**Koneru Lakshmaiah Education Foundation**
(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)
Accredited by NAAC as 'A++' ❖ Approved by AICTE ❖ ISO 21001:2018 Certified
Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.
Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in
Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

Ref: KLEF/RO/PHARMACY/2022-23 Date: 11-10-2022

**Orders of the In-charge Vice-Chancellor dt.11-10-2022**

## CIRCULAR

Sub: International Conference on **"Current Trends in Drug Discovery, Development & Delivery (CTD4-2022)" by KLEF College of Pharmacy – Reg.**

Ref: Letter dated 11.10.2022 from Dr. G. Chakravarthy, Principal, KLEF College of Pharmacy.

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This is to inform that KLEF College of Pharmacy is organizing a International Conference on "**Current Trends in Drug Discovery, Development & Delivery (CTD4-2022)**" which is beneficial to the Life Science (Pharma, Biotechnology & agriculture) students, faculty and researchers, as per the details given below.

Date & Time : 21st and 22nd October 2022 (For two days- 9:00 AM to 5:00 PM)

For further details Dr. Buchi Nalluri, Convener, Professor, KLEF College of Pharmacy, E-mail Id: buchinalluri@kluniversity.in can be contacted.

Poster of the international conference is attached herewith.

REGISTRAR (I/C)
Dr. A. JAGADEESH
REGISTRAR (I/C)

(DEEMED TO BE UNIVERSITY)

College of Pharmacy

CATEGORY 1 UNIVERSITY BY MHRD, Govt. of India

KL ACCREDITED BY NAAC WITH A++ GRADE

nirf 2022 NATIONAL INSTITUTIONAL RANKING FRAMEWORK RANKED 27 AMONG ALL UNIVERSITIES

42 YEARS OF EDUCATIONAL LEADERSHIP

CTD4

# INTERNATIONAL CONFERENCE ON

# CURRENT TRENDS IN DRUG DISCOVERY DEVELOPMENT & DELIVERY (CTD4-2022)

21st - 22nd OCTOBER -2022

## KONERU LAKSHMAIAH EDUCATION FOUNDATION

The Koneru Lakshmaiah Charities was established as a trust in the year 1980 with its official address at museum road, governerpet, vijayawada, andhra pradesh, india and started KL College of Engineering in the academic year 1980-81. KLEF was established in 1980-81, as KL College of Engineering, which was upgraded to KL College of Engineering autonomous in 2006 by UGC and was declared as a deemed to be university in 2009 by UGC, MHRD Govt. of India. in 2012 as a Deemed to be university the institution was accredited by Naac with a grade and later in 2018, was re-accredited by Naac with A++ Grade. in 2019 UGC, MHRD declared this Intuition as Category 1. The University was also ranked 27 under NIRF 2022 university category.

## ABOUT KLCP

K L College Of Pharmacy (KLPC) is established in the year of 2016 and is currently offering B.Pharm (4 Years), Pharm.D (6 Years), M.Pharm Pharmaceutics (2 Years) and Ph.D. Program (FT/PT) under the aegis of Koneru Lakshmaiah Education Foundation (KLEF). KLCP is well furnished with state of art facilities to conduct the program meeting the global standards. The college has infrastructural facilities in terms of well-equipped laboratories with modern Instruments and well-furnished and spacious classrooms to appease the requirement of undergraduate & postgraduate students and Ph.D scholars in addition to the central facilities at KL University level.

## ABOUT CTD4 2022

College of Pharmacy, Koneru Lakshmaiah Education Foundation, Andhra Pradesh is organizing an International Conference on "Current Trends in Drug Discovery, Development and Delivery (CTD4-2022)" on 21st -22nd October 2022. In hybrid (virtual and offline) mode and the talks will be given in the following themes:

**Session-1: Medicinal Chemistry and Phytochemistry**

**Session-2: Formulation Development and Drug Delivery**

**Session-3: Pharmacology and Pharmacy Practice related**

**Session-4: Postdoc talks**

Each session will have 3-4 talks and speakers will be from both academics and industry.

## ORGANIZING COMMITTEE

Chief Patrons

**Er. K. Satyanarayana**
*President, KLEF*

**Er. K. L. Havish**
*Vice-President, KLEF*

**Er. K. Raja Harin**
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Patrons

**Dr. K. S. Jagannatha Rao**
*Pro-chancellor, KL*

**Dr. G. P. S. Varma**
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**Dr. N. Venkatram**
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**Dr. A. Jagadeesh**
*Registrar, KLEF*

**Dr. A. Srinath**
*Principal, ASC & Dean Skill Development, KLEF*

**Dr. V.R.Raghuveer**
*Dean (Academics), KLEF*

**Dr. B. Jaya Kumar Singh**
*Dean R&D, KLEF*

**Dr. M. Kishore Babu**
*Dean-MHS, KL*

Conference Chairman

**Dr G. Chakravarthi**
*Principal, KL College of Pharmacy*

Convener

**Dr. Buchi N. Nalluri**
*Professor, KL College of Pharmacy*

Co-Convener

**Dr Manikanta Murahari**
*Associate Professor, KL College of Pharmacy*

## SCIENTIFIC PRESENTATIONS

CTD4-2022 invites abstracts for e-poster/oral presentations and full-length original research articles (to be published in **Royal Society of Chemistry conference proceedings with Scopus indexing and ISBN number**) from research scholars, faculty scientists and industry professionals from India and across the world. abstracts are invited on following scientific topics for e-poster/oral presentations.

### Theme-1: Medicinal Chemistry and Phytochemistry

- Drug Design and Synthesis
- Green Synthesis / Green Chemistry
- Analytical Chemistry
- Impurity Profiling
- Isolation and Extraction of Phytoconstituents
- Herbal Formulations

### Theme-2: Formulation Development and Drug Delivery

- Computational Tools in Formulation Design
- Novel Drug Delivery Systems
- Medical devices
- 3D printing of pharmaceuticals and Bioprinting

### Theme-3: Pharmacology and Pharmacy Practice related

- New Techniques in Pharmacological Screening
- In vitro & In vivo evaluation of natural and synthetic compounds
- Toxicity evaluation
- & Pharmacodynamics Study

## ABSTRACT SUBMISSION

Perspective authors are encouraged to present their original, unpublished research work, and the selected abstracts will be called for Oral presentations and full length publications. Abstract up to 300 words in Times New Roman with font size 12pts, 1.5 line spacing may be submitted in .doc/.docx file with the author's name (presenting author name to be underlined), affiliation and corresponding author email ID.

**Submit your abstract to ctd4.klcp@kluniversity.in**

### Presentation Awards

Presenters for boath oral and e-poster presentations will be given based on recommendations of peer review.

## REGISTRATION DETAILS

| Fee Structure | Delegate/e-poster Registration | Delegate with RSC Conference Proceedings publication |
|---|---|---|
| Foreign delegates/Scholars/Students | 50 USD | 100 USD |
| Indian Faculty | 700 INR | 3200 INR |
| Indian Scholars | 600 INR | 3100 INR |
| Indian Students | 500 INR | 3000 INR |
| Industrial Participants | 1000 INR | 3500 INR |

| Account Details | |
|---|---|
| Name of the account | KL University |
| Account number | 62434363674 |
| Name of the bank | State Bank of India |
| Branch Name | Vaddeswaram |
| IFSC Code | SBIN0021361 |

| Important Dates | |
|---|---|
| Registration opening | 05-08-2022 |
| Registration Last date | 05-10-2022 |
| Last date for abstract submission | 25-08-2022 |
| Acceptance intimation | 31-08-2022 |
| Submission of full-length papers | 10-09-2022 |

**All correspondence should be addressed to:**


**Dr. Buchi N. Nalluri,**
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Submit abstracts for e-poster/oral presentations and full length research articles for Royal Society of Chemistry conference proceedings publication to ctd4.klcp@kluniversity.in

**Link for Registration**
https://forms.gle/XVVajvJDBMMZpMPy5

**QR Code for Registration**

Royal Society of Chemistry, Professional Society Activity In association with KL College of Pharmacy

**International Conference on**
**"Current Trends in Drug Discovery, Development and Delivery (CTD4-2022)"**
**21st-22nd October 2022**
**Organized by**
**K L College of Pharmacy, KLEF (Koneru Lakshmaiah Education Foundation)**
**In association with**
**Royal Society of Chemistry, UK**

# A report on international conference on CURRENT TRENDS IN DRUG DISCOVERY DEVELOPMENT AND DELIVERY (CTD4-2022).

## Introduction:

K L College of Pharmacy (KLCP), Koneru Lakshmaiah Education Foundation (KLEF), Vaddeswaram, Andrapradesh had organized an international conference on "**Current Trends in Drug Discovery, Development and Delivery (CTD4-2022)**" on 21st and 22nd October 2022 in association with Royal Society of Chemistry (RSC), UK. The scientific talks by resource persons were delivered in hybrid mode (virtual and offline) and focused on the following themes.

**Section 1**: Medicinal Chemistry and Phytochemistry

**Section 2**: Formulation Development and Drug Delivery

**Section 3**: Pharmacology and Pharmacy Practice related

**Section 4**: Postdoc

A total of 437 participants have attended the conference including 10 guests and 17 Distinguished Professors from different eminent organizations across the globe. 182 delegates have presented the results of their ongoing research works (as oral and e-posters) and 228 delegate participants from the universities and colleges in India.

## Inauguration Session:

### Opening session:

To invocate the waves of knowledge, the inaugural ceremony was started by lightning the lamp with a prayer song by the Pharmacy Students. The opening session was addressed by Dr. S. K. VARSHNEY, Director, International Cooperation Division, DST, Govt. of India, New Delhi who declared the conference officially open at the end of his statement. It was followed by the speeches of Dr. G. CHAKRAVARTHI, Organizing Chairman and Principal of KLCP, Dr. A. JAGADEESH, Registrar, KLEF, Dr. G. P. S. VARMA, Vice-Chancellor, KLEF, Dr. N. VENKATRAM, Pro Vice-Chancellor, KLEF, Dr. K. S. JAGANNATHA RAO, Pro-Chancellor, KKLEF, Dr. M. KISHORE BABU, Dean MHS, KLEF, Dr. B. JAYA KUMAR SINGH, Dean R&D, KLEF, and Dr. A. SRINATH, Dean-Skill Development, KLEF. In the inaugural session, RSC Conference Proceedings cover was unveiled by all the distinguished dignitaries on the Dias. The inauguration of the conference was concluded with the addressing

by Dr. BUCHI N. NALLURI, Convener of the CTD4, Dr M Manikanta, Co-Convener of the CTD4 KLCP, KLEF.

**Figure 1**: Lightning of the lamp ceremony during inaugural session on day one of the CTD4 - 2022.

**Figure 2**: Felicitation of the chief guest Dr. S. K. VARSHNEY, Director, International Cooperation Division, DST, Govt. of India, New Delhi during inaugural session on day one of the CTD4 -2022.

**Figure 3**: Unveiling of the RSC Conference Proceedings cover page by the chief guest and Dignitaries on the Dias during inauguration session of the CTD4-2022 conference.

Registrations (spot) were going on till the afternoon of second day of the conference. The parallel sessions were conducted in two seminar halls of the K L University (Peacock-P and Jasmine hall-J). Tea and snack provided in the breaks between the scientific talks and delicious food was served during the lunch hour to all the participants of the conference. Seven committees constituted by KLEF included faculty of pharmacy and students of B Pharm., M Pharm., and Pharma D for the smooth functioning of the two day conference.

**Figure 4**: Few committees formed/worked for the CTD4-2022 international conference

**Day 1: (21ST OCTOBER 2022, 9:00AM -5:00PM)**

**SESSION 1 (P)**

**MULTI-LAYERED ORAL PATCH FOR SUSTAINED DRUG DELIVERY FOR LOCAL AND SYSTEMIC APPLICATIONS.**

The keynote speaker of the session was Dr. Vamsi Krishna Venuganti, PhD, Associate Professor, Department Of Pharmacy, BITS Pilani Hyderabad Campus. The Chair and Co-Chair Persons Are Dr. Srinivas Babu, Principal, Vignan College of Pharmacy, Vadlamudi and Dr. S. Praveen, KLCP, respectively.

Dr.Vamsi Krishna keynote address focused on the development of multi-layered oral patch for sustained drug delivery. He acknowledged the local and systemic applications of the drug delivery for the pharmacy students which was very insightful. The abstract of Dr Vamsi talk is, "The oral administration of therapeutics is the most convenient route for drug delivery. However, there are several challenges in effectively delivering drugs through oral route. The factors that limit the drug bioavailability after oral administration include, mucosal and epithelial barriers, physiological conditions such as the residence time and acid environment in the gastric region, drug degradation through enzymatic and microbial action, first pass metabolism, and physicochemical properties of drugs such as poor solubility and permeability. The development of a very long acting orally administered patch is a challenge. Here, we present development of a multi-layered mucoadhesive gastric patch and layer-by-layer self-assembled colon targeted patch that could deliver entrapped drugs after oral administration. The oral patches were characterized for physical and mechanical characteristics. The patches were evaluated in vitro for drug release behavior and cytotoxicity in cancer cell models. The efficacy of chemotherapeutic loaded oral patches was evaluated in orthotopic colon cancer model and xenografted oral cancer model. The oral patches showed greater effectiveness in targeting colon cancer and sustaining the drug release after gastric mucosal adhesion. The oral multilayered patch can be developed as dosage form for local and systemic drug delivery"

**SESSION 1 (J)**

**SELECTIVE APPROACHES TO LC OF MEDICINAL PLANT EXTRACTS.**

The keynote speaker of the Session was Dr. W. John Lough, Professor, The University of Sunderland, UK, Programme Leader for Msc Drug Discovery and Development. The Chair and Co-Chair of the talk are Dr. Chakravarthi, Professor and Principal, KLCP, KLEF and Dr. Risy Namratha J, KLCP, KLEF, respectively.

In his presentation (presented virtually) he discussed about the selective approaches in liquid chromatography of medicinal plant extracts with their biological activity. The abstract of Dr John talk is "In supporting an extensive programme involving the study of extracts of medicinal plants indigenous to the State of Karnataka in India for their potential to treat skin diseases, high resolution analytical and semi-preparative scale reversd-phase HPLC was used to isolate individual constituents of the extracts. It was found that (a) much time and effort was expended in evaporating off the aqueous component of the many mobile phase fractions collected, and (b) on occasion, it was found that none of the isolated fractions exhibited the activity that had

been found in the origonal bulk extract. It was therefore sought to use selective stationary phases in order to facilitate the use of mobile phases with a very low aqueous content and to collect together the phytochemical constituents in their different classes. It was confirmed by using standards of different phytochemical standards the retention times for compounds in different classes overlapped with one another. However, Luna-NH2 could be used to selectively retain flavonoids and Luna-SCX could be used to selectively retain alkaloids. Further, the highly retentive stationary phase, Hypercarb, was suitable for performing non-aqueous reversed-phase HPLC on relatively non-polar phytochemicals. Moving forward, in ongoing work, the aim will be to continue to use selective stationary phases but in non-aqueous systems without the problems encountered when using normal-phase HPLC on silica. The use of sustainable, "green" solvents will also be a consideration."

**SECTION 2 (P)**

**HYDROGEL-FORMING MICRONEEDLES FOR LONG-ACTING DRUG DELIVERY**

The resource person was Prof. Ryan F. Donnelly, Chair and Professor in Pharmaceutical Technology, School Of Pharmacy Queens University Belfast, Medical Biology Centre, UK. The Chair and Co-Chair for the talk are Dr. Sita Devi, HOD and Professor, Hindu College of Pharmacy, Guntur and Mrs. N V N Naga Jyothi, KLCP, respectively.

This session emphasized on the critical role of long-acting hydrogel-forming microneedles in the management of the diseases which was highly informative. The abstract of Dr Ryan talk is "Unique microneedle arrays prepared from crosslinked polymers, which contain no drug themselves, are described. They rapidly take up skin interstitial fluid upon skin insertion to form continuous, unblockable, hydrogel conduits from attached patch-type drug reservoirs to the dermal microcirculation. Importantly, such microneedles, which can be fabricated in a wide range of patch sizes and microneedle geometries, can be easily sterilized, resist hole closure while in place, and are removed completely intact from the skin. Delivery of macromolecules is no longer limited to what can be loaded into the microneedles themselves and transdermal drug delivery is now controlled by the crosslink density of the hydrogel system rather than the stratum cornea, while electrically modulated delivery is also a unique feature. This technology has the potential to overcome the limitations of conventional microneedle designs and greatly increase the range of the type of drug that is deliverable trans-dermally, with ensuing benefits for industry, healthcare providers and, ultimately, patients"

During the presentation, Dr Ryan has highlighted the utility of these hydrogel-forming microneedles for sustained delivery, for up to 14 days from a single patch application, with applications in infectious diseases, schizophrenia, HIV treatment and cardiovascular disease in depth.

**SESSION 2 (J)**

**DISCOVERING DISEASE MODIFYING AGENTS FOR PARKINSON DISEASE.**

The resource speaker was Dr. K. Sai Ram, Professor in Department Of Pharmaceutical Engineering And Technology, IIT BHU Varanasi. The Chair and Co-Chair for the talk are Dr.Vijaypandian, CIPS Guntur and Dr. A. Narayana Rao, KLCP, KLEF, respectively.





**Figure 5**: Scientific session on disease modifying agents for neurodegenerative diseases.

This keynote address gave a different perception on the management of the psychological diseases which plays a vital role in current scenario as Parkinson Disease also has the highest prevalence in geriatrics.

**SESSION 3 (P)**

**ENHANCER AND SUPER-ENHANCER LANDSCAPE IN POLYCYSTIC KIDNEY DISEASE.**

The keynote speaker for the session was Dr. Abheepsa Mishra, Senior Scientist, Novo Nordisk, Copenhagen, Denmark. The Chair and Co-Chair Are Dr. T. Vinay Kumar, Associate Professor, Nirmala College of Pharmacy, Mangalgiri And Dr.B.Naga Raju, KLCP, respectively.

The abstract of Dr Misra talk is "Widespread aberrant gene expression is a pathological hallmark of polycystic kidney disease (PKD). Numerous pathogenic signaling cascades, including c-Myc, Fos, and Jun are transactivated. However, the underlying epigenetic regulators are poorly defined. Here we show that H3K27ac, a histone modification that marks active enhancers, is elevated in mouse and human ADPKD samples. Using comparative H3K27ac ChIP-Seq analysis, we mapped >16000 active intronic and intergenic enhancer

elements in Pkd1-mutant mouse kidneys. We find that the cystic kidney epigenetic landscape resembles that of a developing kidney, and >90% of upregulated genes in Pkd1-mutant kidneys are co-housed with activated enhancers in the same topologically associated domains. Furthermore, we identify an evolutionarily conserved enhancer cluster downstream of the c-Myc gene and super-enhancers flanking both Jun and Fos loci in mouse and human ADPKD models. Deleting these regulatory elements reduces c-Myc, Jun, or Fos abundance and suppresses proliferation and 3D cyst growth of Pkd1-mutant cells. Finally, inhibiting glycolysis and glutaminolysis or activating Ppara in Pkd1-mutant cells lowers global H3K27ac levels and on c-Myc enhancers. Thus, our work suggests that epigenetic rewiring mediates the transcriptomic dysregulation in PKD, and the regulatory elements can be targeted to slow cyst growth.

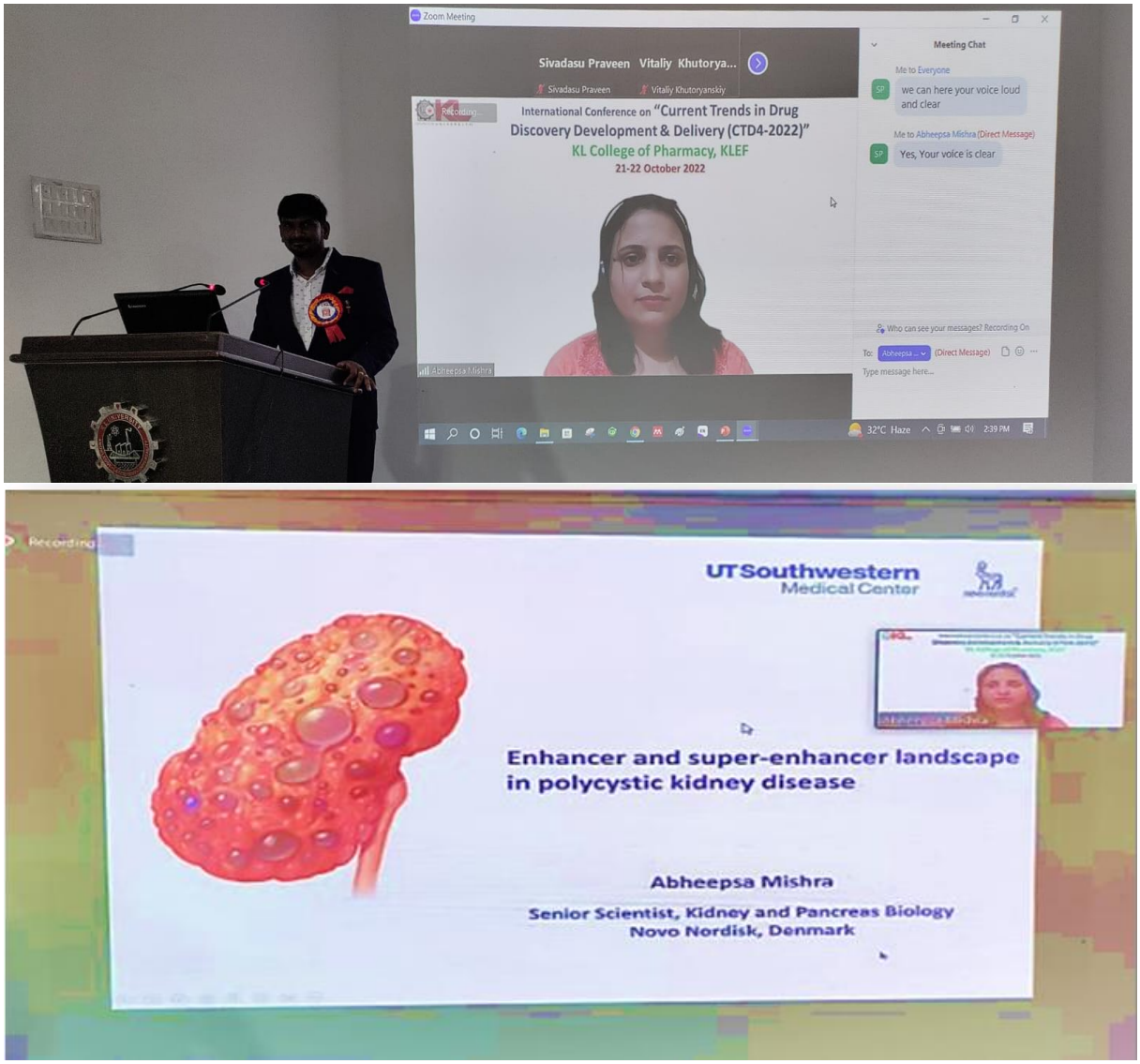



**Figure 6**: Virtual session by Dr Abeepsa Misra on enhancer and super-enhancer landscape in polycystic kidney disease

**SESSION 3 (J)**

**POTENTIAL THERAPEUTIC TARGETS OF CARDIOVASCULAR DISEASE: LNCRNAS AND EPITRANSCRIPTOMICS.**

The resource person was Prof. Shizuka Uchida Professor and Co-Director, Center for RNA Medicine, Department of Clinical Medicine, Aalborg University Copenhagen Denmark. The Chair and Co-Chair persons are Dr. K. Sairam, IIT-BHU and Dr. P. Rajeshwari, KLCP, respectively.


**Figure 7**: Scientific session by Prof. Uchida on potential therapeutic agents of cardiovascular diseases.

The abstract of Dr Uchida talk is "Cardiovascular disease (CVD) is the leading cause of global mortality with ~18 million deaths each year. Due to the socio-economic burden, many approaches have been taken to uncover the molecular mechanisms underlying different etiologies of CVD. Among these approaches, examining RNA expressions is popular due to the availability of RNA sequencing (RNA-seq) technique.

The term, junk DNA, is long gone as it is now clear that most of the human genome are transcribed as RNA. Yet, less than few percent of the transcribed RNAs correspond to the exons of mRNAs. Most of the other transcribed RNAs are non-protein-coding, including long non-coding RNAs (lncRNAs). In recent years, we and other have shown the functional importance of lncRNAs in cardiovascular system and disease, which will be discussed in my presentation.

The recent emergence of epitranscriptomics (RNA modifications) provides a potential avenue for maintaining cellular homeostasis, tissue development, and disease initiation/progression. To date, over 170 RNA modifications have been identified. These modifications appear important because they can affect the fate of RNAs, including their decay, maturation, splicing, stability, and translational efficiency5. Although RNA modifications have been studied in

various tissues and disease contexts, their functions in the heart are not yet fully known, which will be discussed in my presentation.

As exemplified by COVID-19 mRNA vaccines, RNA folds unprecedented opportunity to understand and possibly cure currently incurable diseases, such as CVD. Through my presentation, I will introduce you to the world of RNA, focusing on lncRNAs and epitranscriptomics".

**SESSION 4 (P)**

**DISCOVERY AND DEVELOPMENT OF BCL-XL/BCL-2 PROTAC DEGRADERS FOR CANCER TREATMENT.**

The addressing person of the scientific session was Dr. Guangrong Zheng, PhD, Associate Professor, Dept.Medicinal Chemistry, College of Pharmacy, University of Florida, Director of Medicinal Chemistry and Scientific Cofounder Dialectic Therapeutics, USA. The Chair and Co-Chairpersons for the talk are Prof. Abdul Rahman, Nirmala College of Pharmacy And Dr. Manikanta Murahari, KLCP, respectively.

Dr Zheng has discussed about the aspects of protac degraders in cancer treatment which was highly informative. He focused on discovery and development of two distinct types of degraders for the management of the disease. The abstract of Dr Zheng talk is "Inhibition of the anti-apoptotic Bcl-2 family proteins, such as Bcl-2, Bcl-xL, and Mcl-1, to restore apoptosis in cancer cells is a promising therapeutic strategy that has been validated by the FDA approval of the Bcl-2 selective inhibitor, venetoclax, for the treatment of leukemias. However, development of drugs targeting Bcl-xL or both Bcl-xL and Bcl-2 has been thwarted by the on-target, dose-limiting platelet toxicity because platelets depend on Bcl-xL to maintain their viability. To circumvent this toxicity, we have applied the Proteolysis Targeting Chimera (PROTAC) technology to target Bcl-xL for degradation. We hypothesized that Bcl-xL degrading PROTACs designed to recruit an E3 ligase that is minimally expressed in platelets for the targeted degradation of Bcl-xL will have reduced platelet toxicity and improved antitumor activity compared with their corresponding Bcl-xL inhibitors. This hypothesis is supported by our proof-of-concept studies, demonstrating the potential of utilizing the PROTAC approach to achieve tissue selectivity. In this presentation, I will discuss our effort in the discovery and development of Bcl-xL specific and Bcl-xL/Bcl-2 dual PROTAC degraders as potential cancer therapies".

**SESSION 4 (J)**

**ADVANCES IN TRANSMUCOSAL DRUG DELIVERY.**

The keynote speaker was Prof. Vitaliy Khutoryanskiy, Programme Director of MSC by Research in Pharmacy, Professor of Formulation Science at University of Reading, UK. The Chair and Co-Chairpersons for the talk are Prof. Prameela Rani, Principal, ANU Guntur and Dr. Ramana Reddy, KVSR, SCOPS Vijayawada.

The abstract of Dr Vitaliy is "Transmucosal delivery offers many advantages including improved drug bioavailability, possibility of targeting particular organs, ease and non-invasive

nature of drug administration. The established transmucosal routes currently include ocular, nasal, oromucosal, oesophageal, gastrointestinal, vaginal and intravesical drug delivery. Mucoadhesive formulations capable of adhering to mucosal membranes and retaining on their surfaces have been explored for drug delivery during the past several decades. Most of these formulations are based on hydrophilic polymers (mucoadhesives of first generation). Over the past 10 years we have been exploring the potential of different mucoadhesive systems for ocular, nasal and intravesical drug delivery. In addition to the development of new methods of synthesis for thiolated systems, we have pioneered the new types of thiol-free systems that can also be classified as the second generation mucoadhesives. These include nanocarriers and polymers functionalised with maleimide, methacryloyl and aldehyde groups. Additionally, we have developed new chemistries for the synthesis of acryloylated polymers. We also explored the design and applications of new mucus-penetrating systems. In addition to the design and testing of some new PEGylated nanocarriers, we pioneered the use of short-chained poly (2-oxazolines) as a new class of mucus-penetrating polymers. More recently, we have discovered that several other classes of non-ionic polymers could be used as a mucus-inert coating in the design of mucus-penetrating nanoparticles. The proposed lecture will present the state of the art in this area of research and will highlight the major developments".

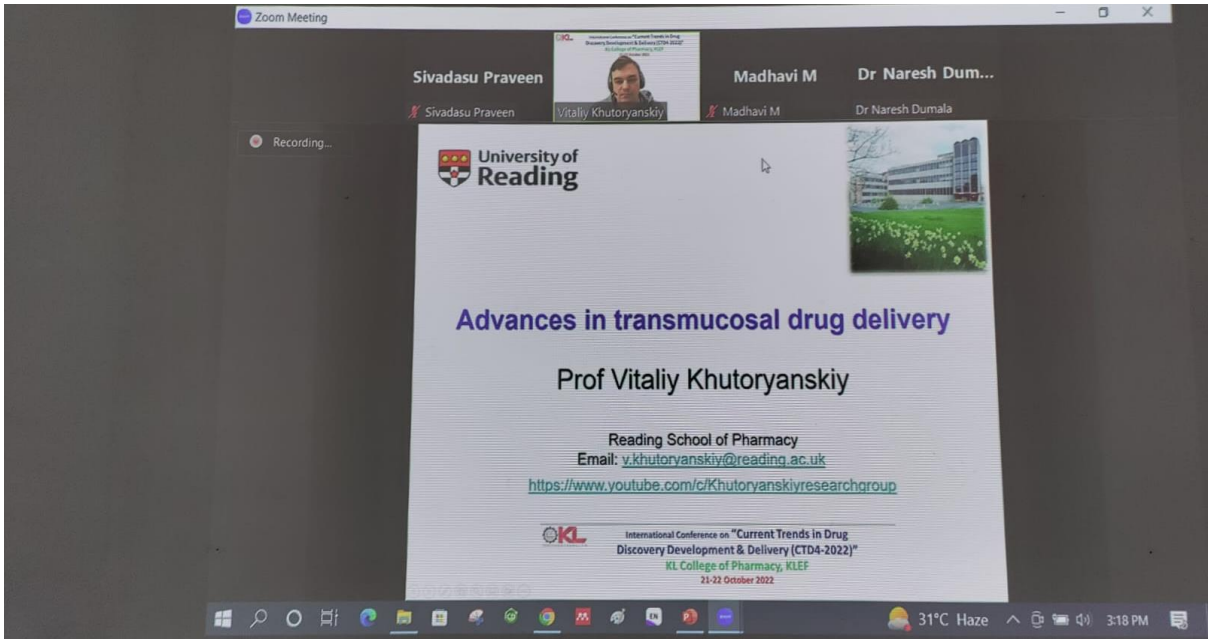



**Figure 8**: Scientific session by Prof. Vitaliy Khutoryanskiy on "Advances in transmucosal drug delivery at Jasmine Hall on the first day of the CTD4-2022 conference.

**SESSION 5 (P)**

**MACHINE LEARNING AND CHEMOINFORMATICS IN EPIGENETIC DRUG DISCOVERY.**

The resource person was Jose L. Medina-Franco Full Professor, Department Of Pharmacy. The Chair and Co-Chairpersons for the talk are Dr. Afzal Bhasha, St. Mary's College Of Pharmacy and Dr. Chenchu Lakshmi, KVSR SCOPS, respectively.

The abstract of Dr. Jose talk is divided into three main sections. First, he presented an introduction to chemoinformatics, mentioning a formal definition, similarities, and differences with other theoretical chemistry disciplines and their broad applicability in research, including drug discovery. After the brief background, he discuss the progress of chemoinformatics applications in a drug discovery program ongoing in our research group focused on epigenetic drug discovery with emphasis on the development of inhibitors of DNA methyltransferases. As part of the results, Dr Jose presented the current trends of machine learning models generated based on large public compound databases annotated with biological activity and implemented in a free webserver to advance epigenetic drug discovery further. Dr Jose also discussed the perspectives of this program that includes the development of poly-epigenetic drug candidates. In the third section of the talk, he has outlined the significant challenges that, in the author's view, faces chemoinformatics and computer-aided drug design in general. For the discussion purposes, such challenges are organized into three major categories: those associated with the effective exploration and expansion of the chemical and biological spaces, methodological challenges, and hurdles related to effective communication among research teams, data sharing, education, and training.

**SESSION 6 (P)**

**STIMULI RESPONSIVE POLYMER-BASED MATERIALS: A NOVEL PLATFORM FOR CONTOLLED DRUG DELIVERY.**

The keynote speaker was Dr. Garima Agrawal, Assistant Professor School of Basic Sciences, IIT Mandi. The Chair and Co-Chairpersons for the talk are Dr. J. Ramesh, CHIPS Guntur and Dr, Rohini, ANU Guntur, respectively.

The abstract of Dr Garima talk is "Cancer, one of the world's most catastrophic diseases, is accounting for almost 10 million deaths as reported in 2020. In quest of developing various technological solutions for fighting cancer, extensive efforts are being made by scientists all over the world.

In recent years, polymer-based nanomaterials have emerged as a promising candidate for improving the quality of life of cancer patients. In this regard, both natural and synthetic polymers have been explored for deigning nanomaterials with defined morphology, high porosity, adjustable dimensions, and stimuli responsive properties (sensitivity to T, pH, ionic strength and solvent quality) that can be explored for cancer therapy.

In this presentation, designing and characterization of both natural and synthetic polymer based degradable nanomaterials for controlled delivery of anticancer drugs will be shown. In the first part, the fabrication of pH and temperature responsive biodegradable poly (N-vinylcaprolactam) based nanogels functionalized with itaconic acid (IA) units will be touched upon. In the second part, designing and characterization of natural polymer (xylan) based prodrug nanoparticles will be discussed for the controlled release of dual drugs namely

DOX and curcumin for enhanced efficacy of cancer treatment. In the third part, the chemical designing of redox responsive chitosan/stearic acid nanoparticles (CSSA NPs) (≈200 nm) will be discussed for dual drug delivery for colorectal cancer therapy".

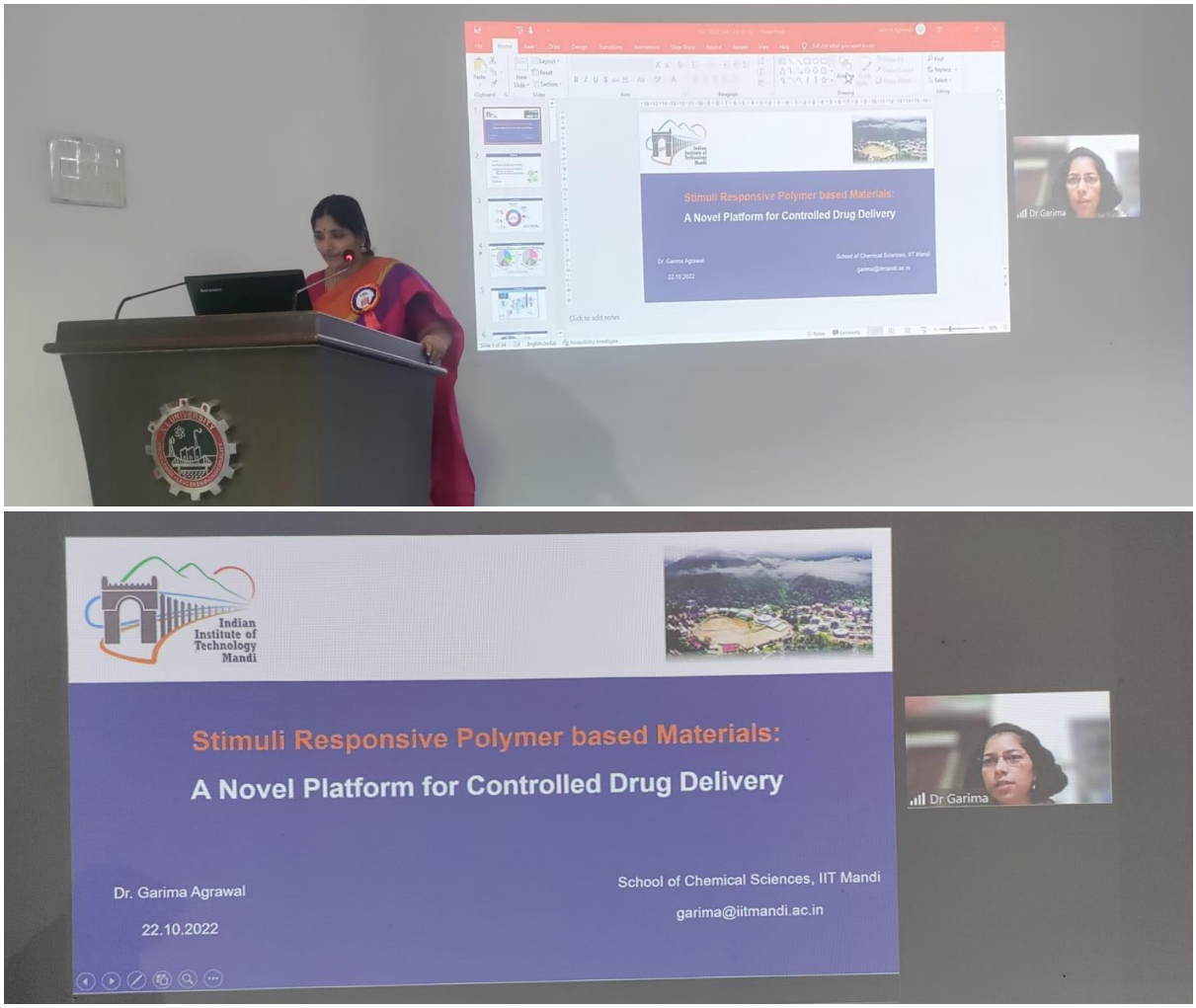



**Figure 9**: Scientific session by Dr Garima Agrawal on "Advances in transmucosal drug delivery at Jasmine Hall on the first day of the CTD4-2022 conference.

**SESSION 6 (J)**

**3D APPROACH TO ORAL DRUG DELIVERY.**

The resource person was Dr. Omthanu Perumal, Associate Dean for Research, Director, Center For Drug, Disease and Delivery, Professor of Pharmaceutical Sciences, College of Pharmacy and Allied Health Professions, South Dakota State University, USA. The Chair and Co-Chair Persons for the talk are Dr. B. Pamula Reddy, Nirmala College of Pharmacy, Mangalgirir and Dr. M. Sudheer Babu, Nirmala College of Pharmacy, Mangalgiri, respectively.

The talk of Dr Perumal was focused on advances in oral drug delivery utilizing the 3D (Disease, Drug, and Delivery) framework. Provided an overview of the role of pharmaceutics in drug development. Specifically, the talk examples of the utilization of the 3D framework to develop advanced oral drug delivery systems. These examples will include oral products in the market

and those that are currently at various stages of development. The talk was concluded with an integrated model for developing personalized medicine utilizing the 3D framework.

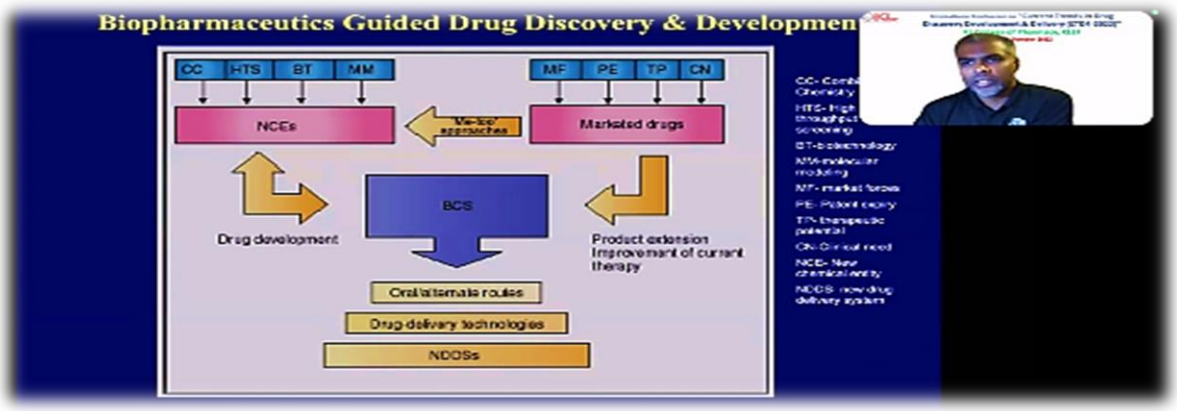



**Figure 10**: Scientific session by Dr Perumal on 3D approach to oral drug delivery, discovery and development

Both the sessions discussed on the distinct types of delivery systems with unconventional materials and approaches. These sessions were informative for the pharmacy students for the current trends.

The session was followed by the technical session by Prof. K.S. Jagannatha Rao, pro-chancellor, KLEF who briefed the day 1 sessions and closed first day of CTD4-2022.

The oral and poster presentations were held simultaneously in the respective halls with which day 1 of the conference was concluded.


**Figure 11**: Students and Scholar Delegates presenting their works during oral and e-poster sessions of CTD4-2022.

**Day 2: (22ND OCTOBER 2022, 9:00AM -5:00PM)**

**SESSION 7 (P)**

**IMPURITY PROFILING OF PHARMACEUTICALS.**

The resource person of the session was Dr. Gananadhamu, Assistant Professor, NIPER Hyderabad. The Chair and Co-Chair Persons for the talk are Dr. A. Suneetha, Principal, KVSR SCOPS, Vijayawada and Dr. Narender. M, KLCP, respectively.

The crucial points of impurities in pharmaceuticals were discussed in the session. The speaker highlighted the impurities profiling – since unrecognized, poisonous impurities are dangerous to health and should be found and determined by selective procedures to increase the safety of drug therapy, impurity profiling has become more significant in contemporary pharmaceutical analysis.

**SESSION 7 (J)**

**ACUTE INFLAMMATION EXACERBATES ISCHEMIC STROKE INDUCED DAMAGE**

The resource person was Dr.Nalamolu Koteswara Rao, Senior Scientist, Turn Technologies, USA. The Chair and Co-Chair Persons are Dr. Bhargav Bhushan, AMR College of Pharmacy, Narsaraopeta and Mr. K. Ramakrishna, KLCP, respectively.

The abstract of Dr Nalamolu talk is "Ischemic stroke is the leading cause of long-term disability. Inspite of FDA approved tissue plasminogen activator drug treatment, thrust for novel therapeutic targets is necessary to address the lost motor and sensory functions. Initially, Ischemic stroke induced hypoxia and hypoglycemia induces brain damage. Multiple signaling pathways involvement after ischemic stroke worsens stroke outcomes. tPA treatment within 4.5 hours after induction of stroke cleaves the clot and reinstates blood flow which is beneficial to address hypoxia and hypoglycemia. However, infiltration of inflammatory mediators after reperfusion leading further brain damage.

Quest for development of therapeutics to retrieve the lost neurons and brain cells as well as prevention of secondary brain damage are the main thrust areas of ischemic stroke research. Overall goal is to facilitate normal motor and sensory functions to the stroke patient. Our aim of this research study is to identify the signaling pathway/s involved in acute inflammation mediated secondary brain damage. This will pave the pathway to develop new drugs or use current drugs to treat the stroke patient".

**SESSION 8 (P)**

**UNEARTHING THE PHYTOESTROGENIC ACTIVITY OF MEDICINAL PLANTS: A STEP FORWARD FOR A NOVEL AND SELECTIVE PHYTOESTROGENIC ASSAY.**

The keynote speaker was Mohamed El-Shazyl, PhD, Professor and Head of Pharmaceutical Biology Department, The German University in Cairo. The Chair and Co-Chair of the talk are Dr. Anjana Male, Nirmala College of Pharmacy, Mangalgiri and Dr. M Ramaiah, Hindu College of Pharmacy, respectively.

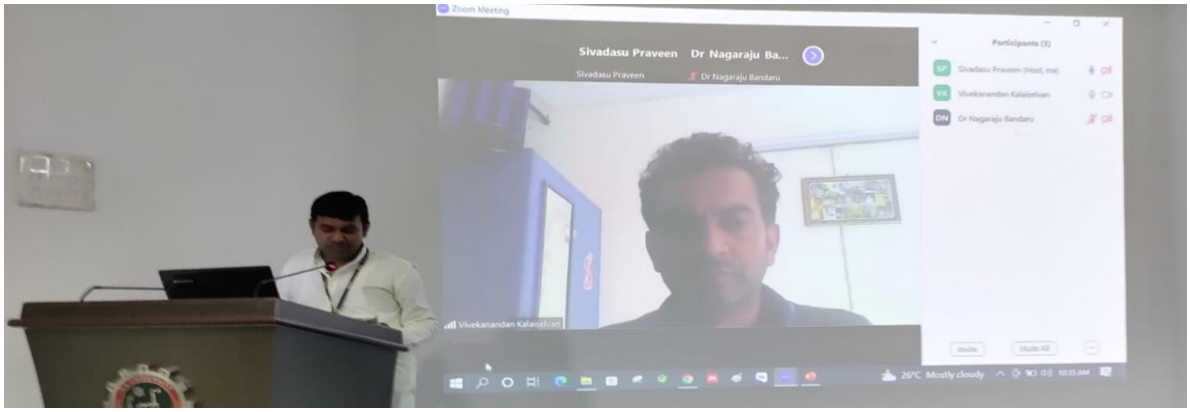
The abstract of Dr. Shazyl talk is "Phytoestrogens are plant constituents with a di-phenolic structure similar to estrogen. They are found in a wide variety of edible plants. They bind to estrogen receptors but preferentially to ER. They may act as weak estrogens in some circumstances. Phytoestrogens bind to both ER α and ER β but preferentially to ER β (8-40x more). They also inhibit tumor growth factors such as Protein Tyrosine Kinases (PTK) and DNA Topoisomerases involved in tumorigenesis. Phytoestrogens may inhibit Vascular Endothelial Growth Factor (VEGF) and possess antioxidant qualities. The importance of these secondary metabolites encouraged us to develop a cross-kingdom assay that carries a chemically inducible gene expression system, which was introduced to describe a novel strategy in which transgenic plants are used to measure the bioactivity of mammalian proteins. It is a new, low-cost, easy, and efficient estrogenic screening platform. In 2005, our group published the first report on a cross-kingdom bioassay utilizing transgenic pER8:GFP Arabidopsis for the detection of compounds possessing estrogen agonist or antagonist activities. The shoots of transgenic plants were used as a material for the screening of the estrogenic activity. In 2013, we developed for the first time a transgenic pER8:GUS Arabidopsis callus in a cross-kingdom assay to evaluate the estrogenic activity of 17β-estradiol (E2) and natural products. The transgenic plants were utilized to produce many calli, which stably expressed transfer genes by asexual reproduction. The optimum formula for calli induction and production were selected from sixteen solid media and six liquid media, respectively. This assay was used to evaluate the phytoestrogenic activity of many plants used in Asian folk medicine. The assay proved sensitive and selective for compounds with phytoestrogenic activity".

**SESSION 8 (J)**

**MATERIOVIGILANCE AND PHARMACOVIGILANCE**

The resource person was Dr. V. Kalaiselvan, Senior Principal Scientific Officer, Indian Pharmacopoeia Commission, Ministry of Health And Family Welfare, Govt. of India, Ghaziabad. The Chair and Co-Chair for the talk are Dr. Vijay Kumar, KVSR SCOPS, Vijayawada and Dr. Naresh Dumala, KLCP,KLEF, respectively.

The session focused on reporting the adverse events and post marketing surveillance which inspired the students by opening the doors for employment skills. Pharm D students were actively interacted with Dr Kalaiselvan and enquired further about materiovigilance and its importance. The pharmacovigilance prospectus in Indian scenario was another aspect of the talk by Dr. Kalaiselvan.



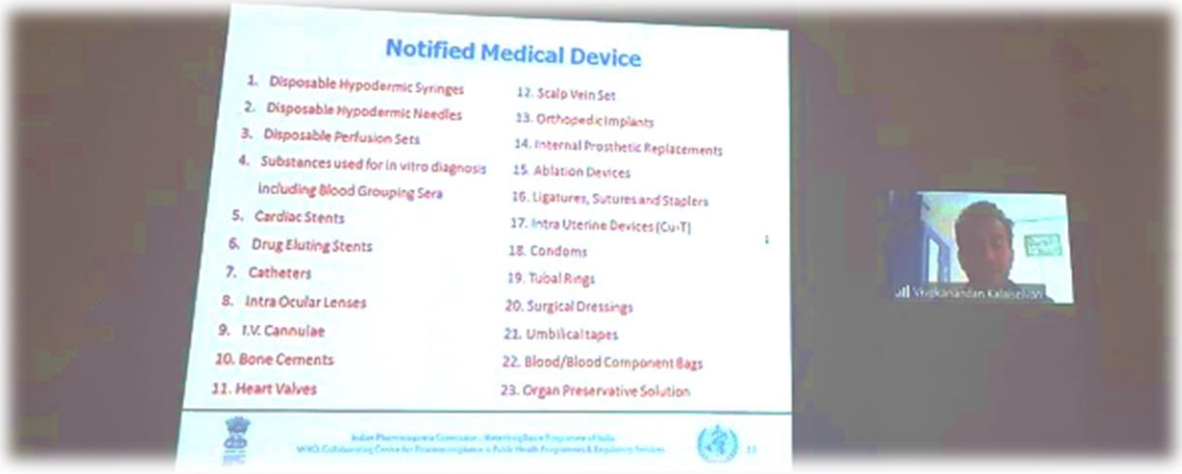




**Figure 12**: Virtual sessionby Dr Kalaiselvan on "materiovigilance and pharmacovigilance" at Jasmine Hall on the second day of the CTD4-2022 conference.

**SESSION 9 (P)**

**ELECTROCHEMICAL DIAGNOSTIC BIOSENSING TOOL FOR VITAMIN D DEFICIENCY**

The keynote speaker was Dr. Pradeep Kumar, Associate Professor, Dept. Biotech, KL University. The Chair and Co-Chair for the talk are Dr. M. Prasada Rao, Principal, MAM College of Pharmacy, Narsaraopeta and Dr. A. Anka Rao, KLCP, KLEF, respectively.

**Figure 11**: Scientific session by Dr Pradeep Kumar Brahman on electrochemical diagnostic bio-sensing tool and appreciating the resource person

**SESSION 9 (J)**

**BASIC PRINCIPLES OF REAL-WORLD EVIDENCE**

The keynote speaker was Dr. Krishna Undela, Assistant Professor, Dept. of Pharmacy Practice, NIPER Guwahati, Assam. The Chair and Co-Chair for the talk are Dr Nagaraju B and Dr. P. Rajeshwari, KLCP, KLEF, respectively.

The session was focused on real world data which can help the Pharmacy and Pharm D students to conduct the clinical studies based upon that. The abstract of Dr Undela's talk is "Real-world evidence (RWE) is the clinical evidence regarding the usage and potential benefits or risks of a medical product derived from analysis of real-world data. RWE can be generated by different study designs or analyses, including but not limited to, randomized trials, including large simple trials, pragmatic trials, and observational studies (prospective and/or retrospective).

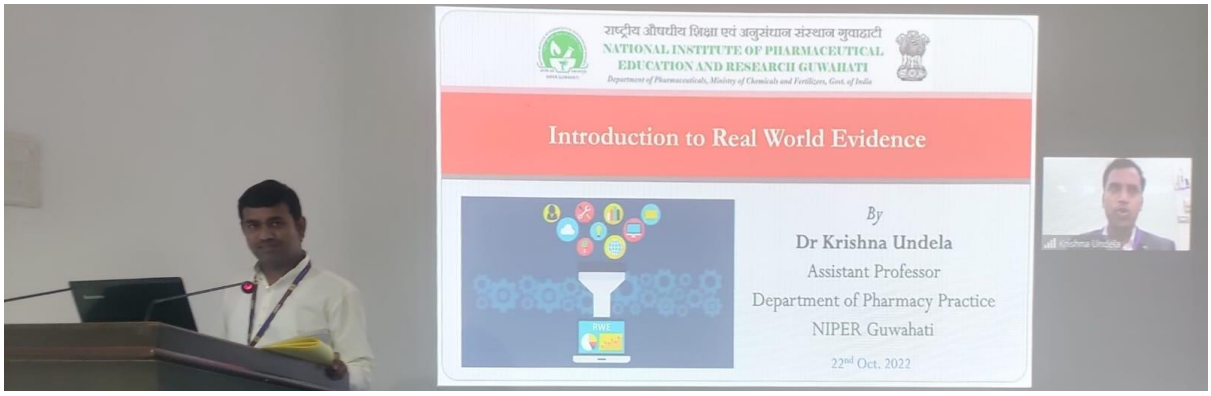



**Figure 13**: Scientific session by Dr. Krishna Undela on "Introduction to Real World Evidence" at Jasmine Hall on second day of the CTD4-2022 conference.

RWE is important because it can often provide a more comprehensive understanding of how a new therapeutic option will work in the "real world" rather than via standard RCTs alone. While RCTs remain the gold standard in the approval of new medical therapies, they often cannot provide the full picture".

The oral talks and poster presentations continued in the following sessions. 40 oral presentations and 24 poster presentations were made in total and are held in different class rooms. Students and scholars from different organizations presented their presentations as a group but a single main presenter was taken into consideration.

**Valedictory:**

The two day international conference, CTD4-2022 was concluded with the valedictory session which was scheduled after the technical sessions and oral/e-presentations. Dr. Buchi. N. Nalluri, Convenor of the CTD4-2022, hosted the valedictory session. All the guest who are there on the stage were felicitated with the memento. Later, certificates were given to the winners in the first, second, third place categories. There were also appreciation certificates given to the participants' who presented well despite of the competition. The convener

addressed the gathering by appreciating each one of the committee members and highlighted the knowledge gained from the sessions.

**Figure 14**: Valedictory session on the day 2 of the CTD4-2022 international conference.

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| 3 | 4866 | Dr.SIVA PRASAD PANDA | ASSOC.PROF. | PHARMACY |
| 4 | 5465. | Dr.S N KOTESWARA RAO G | ASSOC.PROF. | PHARMACY |
| 5 | 4460 | Dr.ALAVALA RAJASEKHAR REDDY | ASST.PROF. | PHARMACY |
| 6 | 4918 | Dr. UTTAM PRASAD PANIGRAPHY | ASST.PROF. | PHARMACY |
| 7 | 5085 | Ms. GADE KALYANI | ASST.PROF. | PHARMACY |
| 8 | 5304 | Mr. VENKATA GOPAIAH | ASST.PROF. | PHARMACY |
| 9 | 5306 | Ms.NALLAPATY SRI LAKSHMI | ASST.PROF. | PHARMACY |
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| 55 | 190181062 | FARAH ABDI MUSA | |
| 56 | 190181063 | MBARKA IDD MWADA | |
| 57 | 190181064 | KAREN DOUGLAS LYATUU | |
| 58 | 190181065 | MARIUM MUKHLIS MOHAMED SALIH | |
| 59 | 190181066 | NELSON HAULE DOMINICK | |
| 60 | 190181067 | OSMAN ABDELBAGI MOHAMMED ABDALLA | |
| 61 | 190181068 | MUNAKABAYO LWEENDO JANE | |
| 62 | 190181069 | ELIZABETH MUMBA | |
| 63 | 190181070 | ORAH LUBUWA | |
| 64 | 190181071 | NATASHA LANGWANI | |
| 65 | 190181072 | OHM LUBUWA | |
| 66 | 190181073 | MWAKA MBANGA | |
| 67 | 190181074 | AVULA LAHARI | |
| 68 | 190189001 | JAMES OCHIENG OKINYO | |
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| 1 | 4364 | Dr.G.Chakravarthi | Principal | Pharmacy |
| 2 | 5922 | Dr.A Anka Rao | Assoc.Prof | Pharmacy |
| 3 | 7067 | Dr. Buchi N Nalluri | Professor | Pharmacy |
| 4 | 7167 | Dr. Manikanta Murahari | Assoc.Prof | Pharmacy |
| 5 | 5999 | Dr.P. Rajeshwari | Assoc.Prof | Pharmacy |
| 6 | 5758 | Dr.M.Narender | Asst. Prof | Pharmacy |
| 7 | 6032 | Dr. B. Naga Raju | Asst.Prof | Pharmacy |
| 8 | 6265 | Dr. J. Risy Namratha | Asst.Prof | Pharmacy |
| 9 | 6287 | Dr. D.Prasanna Kumar | Asst.Prof | Pharmacy |
| 10 | 5306 | Mrs.N Srilakshmi | Asst. Prof | Pharmacy |
| 11 | 5925 | Mr. A.Narayana Rao | Asst.Prof | Pharmacy |
| 12 | 6259 | Ms. Md. Jaha Sultana | Asst.Prof | Pharmacy |
| 13 | 6261 | Mrs. T.Prasanna Kumari | Asst.Prof | Pharmacy |
| 14 | 6272 | Mrs. N. Venkata Naga Jyothi | Asst.Prof | Pharmacy |
| 15 | 6472 | Mr. A.V.Surendra | Asst.Prof | Pharmacy |

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