

## EVENT REPORT

<b>Name of the Event</b>	: Online Faculty Development Program
<b>Title of the Event</b>	: eFDP on AI for Translation Medicine: Bridging Bench to Bedside
<b>Organized by</b>	: Rathinam College of Pharmacy
<b>Date &amp; Time</b>	: 15.12.2025 - 20.12.2025
<b>No of Staffs Participated</b>	: 150

The Rathinam College of Pharmacy successfully organized a six-day online Faculty Development Programme (e-FDP) In Association with titled “**AI for Translational Medicine: Bridging Bench to Bedside**” from 15th to 20th December 2025. The programme aimed to introduce faculty members from Medicine, Dental, Paramedical, and Allied Health Sciences to the fundamentals of translational medicine and the growing role of Artificial Intelligence (AI) in biomedical research, clinical decision-making, and personalized healthcare. The programme brought together eminent academicians, industry experts, and researchers who shared their expertise on AI-driven innovations transforming drug discovery, clinical research, healthcare systems, and research ethics.

### **Day 1 – 15.12.2025**

The e-FDP commenced with an inaugural session followed by two expert lectures focusing on AI applications in biostatistics and pharmacogenomics.

**Session 1: Resource Person:** Dr. Balakumar Pitchai, Professor & Director – Research, Training & Publications, Periyar Maniammai Institute of Science & Technology

**Topic:** : "Integrating Artificial Intelligence into Bio statistical Data Analysis: Advances and Implications."

Dr. Balakumar Pitchai highlighted the role of AI and machine learning techniques in biostatistical data analysis. He elaborated on how AI enhances data interpretation, predictive accuracy, and decision-making in biomedical research.

### **Session 2:**

**Resource Person:** Dr. Dakshina Moorthy Janani, Certified Genetic Counselor & Director, GeneAura Pvt. Ltd.

**Topic:** AI in Pharmacogenomics  
The session focused on the integration of AI with pharmacogenomics to enable

personalized medicine. The speaker discussed genetic variability, AI-driven prediction tools, and their applications in optimizing drug therapy.

## Day 2 – 16.12.2025

The second day emphasized AI-driven drug design and futuristic healthcare models.

### Session1:

**Resource Person:** Dr. Chandrasekar Ponnusamy, Assistant Professor (Research), Department of Biotechnology, Rathinam Research Hub

**Topic:** Transforming QSAR with AI: Advanced Predictive Models for Translational Medicine

Dr. Chandrasekar explained how AI-based QSAR models improve prediction of drug efficacy and safety, thereby accelerating translational research.

### Session2:

**Resource Person:** Dr. K. P. Arun Kumar, Associate Professor & Vice Principal, JSS College of Pharmacy, Ooty

**Topic:** Digital Twin in Healthcare

The session introduced the concept of digital twins and their applications in patient monitoring, treatment optimization, and clinical decision support systems.

## Day 3 – 17.12.2025

Day three focused on AI applications in pharmacovigilance and modern drug discovery.

### Session1:

**Resource Person:** Mr. Ismoil Dawood, Associate Vice President, Wipro Life Sciences Solutions

**Topic:** AI Impact on Pharmacovigilance

The speaker discussed AI-based signal detection, adverse drug reaction monitoring, and automation in pharmacovigilance processes.

### Session2:

**Resource Person:** Dr. Vachala S Dhinakaran, Professor & HOD, Mallige College of Pharmacy, Bengaluru

**Topic:** Advances in Modern Drug Discovery  
This lecture covered recent advancements in drug discovery, emphasizing AI-enabled target identification and lead optimization.

#### Day 4 – 18.12.2025

The fourth day highlighted AI-driven clinical data management and drug discovery acceleration.

##### Session1:

**Resource Person:** Dr. Jamuna Ramaiah, Corporate Senior CDM Trainer, Clinformatiq Pvt. Ltd.

**Topic:** NextGen Clinical Data Management: AI-Driven Data Flow for Virtual Clinical Trials

The session focused on AI-enabled clinical data workflows, virtual trials, and data integrity management.

##### Session2:

**Resource Person:** Dr. N. Dhatchana Moorthy, Principal Scientist – Biomarker Research, Karyon Bio, USA

**Topic:** How AI Accelerates Drug Discovery and Brings New Therapies from Bench to Bedside

The speaker explained the role of AI in biomarker research, target validation, and translational drug development.

#### Day 5 – 19.12.2025

Day five concentrated on ethical considerations and real-world challenges in AI implementation.

##### Session1:

**Resource Person:** Dr. K. S. Sowmiya Rani, Founder & Editor, Sowmis\_AWW

**Topic:** AI in Research Ethics

The session emphasized ethical issues, data privacy, bias, and regulatory challenges in AI-based research.

##### Session2:

**Resource Person:** Dr. S. Shridevi, Professor & Deputy Director, Centre for Neuroinformatics, VIT-CC

**Topic:** Implementation of AI in Healthcare – Real-world Challenges

The lecture discussed practical challenges in adopting AI technologies in healthcare systems, including infrastructure and workforce readiness.

#### Day 6 – 20.12.2025

The final day focused on innovation in pharmacy education and smart healthcare systems.

#### Session1:

**Resource Person:** Dr. Sudheer Patil, Co-Founder & Promoter, Beaver Life Science Pvt. Ltd.

**Topic:** Transforming Clinical Research for Innovation in Modern Pharmacy Education

The session highlighted curriculum transformation and industry-academia collaboration using AI tools.

#### Session2:

**Resource Person:** Mr. N. Kavinkumar, Data Analyst, MMIT, Norstella  
**Topic:** Artificial Intelligence for Smarter Healthcare Systems: Innovations, Impact, and Implementation

The concluding session focused on AI-driven healthcare innovations and their impact on patient outcomes and system efficiency.

The six-day e-FDP successfully provided comprehensive insights into the role of Artificial Intelligence in translational medicine. The programme enhanced participants' understanding of AI applications across drug discovery, clinical research, healthcare systems, and research ethics. The interactive sessions fostered interdisciplinary learning and encouraged faculty members to integrate AI tools into teaching, research, and clinical practice.

  
Program Committee

  
Principal  
**Principal**  
Rathinam College of Pharmacy  
Rathinam Techzone,  
Pollachi Main Road, Eachanari,  
Coimbatore - 641 021.





**RATHINAM**  
**COLLEGE OF PHARMACY**



Affiliated to The Tamil Nadu Dr.M.G.R. Medical University, Chennai  
Approved by Pharmacy Council of India (PCI), New Delhi

**ORGANIZE**

# e-FDP on AI for Translation Medicine: Bridging Bench to Bedside



In Association with

Indian Pharmacy Graduates Association (IPGA),  
Tamil Nadu State Branch

 **15.12.2025 TO 20.12.2025**

## **OBJECTIVE OF THE PROGRAMME:**

This e-FDP aims to introduce the fundamentals of translational medicine and the role of AI in accelerating the bench-to-bedside process. It will equip participants with knowledge of AI tools used in biomedical research, clinical decision support, and personalized medicine. The program focuses on developing skills in handling biomedical data and understanding real-world AI applications in healthcare. It also emphasizes ethical and regulatory considerations in deploying AI for medical use. Overall, the FDP promotes interdisciplinary collaboration to effectively integrate AI into research, teaching, and clinical practices.

## **WHO CAN ATTEND:**

Faculties from Medicine, Dental, Paramedical and Allied Health Sciences



# RESOURCE PERSONS



**Dr. BALAKUMAR PITCHAI**

Professor & Director, Research, Training & Publications-The Office of Research & Development, Periyar Maniammai Institute of Science & Technology (Deemed to be University), Periyar Nagar, Vallam, Thanjavur 613 403, Tamil Nadu, India

TOPIC: "Integrating Artificial Intelligence into Bio statistical Data Analysis: Advances and Implications."

DATE: 15.12.2025 (11.00 am - 12.30 pm)



**Dr. DAKSHINA MOORTHY JANANI**

Certified Genetic Counselor Director - GeneAura Private Limited, India  
Director - Genomics, WellHeal, WellCube, Dubai Headquartered at Anna Nagar, Chennai, India.

TOPIC: AI in pharmacogenomics

DATE: 15.12.2025 (2.00 pm - 3.30 pm)



**Dr. CHANDRASEKAR PONNUSAMY**

Assistant Professor (Research), Department of Biotechnology, Rathinam Research Hub

TOPIC: "Transforming QSAR with AI: Advanced Predictive Models for Translational Medicine."

DATE: 16.12.2025 (11.00 am - 12.30 pm)



**Dr. K. P. ARUN KUMAR**

Associate professor & Vice principal, JSS college of pharmacy, Ooty

TOPIC: Digital twin in healthcare

DATE: 16.12.2025 (2.00 pm - 3.30 pm)



**Mr. ISMOIL DAWOOD**

Associate Vice President, Wipro Life Sciences Solutions  
Pune, Maharashtra, India.

TOPIC: "AI impact on Pharmacovigilance".

DATE: 17.12.2025 (11.00 am - 12.30 pm)



**Dr. VACHALA S DHINAKARAN**

Professor and HOD, Department of Pharmaceutical Chemistry and Analysis  
Mallige College of Pharmacy, Bengaluru-90.

TOPIC: Advances in Modern Drug discovery

DATE: 17.12.2025 (2.00 pm - 3.30 pm)

# RESOURCE PERSONS



**Dr. JAMUNA RAMAIAH**

Corporate Sr. CDM Trainer  
Clinformatiq Pvt Ltd.

Topic: Next Gen Clinical Data  
Management: AI Driven Data Flow for  
Virtual Clinical Trials

DATE : 18.12.2025 (11.00 am - 12.30 pm)



**Dr. N. DHATCHANA  
MOORTHY**

Principal Scientist - Biomarker Research,  
Karyon Bio, USA Remote.

Topic : "How AI Accelerates Drug  
Discovery and Brings New Therapies  
from Bench to Bedside"

DATE: 18.12.2025 (2.00 pm - 3.30 pm)



**Dr. K. S. SOWMIYA RANI**

Founder, Editor, & Reviewer at  
Sowmis\_AWW

TOPIC : "AI IN RESEARCH ETHICS",

DATE : 19.12.2025 (11.00 am - 12.30 pm)



**Dr. S. SHRIDEVI**

Professor & Deputy Director,  
Centre for Neuroinformatics(CNI),  
VITCC.

TOPIC : Implementation of AI in  
Healthcare - Real-world challenges

DATE : 19.12.2025 (2.00 pm - 3.30 pm)



**Dr. SUDHEER PATIL**

Co-Founder and Promoter,  
Beaver Life Science Pvt. Ltd.  
Bengaluru, Karnataka

TOPIC : Transforming Clinical Research  
for Innovation in Modern Pharmacy  
Education

DATE : 20.12.2025 (11.00 - 12.30pm)



**Mr. N. KAVINKUMAR**

Data Analyst,  
MMIT, Norstella, India

TOPIC : Artificial Intelligence for Smarter  
Healthcare Systems: Innovations,  
Impact, and Implementation

DATE : 20.12.2025 (2.00 pm - 3.30 pm)



## CHIEF PATRONS

**Dr. Madan A Sendhil**

Chairman  
Rathinam Groups

**Dr. Shima Senthil**

Director  
Rathinam Groups

## PATRON

**Dr.R.Manickam**

CEO  
Rathinam Groups

## CONVENOR

**Dr. N. Balakrishnan**

Principal  
Rathinam College of Pharmacy

## ORGANIZING SECRETARIES

**Mrs. S. MALATHI**  
ASSOCIATE PROFESSOR  
8056474700

**Mr. M. AJMALKHAN**  
ASSISTANT PROFESSOR  
9884700344

**Mr. S. FAISUL RAHMAN**  
ASSISTANT PROFESSOR  
6379383221

## FOR REGISTRATION

<https://forms.gle/eqzhfHsgZ6m4xxKN6>

**PAYMENT  
SCANNER**



**REGISTRATION  
FEE**

**Rs.150/-**



Website: [www.rathinamcollegeofpharmacy.com](http://www.rathinamcollegeofpharmacy.com)  
Address: Rathinam Techzone, Eachanari, Coimbatore.

Teams Meeting: Rabbiah Group Of Institutions

09:42:34

Participants: UJ, GH, MR, **SP**, NT, SS, DP, DA, AP

### Our BEAVER Methodology

**BEAVER**

- Broader Understanding of Customer needs
- Evaluate Business Opportunities
- Assess capabilities
- How to Create quality performance indicators engine
- Engage with stakeholders
- Reconfigure platform / follow up

Meeting chat:

Some people in this chat are outside your org. It's possible they have message-related policies that will apply to the chat. Learn more

Associate professors and assistant professors.

Kindly share this with your colleagues to join the meeting immediately - Today we have the 2 industry guest speakers for this session.

Don't waste the session.

Thanks and regards  
FAISUL RAHMAN S

11:24  
yes sv  
no sv

Type a message

Task control, Chat, People, Raise, Reactions, View, Apps, More, Camera, Mic, Share, Leave

Windows Taskbar: Search, 29°C, Light rain, 12:28

Teams Meeting: Rabbiah Group Of Institutions

09:42:34

Participants: FP, SV, MS

### Computer Aided Drug Design (CADD) is the Magic bullet...

10 - 15 years  
100 - 1000 compounds to find a drug

SAVING 2 - 5 years, 100 - 500 million US \$

- Virtual screening (1M identification)
- Select leads
- Lead optimization
- Reduce costs / time
- Reduce animals used in experiment
- Improve success rate
- Improve understanding of drug-protein interactions

Meeting chat:

Some people in this chat are outside your org. It's possible they have message-related policies that will apply to the chat. Learn more

Muhammad Fiazurrozeen (External) 11:44 AM

MR Pharmacokinetics, pharmacodynamic

Ahmadzhan M. Asmatov (External) 11:44 AM

PK- Body does to the drug

ADMET

PD Drug does to the body

Type a message

Task control, Chat, People, Raise, Reactions, View, Apps, More, Camera, Mic, Share, Leave

Windows Taskbar: Type here to search, 12:28

06:01:40

Participants

# What is Pharmacogenomics?

**Pharmacogenomics (PGx)** studies how inherited genetic variations influence an individual's response to medications

PGx aims to optimize therapy by selecting the most appropriate drug and dose for each individual

**Key Genetic Domains**

- Drug metabolism – enzymes such as CYP450
- Drug transport – absorption and distribution
- Drug targets – receptors and pathways
- Immune response – hypersensitivity and severe ADRs

Dr. Janani Dakshina Moorthy (Unverified)

GENEMURA

22°C Sunny

52:47

## Why the Industry is Moving Towards Virtual Models?

Participant Credentials & Access

Course Essentials

MR AP

SK DR

KN MS

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