

Recent Advances, Challenges, Future Direction of Drug Delivery System in Nanotechnology

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Abstract: *Although there are a number of obstacles to overcome, the field of improved drug delivery systems has bright future prospects in pharmacology. Overcoming biological barriers, guaranteeing stability and biocompatibility, delivering targeted delivery, and navigating regulatory obstacles are some of the challenges. Prospective avenues for advancement encompass the amalgamation of nanotechnology, biomaterials, and customized medicine methodologies, the amplification of non-invasive delivery techniques, and the augmentation of drug release kinetics. By increasing efficacy and reducing adverse effects, these developments seek to transform medication therapy and eventually improve patient outcomes*

Keywords: biological barriers.