

SÉMINAIRE DE L'AXE

Découverte et validation de cibles thérapeutiques

Liposomes – moving beyond drug delivery



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Liposomes are the clinically most successful drug delivery system with over fifteen FDA-approved liposomal drugs. Recent progress highlighted the versatility of this vesicular platform technology beyond drug delivery, namely in biodetoxification and diagnostics. In the first part of the seminar, we will discuss the use of transmembrane pH gradient liposomes for ammonia sequestration, a highly neurotoxic metabolite elevated in liver disease. We will subsequently talk about using vesicular structures in blood diagnostics with the use cases ammonia and lactate, biomarkers of liver disease and sepsis, respectively. In the final part of the talk, we will move into clinical science to talk about recent efforts to improve care for at-risk patient populations and health care workers in hospitals.