



## RESEARCH REMOTE SEMINAR SERIES

The Center for Dermal Research welcomes

Dr. Inayet Ellis, Scientific Affairs Director at Gattefossé USA

***“MICROEMULSIONS TO ENHANCE PERCUTANEOUS ABSORPTION IN DERMAL DELIVERY”***

**Monday, April 5<sup>th</sup> 5:30pm EST**

INAYET ELLIS, Ph.D.

Scientific Affairs Director at Gattefossé USA



**Biography:** Inayet Ellis, Ph. D. is Scientific Affairs Director at Gattefossé USA where she provides scientific, regulatory, and quality support in the use of lipid-based excipients in North America. Prior to Gattefossé, she worked at IPM, Sandoz and Kos Pharmaceuticals as a formulation scientist. She has over 15 years of experience in development of various dosage forms from early stage to commercial manufacturing. She obtained her degree in pharmacy at Ankara University and her MS and PhD in Pharmaceutics at the University of Rhode Island. She was awarded a fellowship by Hoffmann-La Roche for her dissertation on lipid-based drug delivery systems of poorly soluble drugs.

**Abstract:** Many drugs having poor oral bioavailability and side effects may benefit from a change in the administration route. Switching from oral to the dermal route of administration can have improved safety and the added benefit of improved patient compliance. Non-invasive administration by the dermal route however is hindered by the barrier properties of the stratum corneum. Penetration enhancers are therefore needed to overcome this challenge. Typically, synergistic combinations of excipients and/or customized approaches like microemulsions are needed to modulate the drug's penetration and permeation across the skin.

In this seminar, the speaker will cover:

- Microemulsions formulations characteristics, properties
- Principles of non-invasive skin penetration and permeation
- Case studies highlighting key considerations

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