ABSTRACT

The Pheroid technology, seen within the context of drug delivery and therapy is a complex polydisperse technology, based on colloidal emulsion systems and used for the delivery of pharmaceutical and other compounds. Studies on the Pheroid™ have shown that it has several unique advantages.

(i) Pheroid can be used to transfer molecules by a number of administration routes, such as orally, nasally or transdermally without the need for sophisticated procedures;
(ii) The particles show high cell penetration characteristics in all cell types investigated;
(iii) The Pheroid shows potentiating capabilities and can be used as a pro-delivery system, in analogy to a pro-drug;
(iv) It is a highly effective gene transfer vector and much more efficient than conventional products currently on the market;
(v) One of the most interesting and exciting properties is that it may be used to package ligands so that vesicles can be targeted to specific cell surface receptors for uptake by these cells.

The talk will cover applications of the Pheroid technology in agriculture, animal health, but the focus will be on applications in infectious diseases, vaccines and radiopharmaceuticals.

Visit http://go.unl.edu/9t8z to read a detailed, Pheroid Technical Review