

# **One Week International e- FDP (Faculty Development Program)**

**Date: 29.04.2024 - 04.05.2024**

**Theme: Unleashing the Potential Advancements in Pharmaceutical Education & Research**

**Organizer: Tagore College of Pharmacy, Chennai**

## **Introduction:**

The One Week International e- FDP on "Unleashing the Potential Advancements in Pharmaceutical Education & Research" was conducted by Tagore College of Pharmacy, Chennai, aimed at providing a platform for industry professionals and academics to explore the latest trends and advancements in pharmaceutical education and research.

## **Highlights:**

### **Welcome Address:**

Dr. K. Priyachitra, a distinguished Professor at Tagore College of Pharmacy (TCP), delivered the warm and gracious welcome address at the commencement of the One Week International eFDP on "Unleashing the Potential Advancements in Pharmaceutical Education & Research." In her address, she extended a heartfelt welcome to all participants, esteemed speakers, and guests, setting the tone for an enriching and collaborative learning experience.

She expressed her delight in hosting the eFDP, emphasizing its significance in facilitating knowledge exchange, professional development, and networking opportunities for pharmaceutical professionals, researchers, and educators from around the world.

### **Inaugural Address:**

**Dr. K. Ilango, Principal, Tagore College of Pharmacy (TCP)**

### **Details:**

Dr. K. Ilango, the esteemed Principal of Tagore College of Pharmacy (TCP), delivered the inaugural address for the One Week International eFDP on "Unleashing the Potential Advancements in Pharmaceutical Education & Research." In his address, Dr. Ilango set the tone for the event by emphasizing the critical role of advancing pharmaceutical education and research in addressing global healthcare challenges and driving innovation in the pharmaceutical industry.

Furthermore, Dr. Ilango expressed his appreciation for the efforts of the organizing committee, faculty members, and participants in making the eFDP a reality. He emphasized the importance of knowledge dissemination and professional development initiatives like the eFDP in empowering pharmaceutical professionals to make meaningful contributions to healthcare innovation and societal well-being.

### **Daily Sessions:**

#### **Session 1:**

**Topic: Looking Beyond Patent(ing): A Must for Indian Pharma Discipline**

**Speaker: Dr. Umesh Banakar**

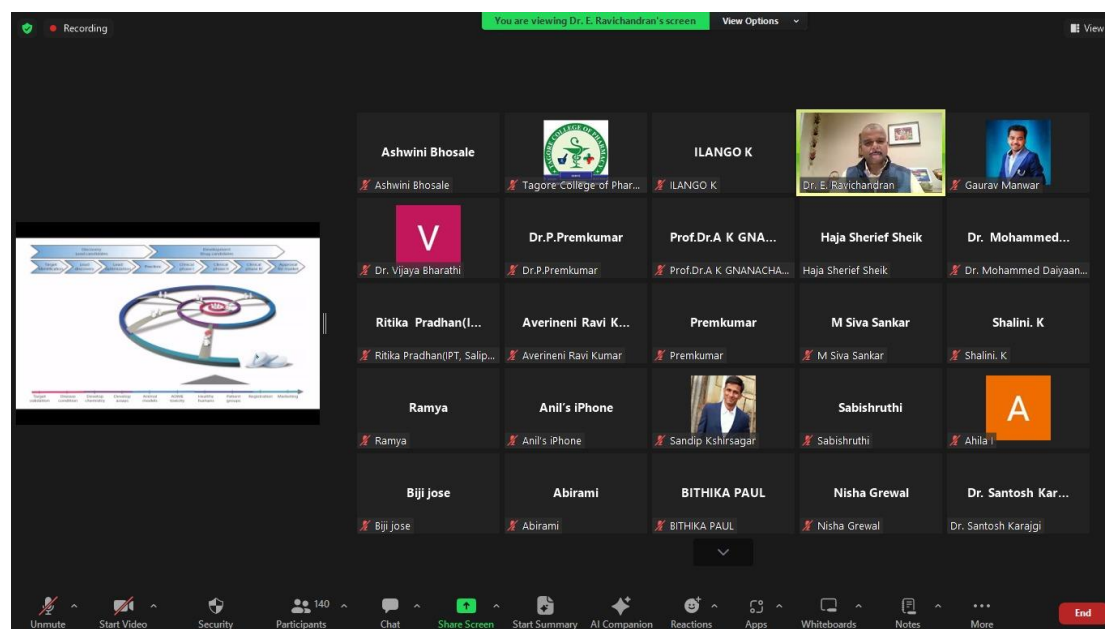
Details: Dr. Umesh Banakar, with his extensive experience in pharmaceutical innovation, explored the importance of moving beyond patenting in the Indian pharmaceutical sector. He discussed strategies for enhancing competitiveness and fostering innovation while navigating patent-related challenges.

#### **Session 2:**

## Topic: Biostudies of Chloroquine Enantiomers

**Speaker: Dr. E. Ravichandran**

Details: Dr. E. Ravichandran delved into the biostudies of chloroquine enantiomers, shedding light on their pharmacological properties and potential applications. His session provided insights into the pharmacokinetics, metabolism, and therapeutic implications of chloroquine enantiomers in the context of drug development and clinical practice.



## Day 2:

### Session 1:

**Topic: Advances in New Drug Development- Past to Future**

**Speaker: Dr. Jagannadha Rao Kandula**

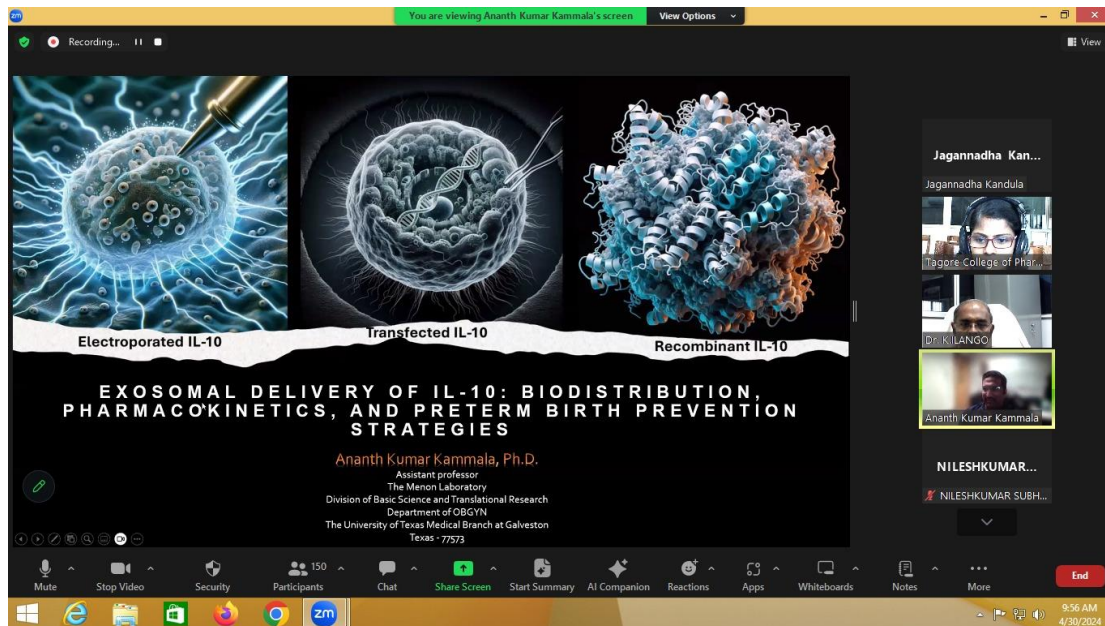
Details: Dr. Jagannadha Rao Kandula explored the evolution of new drug development, from historical milestones to future prospects. He discussed key advancements, challenges, and emerging trends shaping the landscape of pharmaceutical innovation, providing valuable insights for researchers and industry professionals.

### Session 2:

**Topic: Exosomal delivery of IL-10: Biodistribution, Pharmacokinetics, and Preterm Birth Prevention Strategies**

**Speaker: Dr. Ananth Kumar Kammala**

Details: Dr. Ananth Kumar Kammala presented on the exosomal delivery of interleukin-10 (IL-10) and its potential applications in preventing preterm birth. He discussed the biodistribution, pharmacokinetics, and therapeutic efficacy of IL-10 delivered via exosomes, highlighting its role in addressing reproductive health challenges.



### Day 3:

#### Session 1:

##### Topic: Extractables and Leachables

##### Speaker: Dr. V. Gopalakrishnan

Details: Dr. V. Gopalakrishnan delved into the critical topic of extractables and leachables in pharmaceutical products. He discussed the evaluation, identification, and mitigation strategies for potential contaminants that can migrate from packaging materials or processing equipment into drug products. This session provided valuable insights into ensuring the safety and quality of pharmaceutical formulations.

#### Session 2:

##### Topic: Impact of Artificial Intelligence (AI) in the field of Neuroscience

##### Speaker: Dr. MuraliKrishnan Dhanasekaran

Details: Dr. MuraliKrishnan Dhanasekaran explored the transformative role of artificial intelligence (AI) in neuroscience research and clinical practice. He discussed AI-driven approaches for analyzing complex datasets, diagnosing neurological disorders, and developing novel treatment strategies. This session highlighted the potential of AI to revolutionize neuroscience and improve patient outcomes.

**EXTRACTABLES AND LEACHABLES**

Presented by  
Dr. Gopal Venkat, PhD

**IMPACT OF ARTIFICIAL INTELLIGENCE (AI) IN THE FIELD OF NEUROSCIENCE**

Participants: 87

Participants: 112

#### Day 4:

##### Session 1:

**Topic: Clinical & CMC Regulatory Affairs-Overview dimensions**

**Speaker: Dr. Bhaskar Rao Rayini**

Details: Dr. Bhaskar Rao Rayini provided an overview of clinical and CMC (Chemistry, Manufacturing, and Controls) regulatory affairs in the pharmaceutical industry. He discussed the regulatory requirements, compliance standards, and approval processes governing the development, manufacturing, and marketing of pharmaceutical products. This session offered valuable insights for ensuring regulatory compliance and navigating the complexities of drug approval processes.

##### Session 2:

**Topic: Scale-up considerations in Manufacturing**

**Speaker: Dr. Rohit Ghan**

Details: Dr. Rohit Ghan addressed the critical considerations involved in scaling up pharmaceutical manufacturing processes. He discussed factors such as process optimization, equipment selection, and quality assurance measures necessary for successful scale-up from laboratory to commercial production. This session provided practical guidance for ensuring the efficiency, consistency, and scalability of pharmaceutical manufacturing operations.

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## Clinical Trial Phases

| Phase 1   | Phase 2   | Phase 3  | Phase 4  |
|---|---|--|--|
| <p><b>Focus:</b> Safety. Phase I trials may include a secondary investigation of efficacy or mechanism.</p> | <p><b>Focus:</b> Efficacy becomes a more important factor. Safety still a priority.</p> | <p><b>Focus:</b> Generating enough data to move to regulatory approval of new therapies.</p> | <p><b>Focus:</b> To better understand safety in a broader population or in specific subsets after a therapy is approved.</p> |

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## SCALE-UP & CMC APPROACHES FOR COMPLEX ORAL DOSAGE FORMS

ROHIT C. GHAN, PhD, PMP  
Aurobindo Pharmaceuticals USA Inc.

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Dr. K.ILANGO

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Day 5:

### Session 1:

**Topic: Informatics Systems in Drug Development and Role we can play**

**Speaker: Dr. Purnachand Chintala**

Details: Dr. Purnachand Chintala explored the role of informatics systems in streamlining drug development processes. He discussed the integration of data management, analysis, and visualization tools to enhance decision-making, optimize research workflows, and accelerate drug discovery and development timelines. This session highlighted the importance of informatics systems in driving innovation and efficiency in pharmaceutical research.

### Session 2:

**Topic: Flavonoids and its Derivatives as Potential Multitarget Agents in Drug Discovery**

**Speaker: Dr. Vijay Kotra**

Details: Dr. Vijay Kotra discussed the pharmacological properties and therapeutic potential of flavonoids and their derivatives in drug discovery. He explored the multitargeted mechanisms of action exhibited by flavonoids, making them promising candidates for the treatment of various diseases, including cancer, cardiovascular disorders, and neurodegenerative conditions. This session provided insights into harnessing natural compounds for developing novel therapeutic agents.





optimize experimental outcomes and contribute to advancements in cancer research and treatment strategies.

### **Panel Discussion & Valedictory**

Date: May 4<sup>th</sup>, 2024

Time: 6:30 PM

Platform: Zoom Online Platform

#### **Introduction**

The Panel Discussion & Valedictory session marked the culmination of the One Week International e-FACULTY DEVELOPMENT PROGRAM, themed "Unleashing the Potential Advancements in Pharmaceutical Education & Research," organized by Tagore College of Pharmacy.

#### **Welcome Address**

**Dr. K. Priyachitra**, the Organizing Secretary, Tagore College of Pharmacy, extended a warm welcome to all participants, speakers, and guests. She expressed gratitude for their active participation throughout the program.

**Prof. Dr. M. Mala**, M.A, M.Phil., Ph.D, Chairperson & Managing Trustee of Tagore Educational Trust, presided over the session, guiding the proceedings with wisdom and expertise.

#### **Report of the FDP**

The highlights and outcomes of the Faculty Development Program were presented, reflecting on the various sessions, and discussions held during the week-long program. The report underscored the program's success in fostering dialogue and collaboration among participants. A Spectacular Video of complete 6 days program was played during the valedictory session.

#### **Panel Discussion**

A stimulating panel discussion ensued, focusing on the central theme of advancing pharmaceutical education and research. Esteemed panelists shared insights, perspectives, and innovative approaches to address contemporary challenges in the field. All the speakers shared their Knowledge and answered almost all the queries raised by the participants during the session.

#### **Feedback from the Delegates**

Delegates provided valuable feedback, sharing their experiences, suggestions, and areas for improvement. Their input will inform future initiatives and enhance the effectiveness of similar programs.

#### **Valedictory Address**

**Dr. K. Ilango**, Professor & Principal of Tagore College of Pharmacy, delivered the valedictory address, expressing gratitude to all participants, speakers, and organizers. He emphasized the importance of continuous learning and collaboration in driving progress in pharmaceutical education and research.

#### **Chief Guest Address**

**Dr. Umesh Banakar**, M.Pharm., Ph.D., President of Banakar Consulting Services, Westfield, USA, delivered an inspiring address, highlighting emerging trends and opportunities in the pharmaceutical industry. His insights added depth and perspective to the discussions.

#### **Vote of Thanks**

**Dr. D. Saravanan**, Professor at Tagore College of Pharmacy, extended a heartfelt vote of thanks to all individuals and organizations that contributed to the success of the Faculty Development Program. He acknowledged their support, dedication, and commitment to advancing pharmaceutical education and research.

#### **Conclusion**

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| 19 | Excellent                | Excellent                | Excellent                | Excellent                | Excellent                | Excellent                  | Excellent             |
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Tagore College of Pharmacy

Dr. M. Swetha

Dr. M. Swetha

Dr. M. LANGO

Prof. Dr. A. K. GNANACHANDRAN

Prof. Dr. A. K. GNANACHANDRAN

Dr. A. Sumathi

Dr. A. Sumathi

Rubikaa Gopinath

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Dr. M. Swetha

Dr. M. Swetha

Soniya Phadte

Dr. M. Sugha

Dr. M. Sugha

Gayatri Jagtap

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Rama Krushna p...

Rama Krushna pattanayak

Averineni Ravi Kumar

Averineni Ravi Kumar

SHAIKH RIZWAN

Pasham Uma Reddy

Pasham Uma Reddy

Dr. John Thomas

Dr. John Thomas

Jisha James

Jisha James

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Sharmila Shah

Sharmila Shah

Biji Jose

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Dr. Mohammed...

Dr. Mohammed Daiyaan Khan

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Dr. Vijay Kotra

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Dr. M. Swetha

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Dr. M. Sugha

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Sharmila Shah

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Gayatri Jagtap

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Pasham Uma Reddy

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Priyanka Sinha

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Dr. Mohammed Daiyaan Khan

Dr. Mohammed Daiyaan Khan

Dr. John Thomas

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Dr. Pratibha Daroi

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