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| Drug delivery   * Oral drug delivery   1- Formulation of sustained and controlled release matrices and reservoirs  2-Formulation of colon delivery systems  3-Formulation of solid dosage forms  4-Film coating  5-Microencapsulation of solid and liquid drugs  6-Pelletization using extrusion-spheronization technique  7-Solid dispersion systems  8-Development of techniques to increase the solubility and dissolution rate of  poorly water soluble drugs  9- Powder technology   * Cancer therapeutics   - nanoparticles  1-nanogels  2- lipid- based nanoparticles such as liposomes, SLN, NLC, micelles, etc.  3- carbon -based nanoparticles  4- Polymer based nanoparticles  5- Silica based nanoparticles  6- polymersomes   * -Targeted drug delivery   1- Aptamers  2- Ligands  3- peptides  -Local drug delivery  1- Hydrogels  2- lipid liquid crystals   * Ophthalmic drug delivery systems * Cutaneous and transdermal drug delivery   1- nanoparticle based delivery systems such as NLC, SLN, Nanoemulsions   * Nasal drug delivery   1- nanoparticle/microparticle- based delivery systems  Regenerative medicine and tissue engineering   * Fabrication of scaffold platform   1- Electrospinning  2- 3D printing  3- freeze drying   * Cartilage and bone tissue engineering * Skin tissue engineering * Wound healing   Gene delivery   * RNA interference * Targeted gene delivery * Nonviral vectors   1- Polyethylenimine (PEI) based carriers  2- lipid based carrier |