ORAL DEFENCE ANNOUNCEMENT

HU MING

Nanoformulation of Metal Complexes: Intelligent Stimuli-responsive Platforms for Biomedical Applications

So far, precise theranostics demonstrated great possibility for effective therapeutics and diagnosis towards a variety of human diseases. As one type of commonly used agent, metal complexes have gained considerable successes in clinical applications for their rich and versatile properties which can facilitate the design and development of agent for therapeutic and diagnostic purpose. However, drawbacks such as inevitable toxicity, lack of specificity and severe side effects have largely hampered their biomedical applications. To this end, innovative strategies to improve the specificity and pharmacokinetics of conventional metal complex based therapeutic and sensing agents are highly demanded. The nanoformulation of metal complex has been demonstrated effective approaches to address the issues of currently used metal complex, especially those based on the stimuli-responsive therapeutic strategies allow on-demand therapeutics and diagnosis with excellent spatial, temporal and dosage control. In this dissertation, we introduced some strategies which endowed traditional metal complex with stimuli-responsive properties for further advance of their application as therapeutic and sensing agents.

Date: 2 July 2019
Time: 3.00 PM
Venue: Conference Room, Research & Graduate Studies Office, Level 2, SPMS
Supervisor: Assoc Prof Xing Bengang