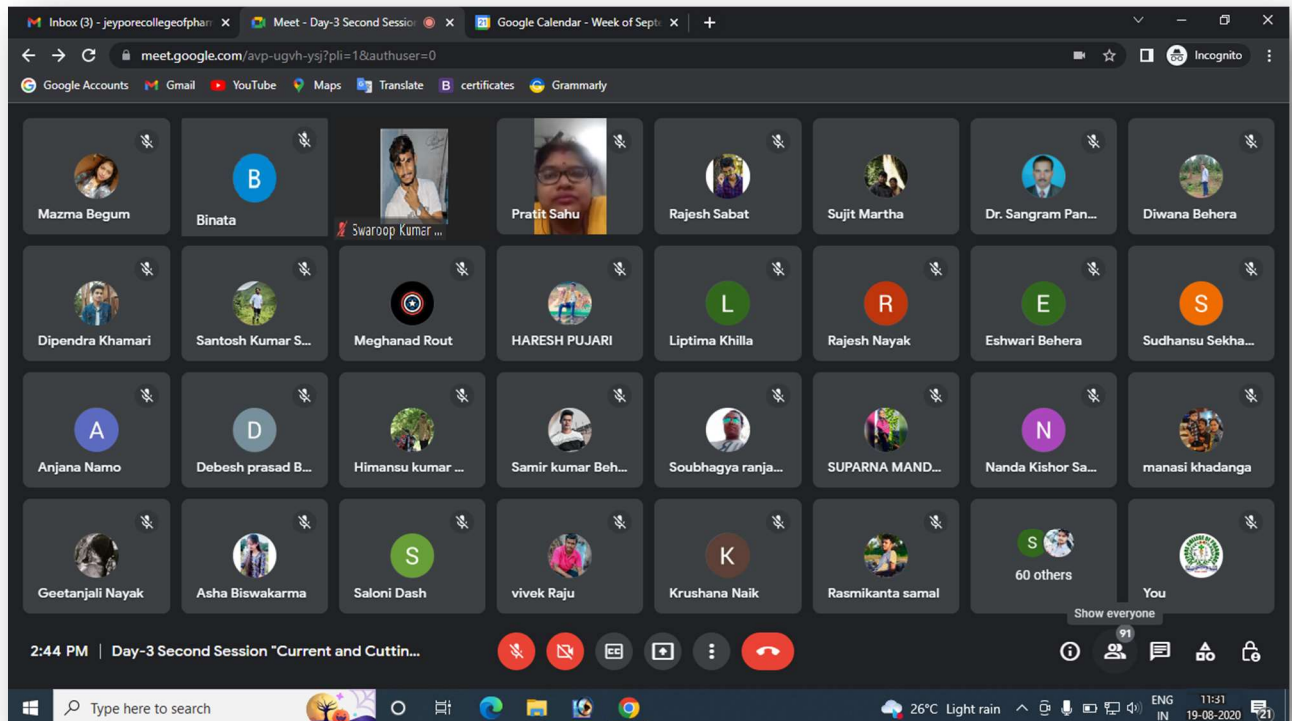


Fig49. One-day webinar on presentation skills

  
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Fig50. One-day seminar on presentation skills

  
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Fig:51. Students and industry interaction in carrier counselling on pharmacovigilance on soft skills by Mr. Amlendu Das

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**Fig52. Talk on Resume Building**

  
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**Fig:53. Workshop on Personality Development**

  
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**Fig.1. Mr. Sujit Kumar Martha, Dept of Pharmacology**



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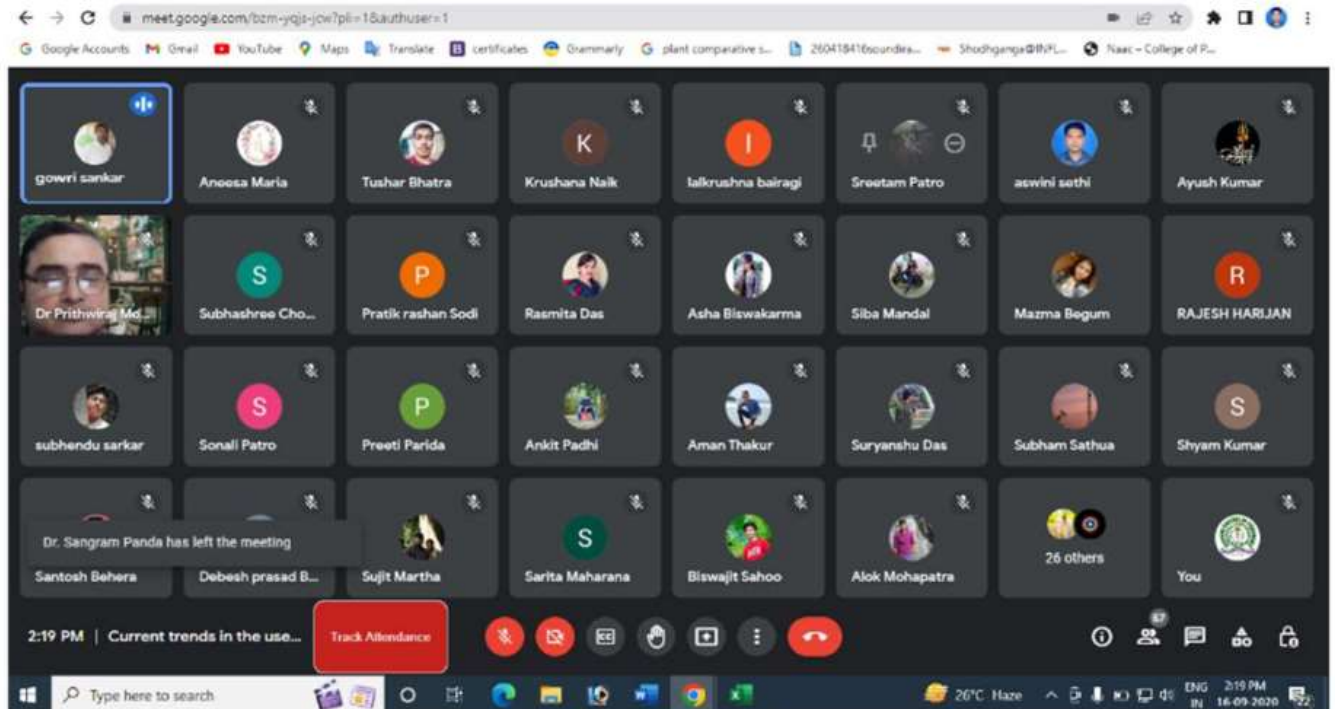
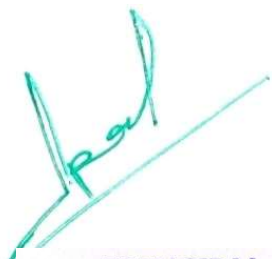


Fig:2. Mr. Ch. Gouri Shankar, Dept. Of Pharmaceutics

  
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**Fig:3. Mr. Vikram Viswajit Vinod Kumar Mishra, Dept of Pharmaceutical Technology**

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