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Enhancing API bioavailability via nanotechnology for drug delivery

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Abstract

Materials with features on the scale of nanometers often have properties different from their macroscale counterparts. When applied in life science fields, nanotechnology has the potential to improve products. This presentation will describe some basic concepts of nanomaterials and the common technologies to prepare and characterize them. The advantages of using nano-sized drugs for drug delivery applications will be illustrated with a few examples.

Biography

Shawn (Xiaotian) Yin received his Ph. D. in Solid-State Chemistry from University of Waterloo, Canada. He then completed his Post Doctoral fellowship at Department of Materials Sciences and Engineering, Cornell University. Currently, Dr. Yin is a Senior Principal Scientist and the group leader of Form Chemistry group at Bristol-Myers Squibb Company. His research interests include pharmaceutical polymorphic form studies, API form in drug product, API crystallization, amorphous and nanomaterials for drug delivery, physical characterizations of pharmaceutical substances and powder X-ray diffraction applications in pharmaceutical sciences. Yin has (co)-authored 25 scientific publications and 15 patents. He serves as a scientific organization committee member for the Pharmaceutical Powder X-ray Diffraction Symposium. Yin is also a frequent invited lecturer at international and domestic scientific conferences and workshops.