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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 systemsRegenerative 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 |