



# Sri Devaraj Urs Academy of Higher Education and Research

Comprising Sri Devaraj Urs Medical College

(A Deemed to be University)

## Jalappa Foundation for Innovation and Incubation

No. SDUAHER/KLR/JFII/

/2025-26

Date: 27.02.2026

### Detailed Event Report 3: AI & Innovation in Drug Target – Idea to Discovery

**Date & Time:** 14 February 2026, 11:45 am – 12:30 pm

**Venue:** B.C. Roy Hall, SDUAHER

**Resource Person:** *Dr. Saravanan, Senior Scientist, Baatral Biosciences Pvt. Ltd.*

**Participants:** Approximately 35 attendees from Medicine, Physiotherapy, Nursing, Allied Health Sciences, and Research departments.

#### Session Overview

The third session of the workshop focused on the transformative role of Artificial Intelligence (AI) in drug discovery and target identification. Dr. Saravanan provided an in-depth exploration of how AI algorithms are reshaping pharmaceutical research, enabling faster, more cost-effective, and more precise discovery processes.

He highlighted the transition from idea to discovery, explaining how AI tools streamline molecular modeling, predictive analytics, and personalized medicine. The session emphasized the potential of AI to bridge innovation with clinical application, making drug development more efficient and patient-centered.

#### Key Highlights

- **AI in Drug Discovery:** Demonstrated how machine learning models can predict drug-target interactions and optimize compound screening.
- **Molecular Modeling:** Explained how AI accelerates structural biology research by simulating protein-ligand interactions.
- **Predictive Analytics:** Showed how algorithms can forecast drug efficacy and safety profiles, reducing trial costs.
- **Personalized Medicine:** Discussed AI's role in tailoring therapies to individual genetic and clinical profiles.



# Sri Devaraj Urs Academy of Higher Education and Research

Comprising Sri Devaraj Urs Medical College

(A Deemed to be University)

## Jalappa Foundation for Innovation and Incubation

- **Case Studies:** Shared real-world examples from biotech industries where AI shortened discovery timelines and improved accuracy.

### Participant Engagement

- **Nursing faculty and students** reflected on AI's role in care planning, patient monitoring, and integrating evidence-based protocols.
- **Physiotherapy participants** explored how AI could support rehabilitation research, particularly in predictive modeling of patient recovery outcomes.
- **Medical sciences participants** discussed applications in diagnostics, pharmacology, and clinical decision support systems.
- **Allied Health Sciences and Research members** contributed perspectives on laboratory automation, bioinformatics, and translational research.

The multidisciplinary presence enriched the dialogue, with participants actively engaging in discussions about how AI could be integrated into their respective fields. The interactive Q&A session encouraged attendees to consider interdisciplinary collaborations.

### Outcomes

- Participants gained a clear understanding of how AI is revolutionizing drug discovery and healthcare innovation.
- Awareness was created on the practical applications of AI in molecular modeling, predictive analytics, and personalized medicine.
- The session inspired attendees to explore interdisciplinary collaborations, linking AI with physiotherapy, nursing, medical sciences, and allied health research.
- Feedback indicated that participants valued the case studies and practical insights, which made the complex topic accessible and relevant.

### Conclusion

The session reinforced the workshop's overarching theme of innovation-driven healthcare. Dr. Saravanan's expertise provided participants with actionable insights into how AI can accelerate drug discovery and improve patient outcomes. With ~35 attendees from diverse departments, the session fostered a spirit of collaboration and highlighted the importance of integrating advanced technologies into healthcare education and practice.



# Sri Devaraj Urs Academy of Higher Education and Research

Comprising Sri Devaraj Urs Medical College

(A Deemed to be University)

## Jalappa Foundation for Innovation and Incubation



Prepared By  
Dr. Likhith M PT  
Deputy Coordinator,  
IIC, SDUAHER

Verified By  
Dr. Ashwini NS,  
Chief Coordinating Officer,  
IIC, JFII, SDUAHER

Approved By  
Dr. Kalyani R  
Director R&D Cell  
SDUAHER