



# SEMINAR

Wednesday, 22.3.2023, 13.00, Kolar's lecture hall

## THERANOSTIC (THERAPY+DIAGNOSTIC) MAGNETO-LIPOSOMES

Dr Nina Kostevšek

Nowadays, a combination of different therapeutic approaches is applied to combat cancer. In this seminar, temperature-sensitive liposomes, a drug delivery system for chemotherapeutic drug, will be presented. A multifunctional therapeutic system contains magnetic nanoparticles for imaging purposes (contrast agents for magnetic resonance imaging) and local heating of the tumor upon laser irradiation. Then, adjuvant to chemotherapy, immunotherapy was applied via conjugation of anti-PD-L1 monoclonal antibodies on the surface of liposomes. The basic principle of each treatment will be presented with a demonstration of their efficacy *in vivo*.

**Kindly invited.**