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Area F

Symposium F8

Title "Biomaterials enabling therapeutic delivery of bioactive molecules"

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Abstract

Description

Biomaterials have the amazing potential to be employed as a an innovative delivery route for administering bioactive molecules in manner that is tailored to the need of the treatment and patient. The unique properties of synthetic materials can be fully exploited to control both the pharmacodynamic and pharmacokinetic profile of therapeutic agents. Intensive research is still being performed to overcome regulatory and manufacturing challenges presented to researchers every day.

This symposium will focus on the development of products that are a combination of biomaterials and therapeutic molecules. Of interest to the symposium is their production, characterization and subsequent proof-of-concept. The advancements in this field will have result in innovative strategies that will generate new opportunities for healthcare. Overall, the symposium aims to provide a broad overview of the domain and invites speakers to demonstrate their cutting-edge research and recent development to eventually bring these concepts to the patient and overcome existing limitations.

Targeted topics

- Fabrication of (biodegradable) hydrogels, fibres, particles, vesicles (liposomes, polymerosomes) and conjugates for drug release
- Therapeutic delivery of bioactive molecules such as, but not limited to, RNA, DNA, drugs, proteins and lipids.
- In vivo and in vitro studies in this field as a proof-of-concept
- No particular disease or application is specified