

CRCM

Cancer Research
Center of Marseille



External Seminar Series

Tuesday October 15, 2024
2:30^{PM} IPC2 Amphitheater

Hosted by the CoMET Department



Prof. Philippe BARTHELEMY
University of Bordeaux,
Director of the ARNA laboratory

"Nucleic acid conjugates: from supramolecular systems to therapeutic applications"

Abstract: Nucleic acid conjugates are emerging as promising supramolecular materials for biomedical and technological applications. In this presentation we will highlight the recent progresses in the field of nucleic acid based lipids with an emphasis on their molecular design, supramolecular properties, physicochemical behaviors, and applications in the field of health science. In a first part we will focus on the design and the study of nucleolipids and the glyconucleolipid families. Also recent contributions of responsive materials involving nucleolipids and their use as smart drug delivery systems will be discussed. The supramolecular materials generated by nucleic acid-based lipids (nucleotides and oligonucleotides conjugates), open new opportunities for biomedical applications, including the fields of medicinal chemistry, biomaterials for tissue engineering or drug delivery.

Shortbio: P. Barthélémy received his doctorate in chemistry from the University of Montpellier II, France in 1993. He was then a postdoctoral fellow at Emory University in the group of Pr Fredric Menger (Lavoisier Grant and Emory Fellowship). In 1995 he was appointed as a temporary lecturer at the University of Avignon and as Associate Professor at the same University in 1996. P. Barthélémy worked also as a Visiting Associate Professor at Duke University in 2001. In 2005 he was appointed as full Professor at the University of Bordeaux Segalen. He has been Director of the ChemBioPharm team (<http://chembiopharm.fr>) and the Vice President of the University of Bordeaux Segalen (2010-2013). He is currently the director of ARNA laboratory INSERM U1212/UMR CNRS 5320 (<http://arna.cnrs.fr>). Over the course of his tenure, Barthélémy's research has yielded more than 170 peer-reviewed publications, more than 25 patents, and more than 100 oral invited conferences and oral presentations.



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