Novel Nanomaterials to Engineer Effective Drug Delivery Vectors

Sébastien Perrier*

1 Department of Chemistry, the University of Warwick, CV4 7AL, United Kingdom.
2 Faculty of Pharmacy and Pharmaceutical Sciences, Monash University, VIC 3052, Australia.
* s.perrier@warwick.ac.uk, Tel; +44 2476 528085; Fax: +44 25476 524112

This talk will present our work on the design of nanomaterials of precise structure and functionality to enhance their properties as drug delivery vectors. We have developed a family of polymer vectors and nanoparticles that enable us to assess some fundamental aspects of the interaction between materials and cells, as well as practical elements to design effective drug delivery vectors, based on structure and functionality.1–5

References
1. Cobo, I.; Li, M.; Sumerlin, B. S.; Perrier, S. Smart hybrid materials by conjugation of responsive polymers to biomacromolecules, Nature Mat. 2015, 14 (2), 143-159