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# CENTRE FOR DRUG DESIGN

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**Version 1/2023**



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# Message from CEO



I am happy to see that the Research Centre is getting ready to publish its R&D profile, which will highlight its product oriented research capabilities and contributions as well as provide a quick overview of current initiatives. It is a crucial document not only for the institute, but also for industry and research labs to learn about the institution's research capabilities so they can use the university's research services. The knowledge which our students have received would also be advantageous in potentiating them. Additionally, it would aid in spreading the institute's accomplishments in research and development. I'm sure it would help future faculty members as well as the students to understand the institute's research and progress.

**Prof. Gurudutta Pattnaik**

Centre Coordinator & CEO, Centre for Drug Design.



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## **CENTRE FOR DRUG DESIGN**

**T**he centre for drug design (CDD) was established in 2020 at the university with the goal to discover drugs or formulations to fight against life threatening infectious and non infectious diseases.

The centre consists of a group of enthusiastic and experienced faculty members actively pursuing collaborative research with in academic community as well as with industrial partners both in India and abroad.

The centre comprises of 60 no of faculties from different branches of applied science like Pharmacy, Zoology, Botany, Forensic Science. The members are actively involved in discovery and synthesise of New Chemical Entities (NCEs) through In-silico, in-vitro and in-vivo approach from natural resources to fight against life threatening infectious and non-infectious diseases by doing interdisciplinary research.

### **AIM**

Team enthusiastically utilizes dry lab experimentation with Drug discovery studio using Biovia, Design of experimentation (DOE) and quality by design (QbD) approaches and with wet lab experimentation on microbial technology, medicinal chemistry, molecular biology, in silico approaches, formulation development and characterization (in-vitro and in-vivo) of some novel formulations, Nutraceuticals formulation development in cosmetic.

### **OBJECTIVE**

The centre involves in Technology transfer of their Lab scale formulation to be the Pilot Batches for the industrial application before entering in to the product market and also performing different phases of clinical trials.

# Center For Drug Design



## *Members:*

Campus	Major	Minor
Bhubaneswar:	19	09
Balasore:	08	01
Rayagada:	04	10
Balangir:	08	08
<b>Total:</b>	<b>39</b>	<b>28</b>

*Centre Coordinator & CEO*

**Prof. Gurudutta Pattnaik**

*Centre Co-Coordinator*

**Dr. Himansu Bhusan Samal**

# Centre Members

Name of the Member

Mr Abhisek Sahu

Mr Abinash Patra

Miss Anima Jena

Mr Anshuman Panda

Mrs Ayushi Pradhan

Mr Bharatbhusan sahu

Mrs Binapani Barik

Mr Binayak Mishra

Mr Biswajit Samantaray

Mr Deepankar Rath

Mr Dharmendra pradhan

Mr Dinesh Kumar Sharma

Ms. Rasmita Dash

Dr. Ashirbad Nanda

Dr. Bhisma Narayan Ratha

Dr. Chandra Sekhar Patro

Dr. Gyanranjan Mahalik

Dr. Nihar Ranjan Kar

Dr. Prafulla Kumar Sahu

Dr. Sagarika Parida

Dr. Santosh Kumar Ranajit

Dr. Saripilli Rajeswari

Dr. Ashish Kumar Sarangi

Dr. Kalpita Bhatta

Mr Durga Prasad Mishra

Mr Gnyana Ranjan Parida

Dr Gopal Krishna Padhy

Mr Haragouri Mishra

Mr Hrudesh Priyadarsan Sahoo

Miss Jayshreemaa Biswal

Mr. Jyotiprakash Guru

K Shyam Sundar Rao

Mrs. Kamini Sethy

Name of the Member

Mr. Ladi Alik Kumar

Miss. Manisha Panda

Miss. Sucharita Babu

Mr. Bikash Ranjan Jena

Mr. Rakesh Meher

Mr. Sukumar Purohit

Mr. Suman Kumar Mekap

Mrs. Annanya Gangopadhyay

Mrs. Rupali Rupasmita Rout

Miss. Pallishree Bhukta

Miss. Rasmita Jena

Mr. Sangram Kishore Routray

Mr. Satish Kanhar

Mr. Shantanu Bhattacharyya

Miss. Shruti Rajwar

Mrs. Shubhashree Das

Miss. Shuvashree Meher

Mr. Shyama Sundar Sahu

Mr. Sidharth parida

Mr. Sujay kumar Parida

Mrs. Swagatika Das

Mr. Swarnajeet Tripathy

Miss. Tamosa Mukherjee

Mrs. Varsha Singh

Mr. Vijaya Kumar meher

Mr. Wishard la Vincent Barreto

Mr. Yashwant Giri

Ms. V. Pravallika



# PRODUCT DETAILS

*We have formulated two formulations i.e. Day Cream and Cleansing Gel. Both formulations are based on herbal ingredients. For these formulations we have extracted the ingredients from different plants and their parts. Also the extraction process was performed using our own facilities. Both formulations were prepared in our pharmaceuticals laboratories and tested on our staffs for spread ability, oiliness, smoothness after applications, vanishing, soothing properties. The feedback from all were satisfactory.*

*On a large scale our formulations will be prepared by Ganesha cosmetics and will be marketed by Naturals. Currently we have got order for 5000 units and we are very much confident that our products will be very much successful in the market. As of now, we are working on two more formulations and very much closer to reach our desired results. Some more products are also in pipeline.*



## ***PRODUCTS IN PIPELINE...***

**NUTMEG BASED  
HAND AND FOOT  
CREAM**

**COFFEE BASED  
NIGHT OIL OR  
SERUM**

**BODY SCRUB**

**HAND WASH  
POWDER**

**SUN SCREEN  
LOTION**

**ANTI PIGMENTATION SERUM**



# PRODUCT DEVELOPMENT TEAM



## ***DOE & QBD TEAM***



## ***TEAM BIOVIA***



## ***CLINICAL TRIAL TEAM***



## ***PLANT TAXONOMY IDENTIFICATION AND PHYTO EXTRACTION TEAM***



## ***RESEARCH/ BOOK PUBLICATION/ DETAILS***

### **Publication Details 1<sup>st</sup> January 2022 to till date**

#### **Total Numbers of Publication (2022-23):**

<b>Campus</b>	<b>Journal Published</b>	<b>Book Published</b>	<b>Book Chapter Published</b>	<b>Patent Published</b>
<b>Bhubaneswar:</b>	40	22	08	22
<b>Balasore:</b>	20	06	00	26
<b>Rayagada:</b>	16	00	16	10
<b>Balangir:</b>	14	01	03	07
<b>Total</b>	<b>90</b>	<b>29</b>	<b>27</b>	<b>65</b>

## ***SOME SELECTED PUBLICATION DETAILS***

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## ***SOME SELECTED PUBLICATION DETAILS***

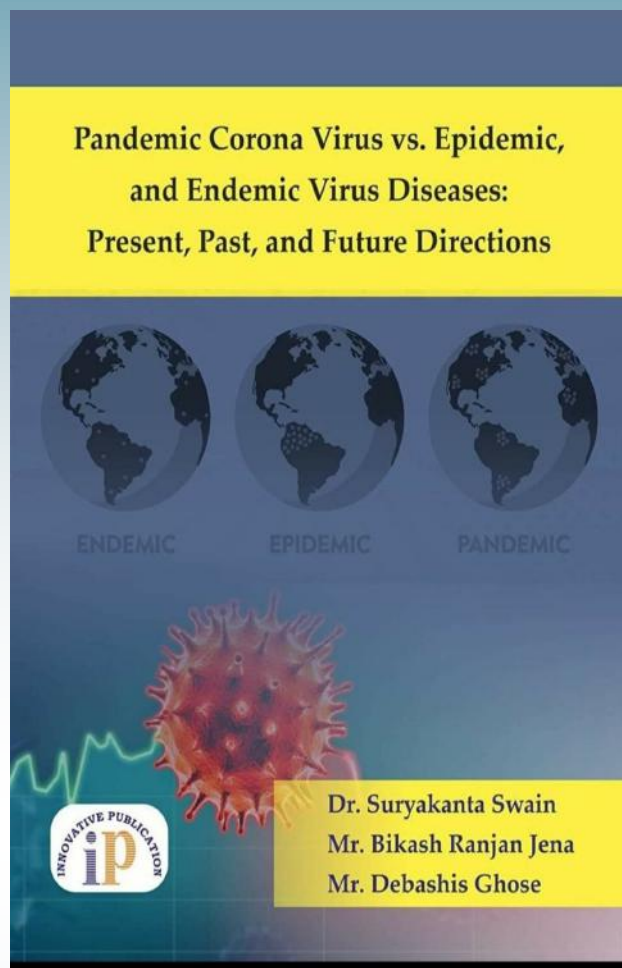
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36. Ranjan Kumar Mohapatra, Ashish K. Sarangi, Venkataramana Kandi, Sandip Chakraborty, Deepak Chandran, Mahmoud Alagawany, Kuldeep Dhama, Chiranjib Chakraborty, Recent re-emergence of Marburg virus disease in an African country Ghana after Guinea amid the ongoing COVID-19 pandemic: another global threat? Current knowledge and strategies to tackle this highly deadly disease having feasible pandemic potential – Correspondence, *Int. J. Surg.* (2022) (IF: 13.4)
37. Ranjan K. Mohapatra, Ashish K. Sarangi, Sandip Chakraborty, Hardeep Singh Tuli, Manojit Bhattacharya, Chiranjib Chakraborty, Wanpen Chaicumpa, Kuldeep Dhama, NeoCoronavirus (NeoCoV) and its possible future global health threats – Current knowledge and counteracting prospects – Correspondence, *Int. J. Surg.* 106 (2022), 106922. (IF: 13.4)
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# BOOK PUBLISHED



## Review Article

### Advancement and Applications of Platelet-Inspired Nanoparticles: A Paradigm for Cancer Targeting

(E-pub Ahead of Print)

Published on: 06 July, 2022

Author(s): Debashish Ghose, Suryakanta Swain\*, Chinam Niranjan Patra, Bikash Ranjan Jena and Muddana Eswara

#### Affiliation

- School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Bhubaneswar-751009, Odisha, India

Chemistry is a science that deals with the composition structure and properties of substances and with the transformation that they undergo. Analytical chemistry is a branch of chemistry involved with the analysis of chemical substances. It encompasses the theory and practice of all means of acquiring information about the composition of matter. The analysis is used here in a broad sense to include identifying substances called qualitative analysis, determining the concentration or amount of substance called quantitative analysis and determining the structure of substances. Pharmaceutical analysis plays a very vital role in the Quality Assurance and quality control of Bulk Drugs. Here we discussed about Ilaprazole and Domperidone validation by using RP-HPLC methods.



Ladi Alik Kumar, M.Pharm working as an Asst Professor at Centurion University of Technology and Management, Odisha, India, also continuing my Ph.D. at Centurion university of technology and Management. My research area is Nanotechnology-based drug delivery system.

FOR AUTHOR USE ONLY

Ladi Alik Kumar  
Gurudutta Pattnaik  
Chanra Sekhar Patro

### Development and Validation of RP-HPLC Methods

Simultaneous Estimation of RP-HPLC methods in Ilaprazole and Domperidone



# BOOK PUBLISHED



The aim of the undertaken research work was to synthesize molecules, which could have opportunity of inhibiting growth of bacteria and fungi. Techniques and quality method was used to synthesize 2-(chromen-2-ylidene)acetone derivatives. They were tested for antimicrobial activity against various organisms by the reaction between 2-(chromen-2-ylidene)acetone and 2-mercaptoethyl thioacetone in presence of various and ethylhexyl acetate, 2-(2-hydroxyethyl)thioacetone and hydroxide (2) was synthesized from 2-(2-(2-mercaptoethyl)thioacetone)-2-mercaptoethyl acetone and 100% HPLC HPLC in ethanol as a solvent. Compound (1), (2), (3) and (4) were synthesized by reaction of compound (2) with various alcohols and gain in acidic acetaldehyde in ethanol. The purity and homogeneity of all the 100 compounds. The synthesized compounds were obtained in solid state in yield ranging from 61 to 88%. In case of antimicrobial activity compound 4 was found to be the most active compound among the other derivatives. Synthesis and antimicrobial activity of compound 4 was found to be the most active.

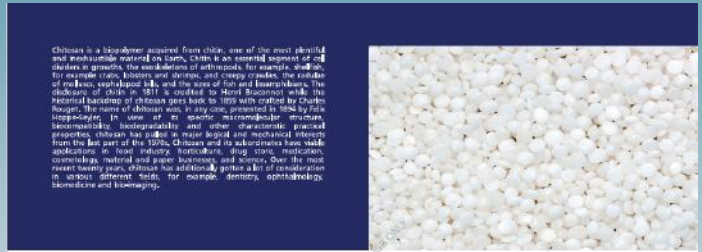
Good Krishna Pathy  
S. H. Bhasale

## Synthesis and Antimicrobial activity of some Chrome-2-one derivatives

Synthesis, Characterization and Antimicrobial Screening of some Chromen-2-one acetylthiopyridines



Dr. Good Krishna Pathy obtained his Ph.D. degree from Sambalpur University. He worked as an assistant professor in Maharaja College of Pharmacy, Bhubaneswar. For 12 years. Currently he is working as an associate professor in Centurion University of Technology and Management, Odisha.



Chitosan is a bio-polymer acquired from chitin, one of the most abundant and well-known natural polymers. Chitin is an essential component of all chitinous organisms, the main building of arthropods, for example, shell of the marine crustaceans, insect cuticle, and the walls of fish and bivalves. The chitin of chitin is used for many biomedical applications. The chemical backbone of chitosan gives leads to ions with cationic character. The name of chitosan was, in any case, proposed in 1964 by Frits Hoppenberg. In view of its specific macro-molecular structure, biocompatibility, biodegradability and other characteristics, practical properties, chitosan has gained major biological and medicinal interests from the last part of the 1970s. Chitosan and its derivatives have made applications in food industry, cosmetics, drug stores, nutrition, cosmetics, material and paper business, and science. Over the most recent twenty years, chitosan has additionally gotten a lot of consideration in various different fields, for example, dentistry, ophthalmology, hemodialysis and hematology.

Mihir Ranjan Kar

## CHITOSAN BASED DRUG DELIVERY SYSTEMS: A REVIEW



I am Mihir Ranjan Kar. Currently working as an Assistant Professor in Centurion University of Technology and Management, Rayagada Campus, Odisha. I am interested in Pharmaceutical Research and Academic since from my B.Pharm. I have done M.Pharm in Pharmaceutics from BUAT, Odisha.



This book is a platform to convey essential concepts of solid lipid nanoparticles, a colloidal nano drug delivery system. Solid lipid nanoparticles, known as SLN, this promising drug carrier system is at the forefront in the present lipid system cosmetics and biomaterial and polymer nanoparticles systems. These systems can be employed to deliver several solid lipid nanoparticles for a range of biomedical applications. This book explains the advantages, drug administration preparation methods, characteristics of SLN. The preparation of solid lipid nanoparticles is explained. It also explains the targeted drug delivery through SLN. The concept of PEG coating on SLN in the end of this book, has become an important reference source for scientists, teachers, doctors, research scholars, and university students, who are interested in the field.

Sekanta Satapathy  
Chandra Babbar Patra  
Ladi Alik Kumar

## Solid Lipid Nanoparticles : a Nano Carrier for Drug Delivery

Lipid based Colloidal nano carriers for efficient drug delivery.



Working as Asst. professor in School of Pharmacy, Centurion University of Technology and Management, Odisha Bhubaneswar. He has an experience of 7 years in teaching and research in nano pharmaceutical technology. Much part of the research about nano carriers for drug delivery.



The aim of the present research work was to formulate and evaluate the sustained release matrix tablets of Phenypropanolamine HCl in order to reduce patient compliance and reduce the adverse effect by reducing the dosing frequency. The absence of interaction between the drug and the polymer excipients was confirmed by IR spectroscopy and DSC. The matrix tablets were formulated by wet granulation technique using hydroxypropyl methylcellulose and polyvinylpyrrolidone as binder. In vitro release studies showed that the use of EC and HPMC alone were not helpful in successfully retarding the release. But the combination of both retarded the release up to 8 hrs. The most granular addition and coating of EC contributed significantly in retarding the drug release. The granules were evaluated for bulk density, tapped density, Carr's index, Hausner's ratio, and angle of repose. The prepared tablets were evaluated for thickness, hardness, percentage friability, and drug content. All the results obtained were found to be satisfactory. The final formulation having a hydrophilic core with a hydrophobic coat was found to be successful in prolonging the drug release over a period of 08hrs.

HARA GOURI MEHRA  
MEHARJAN JAGAT  
SWAGATIKA DASH

## The formulation and evaluation of the sustained release matrix tablets

Phenypropanolamine Hydrogen Chloride



Mr. Harigour Mehra completed his graduation and post-graduation from Jopura College of Pharmacy, Jopura, Odisha, India. He is having a total of 5 years of teaching experience. He guides graduate and post-graduates of Pharmacy.



MISS SWAGATIKA DAS IS PRESENTLY WORKING AS A ASST PROFESSOR, SCHOOL OF PHARMACY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, GOPALPUR AND HAVING 4 YEARS EXPERIENCE IN THE FIELD OF PHARMACY. SHE DID HER M.PHARM AT UTKAL UNIVERSITY, BHUBANESWAR. SHE HAD PARTICIPATED MANY NATIONAL AND INTERNATIONAL CONFERENCES HER SPECIALIZATION IS OPHTHALMIC DRUG DELIVERY SYSTEM.....

MR LADI ALIK KUMAR IS PRESENTLY WORKING AS A ASST PROFESSOR, SCHOOL OF PHARMACY, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, RAYAGADA AND HAVING 8 YEARS EXPERIENCE IN THE FIELD OF TEACHING AND INDUSTRY. HE DID HIS M.PHARM AT GIST GUNUPUR. HE HAD PUBLISHED MORE THEN 15 RESEARCH AND REVIEW ARTICLES. HE HAD ALSO PARTICIPATED MANY NATIONAL AND INTERNATIONAL CONFERENCES. HIS SPECIALIZATION IS NANOPARTICLE DRUG DELIVERY SYSTEM.....

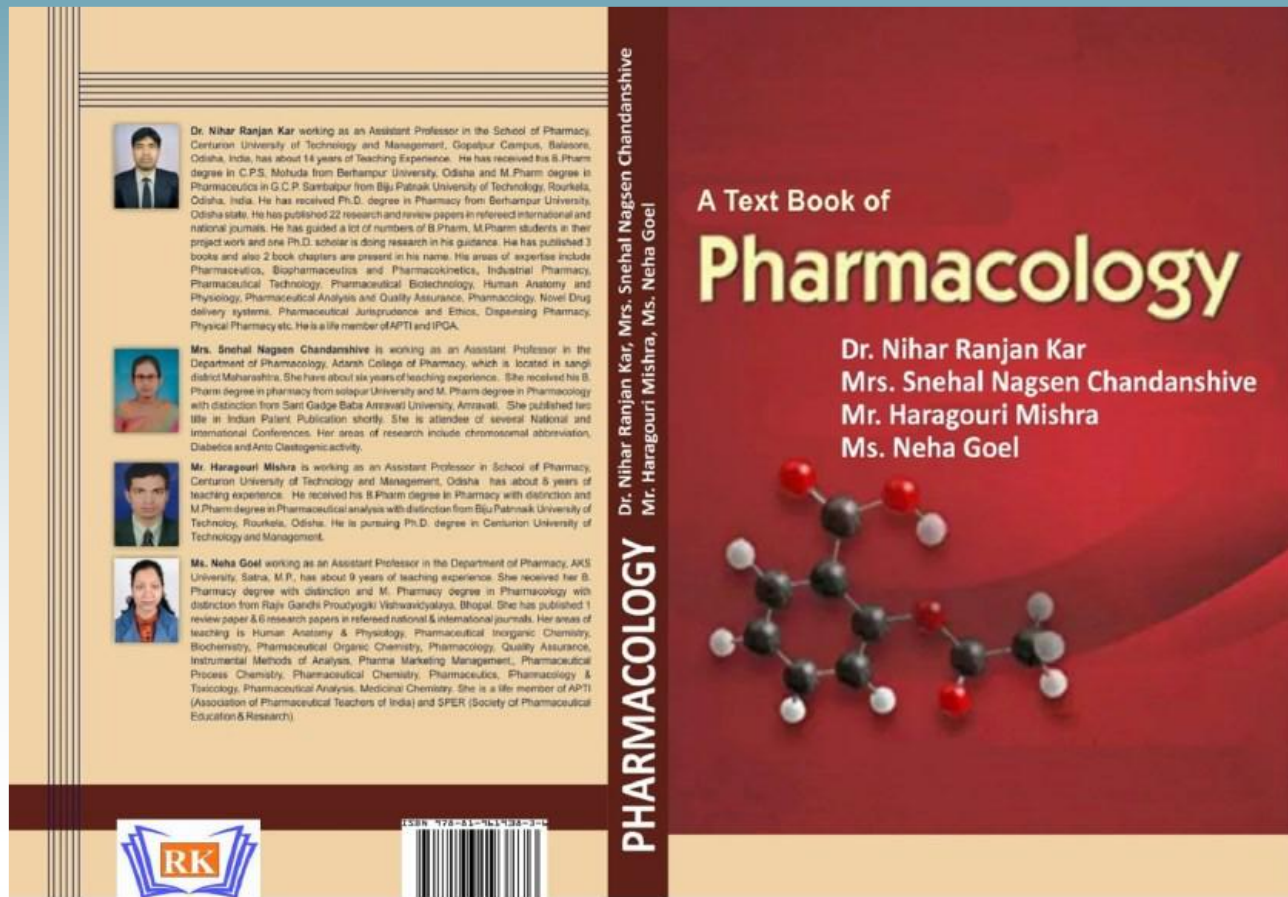
An Introduction To  
**ORODISPERSIBLE TABLET**  
SWAGATIKA DAS  
LADI ALIK KUMAR

ISBN 9783039141933

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# BOOK PUBLISHED



**Dr. Nihar Ranjan Kar** working as an Assistant Professor in the School of Pharmacy, Centurion University of Technology and Management, Gopalpur Campus, Balasore, Odisha, India, has about 14 years of Teaching Experience. He has received his B.Pharm degree in C.P.S. Mohuda from Berhampur University, Odisha and M.Pharm degree in Pharmaceutics in G.C.P. Sambalpur from Biju Patnaik University of Technology, Rourkela, Odisha, India. He has received Ph.D. degree in Pharmacy from Berhampur University, Odisha state. He has published 22 research and review papers in refereed international and national journals. He has guided a lot of numbers of B.Pharm, M.Pharm students in their project work and one Ph.D. scholar is doing research in his guidance. He has published 3 books and also 2 book chapters are present in his name. His areas of expertise include Pharmaceutics, Biopharmaceutics and Pharmacokinetics, Industrial Pharmacy, Pharmaceutical Technology, Pharmaceutical Biotechnology, Human Anatomy and Physiology, Pharmaceutical Analysis and Quality Assurance, Pharmacology, Novel Drug delivery systems, Pharmaceutical Jurisprudence and Ethics, Dispensing Pharmacy, Physical Pharmacy etc. He is a life member of APTI and IPGA.



**Mrs. Snehal Nagsen Chandanshive** is working as an Assistant Professor in the Department of Pharmacology, Adarsh College of Pharmacy, which is located in sangli district Maharashtra. She has about six years of teaching experience. She received her B. Pharm degree in pharmacy from Solapur University and M. Pharm degree in Pharmacology with distinction from Sant Gadge Baba Anekar University, Amravati. She published two title in Indian Patent Publication shortly. She is attendee of several National and International Conferences. Her areas of research include chromosomal aberration, Diabetes and Anti-Clastogenic activity.



**Mr. Haragouri Mishra** is working as an Assistant Professor in School of Pharmacy, Centurion University of Technology and Management, Odisha, has about 5 years of teaching experience. He received his B.Pharm degree in Pharmacy with distinction and M.Pharm degree in Pharmaceutical analysis with distinction from Biju Patnaik University of Technology, Rourkela, Odisha. He is pursuing Ph.D. degree in Centurion University of Technology and Management.

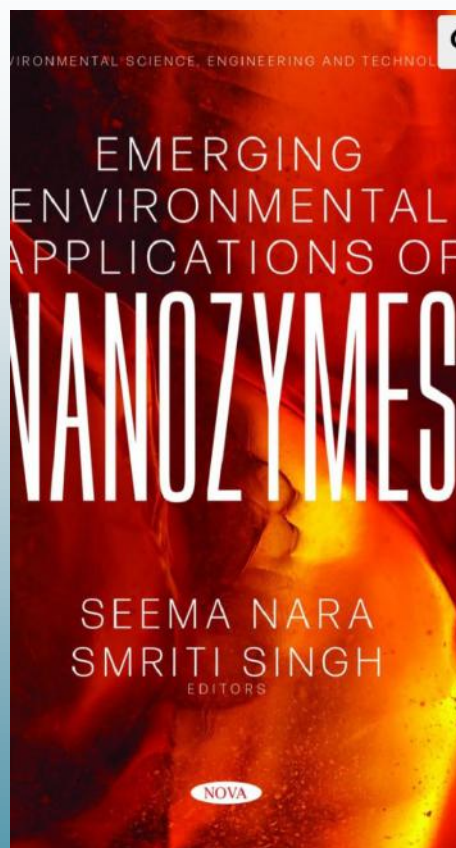


**Ms. Neha Goel** working as an Assistant Professor in the Department of Pharmacy, AKS University, Satna, M.P., has about 9 years of teaching experience. She received her B. Pharmacy degree with distinction and M. Pharmacy degree in Pharmacology with distinction from Rajiv Gandhi Proutyogiki Vihwavidyalaya, Bhopal. She has published 1 review paper & 6 research papers in refereed national & international journals. Her areas of teaching is Human Anatomy & Physiology, Pharmaceutical Inorganic Chemistry, Biochemistry, Pharmaceutical Organic Chemistry, Pharmacology, Quality Assurance, Instrumental Methods of Analysis, Pharma Marketing Management, Pharmaceutical Process Chemistry, Pharmaceutical Chemistry, Pharmaceutics, Pharmacology & Toxicology, Pharmaceutical Analysis, Medicinal Chemistry. She is a life member of APTI (Association of Pharmaceutical Teachers of India) and SPER (Society of Pharmaceutical Education & Research).



PHARMACOLOGY  
Dr. Nihar Ranjan Kar, Mrs. Snehal Nagsen Chandanshive  
Mr. Haragouri Mishra, Ms. Neha Goel

X



## Chapter 6. Future Prospects towards Cata Defense against Microbial Pathogens Usin Nanozymes

C. D. S. L. N. Tulasi, D. Manikantha, Rajesh A  
Bokinala and Kalyani Chepuri  
Institute of Science and Technology, Jawah  
Nehru Technological University Hyderabad  
Kukatpally, Hyderabad

## Chapter 7. The Role of Metallic Nanopartic Maximizing Crop Production

Divya Yadav<sup>1</sup>, Santosh Bhukal<sup>1</sup>, and Shafila  
<sup>1</sup>Guru Jambheshwar University of Science  
Technology, Hisar, India  
<sup>2</sup>Mehr Chand Mahajan DAV College for Women  
Chandigarh, India

## Chapter 8. Biomedical Applications of Nanozymes

Bikash Ranjan Jena and Gurudutta Pattnai  
School of Pharmacy and Life Sciences, Cen  
University of Technology and Management  
Bhubaneswar, Odisha, India

← CHAPTER-5.pdf

**5**

## Artificial intelligence (AI), robotics and computational fluid dynamics

**Bikash Ranja Jena<sup>1\*</sup>, Suryakanta Swain<sup>2</sup>, Debashish Ghose<sup>3</sup>, Chinam Niranja Patra<sup>3</sup>, Muddana Eswara Bhanaji Rao<sup>4</sup>**

<sup>1</sup>School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Jatni, Khurda-752050, Odisha, India

<sup>2</sup>Department of Pharmacy, School of Health Sciences, The Assam Kaziranga University, Jorhat-785006, Assam, India


<sup>3</sup>Department of Pharmaceutics, Roland Institute of Pharmaceutical Sciences, Berhampur-760010, Odisha, India

<sup>4</sup>Calcutta Institute of Pharmaceutical Technology and AHS, Banitabla, Uluberia, Howrah-711316, West Bengal, India

**5.1 Artificial intelligence**

5.1.1 General overview

Erectile dysfunction (ED, "male impotence") is sexual dysfunction characterized by the inability to develop or maintain an erection of the penis during sexual performance. A penile erection is a hydraulic effect of blood entering and being retained in spongy-like bodies within the penis. The process is often initiated as a result of sexual arousal when signals are transmitted from the brain to nerves in the penis. Erectile dysfunction is indicated when an erection is difficult to produce. There are various circulatory causes, including alteration of the voltage-gated potassium channel, as in arsenic poisoning from drinking water. The most important organic causes are cardiovascular disease and diabetes, neurological problems (for example, trauma from prostatic surgery), hormonal insufficiencies (hypogonadism), and drug side effects.




Rudra Narayan Sahoo  
Braj Bihari Panda  
Subrata Mallick


**Formulation and Evaluation of Sildenafil Citrate Oral Jelly**

Oral Jelly formulation of Sildenafil Citrate

Rudra Narayan Sahoo, M Pharm, Assistant professor at Centurion University of Technology and Management, Bhubaneswar, Odisha, India, Continuing Ph.D. at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India. My research area of interest is Formulation and Development, and Drug Delivery Systems.



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### Chapter

## Recent Advancements in Phyto Component Based Nanocarriers for Improved Treatment of Brain Disorders

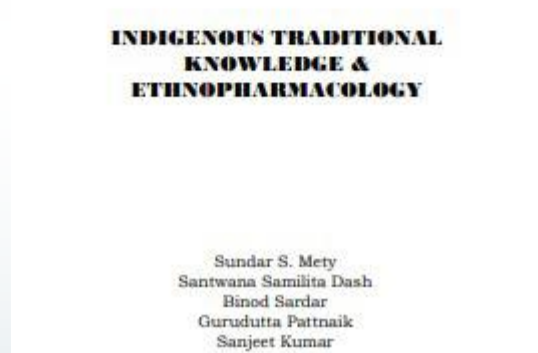
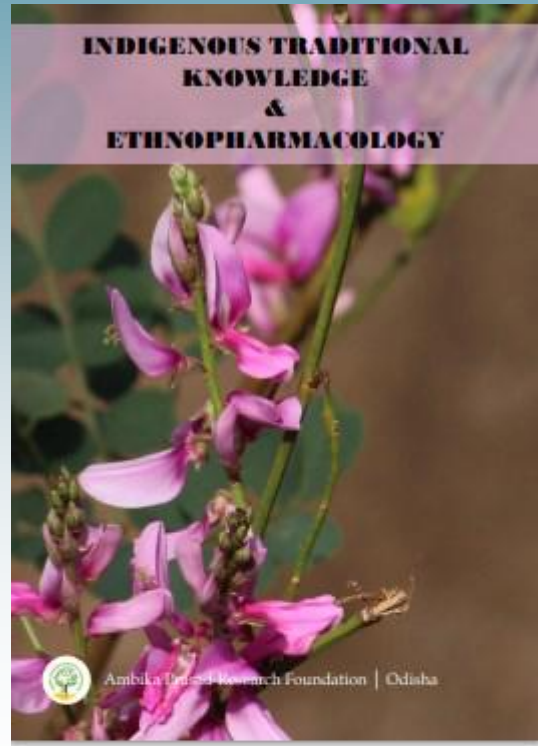
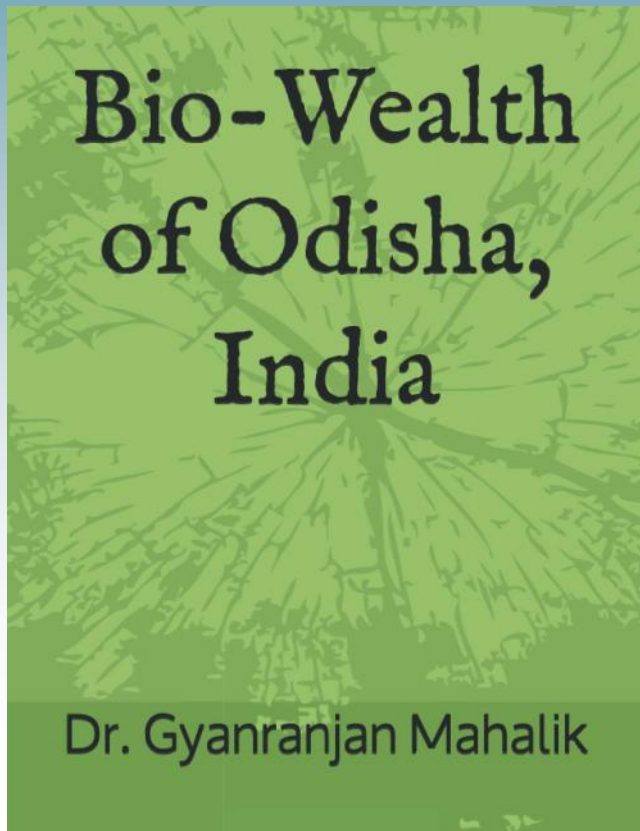
*Bhabani Sankar Satapathy, Snigdha Pattnaik, Sangram Keshari Biswal, Biswabhusan Biswal, Pralaya Kumar Sahoo, Himansu Bhusan Samal and Binapani Barik*

### Abstract

Effective treatment of brain disorders remains a tough task in medical science. Age-old brain disorders like Parkinson's (PD) and Alzheimer's (AD) are yet to be managed effectively in spite of fabulous scientific progress over the last decades. Presently available treatment strategies have been found insufficient to tackle the outbursting cases of AD and PD. Indeed, presence of blood-brain barrier (BBB) highly hijacks success of conventional drug therapy. In this regard, phyto bioactive components delivered through nanocarrier (NCs) systems hold ray of hope in improving treatment benefits in brain disorders. Several NCs including polymeric nanoparticles, nanoliposomes, micelles, dendrimers have now being heavily researched to effectively deliver the phyto active components to brain tissue. NCs owing to their structural and physiological uniqueness have now been evolved with great potential for the treatment of brain disorders. Functionalization of brain specific ligands on the surface of NCs further makes them target specific, which might significantly improve bioavailability or reduce the off-target adverse effects. This chapter primarily focuses on recent advancements in phyto component loaded NCs employed for the treatment of brain disorders. The chapter especially covers existing impediments of phyto component based NCs for Parkinson and Alzheimer's disease.




# BOOK PUBLISHED




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The book covers traditional uses of selected plants for the treatment of various ailments, diversity of macrophytes, and some freshwater fish resources of Odisha. The best part of the book is that it will be helpful to the youngsters to get benefits in beauty care by using the herbal remedies.



Dr. Gyanranjan Mahalik, is presently working as Assistant Professor, Department of Botany, School of Applied Sciences, Centurion University of Technology and Management. He was awarded with UGC-IRF for carrying out his M. Phil. Research work and RCNF Fellowship in Science by Union Grants Commission (UGC) in 2014, to undertake the Ph.D Programme at Udal University, Bhubaneswar. Dr. Mahalik has published a good number of research papers in peer reviewed journals of national and international repute. He is currently working on different aspects of Plant taxonomy, Ethnobotany, Microbiology, Plant stress biology and Biological sciences.

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# ***PATENT PUBLISHED***

SI No	Title of the Patent	Name of the Country	Application No.
1	A Novel Nanocellulose and lignosulphate based adhesive coacervate composition and preparation method thereof	Indian Patent Publication	202241049043
2	Drug Releasing Polyelectrolyte Coating	Indian Patent Publication	202231047494
3	A method, system and apparatus for cancerimmunotherapybasedon nanomedicines	Indian Patent Publication	202241050942
4	Nanoengineered Polymeric Biomaterials For Targeted Drug Deliverysystem For Synergistic Brain-Targeting Delivery Method There Of	Indian Patent Publication	202241051202
5	Submicron nanoscale doped or undopedsilver nanopaticles	Indian Patent Publication	202241051796
6	The effect of gravuty and centrifugal force on plant development and fruit production	Indian Patent Publication	202241049325
7	A Novel Nanocrystal/Silver Difunctional Compsite Nanomaterial For Cancer Treatment And Method Thereof	Indian Patent Publication	202231054139
8	Artificial Intelligence based approach to study the impact of topical nano adjuvasnts for eradication of skin cancer	Indian Patent Publication	202211053620
9	Machine learning based study to analyse the efficacy of existing drugs along skewing of irrelevant tuples	Indian Patent Publication	202241051178
10	Making And Administering Dietary Supplements Comprising Photochemical Formulations	Indian Patent Publication	202231052517
11	Artificial intelligence based techniques to analyse the impact of nanoparticles in improving hair follicles	Indian Patent Publication	202231055096
12	Nano-Drug Delivery System of Anti-Cancer drug and Method thereof	Indian Patent Publication	202241065523
13	Artificial Intelligence Based Approach To Predict The Role Of Nanoparticles In Targeting Ventricular Fibrillations	Indian Patent Publication	202241063289
14	An Artificial Intelligence Based 3D Printed Medicines For Effective Treatment Of Patients And Method Thereof	Indian Patent	202241064085
15	Advanced Nano Phyto formulations based targeted drug delivery	Indian Patent Publication	202241064889
16	Novel nano formulations-based drugs for enhanced bioavailability	Indian Patent	202241065549
17	An Artificial Intelligence And Machine Learning Based Drug Delivery System For Preparing Microemulsions With Enhanced Bioavailability And Method Thereof	Indian Patent Publication	202211068166
18	Formulation and characterisation of transdermal patches of amlodipine besylate using olive oil as the natural permeation enhancer	Indian Patent Publication	202241054973A
19	Machine Learning Based Approach To Predict The Impact Of Anti-Microbial Resistance For Animal Production	Indian Patent Publication	202241064454
20	Artificial Intelligence Based Approach to early prediction of Natural coma based on Brain mapping Techniques	Indian patent Publication	202241065536
21	Systematic Approach to Analyze the Importance of Nanoparticles for Providing Treatment Through Interventional Cardiology	Indian patent Publication	202231064453
22	A novel techno-friendly method to improve processability in tablet manufacturing of efavirenz from spherical crystalization	Indian patent Publication	202121051168A
23	Designing A Framework for Identifying The Impact of Combinational Therapy for Treating Melanoma with Traditional Chemotherapy And Targeted Delivery Of Drug	Indian Patent Publication	202241060212
24	Magnetic spinel ferrite nanoparticle (SFNPs) for targeted drug delivery of cytotoxic drugs in disease management	Indian Patent	202241065250
25	Pharmaceutical Composition Comprising Amlodipine For Retinal Transsynaptic Neuronal Protection And Methods Thereof	Indian patent Publication	202231063610

# ***PATENT PUBLISHED***

<b>SI No</b>	<b>Title of the Patent</b>	<b>Name of the Country</b>	<b>Application No.</b>
26	Artificial intelligence and Machine Learning in cultivation of microbial strains	Indian Patent Publication	202231063326
27	Cloud based technique integrated with artificial intelligence to predict the heart disease in advance and avoiding the sudden and massive heart attacks	Indian Patent Publication	202211065898
28	Pharmaceutical composition comprising acetazolamide for retinal protection and methods thereof	Indian Patent Publication	202231071743
29	A Formulation Based On Pyridine Derivative And Preparation Method Thereof	Indian Patent	202241059048
30	Pharmaceutical Nanotechnology For Intravenous Administration	Indian Patent	202231060939
31	An Artificial Intelligence And Iotbased System For Regenerative Medicinefor The Treatment Of Life Threatening Diseases And Method Thereof	Indian Patent	202241063344
32	Anti-Aging Nano Formulations and Nano-cosmetic composition	Indian Patent	202241059047
33	A sensor based on Photochemical and Electrochemical aspects having microfluidic and green chemistry applications	Indian Patent	202241058986
34	A Composite nanomaterial having multifunctional nuclear shell structure drug carrier material and method thereof	Indian Patent	202241060616
35	Modeling And Analysis Of Data Trading In Financial Organisation Based On Blockchain Market In Iot Networks	Canadian Copyright	1197892
36	A Biomimetic nanoparticle for synergistic anti-infective therapy	Indian Patent Office	202241072402
37	A stimuli responsive bionanomaterial for extended drug release and method thereof	Indian Patent Office	202241071429
38	Machine Learning Based Technique To Analyze The Pros And Cons Of In-Situ Gel Formation Containing Aloe Vera Extract	Indian Patent Office	202241073279
39	A Machine Learning Based Integrated Iot Healthcare Systemfor Cancer Care With Wsn Modules And Method Thereof	Indian Patent	202231023168
40	A System Provided With Next-Generation Computing Technology For Precision Medicine And Method Thereof	Indian Patent	202231062139
41	An Artificial Intelligence And Machine Learning-Based Surveillance Systems To Monitor Real Time Crop Growth And Method Thereof	Indian Patent	202231062715
42	An Artificial Intelligence And Machine Learning Based System In Cultivation Of Microbial Strains And Method Thereof	Indian Patent	202231063326
43	An Iot Based Image Processing System For Medical Applications	Indian Patent	202231063516
44	A Critical Appraisal Of Artificial Intelligence Based Retina Scan For The Determination Of Cardiovascular Pathology In A Patient And Method Thereof	Indian Patent	202231064985
45	A Method For Advanced Tumor Recognition Based On Iot And Ai Image Processing	Indian Patent	202231068193
46	Application Of Nanorobotics In High-Density Pharmaceutical Assay Process	Indian Patent	202231069269
47	Nano-Based Drug Delivery Systems: Recent Developments And Future Prospects	Indian Patent	202231073569 A
48	Effective heart disease prediction using hybrid artificial neural networks techiques	Indian Patent	202241023909
49	An artificial intelligence based approach to look for abnormalities in heart anatomy using imaging modalities.	Indian Patent	202241026105
50	A methodology to analyse the images of kidney captured using medical modalities for anomaly detection with algorithms of machine learning	Indian Patent	202241071402
51	Systematic approach for analyzing the importance of nectin-4 as soluble biomarkers for the detection of cancer	Indian Patent	202241069847
52	Design Of Chitosan Nanoparticle Coated Mini-Implants For Dental Issues And Analysis Of Their Properties	Indian Patent	202241071287
53	The detection of varied EEG pattern signal for chronic migraine patients	Interlectual property India	202211075189
54	A System and Composition for treating and preventing oxalate related conditions	German	20 2022 100602



## Skill Course Offered:

- ❖ Planned to offer an paid internship program entitled Techniques of Phytoextraction and its *in-vivo* activity.
- ❖ Currently offering Drug designing by using Biovia Discovery studio, handled by Dr. Kalpita Bhatta.

## Project Sanctioned:

Name of PI	Funding agency	Funding amount	Status
<b>Dr. Kalpita Bhatta</b>	SEED Money project, CUTM	3 lakhs.	Sanctioned
<b>Dr. Gyanranjan Mahalik</b>	SEED Money project, CUTM	1.3 lakhs.	Sanctioned
<b>Dr. Ashirbad Nanda Mr. Satish Kanhar</b>	CO –PI from CCRAS- Ministry of Ayush	118 lakhs	Sanctioned

## Revenue Collected:

Revenue Generation Details from IEC (2022-23)		
Agency	Year	Amount
<b>Lyka Labs Ltd. Gujarat.</b>	Aug 2022	<b>40,000/-</b>
<b>Indira IVF Hospital, Rajasthan</b>	Jan 2023	<b>47,200/-</b>
<b>Morningsite Healthcare Ltd. Park Leicester, UK.</b>	Feb 2023	<b>70,000/-</b>
	<b>Total</b>	<b>1,57,000/-</b>

# **Extended RC**

## **(Drug Clinical Research Organization)**

### **Proposed Members**

- Dr. Ashirbad Nanda
- Mr. Suman Kumar Mekap
- Miss. Sucharita Babu
- Mrs. Rupali Rupasmita Rout

### **Plan of Work**

- Have to add more members (15 maximum)
- Have to contact some related field organizations for more idea about the function of the CRO.
- To make the RC lively

# RECOGNITION AND AWARDS





# RECOGNITION AND AWARDS



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# WEBINAR/ EXPERT TALK ORGANISED

 School of Pharmacy and Life Sciences

**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**  
CENTER FOR DRUG DESIGN  
Webinar On

Overview on GMP


06 March 2021

**SPEAKER**  
Dr. Shakti Prasanna Sahoo,  
Senior Manager,  
Sun Pharma, Vadodara

**Programme Coordinator**  
Mr. Himansu Bhusan Samal  
Assoc. Professor, SoPLS

**LINK:- Meeting link** <http://meet.google.com/lbw-tmm-dva>

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 **CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT**

School of Pharmacy & Life Sciences  
In Association With  
Center For Drug Design  
Organizing an

**EXPERT TALK ON**

**Current Trends in Drug Delivery Systems**

16/07/2022 (03.00PM Onwards)

Venue: MD Building, 5<sup>th</sup> Floor, Smart Class Room

**SPEAKER**  
Dr. Snigdha Pattnaik  
Professor  
Siksha 'O' Annusandhan  
(Deemed to be University),  
Bhubaneswar, Odisha

 School of Pharmacy and Life Sciences

**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**  
CENTER FOR DRUG DESIGN  
Webinar On

"Importance profession ready Training and placement program" on most booming industry, Clinical Research, Pharmacovigilance and associated domains.

30 OCT '21 (11AM-01 PM)

**SPEAKER**  
Mr. vishal chaudhari  
Sr Manager, CLINI INDIA

**Programme Coordinator**  
Mr. Himansu Bhusan Samal  
Assoc. Professor, SoPLS

**LINK:-** <https://event.webinarjam.com/register/285/m2lkkcwr>

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 **CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT**

School of Pharmacy & Life Sciences  
In Association With  
Center For Drug Design  
Organizing an

**ALUMNI TALK ON**

**Prospects & Opportunities at Pharma Industry on Solid Orals**

05/07/2022 (11.00am Onwards)

Venue: MD Building, 5<sup>th</sup> Floor, Smart Class Room

**SPEAKER**  
Mr Abinash Rout  
(Alumni:- 2016-2020 Batch)  
Jr. Production Officer,  
INTAS Pharmaceutical,  
Dehradun, Uttarakhand

 **CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT**

School of Pharmacy & Life Sciences  
In Association With  
Center For Drug Design  
Organizing an

**EXPERT TALK ON**

**Current Trends in Pharmacy Profession**

14/07/2022 (03.00PM Onwards)

Venue: MD Building, 5<sup>th</sup> Floor, Smart Class Room

**SPEAKER**  
Dr. Debapriya Garabadu  
Asst. Professor  
Dept. of Pharmacology  
Central University of  
Punjab, Bathinda



# SEMINAR / WEBINAR / EXPERT TALK ORGANISED



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

School of Pharmacy and Life Sciences  
In Association With  
**CENTER FOR DRUG DESIGN**  
Organizes

*Expert Talk On:*

**Formulation Based Technology Advancements in Transdermal Drug Delivery System**

**04<sup>th</sup> May'22, Time:2.00PM Onwards**

**Programme Coordinator**  
Mr. Himansu Bhusan Samal  
Assoc. Professor, SOPLS



**SPEAKER**  
Dr. Biswajit Mukherjee  
Professor, Department of Pharmaceutical Technology, Jadavpur University, Kolkata

Venue: Seminar Hall, Madhusudan Building

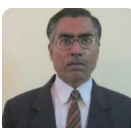


School of Pharmacy and Life Sciences

**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**  
**CENTER FOR DRUG DESIGN**

**Webinar On**  
**IPRAND ITS IMPORTANCE IN PHARMACY**

**10<sup>th</sup> March'22 (11AM-12.30 PM)**



**SPEAKER**  
**Dr R N Gupta**  
Professor, National Institute of Pharmaceutical Education and Research (NIPER), Kolkata

**Programme Coordinator**  
Mr. Himansu Bhusan Samal  
Assoc. Professor, SoPLS

**Zoom meet link:**  
<https://us02web.zoom.us/j/86863461576?pwd=OWdoek01OzZlZzRzYVWx1UmSEcStBUT09>  
Meeting ID: 868 6346 1576 | Passcode: 233376

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School of Pharmacy and Life Sciences

**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**  
**CENTER FOR DRUG DESIGN**

**Webinar On**  
**Insights into Antibiotic Resistance: An overview**

**19th February 2022 (2-3 PM)**



**Speaker**  
**Dr. Himanshu Sekhar Pradhan**  
Associate Professor School of Public Health  
Kalinga Institute of Industrial Technology,  
Bhubaneswar, Odisha

**Coordinator:**  
Dr. Ashirbad Nanda  
Assistant Professor  
School of Pharmacy and life sciences

**Google meet link:**  
<http://meet.google.com/onn-ibfk-mof>

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School of Pharmacy and Life Sciences

**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**  
**CENTER FOR DRUG DESIGN & PLACEMENT CELL, CUTM**

**Webinar On**  
**Career Opportunities in Pharmaceutical Manufacturing Industry**

**26th February 2022 (11AM-1 PM)**



**Speaker**  
**Dr. K Suresh Kumar**  
Associate President, HR & COE,  
Aurobindo Pharma, Ltd.

**Programme Coordinator**  
Mr. Himansu Bhusan Samal  
Assoc. Professor, SoPLS  
  
Dr. S. Kameswar Rao  
Deputy Registrar (T&P)  
CUTM, Paralakhemundi

**Zoom meet link:**  
<https://us02web.zoom.us/j/81907115497?pwd=TXZkZkjaOUsRZEMyOzQ2M3NkODMvdz09>

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**NATIONAL SEMINAR 2023**  
Centurion University, Rayagada Campus, Odisha,  
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21/01/23 11:56 AM GMT +05:30

GPS Map Camera  
Google



**NATIONAL SEMINAR 2023**  
Centurion University, Rayagada Campus, Odisha,  
765001  
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Long 83.414215°  
21/01/23 11:42 AM GMT +05:30

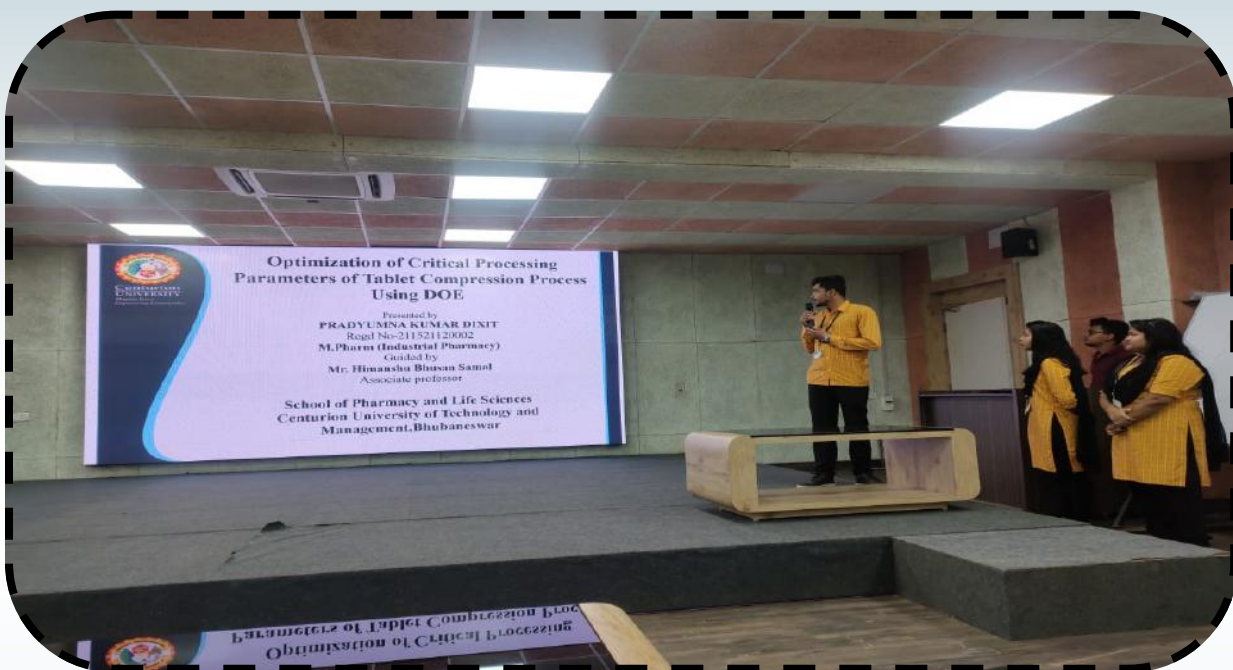
GPS Map Camera  
Google



# SUMMER INTERNSHIP PROJECTS– 2022

Focused Area:

- PAT & Prescription handling
- QBD & DOE
- Drug Discovery using Biovia



# ***SUMMER INTERNSHIP PROJECTS***



# ***PRE CLINICAL STUDIES***





# CLINICAL TRIAL DETAILS

FORM CT-02

(See rules 8, 9, 10 and 14)

## GRANT OF REGISTRATION OF ETHICS COMMITTEE RELATING TO CLINICAL TRIAL OR BIOAVAILABILITY AND BIOEQUIVALENCE STUDY

Registration No. ECR/349/Indt/OD/2021

The Central Licencing Authority hereby registers and permits CUTM-Independent Ethics Committee, Centurion University Of Technology And Management AT- Ramachandrapur, PO- Jatni Khordha Bhubaneswar Khordha Orissa - 752050 Contact No.: 674 2596228 Fax No.: 674-2596229 to perform duties of ethics committee as specified in the New Drugs and Clinical Trials Rules, 2019.

2. The ethics committee shall observe the conditions of registration specified in Chapter III of the New Drugs and Clinical Trials Rules, 2019 and the Drugs and Cosmetics Act, 1940.

Place : New Delhi

Date : 29-JUL-2021

VENUGOPAL  
GIRDHARILAL  
SOMANI

Central Licencing Authority  
Stamp



### EC DOSSIER DOCUMENTS

**PROJECT TITLE:- A RANDOMIZED, PARALLEL-GROUP, MULTI-CENTER, ACTIVE-CONTROLLED, COMPARATIVE, PHASE-III STUDY TO EVALUATE EFFICACY AND SAFETY OF TOFACITINIB OINTMENT 2% W/W IN SUBJECTS WITH MILD-TO-MODERATE ATOPIC DERMATITIS.**

PROTOCOL NO	LL/CT/PHASE-III/03/2021
VERSION	Version 1.0
DATE OF RELEASING VERSION	30-September-2021

IEC SITE	CUTM-INDEPENDENT ETHICS COMMITTEE CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT RAMACHANDRAPUR, JATNI, ODISHA 752050
INVESTIGATOR	DR .SUMANTA DAS

SPONSOR	CRO	SMO
LYKA LABS. LIMITED 4801/B & 4802/A, GIDC INDUSTRIAL ESTATE, ANKLESHWAR - 393 002, GUJARAT STATE, INDIA	INQUEST BIOPHARM PVT. LTD.616, GANESH GLORY,NR. BSNL OFFICE, JAGATPUR-CHENPUR ROAD, OFF S.G. HIGHWAY, JAGATPUR, AHMEDABAD - 382481, GUJARAT, INDIA.	CLINSTINCT CLINICAL RESEARCH PLOT NO-17,LEFT LANE- 4,JAGAMARA,KHANDAG IRI, BHUBANESWAR,ODISH A-751030



# ***COLLABARATIONS***

## **COLLABORATIONS within CUTM**

- Collaboration with CENTER FOR PHYTO PHARMA for development of formulation of two naturally derived cosmetic formulations (Day cream and miscellar based gentle cleansing gel) on Spicy Board project.
- Collaboration with Centre for Phyto Pharma one more project is going to apply to spicy Board very soon.

## **COLLABORATIONS outside CUTM**

- Collaboration with Hospital for Conducting Clinical trials
- Proposed to collaborate with other CROs to Conduct BA-BE studies.



**CDD TEAM BALASORE**



**CDD TEAM RAYAGADA**





**CDD TEAM BHUBANESWAR**



**CDD TEAM BALANGIR**