

Awareness Activity Report

Session by Prof. Neil Carragher

Topic: *Improving Drug Discovery Clinical Success Rates through Advanced Phenotypic and Pathway Profiling Technologies*

1. Introduction

An expert talk was organized at Gujarat Biotechnology University to enhance awareness among students and researchers about advanced strategies in drug discovery. The session was delivered by **Prof. Neil Carragher**, an internationally renowned expert in translational drug discovery and precision medicine.

2. Objective of the Activity

The key objectives of this session were:

- To introduce advanced **phenotypic screening approaches** in drug discovery
- To understand challenges affecting **clinical success rates**
- To highlight **pathway profiling technologies** for improved therapeutic outcomes
- To strengthen **academia–industry collaboration**

3. About the Speaker

Prof. Neil Carragher is a globally recognized scientist known for his contributions to cancer research, drug discovery, and translational biology. His work focuses on developing innovative technologies to improve drug development efficiency and success.

4. Key Highlights of the Session

- Discussion on **high attrition rates in clinical trials**
- Importance of **phenotypic screening over target-based approaches**
- Role of **pathway profiling** in understanding drug action
- Applications in **oncology and precision medicine**
- Case studies on improving drug discovery pipelines

5. Participation

The session saw strong participation from multiple academic and industry stakeholders, including:

- **Gujarat Biotechnology University (GBU)** – M.Sc. and Ph.D. students
- **o2h Discovery**
- **Pandit Deendayal Energy University (PDEU), Gandhinagar**

- **Cliantha Academy**
- Participants included **students, faculty members, JRFs, SRFs, and Research Associates (RA)**

☞ **Total Participants: 92 attendees**

6. Outcomes of the Activity

- Increased awareness of **modern drug discovery technologies**
- Better understanding of **translational and industry-relevant research**
- Encouragement for students to pursue careers in **drug development and research**
- Strengthened collaboration between **academic institutions and industry partners**

7. Conclusion

The session by **Prof. Neil Carragher** was highly insightful and impactful, offering participants a deeper understanding of improving clinical success rates in drug discovery through advanced phenotypic and pathway profiling technologies. The event successfully fostered knowledge exchange and collaboration.