Main interests and research activities of NTL

1. Design and synthesis of new passive/active targeting nano-therapeutics for the treatment of cancer, renal diseases and other disorders

2. Design and synthesis of deep-tumour-penetrating nano-therapeutics

3. Enhancement of drug/compound’s aqueous stability and biocompatibility via nano-carrier integration approach

4. *In vitro/in vivo* biocompatibility, toxicity and efficacy evaluations of nano-therapeutics and nano-materials

5. Biodistribution study & pharmacokinetic modelling for nano-therapeutics and nano-materials

6. Physicochemical property enhancement of the water-insoluble/non-degradable nano-carriers (e.g. graphene oxide-, gold-, magnetic ferro-based carriers, etc.) for clinical applications.


10. *in silico* modeling for nano-drug dosage form/formulation design and optimization.

11. *In vivo* drug delivery study using either 3T magnetic resonance imaging, micro CT or pharmacoscintigraphic imaging.