

## **Report on Webinar Series: “Recent Advances in Pharmaceutical Sciences”**

**Organised by the Academic Staff College, Kerala University of Health Sciences (KUHS), in association with the Faculty of Pharmaceutical Sciences, KUHS.**

**Prepared by Prof. Dr. Rajasree. R.S, Faculty Dean, Pharmaceutical Sciences**

### **1. Overview**

The webinar series titled “**Recent Advances in Pharmaceutical Sciences**” was organised to expose students, researchers, faculty members, and healthcare professionals to contemporary developments in pharmaceutical sciences and healthcare technologies.

The series focused on:

- Emerging pharmaceutical technologies
- Artificial Intelligence in healthcare
- Biotechnology and advanced therapies
- Innovative drug delivery systems
- Herbal approaches for healthy ageing

The programmes were conducted online through Zoom and featured eminent academicians, university officials, and industry experts.

### **2. Target Audience**

The webinar series was intended for:

- PG Students
- Research Scholars
- Faculty Members
- Clinical Practitioners from various healthcare disciplines

### **3. Detailed Event Analysis**

#### **Webinar 01**

**Topic: “The Future of Cell and Gene Therapy in Biotechnology and CAR-T Therapy – Opportunities and Hurdles”**

**Speaker: Dr. Sivakumar Natarajan**

Commercial and Business Development Director, Miltenyl Biotec India Pvt Ltd, Telangana

**Date & Time:**

22 April 2026, 10:30 AM – 11:30 AM IST

### **Inaugural Address:**

#### **Dr. C.P. Vijayan**

Hon. Pro Vice Chancellor, Kerala University of Health Sciences

### **Key Highlights:**

- Introduction to Cell and Gene Therapy
- Scope and applications of CAR-T Therapy
- Industrial and commercial perspectives of biotechnology
- Opportunities and hurdles in translational therapeutics
- Future trends in personalized medicine

### **Analysis:**

This webinar introduced participants to one of the most advanced and rapidly evolving areas in biotechnology and pharmaceutical sciences. The inclusion of an industry expert provided participants with practical insights into commercialization, regulatory pathways, and clinical applications of advanced therapies.

The session effectively bridged academic research with industrial implementation and highlighted the growing importance of personalized and precision medicine.

## **Webinar 02**

### **Topic: “3D Printed Drug Delivery Systems”**

#### **Speaker:**

#### **Dr. V. Sankar**

Professor & Vice Principal, PSG College of Pharmacy, PSGIMSR, Coimbatore

#### **Date & Time:**

29 April 2026 , 10:30 AM onwards

### **Inaugural Address:**

#### **Prof. (Dr.) Gopakumar S**

Registrar, Kerala University of Health Sciences

### **Key Highlights:**

- Principles of 3D printing technology
- Personalized dosage form development
- Advanced pharmaceutical manufacturing

- Future applications in drug delivery systems
- Innovation in patient-specific therapeutics

### **Analysis:**

The webinar emphasized the emerging role of additive manufacturing in pharmaceutical sciences. Participants gained exposure to novel pharmaceutical manufacturing techniques and future-oriented drug delivery concepts.

The topic was highly relevant to pharmaceuticals and industrial pharmacy, reflecting the global shift toward customized healthcare solutions.

### **Webinar 03**

#### **Topic: “Application of Artificial Intelligence in Drug Discovery”**

#### **Speaker:**

##### **Dr. Kavimani**

Professor & Head, Department of Pharmacology  
Mother Theresa Post Graduate & Research Institute of Health Sciences, Pondicherry

**Date & Time:** 06 May 2026, 10.30am

#### **Inaugural Address:**

##### **Dr. S. Anilkumar**

Controller of Examinations, Kerala University of Health Sciences

#### **Key Highlights:**

- Role of AI in pharmaceutical research
- AI-assisted drug discovery
- Predictive modelling and data analysis
- Computational pharmacology
- Automation in healthcare research

### **Analysis:**

This webinar focused on one of the most transformative technologies in modern healthcare. The session introduced participants to the growing influence of Artificial Intelligence in drug discovery and pharmaceutical research.

The webinar strongly aligned with current educational reforms emphasizing digital healthcare, data-driven research, and computational approaches in pharmacy education.

## **Webinar 04**

**Topic: “Herbs: Options for Healthy Ageing”**

**Speaker: Dr. Hanumanthachar Joshi**

Principal, Sarada Vilas College of Pharmacy, Mysuru, Karnataka

**Date & Time:** 13 May 2026, 10.30am

**Inaugural Address:**

**Dr. Mohanan Kunnummal**

Hon. Vice Chancellor, Kerala University of Health Sciences

**Key Highlights:**

- Herbal medicines and healthy ageing
- Preventive healthcare approaches
- Role of medicinal plants in geriatric care
- Traditional medicine and wellness
- Natural therapeutics for quality of life improvement

## **Overall Evaluation of the Webinar Series**

### **Major Strengths**

#### **1] Diverse Scientific Themes**

The webinar series covered:

- Biotechnology
- Artificial Intelligence
- Drug Delivery Systems
- Herbal Medicine
- Personalized Therapeutics

#### **2] Eminent Speakers**

The series featured:

- Senior academicians
- University officials
- Industry experts
- Research professionals

#### **3] Future-Oriented Topics**

The selected themes reflected current global advancements in:

- Precision medicine
- Digital healthcare
- Pharmaceutical innovation

- Advanced therapeutics

#### **4] Industry-Academia Integration**

The participation of industry experts strengthened practical understanding and industrial relevance.

#### **5] Educational Impact**

The webinar series significantly contributed to:

- Enhancing awareness of recent pharmaceutical innovations
- Encouraging interdisciplinary learning
- Promoting research orientation among students and faculty
- Introducing participants to emerging healthcare technologies
- Supporting future-ready pharmacy education.

#### **Acknowledgement**

I thank the Hon'ble Vice Chancellor, Pro Vice Chancellor, Registrar, Controller of Examinations, Director, Academic Staff College, distinguished Resource Persons, Faculty Colleagues, PG Students and industry personnel from the length & breadth of the country and abroad, and all friends who actively supported and participated in the process. I also acknowledge the technical and administrative support received from the KUHS.