



School of Pharmacy, Centurion University of Technology and Management, Rayagada

Webinar on Formulation and Characterization of Liposomes

Date: 13th April 2024

Resource Person: Mr. Girija Prasad Patro, Principal Scientist-II, FR&D, Eugia Pharma Specialities Limited, Hyderabad

The School of Pharmacy at Centurion University of Technology and Management, Rayagada, organized an insightful webinar on the topic "Formulation and Characterization of Liposomes" on 13th April 2024. The webinar was attended by students, faculty, and several external participants with a keen interest in the advancements of pharmaceutical technologies. Mr. Girija Prasad Patro, a renowned Principal Scientist-II from Eugia Pharma Specialities Limited, based in Hyderabad, led the session.

Objective of the Webinar

The primary objective of the webinar was to enlighten the participants on the latest methodologies and scientific advancements related to the formulation and characterization of liposomes, which are crucial in the delivery of pharmaceutical agents. The event aimed to bridge the gap between academic learning and industry practices, providing attendees with a comprehensive understanding of liposome technology's real-world applications and challenges.

Session Overview

Mr. Patro began the webinar with an introduction to liposomes, describing them as vesicular structures that can encapsulate active pharmaceutical ingredients, enhancing the delivery of drugs to targeted sites within the body. His presentation was divided into several segments, covering the following key points:

Basics of Liposomes: Overview of liposome structures, their composition, and the physical and chemical properties that influence their behavior in biological environments.

Formulation Techniques: Detailed discussion on various techniques for liposome formulation, including thin-film hydration, reverse-phase evaporation, and microfluidics-based approaches. Mr. Patro emphasized the importance of selecting the appropriate method based on the nature of the drug and the desired therapeutic effect.

Characterization Methods: This section explains the different techniques used to characterize liposomes, such as dynamic light scattering (DLS) for size determination, zeta potential measurement for stability analysis, and cryo-electron microscopy for structural visualization.

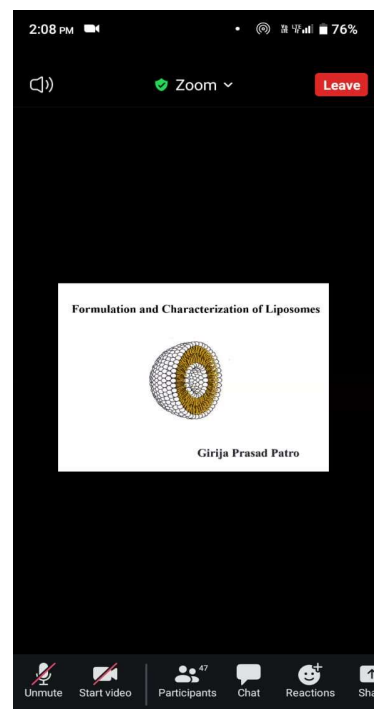
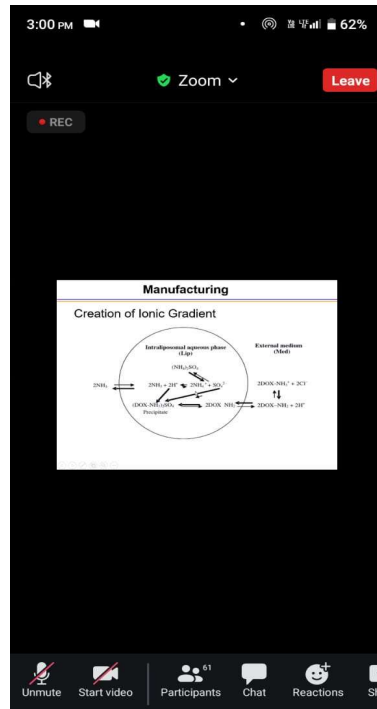
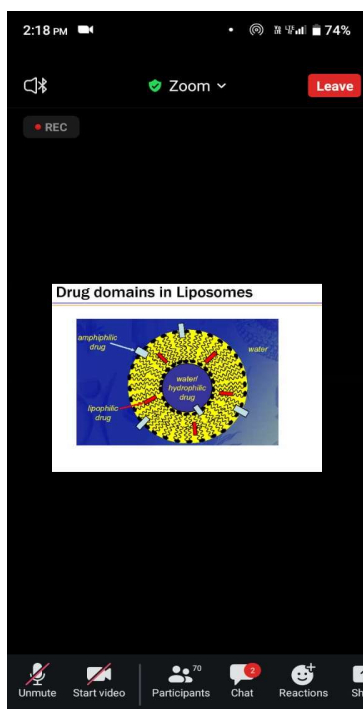
Applications in Drug Delivery: Mr. Patro shared case studies and current research focusing on how liposomes are used to improve the efficacy and safety of drug delivery, particularly in the treatment of cancer and infectious diseases.

Challenges and Future Perspectives: The discussion focused on the challenges faced in the formulation and commercial scale-up of liposomes, including stability issues, regulatory hurdles, and patient compliance. He also touched upon future trends and innovations in liposome technology that could potentially overcome existing limitations. Following the presentation, a lively question-and-answer session took place, where Mr. Patro addressed various queries from participants regarding the scalability of liposome production, patent issues, and ethical considerations in clinical applications.

Conclusion

The webinar concluded with a vote of thanks to Mr. Girija Prasad Patro for his enlightening session and the organizers from the School of Pharmacy for facilitating this educational event. The participants expressed great appreciation for the depth of knowledge shared and the interactive nature of the webinar, which not only enhanced their academic learning but also provided them with valuable insights into future career opportunities in pharmaceutical research and development.

This event has significantly contributed to the attendees' academic and professional growth and set a benchmark for future webinars at Centurion University.



List of participants

SN	Name (Original Name)	Join Time	Leave Time	Duration (Minutes)
1	DRx. Sony Lenka	04/13/2024 01:50:26 PM	04/13/2024 03:02:16 PM	72
2	Anshuman Panda	04/13/2024 01:50:32 PM	04/13/2024 03:45:33 PM	116
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189	T Dilip Kumar	04/13/2024 03:10:09 PM	04/13/2024 03:11:46 PM	2
190	Abinash Patra	04/13/2024 03:12:01 PM	04/13/2024 03:27:37 PM	16
191	Talasi Dilip kumar	04/13/2024 03:13:24 PM	04/13/2024 03:16:57 PM	4
192	Sumankumar Choudhary	04/13/2024 03:20:38 PM	04/13/2024 03:45:33 PM	25
193	babita adhikary	04/13/2024 03:24:11 PM	04/13/2024 03:45:25 PM	22
194	Roop Ranjan Rath	04/13/2024 03:24:42 PM	04/13/2024 03:25:02 PM	1
195	Md Rizwan Ansari	04/13/2024 03:33:10 PM	04/13/2024 03:45:33 PM	13
196	Binapani Barik	04/13/2024 03:38:42 PM	04/13/2024 03:39:01 PM	1
197	Binapani Barik	04/13/2024 03:39:30 PM	04/13/2024 03:42:51 PM	4

198	Deepak Gouda	04/13/2024 02:26:45 PM	04/13/2024 02:27:29 PM	1
199	Chandra Sekhar Patro	04/13/2024 02:30:28 PM	04/13/2024 02:30:50 PM	1