Injectable Implanted Drug Delivery

[Profile of our research work]

Biomaterials and body response

Preparation & formulation design

- Body response & biocompatibility
- biodegradation, variations of composition & structure
- Modification to attenuate the body response and promote the controlled drug release

In situ Implant DDS

- •Formulation design & optimization
- Drug-polymer interaction
- Drug-loaded hydrogel
- •Drug —loaded micropaticle/ hydrogel complex

long-term Controlled Drug Release

- •In vitro / in vivo drug release kinetics
- Modeling the drug release process
- •Accessing the controlled (constant) drug delivery

Injectable Implanted Drug Delivery

■ ■ [Injectable Implant Drug Delivery Based on Thermosensitive Hydrogel]



Solution at room temperature

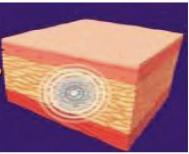


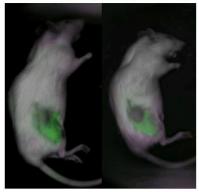
Fast sol-gel transition after injection (at body temperature





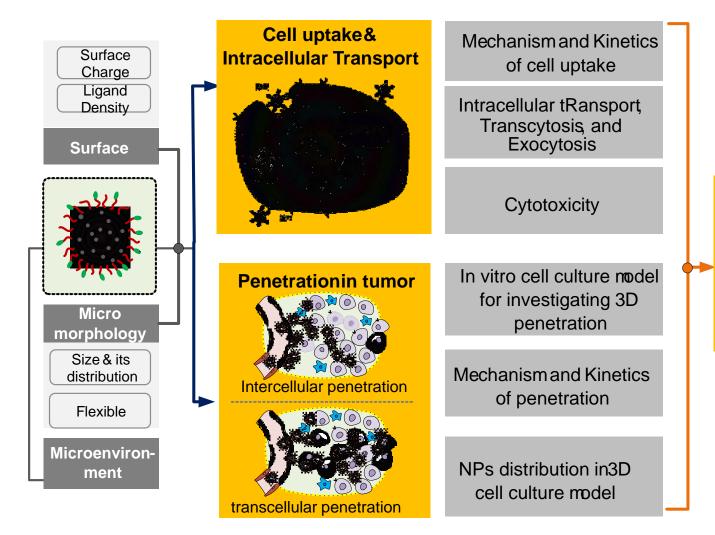
Semi-solid hydrogel containing the drug





Controlled drug release based on the degradation of the hydrogel

Nanoparticles for cell-targeted drug delivery



To enhance the targeted delivery to tumor cell