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multiscale shellac based delivery systems from the macroscale to nanoscale are comprehensively introduced including matrix tablets films enteric coatings hydrogels microcapsules microparticles beads spheres nanoparticles and nanofibers in this review we provide an overview of the biology synthesis and characterization of drug delivery systems based on rbc and their membrane including whole rbc rbc membrane camouflaged nanoparticles rbc derived extracellular vesicles and rbc hitchhiking in this viewpoint we briefly introduced the significance and applications of diselenide containing polymers in combined anticancer treatment furthermore we envisioned the future challenges and directions of diselenide containing drug delivery systems various mmp responsive drug delivery and release systems have been developed by harnessing cleavage activities and overexpression of mmfs in affected regions this review proposes a framework for designing delivery systems to target diseased tissues based on the biology of the target the journey and computational algorithms notably in the mouse tumor models gcz btz treatment significantly inhibits tumor survival and metastasis such a compartmentalized nmof delivery system presents a promising avenue for the efficient delivery of bioactive macromolecules as a new type of transdermal drug delivery system tdds microneedles have garnered significant attention for their noninvasiveness portability controllable drug administration and wide ranging loading capacity synthetic bacterial antigen delivery systems will be cost effective treatments that could replace traditional purified antigen formulations lactobacillus acidophilus has been engineered to express a bacillus anthracis protective antigen fused to a dendritic cell targeting peptide encapsulated systems are more applicable to acute drug delivery applications where rapid treatment such as pain relief is required at a high dose for a shorter time period zidovudine is conjugated to the lysine residue of each peptoid

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peptide via an ester linkage drugs are released from the hydrogel systems in an unmodified form via simple in this review three typical design strategies of self assembled peptide nanomaterials for drug delivery have been summarized including ex situ construction in situ morphological transformation and in situ construction of peptide drug delivery systems pdds here we present a polymeric nanomicelle pm system capable of delivering therapeutically effective levels of 3d6 antibody fragments 3d6 fab into the brain parenchyma for inhibiting a β aggregation the drug delivery system is a critical component in developing new drugs and modifying old drugs the limits and challenges associated with old drugs include limited bioavailability non specific targeting limited absorption and safety synthetic cell therapy is a field that has broad potential for future applications in human disease treatment next generation therapies will consist of engineered bacterial strains capable of diagnosing disease producing and delivering therapeutics and controlling their numbers to meet containmen among various mrna carrier systems lipid nanoparticles lnp stand out as the most clinically advanced while current clinical trials of mrna lnp therapeutics mainly address liver diseases the potential of mrna therapy extends far beyond yet to be unraveled to fully unlock the promises of mrna therapy there is an urgent need to develop safe and effective lnp systems that can target in recent years tremendous effort is devoted to developing platforms such as implantable drug delivery systems idds with temporally and spatially controlled drug release capabilities and improved adherence fabrication of hierarchical porous ethyl cellulose fibrous membrane by electro centrifugal spinning for drug delivery systems with excellent integrated properties international journal of biological macromolecules 2023 242 125141 the protocol reported in this study thus provides a facile approach to creating functional nanofibers with sophisticated structural features keywords gradient distribution medicated nanofibers triaxial electrospinning trilayer structure zero order controlled release however efficient and reproducible loading of evs with therapeutic or imaging agents still represents a bottleneck for their use as a drug delivery system here we developed a method for modifying cell derived evs through their fusion with liposomes containing both membrane and soluble cargoes multiscale shellac based delivery systems from the macroscale to nanoscale are comprehensively introduced including matrix tablets film enteric coatings hydrogels

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microcapsules microparticles beads spheres nanoparticles and nanofibers this review highlights the recent advances in the design of cell mediated drug delivery systems and targeting mechanisms the approaches of drug encapsulation conjugation to cell carriers cell mediated targeting mechanisms and the methods of controlled drug release are elaborated here

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