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Synthesis and biological applications of dendrimers

Dendrimers are highly branched macromolecules with nanometer-scale dimensions and functionalized surface which help in the modification of their physicochemical and biological properties. In nanomedicine, dendrimers can be used for targeted delivery of biologically active agents or can be used as drug. In this presentation, we will discuss the advances made in dendrimers functionalization and biological applications. In addition, our recent results on the synthesis and biological evaluations of phosphorus dendrimers will be presented.

Speaker Biography

Saïd El Kazzouli was born in Beni Mellal (Morocco) in 1975. He received his Master's degree then his Ph.D. in chemistry from the University of Orleans in 2004 under the supervision of G Guillaumet and A Mouaddib. He worked then at the same University as a postdoctoral fellow with L Agrofoglio and with S Berteina-Raboin from 2004 to 2006. In 2006, he joined the National Cancer Institute (NCI) at the National Institutes of Health (NIH) in USA as a postdoctoral fellow for 3 years with V E Marquez. In 2009, he became a researcher (project leader) at INANOTECH, MASclR Foundation in Rabat, Morocco.

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