

Editorial

After the success of the Theme Issue on Nano Carriers published in EJPB more than 5 years ago, I am pleased to present the present issue with more than 20 original research articles on recent advances in the field of Micro- and Nano Carriers including solid nanoparticles, nanocapsules, polymeric self-assemblies, microspheres, liposomes, solid lipid nanoparticles and lipospheres, and cubic nanoparticles.

The new technologies presented are very promising especially in order to increase the solubility and dissolution rate of poorly soluble bioactive materials in a nanosized formulation, ways of improving drug bioavailability. The concept also showed great potential for getting drugs across biological barriers.

In this Theme Issue it is clearly shown that nano- and microscaled drug carriers have great potential converting labile biologically active substances into promising drug formulations. Nowadays, the concept is strongly supported both by Government and Industry by numerous initiatives in Europe, the US and Japan.

To develop the ideal delivery system, greater understanding of the various biological interactions depending on the particle engineering method used is still required. Further advances are needed in order to make the concept of nano-sizing into a truly practical application for the next generation of drug delivery systems coming to the market place.

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