

**Jean-François LE MEINS, Associate Professor**

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## Research Activities

Jean-François Le Meins received a PhD degree in Chemistry and Physical Chemistry of Polymers at the University of Le Mans, in 2000. Then he completed several postdoctoral fellowships on colloidal suspensions and Physico-chemical properties of polymer in solution in different application fields (pharmaceutics, concrete formulation).

He joined the LCPO at the University of Bordeaux in September 2003 where he first worked on synthesis and self-assembly of polysaccharide based-block copolymers as these systems present great potential in therapeutic applications. In 2008 he joined the “Polymer and Self-Assembly for life science” team in LCPO, where he focused first on the development of copolymer self-assembled micro and nanostructures using microfluidics techniques. Then he rapidly became interested in the design of bioinspired self-assembled material and his current research mainly focuses on the development of hybrid polymer/lipid vesicular structures.<sup>1-3</sup> These systems have great potential in pharmaceutical applications and are also interesting as model of cell membrane. J-F Le Meins is particularly interested in the molecular and macroscopic parameters which govern their formation, membrane structuration and properties.

\*: <http://www.lcpo.fr/index.php/research-teams/3-polymer-self-assembly-and-life-sciences>

## Scientific Production

Jean-François Le Meins authored 36 publications, (h factor 22, source Web of Science)  
1 patent licensed to cosmetic (Loréal) and pharmaceutical companies (Adocia, “Drivein” technology), and more than 30 communications in national and international conferences.

## Recent References

- (1) Chemin, M.; Brun, P. M.; Lecommandoux, S.; Sandre, O.; Le Meins, J. F. *Soft Matter* **2012**, 8, 2867.
- (2) Le Meins, J. F.; Schatz, C.; Lecommandoux, S.; Sandre, O. *Materials Today* **2013**, 16, 397.
- (3) Dao, T. P. T.; Fernandes, F.; Er-Rafik, M.; Salva, R.; Schmutz, M.; Brulet, A.; Prieto, M.; Sandre, O.; Le Meins, J. F. *ACS Macro Letters* **2015**, 4, 182.
- (4) Dao, T. P. T, F. Fernandes, E. Ibarboure, K. Ferji, M. Prieto, O. Sandre and J.-F. Le Meins, *Soft Matter*, **2017**, 13, 627-637.