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Harnessing lipidic mesophases as local drug delivery system

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Abstract:

This colloquium aims at showing the full potential of the lipidic mesophases (LMPs) as starting material to develop distinct drug delivery platforms. Begin from the physics of the biocompatible and biodegradable self-assembled structure of LMPs, concrete examples of the use of this versatile material in drug delivery will be shown including different administration routes and applications. Particularly, the advantage gained in using LMPs as rectal gel, oral formulation and injectable beads will be deeply discussed.

About the speaker: Dr. Simone Aleandri

Simone Aleandri studied Pharmacy at the University of Rome and he received his PhD in Chemistry in 2014. He did his first postdoc at the University of Zurich (2013-2015) and then in the Fachhochschule Nordwestschweiz (2016-2018) working on lipid-based formulations. From 2018 to 2019 he worked as formulation scientist in product development at BSP Pharmaceuticals S.p.A. (Italy). Nowadays he is a senior scientist in the group of Prof. Luciani at the University of Bern. Dr Aleandri is a researcher with an interest in structural and functional studies related to lipids and lipidic biomaterials. He is focused on the use of lyotropic liquid crystalline phases as drug carriers and biomembrane-mimicking systems. The investigation of the biophysical properties of these lipid aggregates in vitro, in cell models and in vivo helped him in achieving strong expertise in lipid mesophases technology.

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