Title: Development and Preclinical Evaluation of Immuno-Oncology Drugs

Abstract:
Immunotherapy, a rapidly evolving area in the field of oncology, is a treatment option that relies on and utilizes the body's immune system to combat cancer. Ranging from immune checkpoint blockade therapies to vaccines and T-cell transfer therapies, immunotherapy has demonstrated great clinical promise and potential since its development. However, clinical and pre-clinical studies have shown that immunotherapy is only successful in a minority of patients and highly depends on the tumor microenvironment. Therefore, new immunotherapeutic strategies to improve the therapeutic efficacy of current immunotherapy are urgently needed. To improve immune checkpoint blockade-based therapies, relevant pre-clinical animal models are an essential component in the development and testing of multiple combination approaches and strategies. In the current seminar, I will introduce how we develop immunotherapeutic antibodies and validate their therapeutic efficacy in both *in vitro* and *in vivo*.