Targeted Drug Delivery System: Pharmaceutical Research

Journal of Pharmaceutical and Pharmacology Research publishes research on all aspects of targeted drug delivery system for molecular and macromolecular drugs including the design and characterization of carrier systems (whether colloidal, protein or polymeric) for both vitro and/or in vivo applications of these drugs.

Pharmaceutical-Targeted Drug Delivery System: Pharmaceutical-targeted drug delivery systems aim to deliver drugs accurate to the desired site within the body, optimizing effectiveness and reducing adverse effects. Various Types of Targeted Drug Delivery Systems are Liposomes, Nanoparticles, Micelles, Dendrimers, Polymeric Conjugates, Antibody-Drug Conjugates (ADCs), and Gene Therapy. Its Passive Targeting (EPR effect), Active Targeting (ligand-receptor interactions), and Physical Targeting (temperature, pH, or light) are its Targeting Mechanisms. Challenges are Target specificity, Delivery efficiency, Scalability and manufacturing, Regulatory frameworks, and Toxicity concerns. Key Trends in Targeted Drug Delivery Intravascular Targeting, Extravascular Targeting, Stimulus-Responsive Nanoparticles, Personalized nanomedicine, RNA-based therapeutics, Immunotherapy combinations.

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